Rec'd 11/24/2020 - NMOCD

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
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 134H

2. Name of Operator
MATADOR RESOURCES COMPANY
Contact: CASSIE HAHN
E-Mail: CHahn@matadorresources.com

9. API Well No.
30-025-47489

3a. Address
5400 LBJ FWY STE 1500
DALLAS, TX 75240

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

10. Field and Pool or Exploratory Area
PRONGHORN/ BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 7 T23S R33E Mer NMP SESE 546FSL 185FEL
32.313509 N Lat, 103.603522 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 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 1170' FEL to 60' FNL and 990' FEL of Section 06 T23S R33E.

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

PLEASE REVIEW ADDITIONAL COAS 11/23/20 [signature]

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #524581 verified by the BLM Well Information System
For MATADOR RESOURCES COMPANY, sent to the Hobbs

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

Signature (Electronic Submission) — Date 08/07/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By N. MANDELA KAMAU — Title ENGINEER — Date 11/23/20

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

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

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Entered - KMS NMOCD

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
	96228	PRONGHORN;BONE SPRING

[4]Property Code	[5]Property Name	[6]Well Number
328112	RODNEY ROBINSON FED COM	134H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3718'

[10]Surface Location

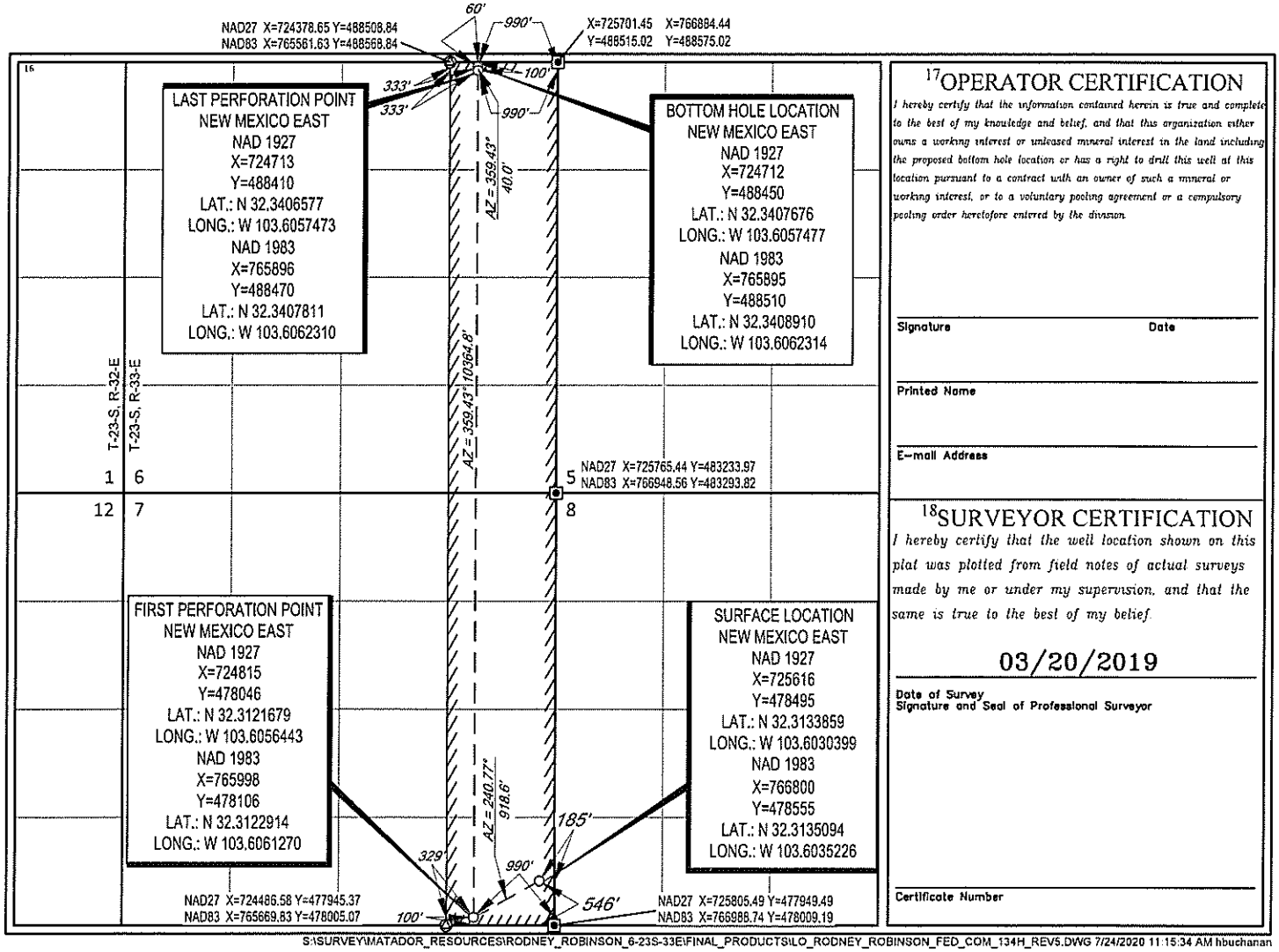
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	23-S	33-E	-	546'	SOUTH	185'	EAST	LEA

[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	990'	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 Date

Printed Name

E-mail Address

[18]SURVEYOR CERTIFICATION

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

03/20/2019

Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

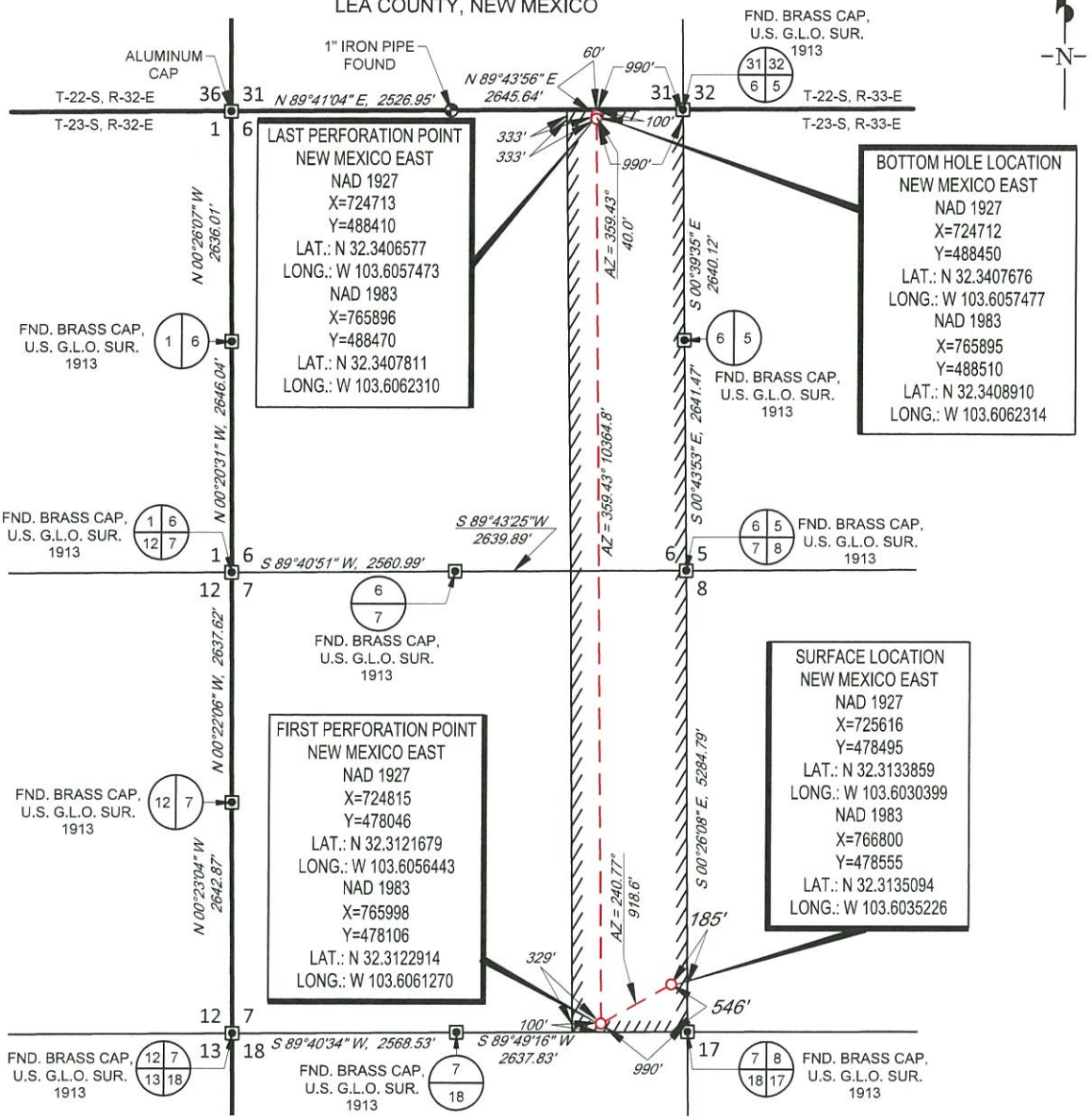
S:\SURVEY\MATADOR_RESOURCES\RODNEY_ROBINSON_6-23S-33E\FINAL_PRODUCTS\LO_RODNEY_ROBINSON_FED_COM_134H_REV5.DWG 7/24/2020 11:15:34 AM hbuchanan

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 134H

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

COUNTY LEA STATE NM

DESCRIPTION 546' FSL & 185' 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 ±407 FEET NORTHWEST OF THE LOCATION.

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

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

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

"PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE."

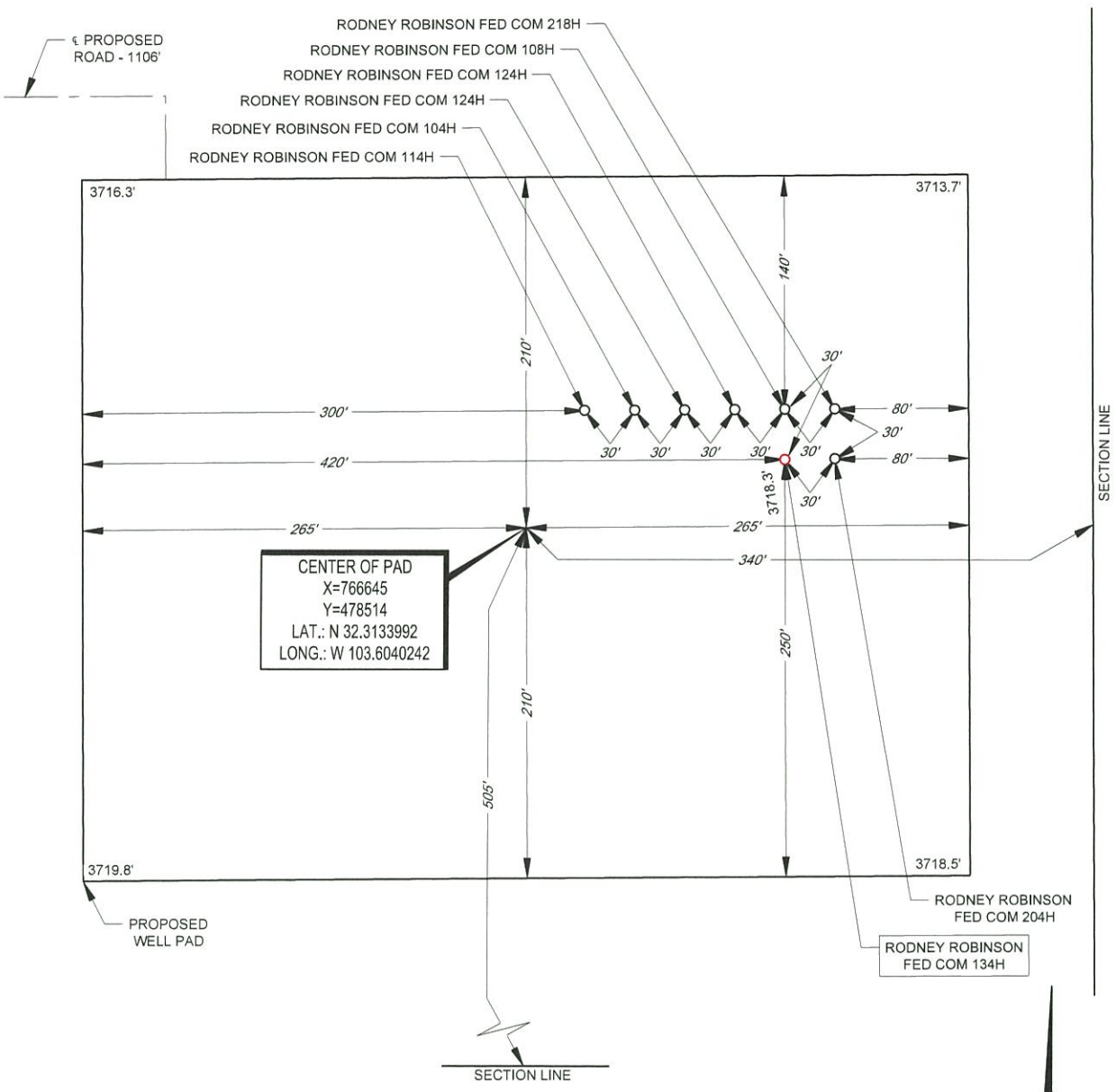
Angel M. Baeza, License No. 25116

JULY 23, 2020

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

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

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: RODNEY ROBINSON FED COM 134H

134H LATITUDE N 32.3135094 134H LONGITUDE W 103.6035226

-N-

LEGEND

SECTION LINE
PROPOSED ROAD

CENTER OF PAD IS 505' FSL & 340' FEL

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

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

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.

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

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

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	in^2
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

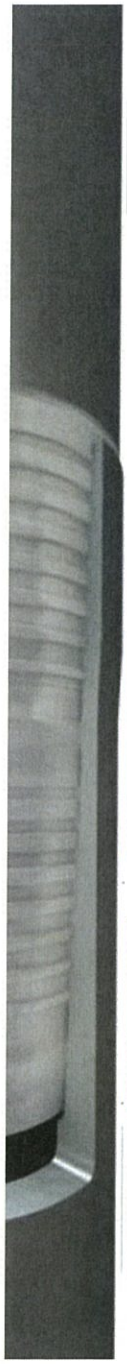
Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque

HUNTING

Generated on Sep 03, 2019



Issued on: 12 Janv. 2017 by T. DELBOSCO

VRCC 16-1177 Rev02 for Houston Field Service

DATA ARE INFORMATIVE ONLY.
BASED ON SI_PD-101836 P&B

VAM® HTF-NR™
Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	P110 EC	6.750 in.	VAM® HTF NR

PIPE PROPERTIES	
Nominal OD	7.625 in.
Nominal ID	6.875 in.
Nominal Cross Section Area	8.541 sqin.
Grade Type	Enhanced API
Min. Yield Strength	125 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	135 ksi
Tensile Yield Strength	1 068 klb
Internal Yield Pressure	10 760 psi
Collapse pressure	7 360 psi

CONNECTION PROPERTIES	
Connection Type	Premium Integral Flush
Connection OD (nom)	7.701 in.
Connection ID (nom)	6.782 in.
Make-Up Loss	4.657 in.
Critical Cross Section	4.971 sqin.
Tension Efficiency	58 % of pipe
Compression Efficiency	72.7 % of pipe
Compression Efficiency with Sealability	34.8 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORMANCES	
Tensile Yield Strength	619 klb
Compression Resistance	778 klb
Compression with Sealability	372 klb
Internal Yield Pressure	10 760 psi
External Pressure Resistance	7 360 psi
Max. Bending	44 °/100ft
Max. Bending with Sealability	17 °/100ft

TORQUE VALUES	
Min. Make-up torque	9 600 ft.lb
Opti. Make-up torque	11 300 ft.lb
Max. Make-up torque	13 000 ft.lb
Max. Torque with Sealability	58 500 ft.lb
Max. Torsional Value	73 000 ft.lb

VAM® HTF™ (High Torque Flush) is a flush OD integral connection providing maximum clearance along with torque strength for challenging applications such as extended reach and slim hole wells, drilling liner / casing, liner rotation to acheive better cementation in highly deviated and critical High Pressure / High Temperature wells.

Looking ahea on the outcoming testing industry standards, VAM® decided to create an upgraded design and launch on the market the VAM® HTF-NR as the new standard version of VAM® extreme high torque flush connection. The VAM® HTF-NR has extensive tests as per API RP 5C5:2015 CAL II which include the gas sealability having load points with bending, internal pressure and high temperature at 135°C.

Do you need help on this product? - Remember no one knows VAM® like VAM®

canada@vamfieldservice.com *uk@vamfieldservice.com* *china@vamfieldservice.com*
usa@vamfieldservice.com *dubai@vamfieldservice.com* *baku@vamfieldservice.com*
mexico@vamfieldservice.com *nigeria@vamfieldservice.com* *singapore@vamfieldservice.com*
brazil@vamfieldservice.com *angola@vamfieldservice.com* *australia@vamfieldservice.com*

Over 180 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Casing Table Specification Sheet

Rodney Robinson Fed Com 134H
SHL: 546' FSL & 185' FEL Section 7
BHL: 60' FNL & 990' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3718

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 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 - 11206	9500 - 11163	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	8.75	0 - 22108	0 - 11828	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

Rodney Robinson Fed Com 134H
SHL: 546' FSL & 185' FEL Section 7
BHL: 60' FNL & 990' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3718

Drilling Operation Plan

Proposed Drilling Depth: 22108' MD / 11828' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.3121641237 N / -103.6093449160 W
TD Lat/Long (NAD83): 32.3408941082 N / -103.6089645569 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	537	Carbonate	Oil/Natural Gas
KOP	**11,306**	**11,263**	**-**	**Carbonate**	**Oil/Natural Gas**
3rd Bone Spring Sand	11,985	11,786	-	Sandstone	Oil/Natural Gas
TD	**22,108**	**11,828**		**Sandstone**	**Oil/Natural Gas**

2. Notable Zones

3rd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 78'.

3. Pressure Control

Equipment
A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

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

Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

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

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

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

4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1289 1410	0 - 1289 1410	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 - 11206	9500 - 11163	7.625	29.7	P-110	VAM HTF-NR	1.125	1.125	1.8
Production	8.75	0 - 22108	0 - 11828	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	400	3.68	1480	10.3	35%	5100	A/C	Stage 1:Fluid Loss + Dispersant
	Tail	110	1.46	156	13.2	35%	10206	A/C	Stage 1: Fluid Loss +
Intermediate 1 Alternate Design-	Lead	800	3.68	2959	10.3	35%	0	A/C	Tuned light blend
	Tail	110	1.43	156	13.2	35%	10206	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%	11006	H	Fluid Loss + Dispersant + Retarder

→ NEGATIVE 59% CMT PLEASE INCREASE CMT VOLUME

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 - 11206	8.7 - 9.4	28-30	NC
Production	8.75	OBM/Cut Brine	11206 - 22108	8.6 - 9.4	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

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is 3179 psi. Expected bottom hole temperature is 171° 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.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM138876
WELL NAME & NO.:	Rodney Robinson Federal Com 134H
SURFACE HOLE FOOTAGE:	546'/S & 185'/E
BOTTOM HOLE FOOTAGE	60'/N & 1170'/E
LOCATION:	Section 7, T.23 S., R.33 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

ALL PREVIOUS COAs STILL APPLY.

A. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1400** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

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

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

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

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.

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

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to negative 59% - additional cement might be required.**

Option 2:

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 should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Excess calculates to negative 59% - additional cement might be required.**

Matador Production Company

Antelope Ridge
Rodney Robinson
Rodney Robinson Fed Com #134H

Wellbore #1
BLM Plan #1

Anticollision Report

27 July, 2020

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	22,108.6	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	2,137.6	2,136.3	56.9	42.1	3.851	CC, ES
Rodney Robinson Fed Com #024H - Wellbore #1 - BLM	2,200.0	2,201.7	57.3	42.1	3.766	SF
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	800.0	800.0	94.8	89.5	17.976	CC
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	900.0	898.9	95.4	89.4	15.968	ES
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	9,100.0	9,122.5	242.1	174.5	3.579	SF
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	2,008.9	2,010.9	24.4	10.7	1.779	CC, ES
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	2,100.0	2,102.1	25.3	11.0	1.767	SF
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	3,283.0	3,276.2	57.6	34.9	2.537	CC
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	3,300.0	3,306.8	57.6	34.7	2.519	ES
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	3,500.0	3,507.4	60.1	35.8	2.472	SF
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	1,836.6	1,835.4	41.3	28.6	3.266	CC
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	1,900.0	1,901.3	41.5	28.4	3.168	ES
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	2,000.0	1,998.4	43.0	29.2	3.116	SF
Rodney Robinson Fed Com #204H - Wellbore #1 - BLM	1,500.1	1,501.1	30.0	19.7	2.916	CC
Rodney Robinson Fed Com #204H - Wellbore #1 - BLM	1,600.0	1,601.0	30.7	19.7	2.795	ES
Rodney Robinson Fed Com #204H - Wellbore #1 - BLM	22,106.3	22,614.8	842.5	440.2	2.094	SF
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	1,500.0	1,501.0	42.5	32.2	4.123	CC, ES
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	22,107.2	22,725.1	899.2	517.2	2.354	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	0.0	0.0	0.0	0.0	-63.85	29.5	-60.1	67.0				
100.0	100.0	100.0	100.0	0.1	0.1	-63.85	29.5	-60.1	67.0	66.7	0.26	261.409	
200.0	200.0	200.0	200.0	0.5	0.5	-63.85	29.5	-60.1	67.0	66.0	0.97	68.843	
300.0	300.0	300.0	300.0	0.8	0.8	-63.85	29.5	-60.1	67.0	65.3	1.69	39.641	
400.0	400.0	400.0	400.0	1.2	1.2	-63.85	29.5	-60.1	67.0	64.6	2.41	27.834	
500.0	500.0	500.0	500.0	1.6	1.6	-63.85	29.5	-60.1	67.0	63.9	3.12	21.447	
600.0	600.0	600.0	600.0	1.9	1.9	-63.85	29.5	-60.1	67.0	63.2	3.84	17.444	
700.0	700.0	700.0	700.0	2.3	2.3	-63.85	29.5	-60.1	67.0	62.4	4.56	14.700	
800.0	800.0	800.0	800.0	2.6	2.6	-63.85	29.5	-60.1	67.0	61.7	5.27	12.702	
900.0	900.0	900.0	900.0	3.0	3.0	-63.85	29.5	-60.1	67.0	61.0	5.99	11.182	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
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Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-63.85	29.5	-60.1	67.0	60.3	6.71	9.987	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-63.85	29.5	-60.1	67.0	59.6	7.43	9.023	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-63.85	29.5	-60.1	67.0	58.9	8.14	8.228	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-63.85	29.5	-60.1	67.0	58.1	8.86	7.563	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-63.85	29.5	-60.1	67.0	57.4	9.58	6.996	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-63.85	29.5	-60.1	67.0	56.7	10.29	6.509	
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	58.70	29.5	-60.1	66.5	55.5	11.00	6.051	
1,700.0	1,700.0	1,700.0	1,700.0	5.8	5.9	60.68	29.5	-60.1	65.2	53.5	11.69	5.580	
1,800.0	1,799.9	1,800.1	1,799.9	6.2	6.2	64.14	29.5	-60.1	63.2	50.8	12.38	5.103	
1,900.0	1,899.7	1,900.3	1,899.7	6.5	6.6	69.34	29.5	-60.1	60.8	47.7	13.08	4.645	
2,000.0	1,999.4	2,000.6	1,999.4	6.9	6.9	76.56	29.5	-60.1	58.5	44.7	13.79	4.240	
2,100.0	2,098.9	2,101.1	2,098.9	7.2	7.3	85.94	29.5	-60.1	57.0	42.5	14.50	3.930	
2,137.6	2,136.3	2,136.3	2,136.3	7.3	7.4	90.00	29.5	-60.1	56.9	42.1	14.76	3.851	CC, ES
2,200.0	2,198.3	2,201.7	2,198.3	7.6	7.7	97.23	29.5	-60.1	57.3	42.1	15.22	3.766	SF
2,300.0	2,297.4	2,302.6	2,297.4	7.9	8.0	109.48	29.5	-60.1	60.4	44.4	15.94	3.787	
2,400.0	2,396.4	2,403.6	2,396.4	8.3	8.4	120.80	29.5	-60.1	66.4	49.7	16.66	3.983	
2,500.0	2,495.5	2,504.5	2,495.5	8.7	8.7	129.98	29.5	-60.1	74.5	57.1	17.38	4.287	
2,600.0	2,594.5	2,605.5	2,594.5	9.1	9.1	137.23	29.5	-60.1	84.2	66.1	18.09	4.653	
2,700.0	2,693.5	2,706.5	2,693.5	9.4	9.5	142.92	29.5	-60.1	94.9	76.1	18.80	5.047	
2,800.0	2,792.5	2,807.5	2,792.5	9.8	9.8	147.44	29.5	-60.1	106.4	86.9	19.51	5.451	
2,900.0	2,891.6	2,908.4	2,891.6	10.2	10.2	151.06	29.5	-60.1	118.4	98.1	20.23	5.852	
3,000.0	2,990.6	2,990.6	2,990.6	10.6	10.5	154.00	29.5	-60.1	130.7	109.9	20.87	6.264	
3,100.0	3,089.6	3,091.9	3,091.9	11.0	10.8	156.54	28.9	-60.4	142.7	121.1	21.58	6.614	
3,200.0	3,188.6	3,193.7	3,193.7	11.4	11.2	158.85	26.5	-61.5	153.2	130.9	22.26	6.881	
3,300.0	3,287.7	3,295.9	3,295.7	11.8	11.5	161.03	22.5	-63.2	162.1	139.2	22.94	7.068	
3,400.0	3,386.7	3,398.3	3,397.9	12.2	11.8	163.16	16.9	-65.7	169.6	146.0	23.62	7.181	
3,500.0	3,485.7	3,500.8	3,500.2	12.6	12.2	165.30	9.5	-68.9	175.6	151.3	24.30	7.228	
3,600.0	3,584.8	3,603.5	3,602.3	13.0	12.5	167.52	0.5	-72.9	180.2	155.2	24.97	7.215	
3,700.0	3,683.8	3,706.2	3,704.4	13.4	12.9	169.85	-10.3	-77.6	183.3	157.7	25.65	7.148	
3,800.0	3,782.8	3,808.8	3,806.1	13.8	13.3	172.35	-22.7	-83.0	185.2	158.9	26.33	7.034	
3,900.0	3,881.8	3,908.2	3,904.6	14.2	13.7	174.82	-35.3	-88.6	186.7	159.7	27.04	6.905	
4,000.0	3,980.9	4,007.9	4,003.3	14.6	14.1	177.26	-48.0	-94.2	188.6	160.8	27.76	6.792	
4,100.0	4,079.9	4,107.5	4,102.0	15.0	14.5	179.65	-60.7	-99.7	190.8	162.3	28.50	6.695	
4,200.0	4,178.9	4,207.2	4,200.6	15.5	14.9	-178.02	-73.4	-105.3	193.3	164.1	29.24	6.611	
4,300.0	4,277.9	4,306.9	4,299.3	15.9	15.3	-175.76	-86.1	-110.9	196.2	166.2	30.00	6.538	
4,400.0	4,377.0	4,406.5	4,398.0	16.3	15.7	-173.56	-98.8	-116.5	199.3	168.5	30.78	6.476	
4,500.0	4,476.0	4,506.2	4,496.7	16.7	16.2	-171.43	-111.5	-122.0	202.7	171.2	31.56	6.423	
4,600.0	4,575.0	4,605.8	4,595.4	17.1	16.6	-169.38	-124.2	-127.6	206.4	174.1	32.37	6.378	
4,700.0	4,674.0	4,705.5	4,694.1	17.5	17.1	-167.40	-136.9	-133.2	210.4	177.2	33.18	6.340	
4,800.0	4,773.1	4,805.2	4,792.8	17.9	17.5	-165.50	-149.6	-138.8	214.6	180.6	34.01	6.310	
4,900.0	4,872.1	4,904.8	4,891.5	18.3	18.0	-163.67	-162.3	-144.3	219.0	184.2	34.85	6.285	
5,000.0	4,971.1	5,004.5	4,990.2	18.8	18.5	-161.91	-175.0	-149.9	223.6	187.9	35.70	6.265	
5,100.0	5,070.2	5,104.2	5,088.9	19.2	18.9	-160.23	-187.7	-155.5	228.5	191.9	36.56	6.249	
5,200.0	5,169.2	5,203.8	5,187.6	19.6	19.4	-158.62	-200.4	-161.0	233.5	196.1	37.43	6.238	
5,300.0	5,268.2	5,303.5	5,286.2	20.0	19.9	-157.07	-213.1	-166.6	238.7	200.4	38.31	6.231	
5,400.0	5,367.2	5,403.1	5,384.9	20.4	20.4	-155.60	-225.8	-172.2	244.1	204.9	39.20	6.226	
5,500.0	5,466.3	5,502.8	5,483.6	20.8	20.9	-154.18	-238.5	-177.8	249.6	209.5	40.10	6.225	
5,600.0	5,565.3	5,602.5	5,582.3	21.3	21.3	-152.83	-251.2	-183.3	255.3	214.3	41.01	6.226	
5,700.0	5,664.3	5,702.1	5,681.0	21.7	21.8	-151.54	-263.9	-188.9	261.1	219.2	41.92	6.230	
5,800.0	5,763.3	5,801.8	5,779.7	22.1	22.3	-150.31	-276.6	-194.5	267.1	224.2	42.83	6.235	
5,900.0	5,862.4	5,901.4	5,878.4	22.5	22.8	-149.13	-289.3	-200.1	273.1	229.4	43.75	6.242	
6,000.0	5,961.4	6,001.1	5,977.1	22.9	23.3	-148.00	-302.0	-205.6	279.3	234.6	44.68	6.251	

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

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Reference Well:	Rodney Robinson Fed Com #134H	**Survey Calculation Method:**	Minimum Curvature
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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
6,100.0	6,060.4	6,100.8	6,075.8	23.3	23.8	-146.92	-314.7	-211.2	285.6	239.9	45.61	6.261	
6,200.0	6,159.4	6,200.4	6,174.5	23.8	24.3	-145.88	-327.5	-216.8	291.9	245.4	46.54	6.272	
6,300.0	6,258.5	6,300.1	6,273.2	24.2	24.8	-144.89	-340.2	-222.3	298.4	250.9	47.48	6.284	
6,400.0	6,357.5	6,399.8	6,371.9	24.6	25.3	-143.95	-352.9	-227.9	304.9	256.5	48.42	6.297	
6,500.0	6,456.5	6,500.6	6,470.5	25.0	25.9	-143.04	-365.6	-233.5	311.5	262.2	49.37	6.311	
6,600.0	6,555.6	6,599.1	6,569.2	25.4	26.4	-142.17	-378.3	-239.1	318.2	267.9	50.31	6.326	
6,700.0	6,654.6	6,701.3	6,667.9	25.9	26.9	-141.34	-391.0	-244.6	325.0	273.7	51.27	6.340	
6,800.0	6,753.6	6,801.6	6,766.6	26.3	27.4	-140.54	-403.7	-250.2	331.8	279.6	52.22	6.355	
6,900.0	6,852.6	6,901.9	6,865.3	26.7	27.9	-139.77	-416.4	-255.8	338.7	285.6	53.17	6.371	
7,000.0	6,951.7	7,002.3	6,964.0	27.1	28.4	-139.03	-429.1	-261.4	345.7	291.6	54.13	6.387	
7,100.0	7,050.7	7,102.6	7,062.7	27.5	29.0	-138.33	-441.8	-266.9	352.7	297.6	55.08	6.403	
7,200.0	7,149.7	7,203.0	7,161.4	28.0	29.5	-137.65	-454.5	-272.5	359.8	303.7	56.04	6.420	
7,300.0	7,248.7	7,296.0	7,259.4	28.4	30.0	-137.02	-467.0	-278.0	366.9	310.0	56.95	6.442	
7,400.0	7,347.8	7,393.6	7,356.3	28.8	30.5	-136.71	-477.5	-282.6	374.5	316.7	57.83	6.476	
7,500.0	7,446.8	7,491.2	7,453.5	29.2	30.9	-136.79	-485.8	-286.3	382.7	324.0	58.65	6.525	
7,600.0	7,545.8	7,588.6	7,550.6	29.6	31.3	-137.21	-491.8	-288.9	391.4	332.0	59.40	6.590	
7,700.0	7,644.9	7,685.7	7,647.6	30.1	31.6	-137.96	-495.5	-290.5	400.8	340.7	60.08	6.671	
7,800.0	7,743.9	7,782.3	7,744.3	30.5	32.0	-139.01	-497.0	-291.2	410.8	350.1	60.68	6.771	
7,900.0	7,842.9	7,880.9	7,842.9	30.9	32.2	-140.24	-497.0	-291.2	421.5	360.2	61.25	6.881	
8,000.0	7,941.9	7,980.0	7,941.9	31.3	32.5	-141.41	-497.0	-291.2	432.3	370.5	61.82	6.993	
8,100.0	8,041.0	8,079.0	8,041.0	31.7	32.8	-142.53	-497.0	-291.2	443.3	380.9	62.39	7.105	
8,200.0	8,140.0	8,178.0	8,140.0	32.2	33.1	-143.60	-497.0	-291.2	454.5	391.5	62.97	7.217	
8,300.0	8,239.0	8,269.3	8,231.0	32.6	33.3	-145.17	-491.9	-290.3	466.5	403.1	63.37	7.361	
8,400.0	8,338.0	8,353.4	8,313.3	33.0	33.5	-148.03	-474.7	-287.3	481.4	417.9	63.44	7.588	
8,415.6	8,353.5	8,365.8	8,325.1	33.1	33.5	-148.56	-471.2	-286.7	484.1	420.6	63.41	7.633	
8,500.0	8,437.2	8,429.2	8,384.4	33.4	33.6	-151.71	-449.3	-282.9	500.2	437.1	63.10	7.928	
8,600.0	8,536.6	8,496.3	8,444.1	33.8	33.7	-155.57	-419.3	-277.7	523.4	461.1	62.27	8.405	
8,700.0	8,636.3	8,555.0	8,493.1	34.2	33.8	-159.30	-387.5	-272.2	552.2	491.2	60.91	9.066	
8,800.0	8,736.2	8,606.1	8,532.9	34.6	33.9	-162.73	-355.9	-266.7	587.1	528.1	59.01	9.948	
8,900.0	8,836.2	8,650.0	8,564.7	34.9	33.9	-165.76	-326.1	-261.5	628.3	571.6	56.67	11.088	
8,948.9	8,885.1	8,670.3	8,578.6	35.0	34.0	70.93	-311.5	-259.0	650.6	595.2	55.43	11.739	
9,000.0	8,936.2	8,689.5	8,591.3	35.2	34.0	69.68	-297.2	-256.5	675.7	621.7	54.05	12.501	
9,100.0	9,036.2	8,723.1	8,612.2	35.5	34.1	67.50	-271.4	-252.0	730.3	679.0	51.31	14.234	
9,200.0	9,136.2	8,750.0	8,627.9	35.8	34.2	65.75	-249.8	-248.2	791.5	742.9	48.53	16.310	
9,300.0	9,236.2	8,777.4	8,642.7	36.1	34.3	63.99	-227.1	-244.3	858.2	812.1	46.04	18.638	
9,400.0	9,336.2	8,800.0	8,654.1	36.4	34.4	62.55	-207.9	-241.0	929.5	885.8	43.70	21.271	
9,500.0	9,436.2	8,818.9	8,663.1	36.7	34.5	61.37	-191.5	-238.1	1,004.7	963.2	41.55	24.180	
9,600.0	9,536.2	8,836.0	8,670.7	37.0	34.6	60.32	-176.4	-235.5	1,083.2	1,043.5	39.65	27.317	
9,700.0	9,636.2	8,850.0	8,676.6	37.4	34.7	59.47	-163.9	-233.3	1,164.4	1,126.4	37.94	30.691	
9,800.0	9,736.2	8,850.0	8,676.6	37.7	34.7	59.47	-163.9	-233.3	1,248.1	1,212.0	36.11	34.564	
9,900.0	9,836.2	8,877.2	8,687.1	38.0	34.8	57.85	-139.3	-229.1	1,333.1	1,297.9	35.23	37.841	
10,000.0	9,936.2	8,900.0	8,695.1	38.3	35.0	56.53	-118.2	-225.4	1,420.2	1,385.8	34.40	41.283	
10,100.0	10,036.2	8,900.0	8,695.1	38.6	35.0	56.53	-118.2	-225.4	1,508.4	1,475.2	33.21	45.427	
10,200.0	10,136.2	8,900.0	8,695.1	38.9	35.0	56.53	-118.2	-225.4	1,598.0	1,565.8	32.19	49.638	
10,300.0	10,236.2	8,900.0	8,695.1	39.2	35.0	56.53	-118.2	-225.4	1,688.7	1,657.4	31.34	53.884	
10,400.0	10,336.2	8,923.2	8,702.3	39.5	35.1	55.23	-96.4	-221.6	1,779.8	1,748.8	31.06	57.307	
10,500.0	10,436.2	8,930.2	8,704.3	39.9	35.2	54.84	-89.8	-220.5	1,872.0	1,841.4	30.56	61.256	
10,600.0	10,536.2	8,950.0	8,709.4	40.2	35.3	53.77	-71.0	-217.2	1,965.0	1,934.7	30.37	64.704	
10,700.0	10,636.2	8,950.0	8,709.4	40.5	35.3	53.77	-71.0	-217.2	2,058.3	2,028.4	29.92	68.788	
10,800.0	10,736.2	8,950.0	8,709.4	40.8	35.3	53.77	-71.0	-217.2	2,152.2	2,122.7	29.56	72.809	
10,900.0	10,836.2	8,950.0	8,709.4	41.1	35.3	53.77	-71.0	-217.2	2,246.6	2,217.4	29.27	76.754	
11,000.0	10,936.2	8,950.0	8,709.4	41.5	35.3	53.77	-71.0	-217.2	2,341.5	2,312.5	29.05	80.613	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
11,100.0	11,036.2	8,950.0	8,709.4	41.8	35.3	53.77	-71.0	-217.2	2,436.8	2,407.9	28.88	84.377	
11,200.0	11,136.2	8,950.0	8,709.4	42.1	35.3	53.77	-71.0	-217.2	2,532.5	2,503.7	28.76	88.043	
11,300.0	11,236.2	8,970.8	8,714.2	42.4	35.5	52.69	-51.1	-213.7	2,628.0	2,599.1	28.93	90.842	
11,326.8	11,263.0	8,971.8	8,714.4	42.5	35.5	52.63	-50.1	-213.6	2,653.8	2,624.8	28.93	91.745	
11,350.0	11,286.1	8,972.7	8,714.6	42.6	35.5	47.28	-49.2	-213.4	2,675.9	2,647.0	28.92	92.525	
11,400.0	11,336.0	8,975.3	8,715.1	42.7	35.6	37.53	-46.7	-213.0	2,723.1	2,694.2	28.90	94.212	
11,450.0	11,385.2	8,978.4	8,715.7	42.9	35.6	30.80	-43.7	-212.5	2,769.2	2,740.3	28.88	95.894	
11,500.0	11,433.5	9,000.0	8,719.6	43.0	35.8	25.87	-22.8	-208.8	2,814.2	2,785.2	29.03	96.951	
11,550.0	11,480.6	9,000.0	8,719.6	43.1	35.8	22.48	-22.8	-208.8	2,857.0	2,828.1	28.94	98.730	
11,600.0	11,525.9	9,000.0	8,719.6	43.2	35.8	19.91	-22.8	-208.8	2,897.8	2,869.0	28.84	100.468	
11,650.0	11,569.3	9,000.0	8,719.6	43.3	35.8	17.93	-22.8	-208.8	2,936.5	2,907.8	28.75	102.142	
11,700.0	11,610.3	9,000.0	8,719.6	43.3	35.8	16.37	-22.8	-208.8	2,972.8	2,944.2	28.66	103.727	
11,750.0	11,648.7	9,000.0	8,719.6	43.4	35.8	15.13	-22.8	-208.8	3,006.6	2,978.0	28.58	105.197	
11,800.0	11,684.2	9,000.0	8,719.6	43.4	35.8	14.13	-22.8	-208.8	3,037.6	3,009.1	28.52	106.524	
11,850.0	11,716.4	9,021.1	8,722.6	43.4	36.0	13.35	-2.2	-205.3	3,065.4	3,036.7	28.61	107.125	
11,900.0	11,745.2	9,028.0	8,723.4	43.4	36.0	12.71	4.6	-204.1	3,090.2	3,061.5	28.63	107.952	
11,950.0	11,770.4	9,050.0	8,725.4	43.4	36.2	12.24	26.1	-200.3	3,112.0	3,083.2	28.75	108.261	
12,000.0	11,791.6	9,050.0	8,725.4	43.4	36.2	11.83	26.1	-200.3	3,130.0	3,101.3	28.76	108.840	
12,050.0	11,808.9	9,050.0	8,725.4	43.4	36.2	11.52	26.1	-200.3	3,144.8	3,116.0	28.81	109.153	
12,100.0	11,822.0	9,050.0	8,725.4	43.3	36.2	11.29	26.1	-200.3	3,156.2	3,127.3	28.91	109.185	
12,150.0	11,830.8	9,050.0	8,725.4	43.3	36.2	11.13	26.1	-200.3	3,164.1	3,135.1	29.05	108.925	
12,200.0	11,835.3	9,072.6	8,726.6	43.3	36.5	11.12	48.3	-196.5	3,168.1	3,138.8	29.30	108.132	
12,226.8	11,836.0	9,092.0	8,727.0	43.3	36.7	11.17	67.5	-193.2	3,169.0	3,139.6	29.46	107.573	
12,299.9	11,836.0	9,092.0	8,727.0	43.2	36.7	11.17	67.5	-193.2	3,170.2	3,140.4	29.82	106.325	
12,400.0	11,836.0	9,184.1	8,727.0	43.2	37.8	11.44	158.5	-178.9	3,173.4	3,142.8	30.57	103.807	
12,500.0	11,836.0	9,312.0	8,727.0	43.3	39.6	11.73	285.5	-163.9	3,176.0	3,144.5	31.47	100.935	
12,600.0	11,836.0	9,441.1	8,727.0	43.6	41.7	11.91	414.2	-154.5	3,177.7	3,145.2	32.47	97.876	
12,700.0	11,836.0	9,570.9	8,727.0	44.0	44.0	12.00	543.9	-151.0	3,178.5	3,144.9	33.52	94.811	
12,800.0	11,836.0	9,680.6	8,727.0	44.5	46.1	12.00	653.7	-151.7	3,178.5	3,143.9	34.56	91.974	
12,900.0	11,836.0	9,780.6	8,727.0	45.0	48.1	12.00	753.7	-152.7	3,178.5	3,142.9	35.62	89.229	
13,000.0	11,836.0	9,880.6	8,727.0	45.6	50.3	12.00	853.7	-153.7	3,178.5	3,141.8	36.74	86.504	
13,100.0	11,836.0	9,980.6	8,727.0	46.2	52.5	12.00	953.6	-154.7	3,178.5	3,140.6	37.92	83.823	
13,200.0	11,836.0	10,080.6	8,727.0	46.9	54.8	12.00	1,053.6	-155.7	3,178.5	3,139.3	39.14	81.202	
13,300.0	11,836.0	10,180.6	8,727.0	47.6	57.2	12.00	1,153.6	-156.7	3,178.5	3,138.1	40.41	78.654	
13,400.0	11,836.0	10,280.6	8,727.0	48.4	59.7	12.00	1,253.6	-157.7	3,178.5	3,136.8	41.72	76.187	
13,500.0	11,836.0	10,380.6	8,727.0	49.2	62.2	12.00	1,353.6	-158.7	3,178.5	3,135.4	43.06	73.808	
13,600.0	11,836.0	10,480.6	8,727.0	50.1	64.7	12.00	1,453.6	-159.7	3,178.5	3,134.0	44.44	71.520	
13,700.0	11,836.0	10,580.6	8,727.0	51.0	67.3	12.00	1,553.6	-160.7	3,178.5	3,132.6	45.85	69.323	
13,800.0	11,836.0	10,680.6	8,727.0	51.9	70.0	12.00	1,653.6	-161.7	3,178.5	3,131.2	47.29	67.217	
13,900.0	11,836.0	10,780.6	8,727.0	52.9	72.7	12.00	1,753.6	-162.7	3,178.5	3,129.7	48.75	65.202	
14,000.0	11,836.0	10,880.6	8,727.0	53.9	75.4	12.00	1,853.6	-163.7	3,178.5	3,128.2	50.23	63.274	
14,100.0	11,836.0	10,980.6	8,727.0	54.9	78.1	12.00	1,953.6	-164.7	3,178.5	3,126.7	51.74	61.431	
14,200.0	11,836.0	11,080.6	8,727.0	55.9	80.9	12.00	2,053.6	-165.7	3,178.5	3,125.2	53.27	59.671	
14,300.0	11,836.0	11,180.6	8,727.0	57.0	83.7	12.00	2,153.6	-166.6	3,178.5	3,123.7	54.81	57.990	
14,400.0	11,836.0	11,280.6	8,727.0	58.1	86.5	12.00	2,253.6	-167.6	3,178.5	3,122.1	56.37	56.383	
14,500.0	11,836.0	11,380.6	8,727.0	59.3	89.3	12.00	2,353.6	-168.6	3,178.5	3,120.5	57.95	54.849	
14,600.0	11,836.0	11,480.6	8,727.0	60.4	92.1	12.00	2,453.6	-169.6	3,178.5	3,118.9	59.54	53.383	
14,700.0	11,836.0	11,580.6	8,727.0	61.6	95.0	12.00	2,553.6	-170.6	3,178.5	3,117.3	61.14	51.983	
14,800.0	11,836.0	11,680.6	8,727.0	62.8	97.8	12.00	2,653.6	-171.6	3,178.4	3,115.7	62.76	50.643	
14,900.0	11,836.0	11,780.6	8,727.0	64.0	100.7	12.00	2,753.6	-172.6	3,178.4	3,114.1	64.39	49.363	
15,000.0	11,836.0	11,880.6	8,727.0	65.3	103.6	12.00	2,853.6	-173.6	3,178.4	3,112.4	66.03	48.138	
15,100.0	11,836.0	11,980.6	8,727.0	66.5	106.5	12.00	2,953.5	-174.6	3,178.4	3,110.8	67.68	46.965	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
15,200.0	11,836.0	12,080.6	8,727.0	67.8	109.4	12.00	3,053.5	-175.6	3,178.4	3,109.1	69.34	45.842	
15,300.0	11,836.0	12,180.6	8,727.0	69.1	112.3	12.00	3,153.5	-176.6	3,178.4	3,107.4	71.00	44.766	
15,400.0	11,836.0	12,280.6	8,727.0	70.4	115.3	12.00	3,253.5	-177.6	3,178.4	3,105.8	72.68	43.734	
15,500.0	11,836.0	12,380.6	8,727.0	71.7	118.2	12.00	3,353.5	-178.6	3,178.4	3,104.1	74.36	42.745	
15,600.0	11,836.0	12,480.6	8,727.0	73.1	121.1	12.00	3,453.5	-179.6	3,178.4	3,102.4	76.05	41.795	
15,700.0	11,836.0	12,580.6	8,727.0	74.4	124.1	12.00	3,553.5	-180.6	3,178.4	3,100.7	77.74	40.883	
15,800.0	11,836.0	12,680.6	8,727.0	75.8	127.0	12.00	3,653.5	-181.6	3,178.4	3,099.0	79.45	40.007	
15,900.0	11,836.0	12,780.6	8,727.0	77.2	130.0	12.00	3,753.5	-182.6	3,178.4	3,097.3	81.15	39.165	
16,000.0	11,836.0	12,880.6	8,727.0	78.5	133.0	12.00	3,853.5	-183.6	3,178.4	3,095.6	82.87	38.356	
16,100.0	11,836.0	12,980.6	8,727.0	79.9	135.9	12.00	3,953.5	-184.5	3,178.4	3,093.8	84.59	37.576	
16,200.0	11,836.0	13,080.6	8,727.0	81.3	138.9	12.00	4,053.5	-185.5	3,178.4	3,092.1	86.31	36.826	
16,300.0	11,836.0	13,180.6	8,727.0	82.7	141.9	12.00	4,153.5	-186.5	3,178.4	3,090.4	88.04	36.103	
16,400.0	11,836.0	13,280.6	8,727.0	84.2	144.9	12.00	4,253.5	-187.5	3,178.4	3,088.6	89.77	35.406	
16,500.0	11,836.0	13,380.6	8,727.0	85.6	147.9	12.00	4,353.5	-188.5	3,178.4	3,086.9	91.51	34.734	
16,600.0	11,836.0	13,480.6	8,727.0	87.0	150.9	12.00	4,453.5	-189.5	3,178.4	3,085.2	93.25	34.086	
16,700.0	11,836.0	13,580.6	8,727.0	88.5	153.8	12.00	4,553.5	-190.5	3,178.4	3,083.4	94.99	33.460	
16,800.0	11,836.0	13,680.6	8,727.0	89.9	156.8	11.99	4,653.5	-191.5	3,178.4	3,081.7	96.74	32.856	
16,900.0	11,836.0	13,780.6	8,727.0	91.4	159.8	11.99	4,753.5	-192.5	3,178.4	3,079.9	98.49	32.272	
17,000.0	11,836.0	13,880.6	8,727.0	92.8	162.8	11.99	4,853.5	-193.5	3,178.4	3,078.2	100.24	31.707	
17,100.0	11,836.0	13,980.6	8,727.0	94.3	165.9	11.99	4,953.4	-194.5	3,178.4	3,076.4	102.00	31.161	
17,200.0	11,836.0	14,080.6	8,727.0	95.8	168.9	11.99	5,053.4	-195.5	3,178.4	3,074.6	103.76	30.633	
17,300.0	11,836.0	14,180.6	8,727.0	97.3	171.9	11.99	5,153.4	-196.5	3,178.4	3,072.9	105.52	30.121	
17,400.0	11,836.0	14,280.6	8,727.0	98.8	174.9	11.99	5,253.4	-197.5	3,178.4	3,071.1	107.29	29.625	
17,500.0	11,836.0	14,380.6	8,727.0	100.3	177.9	11.99	5,353.4	-198.5	3,178.4	3,069.3	109.05	29.145	
17,600.0	11,836.0	14,480.6	8,727.0	101.8	180.9	11.99	5,453.4	-199.5	3,178.4	3,067.6	110.82	28.680	
17,700.0	11,836.0	14,580.6	8,727.0	103.3	183.9	11.99	5,553.4	-200.5	3,178.4	3,065.8	112.59	28.229	
17,800.0	11,836.0	14,680.6	8,727.0	104.8	187.0	11.99	5,653.4	-201.4	3,178.4	3,064.0	114.37	27.791	
17,900.0	11,836.0	14,780.6	8,727.0	106.3	190.0	11.99	5,753.4	-202.4	3,178.4	3,062.2	116.14	27.366	
18,000.0	11,836.0	14,880.6	8,727.0	107.8	193.0	11.99	5,853.4	-203.4	3,178.4	3,060.4	117.92	26.953	
18,100.0	11,836.0	14,980.6	8,727.0	109.3	196.0	11.99	5,953.4	-204.4	3,178.4	3,058.7	119.70	26.552	
18,200.0	11,836.0	15,080.6	8,727.0	110.8	199.1	11.99	6,053.4	-205.4	3,178.4	3,056.9	121.48	26.163	
18,300.0	11,836.0	15,180.6	8,727.0	112.4	202.1	11.99	6,153.4	-206.4	3,178.4	3,055.1	123.27	25.785	
18,400.0	11,836.0	15,280.6	8,727.0	113.9	205.1	11.99	6,253.4	-207.4	3,178.4	3,053.3	125.05	25.417	
18,500.0	11,836.0	15,380.6	8,727.0	115.4	208.2	11.99	6,353.4	-208.4	3,178.4	3,051.5	126.84	25.059	
18,600.0	11,836.0	15,480.6	8,727.0	117.0	211.2	11.99	6,453.4	-209.4	3,178.4	3,049.7	128.62	24.710	
18,700.0	11,836.0	15,580.6	8,727.0	118.5	214.2	11.99	6,553.4	-210.4	3,178.3	3,047.9	130.41	24.371	
18,800.0	11,836.0	15,680.6	8,727.0	120.1	217.3	11.99	6,653.4	-211.4	3,178.3	3,046.1	132.20	24.041	
18,900.0	11,836.0	15,780.6	8,727.0	121.6	220.3	11.99	6,753.4	-212.4	3,178.3	3,044.3	134.00	23.720	
19,000.0	11,836.0	15,880.6	8,727.0	123.2	223.3	11.99	6,853.4	-213.4	3,178.3	3,042.6	135.79	23.406	
19,100.0	11,836.0	15,980.6	8,727.0	124.7	226.4	11.99	6,953.3	-214.4	3,178.3	3,040.8	137.58	23.101	
19,200.0	11,836.0	16,080.6	8,727.0	126.3	229.4	11.99	7,053.3	-215.4	3,178.3	3,039.0	139.38	22.804	
19,300.0	11,836.0	16,180.6	8,727.0	127.8	232.4	11.99	7,153.3	-216.4	3,178.3	3,037.2	141.18	22.513	
19,400.0	11,836.0	16,280.6	8,727.0	129.4	235.5	11.99	7,253.3	-217.4	3,178.3	3,035.4	142.97	22.230	
19,500.0	11,836.0	16,380.6	8,727.0	131.0	238.5	11.99	7,353.3	-218.4	3,178.3	3,033.6	144.77	21.954	
19,600.0	11,836.0	16,480.6	8,727.0	132.5	241.6	11.99	7,453.3	-219.3	3,178.3	3,031.8	146.57	21.685	
19,700.0	11,836.0	16,580.6	8,727.0	134.1	244.6	11.99	7,553.3	-220.3	3,178.3	3,030.0	148.37	21.421	
19,800.0	11,836.0	16,680.6	8,727.0	135.7	247.7	11.99	7,653.3	-221.3	3,178.3	3,028.1	150.17	21.164	
19,900.0	11,836.0	16,780.6	8,727.0	137.2	250.7	11.99	7,753.3	-222.3	3,178.3	3,026.3	151.98	20.913	
20,000.0	11,836.0	16,880.6	8,727.0	138.8	253.8	11.99	7,853.3	-223.3	3,178.3	3,024.5	153.78	20.668	
20,100.0	11,836.0	16,980.6	8,727.0	140.4	256.8	11.99	7,953.3	-224.3	3,178.3	3,022.7	155.58	20.428	
20,200.0	11,836.0	17,080.6	8,727.0	142.0	259.8	11.99	8,053.3	-225.3	3,178.3	3,020.9	157.39	20.194	
20,300.0	11,836.0	17,180.6	8,727.0	143.5	262.9	11.99	8,153.3	-226.3	3,178.3	3,019.1	159.19	19.965	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
20,400.0	11,836.0	17,280.6	8,727.0	145.1	265.9	11.99	8,253.3	-227.3	3,178.3	3,017.3	161.00	19.741	
20,500.0	11,836.0	17,380.6	8,727.0	146.7	269.0	11.99	8,353.3	-228.3	3,178.3	3,015.5	162.81	19.522	
20,600.0	11,836.0	17,480.6	8,727.0	148.3	272.0	11.99	8,453.3	-229.3	3,178.3	3,013.7	164.62	19.307	
20,700.0	11,836.0	17,580.6	8,727.0	149.9	275.1	11.99	8,553.3	-230.3	3,178.3	3,011.9	166.42	19.098	
20,800.0	11,836.0	17,680.6	8,727.0	151.5	278.1	11.99	8,653.3	-231.3	3,178.3	3,010.1	168.23	18.892	
20,900.0	11,836.0	17,780.6	8,727.0	153.0	281.2	11.99	8,753.3	-232.3	3,178.3	3,008.3	170.04	18.691	
21,000.0	11,836.0	17,880.6	8,727.0	154.6	284.3	11.99	8,853.3	-233.3	3,178.3	3,006.4	171.85	18.494	
21,100.0	11,836.0	17,980.6	8,727.0	156.2	287.3	11.99	8,953.3	-234.3	3,178.3	3,004.6	173.66	18.301	
21,200.0	11,836.0	18,080.6	8,727.0	157.8	290.4	11.99	9,053.2	-235.3	3,178.3	3,002.8	175.48	18.112	
21,300.0	11,836.0	18,180.6	8,727.0	159.4	293.4	11.99	9,153.2	-236.2	3,178.3	3,001.0	177.29	17.927	
21,400.0	11,836.0	18,280.6	8,727.0	161.0	296.5	11.99	9,253.2	-237.2	3,178.3	2,999.2	179.10	17.746	
21,500.0	11,836.0	18,380.6	8,727.0	162.6	299.5	11.98	9,353.2	-238.2	3,178.3	2,997.4	180.91	17.568	
21,600.0	11,836.0	18,480.6	8,727.0	164.2	302.6	11.98	9,453.2	-239.2	3,178.3	2,995.5	182.73	17.394	
21,700.0	11,836.0	18,580.6	8,727.0	165.8	305.6	11.98	9,553.2	-240.2	3,178.3	2,993.7	184.54	17.223	
21,800.0	11,836.0	18,680.6	8,727.0	167.4	308.7	11.98	9,653.2	-241.2	3,178.3	2,991.9	186.36	17.055	
21,900.0	11,836.0	18,780.6	8,727.0	169.0	311.7	11.98	9,753.2	-242.2	3,178.3	2,990.1	188.17	16.890	
22,000.0	11,836.0	18,880.6	8,727.0	170.6	314.8	11.98	9,853.2	-243.2	3,178.3	2,988.3	189.99	16.729	
22,100.0	11,836.0	18,980.6	8,727.0	172.2	317.3	11.98	9,953.2	-244.2	3,178.3	2,986.8	191.50	16.597	
22,108.6	11,836.0	18,989.2	8,727.0	172.3	317.5	11.98	9,961.8	-244.3	3,178.3	2,986.6	191.62	16.586	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	0.0	0.0	0.0	0.0	-71.98	29.3	-90.2	94.8				
100.0	100.0	100.0	100.0	0.1	0.1	-71.98	29.3	-90.2	94.8	94.6	0.26	369.952	
200.0	200.0	200.0	200.0	0.5	0.5	-71.98	29.3	-90.2	94.8	93.8	0.97	97.428	
300.0	300.0	300.0	300.0	0.8	0.8	-71.98	29.3	-90.2	94.8	93.1	1.69	56.101	
400.0	400.0	400.0	400.0	1.2	1.2	-71.98	29.3	-90.2	94.8	92.4	2.41	39.392	
500.0	500.0	500.0	500.0	1.6	1.6	-71.98	29.3	-90.2	94.8	91.7	3.12	30.352	
600.0	600.0	600.0	600.0	1.9	1.9	-71.98	29.3	-90.2	94.8	91.0	3.84	24.687	
700.0	700.0	700.0	700.0	2.3	2.3	-71.98	29.3	-90.2	94.8	90.3	4.56	20.803	
800.0	800.0	800.0	800.0	2.6	2.6	-71.98	29.3	-90.2	94.8	89.5	5.27	17.976	CC
900.0	900.0	898.9	898.9	3.0	3.0	-72.36	28.9	-90.9	95.4	89.4	5.98	15.968	ES
1,000.0	1,000.0	997.7	997.7	3.4	3.3	-73.45	27.7	-93.2	97.2	90.5	6.67	14.581	
1,100.0	1,100.0	1,096.4	1,096.3	3.7	3.7	-75.19	25.6	-96.9	100.3	92.9	7.36	13.621	
1,200.0	1,200.0	1,194.9	1,194.6	4.1	4.0	-77.45	22.7	-102.1	104.7	96.6	8.06	12.992	
1,300.0	1,300.0	1,293.2	1,292.6	4.4	4.3	-80.07	19.0	-108.7	110.6	101.9	8.76	12.632	
1,400.0	1,400.0	1,391.2	1,390.2	4.8	4.7	-82.90	14.5	-116.8	118.1	108.7	9.45	12.495	
1,500.0	1,500.0	1,488.9	1,487.2	5.1	5.1	-85.81	9.3	-126.3	127.3	117.2	10.15	12.544	
1,600.0	1,600.0	1,586.2	1,583.8	5.5	5.4	33.38	3.2	-137.3	137.5	126.7	10.83	12.701	
1,700.0	1,700.0	1,683.4	1,679.9	5.8	5.8	31.08	-3.6	-149.6	148.0	136.5	11.49	12.878	
1,800.0	1,799.9	1,780.4	1,775.6	6.2	6.2	29.11	-11.3	-163.3	158.7	146.5	12.16	13.051	
1,900.0	1,899.7	1,879.2	1,873.0	6.5	6.6	27.48	-19.6	-178.3	169.0	156.2	12.85	13.155	
2,000.0	1,999.4	1,978.8	1,971.0	6.9	7.0	26.27	-28.0	-193.4	178.0	164.4	13.55	13.131	
2,100.0	2,098.9	2,078.5	2,069.2	7.2	7.4	25.41	-36.4	-208.6	185.4	171.1	14.26	12.998	
2,200.0	2,198.3	2,178.3	2,167.5	7.6	7.8	24.84	-44.8	-223.7	191.3	176.3	14.98	12.769	
2,300.0	2,297.4	2,278.2	2,265.8	7.9	8.3	24.52	-53.2	-238.9	195.6	179.9	15.70	12.456	
2,400.0	2,396.4	2,378.1	2,364.3	8.3	8.7	24.33	-61.6	-254.1	199.1	182.7	16.43	12.118	
2,500.0	2,495.5	2,478.0	2,462.7	8.7	9.1	24.15	-70.0	-269.2	202.6	185.5	17.16	11.807	
2,600.0	2,594.5	2,578.0	2,561.1	9.1	9.6	23.98	-78.5	-284.4	206.1	188.2	17.90	11.519	
2,700.0	2,693.5	2,677.9	2,659.5	9.4	10.0	23.81	-86.9	-299.6	209.7	191.0	18.63	11.252	
2,800.0	2,792.5	2,777.9	2,757.9	9.8	10.4	23.65	-95.3	-314.8	213.2	193.8	19.37	11.004	
2,900.0	2,891.6	2,877.8	2,856.3	10.2	10.9	23.49	-103.7	-329.9	216.7	196.6	20.12	10.774	
3,000.0	2,990.6	2,977.7	2,954.8	10.6	11.3	23.34	-112.1	-345.1	220.3	199.4	20.86	10.559	
3,100.0	3,089.6	3,077.7	3,053.2	11.0	11.8	23.20	-120.6	-360.3	223.8	202.2	21.60	10.359	
3,200.0	3,188.6	3,177.6	3,151.6	11.4	12.2	23.05	-129.0	-375.5	227.3	205.0	22.35	10.171	
3,300.0	3,287.7	3,277.5	3,250.0	11.8	12.6	22.92	-137.4	-390.6	230.9	207.8	23.10	9.994	
3,400.0	3,386.7	3,377.5	3,348.4	12.2	13.1	22.78	-145.8	-405.8	234.4	210.5	23.85	9.829	
3,500.0	3,485.7	3,477.4	3,446.9	12.6	13.5	22.65	-154.2	-421.0	237.9	213.3	24.60	9.673	
3,600.0	3,584.8	3,577.3	3,545.3	13.0	14.0	22.53	-162.7	-436.2	241.5	216.1	25.35	9.526	
3,700.0	3,683.8	3,677.3	3,643.7	13.4	14.4	22.41	-171.1	-451.3	245.0	218.9	26.10	9.388	
3,800.0	3,782.8	3,777.2	3,742.1	13.8	14.9	22.29	-179.5	-466.5	248.5	221.7	26.85	9.257	
3,900.0	3,881.8	3,877.1	3,840.5	14.2	15.3	22.17	-187.9	-481.7	252.1	224.5	27.60	9.132	
4,000.0	3,980.9	3,977.1	3,938.9	14.6	15.8	22.06	-196.3	-496.9	255.6	227.3	28.36	9.015	
4,100.0	4,079.9	4,077.0	4,037.4	15.0	16.2	21.95	-204.8	-512.0	259.2	230.1	29.11	8.903	
4,200.0	4,178.9	4,177.0	4,135.8	15.5	16.7	21.84	-213.2	-527.2	262.7	232.8	29.86	8.797	
4,300.0	4,277.9	4,276.9	4,234.2	15.9	17.1	21.74	-221.6	-542.4	266.3	235.6	30.62	8.696	
4,400.0	4,377.0	4,376.8	4,332.6	16.3	17.6	21.64	-230.0	-557.5	269.8	238.4	31.37	8.600	
4,500.0	4,476.0	4,476.8	4,431.0	16.7	18.0	21.54	-238.4	-572.7	273.3	241.2	32.13	8.508	
4,600.0	4,575.0	4,576.7	4,529.4	17.1	18.5	21.45	-246.9	-587.9	276.9	244.0	32.88	8.420	
4,700.0	4,674.0	4,676.6	4,627.9	17.5	18.9	21.35	-255.3	-603.1	280.4	246.8	33.64	8.337	
4,800.0	4,773.1	4,776.6	4,726.3	17.9	19.4	21.26	-263.7	-618.2	284.0	249.6	34.40	8.257	
4,900.0	4,872.1	4,876.5	4,824.7	18.3	19.8	21.18	-272.1	-633.4	287.5	252.4	35.15	8.180	
5,000.0	4,971.1	4,976.4	4,923.1	18.8	20.3	21.09	-280.5	-648.6	291.1	255.2	35.91	8.106	
5,100.0	5,070.2	5,076.4	5,021.5	19.2	20.7	21.00	-289.0	-663.8	294.6	258.0	36.66	8.036	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	5,176.3	5,120.0	19.6	21.2	20.92	-297.4	-678.9	298.2	260.8	37.42	7.968	
5,300.0	5,268.2	5,276.3	5,218.4	20.0	21.6	20.84	-305.8	-694.1	301.7	263.6	38.18	7.903	
5,400.0	5,367.2	5,376.2	5,316.8	20.4	22.1	20.76	-314.2	-709.3	305.3	266.4	38.94	7.841	
5,500.0	5,466.3	5,476.1	5,415.2	20.8	22.5	20.69	-322.6	-724.5	308.8	269.2	39.69	7.781	
5,600.0	5,565.3	5,576.1	5,513.6	21.3	23.0	20.61	-331.1	-739.6	312.4	271.9	40.45	7.723	
5,700.0	5,664.3	5,676.0	5,612.0	21.7	23.4	20.54	-339.5	-754.8	316.0	274.7	41.21	7.667	
5,800.0	5,763.3	5,775.9	5,710.5	22.1	23.9	20.47	-347.9	-770.0	319.5	277.5	41.97	7.613	
5,900.0	5,862.4	5,875.9	5,808.9	22.5	24.3	20.40	-356.3	-785.2	323.1	280.3	42.72	7.562	
6,000.0	5,961.4	5,975.8	5,907.3	22.9	24.8	20.33	-364.7	-800.3	326.6	283.1	43.48	7.512	
6,100.0	6,060.4	6,075.7	6,005.7	23.3	25.2	20.26	-373.2	-815.5	330.2	285.9	44.24	7.463	
6,200.0	6,159.4	6,175.7	6,104.1	23.8	25.7	20.20	-381.6	-830.7	333.7	288.7	45.00	7.417	
6,300.0	6,258.5	6,275.6	6,202.6	24.2	26.2	20.13	-390.0	-845.9	337.3	291.5	45.76	7.371	
6,400.0	6,357.5	6,375.6	6,301.0	24.6	26.6	20.07	-398.4	-861.0	340.8	294.3	46.51	7.328	
6,500.0	6,456.5	6,475.5	6,399.4	25.0	27.1	20.01	-406.8	-876.2	344.4	297.1	47.27	7.286	
6,600.0	6,555.6	6,575.4	6,497.8	25.4	27.5	19.95	-415.2	-891.4	348.0	299.9	48.03	7.245	
6,700.0	6,654.6	6,675.4	6,596.2	25.9	28.0	19.89	-423.7	-906.6	351.5	302.7	48.79	7.205	
6,800.0	6,753.6	6,775.3	6,694.6	26.3	28.4	19.83	-432.1	-921.7	355.1	305.5	49.55	7.166	
6,900.0	6,852.6	6,875.2	6,793.1	26.7	28.9	19.77	-440.5	-936.9	358.6	308.3	50.31	7.129	
7,000.0	6,951.7	6,975.2	6,891.5	27.1	29.3	19.72	-448.9	-952.1	362.2	311.1	51.06	7.093	
7,100.0	7,050.7	7,075.1	6,989.9	27.5	29.8	19.66	-457.3	-967.3	365.8	313.9	51.82	7.058	
7,200.0	7,149.7	7,175.0	7,088.3	28.0	30.2	19.61	-465.8	-982.4	369.3	316.7	52.58	7.024	
7,300.0	7,248.7	7,279.1	7,190.8	28.4	30.7	19.57	-474.4	-998.0	372.7	319.3	53.38	6.981	
7,400.0	7,347.8	7,389.4	7,299.9	28.8	31.2	19.64	-482.3	-1,012.3	373.7	319.5	54.21	6.894	
7,500.0	7,446.8	7,499.7	7,409.4	29.2	31.6	19.85	-488.7	-1,023.8	372.0	317.0	55.01	6.763	
7,600.0	7,545.8	7,609.7	7,519.0	29.6	32.0	20.21	-493.6	-1,032.5	367.6	311.8	55.77	6.592	
7,700.0	7,644.9	7,719.4	7,628.5	30.1	32.4	20.72	-496.9	-1,038.5	360.5	304.0	56.49	6.381	
7,800.0	7,743.9	7,828.5	7,737.5	30.5	32.8	21.43	-498.6	-1,041.7	350.6	293.4	57.18	6.132	
7,900.0	7,842.9	7,933.9	7,842.9	30.9	33.1	22.30	-499.0	-1,042.3	338.3	280.4	57.87	5.846	
8,000.0	7,941.9	8,033.0	7,941.9	31.3	33.4	23.23	-499.0	-1,042.3	325.4	266.8	58.64	5.550	
8,100.0	8,041.0	8,132.0	8,041.0	31.7	33.7	24.24	-499.0	-1,042.3	312.7	253.3	59.42	5.262	
8,200.0	8,140.0	8,231.0	8,140.0	32.2	33.9	25.33	-499.0	-1,042.3	300.0	239.8	60.22	4.982	
8,300.0	8,239.0	8,330.0	8,239.0	32.6	34.2	26.51	-499.0	-1,042.3	287.5	226.5	61.03	4.711	
8,400.0	8,338.0	8,429.1	8,338.0	33.0	34.5	27.80	-499.0	-1,042.3	275.1	213.2	61.86	4.447	
8,415.6	8,353.5	8,444.5	8,353.5	33.1	34.6	28.01	-499.0	-1,042.3	273.2	211.2	61.99	4.407	
8,500.0	8,437.2	8,528.2	8,437.2	33.4	34.8	29.05	-499.0	-1,042.3	263.6	200.9	62.69	4.205	
8,600.0	8,536.6	8,627.7	8,536.6	33.8	35.1	30.11	-499.0	-1,042.3	254.5	191.0	63.50	4.009	
8,700.0	8,636.3	8,727.4	8,636.3	34.2	35.4	30.97	-499.0	-1,042.3	247.8	183.5	64.28	3.855	
8,800.0	8,736.2	8,827.2	8,736.2	34.6	35.7	31.56	-499.0	-1,042.3	243.4	178.3	65.03	3.742	
8,900.0	8,836.2	8,927.2	8,836.2	34.9	36.0	31.87	-499.0	-1,042.3	241.2	175.4	65.73	3.669	
8,948.2	8,884.3	8,975.3	8,884.3	35.0	36.1	31.94	-498.9	-1,042.3	240.9	174.8	66.05	3.647	
8,948.9	8,885.1	8,976.0	8,885.0	35.0	36.1	-89.97	-498.8	-1,042.3	240.9	174.8	66.06	3.647	
9,000.0	8,936.2	9,026.7	8,935.6	35.2	36.3	-89.16	-495.5	-1,042.3	240.9	174.5	66.47	3.625	
9,100.0	9,036.2	9,122.5	9,029.4	35.5	36.5	-84.78	-477.0	-1,042.5	242.1	174.5	67.65	3.579 SF	
9,200.0	9,136.2	9,209.9	9,111.3	35.8	36.6	-77.75	-446.6	-1,042.7	248.1	179.1	69.01	3.595	
9,300.0	9,236.2	9,286.7	9,178.7	36.1	36.7	-69.77	-410.0	-1,042.9	263.7	194.2	69.56	3.791	
9,400.0	9,336.2	9,352.3	9,232.0	36.4	36.8	-62.25	-371.8	-1,043.2	292.4	224.0	68.37	4.276	
9,500.0	9,436.2	9,407.8	9,273.4	36.7	36.8	-55.86	-334.9	-1,043.4	334.7	269.2	65.50	5.110	
9,600.0	9,536.2	9,450.0	9,302.4	37.0	36.8	-51.20	-304.2	-1,043.7	388.9	327.5	61.37	6.338	
9,700.0	9,636.2	9,500.0	9,333.8	37.4	36.8	-46.06	-265.3	-1,043.9	452.7	394.4	58.21	7.776	
9,800.0	9,736.2	9,526.8	9,349.1	37.7	36.8	-43.50	-243.3	-1,044.1	523.5	469.5	54.02	9.691	
9,900.0	9,836.2	9,550.0	9,361.6	38.0	36.8	-41.42	-223.7	-1,044.2	600.0	549.6	50.41	11.902	
10,000.0	9,936.2	9,579.3	9,376.2	38.3	36.7	-38.94	-198.3	-1,044.4	680.5	632.6	47.89	14.208	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	10,036.2	9,600.0	9,385.6	38.6	36.7	-37.31	-179.9	-1,044.5	764.2	718.8	45.46	16.812	
10,200.0	10,136.2	9,618.6	9,393.6	38.9	36.7	-35.91	-163.1	-1,044.6	850.5	807.1	43.43	19.584	
10,300.0	10,236.2	9,634.6	9,400.0	39.2	36.7	-34.77	-148.5	-1,044.7	938.7	897.0	41.70	22.510	
10,400.0	10,336.2	9,650.0	9,405.8	39.5	36.7	-33.72	-134.2	-1,044.8	1,028.5	988.2	40.30	25.523	
10,500.0	10,436.2	9,650.0	9,405.8	39.9	36.7	-33.72	-134.2	-1,044.8	1,119.8	1,081.2	38.62	28.992	
10,600.0	10,536.2	9,672.5	9,413.6	40.2	36.7	-32.26	-113.0	-1,045.0	1,211.8	1,173.8	38.00	31.891	
10,700.0	10,636.2	9,682.6	9,416.8	40.5	36.7	-31.64	-103.5	-1,045.1	1,304.9	1,267.7	37.14	35.135	
10,800.0	10,736.2	9,700.0	9,421.9	40.8	36.6	-30.60	-86.9	-1,045.2	1,398.7	1,362.1	36.65	38.166	
10,900.0	10,836.2	9,700.0	9,421.9	41.1	36.6	-30.60	-86.9	-1,045.2	1,493.1	1,457.3	35.82	41.679	
11,000.0	10,936.2	9,700.0	9,421.9	41.5	36.6	-30.60	-86.9	-1,045.2	1,588.1	1,553.0	35.16	45.174	
11,100.0	11,036.2	9,700.0	9,421.9	41.8	36.6	-30.60	-86.9	-1,045.2	1,683.7	1,649.1	34.62	48.636	
11,200.0	11,136.2	9,720.6	9,427.4	42.1	36.6	-29.45	-67.0	-1,045.3	1,779.4	1,744.8	34.60	51.420	
11,300.0	11,236.2	9,726.4	9,428.7	42.4	36.6	-29.14	-61.4	-1,045.4	1,875.6	1,841.2	34.35	54.603	
11,326.8	11,263.0	9,727.9	9,429.1	42.5	36.6	-29.06	-59.9	-1,045.4	1,901.4	1,867.2	34.29	55.451	
11,350.0	11,286.1	9,729.2	9,429.4	42.6	36.6	-24.86	-58.6	-1,045.4	1,923.7	1,889.4	34.24	56.185	
11,400.0	11,336.0	9,750.0	9,433.8	42.7	36.6	-18.97	-38.3	-1,045.5	1,971.2	1,936.8	34.40	57.293	
11,450.0	11,385.2	9,750.0	9,433.8	42.9	36.6	-15.64	-38.3	-1,045.5	2,016.8	1,982.7	34.15	59.051	
11,500.0	11,433.5	9,750.0	9,433.8	43.0	36.6	-13.31	-38.3	-1,045.5	2,060.9	2,027.0	33.88	60.835	
11,550.0	11,480.6	9,750.0	9,433.8	43.1	36.6	-11.61	-38.3	-1,045.5	2,103.1	2,069.5	33.58	62.625	
11,600.0	11,525.9	9,750.0	9,433.8	43.2	36.6	-10.32	-38.3	-1,045.5	2,143.2	2,110.0	33.28	64.402	
11,650.0	11,569.3	9,750.0	9,433.8	43.3	36.6	-9.33	-38.3	-1,045.5	2,181.2	2,148.2	32.98	66.142	
11,700.0	11,610.3	9,750.0	9,433.8	43.3	36.6	-8.54	-38.3	-1,045.5	2,216.8	2,184.1	32.69	67.818	
11,750.0	11,648.7	9,775.9	9,438.4	43.4	36.6	-7.84	-12.8	-1,045.7	2,249.0	2,216.3	32.71	68.758	
11,800.0	11,684.2	9,800.0	9,441.5	43.4	36.5	-7.29	11.1	-1,045.9	2,279.1	2,246.4	32.70	69.705	
11,850.0	11,716.4	9,800.0	9,441.5	43.4	36.5	-6.90	11.1	-1,045.9	2,305.8	2,273.3	32.43	71.089	
11,900.0	11,745.2	9,800.0	9,441.5	43.4	36.5	-6.59	11.1	-1,045.9	2,329.5	2,297.3	32.22	72.301	
11,950.0	11,770.4	9,800.0	9,441.5	43.4	36.5	-6.33	11.1	-1,045.9	2,350.2	2,318.1	32.06	73.308	
12,000.0	11,791.6	9,819.4	9,443.3	43.4	36.5	-6.11	30.4	-1,046.0	2,367.3	2,335.3	32.08	73.791	
12,050.0	11,808.9	9,828.8	9,443.9	43.4	36.5	-5.95	39.7	-1,046.1	2,381.3	2,349.2	32.08	74.237	
12,100.0	11,822.0	9,850.0	9,444.8	43.3	36.5	-5.83	60.9	-1,046.2	2,391.9	2,359.8	32.17	74.345	
12,150.0	11,830.8	9,850.0	9,444.8	43.3	36.5	-5.76	60.9	-1,046.2	2,398.9	2,366.6	32.23	74.425	
12,200.0	11,835.3	9,857.5	9,444.9	43.3	36.5	-5.72	68.4	-1,046.3	2,402.5	2,370.1	32.39	74.182	
12,226.8	11,836.0	9,863.0	9,445.0	43.3	36.5	-5.71	74.0	-1,046.3	2,402.9	2,370.4	32.50	73.946	
12,256.8	11,836.0	9,909.4	9,445.0	43.2	36.4	-5.71	101.5	-1,046.6	2,402.9	2,370.2	32.73	73.423	
12,299.9	11,836.0	9,933.7	9,445.0	43.2	36.4	-5.71	144.6	-1,047.0	2,402.9	2,370.0	32.91	73.010	
12,400.0	11,836.0	10,033.8	9,445.0	43.2	36.4	-5.71	244.7	-1,048.0	2,402.9	2,369.4	33.54	71.644	
12,500.0	11,836.0	10,133.8	9,445.0	43.3	36.5	-5.71	344.7	-1,049.0	2,402.9	2,368.7	34.23	70.200	
12,600.0	11,836.0	10,233.8	9,445.0	43.6	36.7	-5.71	444.7	-1,050.0	2,402.9	2,368.0	34.98	68.696	
12,700.0	11,836.0	10,333.8	9,445.0	44.0	37.1	-5.71	544.7	-1,051.0	2,402.9	2,367.2	35.78	67.151	
12,800.0	11,836.0	10,433.8	9,445.0	44.5	37.5	-5.71	644.7	-1,051.9	2,402.9	2,366.3	36.64	65.582	
12,900.0	11,836.0	10,533.8	9,445.0	45.0	38.1	-5.71	744.7	-1,052.9	2,402.9	2,365.4	37.54	64.003	
13,000.0	11,836.0	10,633.8	9,445.0	45.6	38.7	-5.71	844.7	-1,053.9	2,402.9	2,364.4	38.49	62.426	
13,100.0	11,836.0	10,733.8	9,445.0	46.2	39.4	-5.71	944.7	-1,054.9	2,402.9	2,363.5	39.48	60.862	
13,200.0	11,836.0	10,833.8	9,445.0	46.9	40.2	-5.71	1,044.7	-1,055.9	2,402.9	2,362.4	40.51	59.319	
13,300.0	11,836.0	10,933.8	9,445.0	47.6	41.0	-5.71	1,144.7	-1,056.9	2,402.9	2,361.4	41.57	57.802	
13,400.0	11,836.0	11,033.8	9,445.0	48.4	41.9	-5.71	1,244.7	-1,057.9	2,402.9	2,360.3	42.67	56.319	
13,500.0	11,836.0	11,133.8	9,445.0	49.2	42.8	-5.71	1,344.7	-1,058.9	2,402.9	2,359.2	43.79	54.872	
13,600.0	11,836.0	11,233.8	9,445.0	50.1	43.8	-5.72	1,444.7	-1,059.9	2,402.9	2,358.0	44.95	53.464	
13,700.0	11,836.0	11,333.8	9,445.0	51.0	44.8	-5.72	1,544.7	-1,060.9	2,402.9	2,356.8	46.12	52.097	
13,800.0	11,836.0	11,433.8	9,445.0	51.9	45.8	-5.72	1,644.7	-1,061.9	2,402.9	2,355.6	47.33	50.773	
13,900.0	11,836.0	11,533.8	9,445.0	52.9	46.9	-5.72	1,744.7	-1,062.9	2,402.9	2,354.4	48.55	49.492	
14,000.0	11,836.0	11,633.8	9,445.0	53.9	48.0	-5.72	1,844.7	-1,063.9	2,402.9	2,353.2	49.80	48.254	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	11,836.0	11,733.8	9,445.0	54.9	49.1	-5.72	1,944.6	-1,064.8	2,402.9	2,351.9	51.06	47.059	
14,200.0	11,836.0	11,833.8	9,445.0	55.9	50.3	-5.72	2,044.6	-1,065.8	2,403.0	2,350.6	52.34	45.906	
14,300.0	11,836.0	11,933.8	9,445.0	57.0	51.5	-5.72	2,144.6	-1,066.8	2,403.0	2,349.3	53.64	44.795	
14,400.0	11,836.0	12,033.8	9,445.0	58.1	52.7	-5.72	2,244.6	-1,067.8	2,403.0	2,348.0	54.96	43.724	
14,500.0	11,836.0	12,133.8	9,445.0	59.3	53.9	-5.72	2,344.6	-1,068.8	2,403.0	2,346.7	56.29	42.692	
14,600.0	11,836.0	12,233.8	9,445.0	60.4	55.2	-5.72	2,444.6	-1,069.8	2,403.0	2,345.3	57.63	41.698	
14,700.0	11,836.0	12,333.8	9,445.0	61.6	56.5	-5.72	2,544.6	-1,070.8	2,403.0	2,344.0	58.98	40.741	
14,800.0	11,836.0	12,433.8	9,445.0	62.8	57.7	-5.72	2,644.6	-1,071.8	2,403.0	2,342.6	60.35	39.819	
14,900.0	11,836.0	12,533.8	9,445.0	64.0	59.1	-5.72	2,744.6	-1,072.8	2,403.0	2,341.2	61.72	38.931	
15,000.0	11,836.0	12,633.8	9,445.0	65.3	60.4	-5.72	2,844.6	-1,073.8	2,403.0	2,339.8	63.11	38.075	
15,100.0	11,836.0	12,733.8	9,445.0	66.5	61.7	-5.72	2,944.6	-1,074.8	2,403.0	2,338.5	64.51	37.251	
15,200.0	11,836.0	12,833.8	9,445.0	67.8	63.1	-5.72	3,044.6	-1,075.8	2,403.0	2,337.0	65.91	36.457	
15,300.0	11,836.0	12,933.8	9,445.0	69.1	64.5	-5.72	3,144.6	-1,076.8	2,403.0	2,335.6	67.33	35.692	
15,400.0	11,836.0	13,033.8	9,445.0	70.4	65.8	-5.72	3,244.6	-1,077.7	2,403.0	2,334.2	68.75	34.954	
15,500.0	11,836.0	13,133.8	9,445.0	71.7	67.2	-5.72	3,344.6	-1,078.7	2,403.0	2,332.8	70.18	34.242	
15,600.0	11,836.0	13,233.8	9,445.0	73.1	68.6	-5.72	3,444.6	-1,079.7	2,403.0	2,331.4	71.61	33.556	
15,700.0	11,836.0	13,333.8	9,445.0	74.4	70.1	-5.72	3,544.6	-1,080.7	2,403.0	2,329.9	73.05	32.893	
15,800.0	11,836.0	13,433.8	9,445.0	75.8	71.5	-5.72	3,644.6	-1,081.7	2,403.0	2,328.5	74.50	32.254	
15,900.0	11,836.0	13,533.8	9,445.0	77.2	72.9	-5.72	3,744.6	-1,082.7	2,403.0	2,327.0	75.96	31.636	
16,000.0	11,836.0	13,633.8	9,445.0	78.5	74.4	-5.72	3,844.6	-1,083.7	2,403.0	2,325.6	77.42	31.040	
16,100.0	11,836.0	13,733.8	9,445.0	79.9	75.8	-5.72	3,944.5	-1,084.7	2,403.0	2,324.1	78.88	30.463	
16,200.0	11,836.0	13,833.8	9,445.0	81.3	77.3	-5.72	4,044.5	-1,085.7	2,403.0	2,322.6	80.35	29.906	
16,300.0	11,836.0	13,933.8	9,445.0	82.7	78.8	-5.72	4,144.5	-1,086.7	2,403.0	2,321.1	81.83	29.367	
16,400.0	11,836.0	14,033.8	9,445.0	84.2	80.2	-5.72	4,244.5	-1,087.7	2,403.0	2,319.7	83.30	28.846	
16,500.0	11,836.0	14,133.8	9,445.0	85.6	81.7	-5.72	4,344.5	-1,088.7	2,403.0	2,318.2	84.79	28.341	
16,600.0	11,836.0	14,233.8	9,445.0	87.0	83.2	-5.72	4,444.5	-1,089.6	2,403.0	2,316.7	86.28	27.852	
16,700.0	11,836.0	14,333.8	9,445.0	88.5	84.7	-5.72	4,544.5	-1,090.6	2,403.0	2,315.2	87.77	27.379	
16,800.0	11,836.0	14,433.8	9,445.0	89.9	86.2	-5.72	4,644.5	-1,091.6	2,403.0	2,313.7	89.26	26.921	
16,900.0	11,836.0	14,533.8	9,445.0	91.4	87.7	-5.72	4,744.5	-1,092.6	2,403.0	2,312.2	90.76	26.477	
17,000.0	11,836.0	14,633.8	9,445.0	92.8	89.2	-5.72	4,844.5	-1,093.6	2,403.0	2,310.7	92.26	26.046	
17,100.0	11,836.0	14,733.8	9,445.0	94.3	90.7	-5.72	4,944.5	-1,094.6	2,403.0	2,309.2	93.76	25.628	
17,200.0	11,836.0	14,833.8	9,445.0	95.8	92.2	-5.72	5,044.5	-1,095.6	2,403.0	2,307.7	95.27	25.222	
17,300.0	11,836.0	14,933.8	9,445.0	97.3	93.8	-5.72	5,144.5	-1,096.6	2,403.0	2,306.2	96.78	24.829	
17,400.0	11,836.0	15,033.8	9,445.0	98.8	95.3	-5.72	5,244.5	-1,097.6	2,403.0	2,304.7	98.29	24.447	
17,500.0	11,836.0	15,133.8	9,445.0	100.3	96.8	-5.72	5,344.5	-1,098.6	2,403.0	2,303.2	99.81	24.076	
17,600.0	11,836.0	15,233.8	9,445.0	101.8	98.4	-5.72	5,444.5	-1,099.6	2,403.0	2,301.7	101.33	23.715	
17,700.0	11,836.0	15,333.8	9,445.0	103.3	99.9	-5.72	5,544.5	-1,100.6	2,403.0	2,300.1	102.85	23.364	
17,800.0	11,836.0	15,433.8	9,445.0	104.8	101.5	-5.73	5,644.5	-1,101.6	2,403.0	2,298.6	104.37	23.024	
17,900.0	11,836.0	15,533.8	9,445.0	106.3	103.0	-5.73	5,744.5	-1,102.5	2,403.0	2,297.1	105.90	22.692	
18,000.0	11,836.0	15,633.8	9,445.0	107.8	104.6	-5.73	5,844.5	-1,103.5	2,403.0	2,295.6	107.42	22.370	
18,100.0	11,836.0	15,733.8	9,445.0	109.3	106.1	-5.73	5,944.5	-1,104.5	2,403.0	2,294.0	108.95	22.056	
18,200.0	11,836.0	15,833.8	9,445.0	110.8	107.7	-5.73	6,044.4	-1,105.5	2,403.0	2,292.5	110.48	21.750	
18,300.0	11,836.0	15,933.8	9,445.0	112.4	109.2	-5.73	6,144.4	-1,106.5	2,403.0	2,291.0	112.01	21.453	
18,400.0	11,836.0	16,033.8	9,445.0	113.9	110.8	-5.73	6,244.4	-1,107.5	2,403.0	2,289.4	113.55	21.163	
18,500.0	11,836.0	16,133.8	9,445.0	115.4	112.3	-5.73	6,344.4	-1,108.5	2,403.0	2,287.9	115.08	20.880	
18,600.0	11,836.0	16,233.8	9,445.0	117.0	113.9	-5.73	6,444.4	-1,109.5	2,403.0	2,286.4	116.62	20.605	
18,700.0	11,836.0	16,333.8	9,445.0	118.5	115.5	-5.73	6,544.4	-1,110.5	2,403.0	2,284.8	118.16	20.337	
18,800.0	11,836.0	16,433.8	9,445.0	120.1	117.1	-5.73	6,644.4	-1,111.5	2,403.0	2,283.3	119.70	20.075	
18,900.0	11,836.0	16,533.8	9,445.0	121.6	118.6	-5.73	6,744.4	-1,112.5	2,403.0	2,281.8	121.24	19.820	
19,000.0	11,836.0	16,633.8	9,445.0	123.2	120.2	-5.73	6,844.4	-1,113.5	2,403.0	2,280.2	122.79	19.571	
19,100.0	11,836.0	16,733.8	9,445.0	124.7	121.8	-5.73	6,944.4	-1,114.5	2,403.0	2,278.7	124.33	19.328	
19,200.0	11,836.0	16,833.8	9,445.0	126.3	123.4	-5.73	7,044.4	-1,115.4	2,403.0	2,277.1	125.88	19.090	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	11,836.0	16,933.8	9,445.0	127.8	124.9	-5.73	7,144.4	-1,116.4	2,403.0	2,275.6	127.42	18.858	
19,400.0	11,836.0	17,033.8	9,445.0	129.4	126.5	-5.73	7,244.4	-1,117.4	2,403.0	2,274.0	128.97	18.632	
19,500.0	11,836.0	17,133.8	9,445.0	131.0	128.1	-5.73	7,344.4	-1,118.4	2,403.0	2,272.5	130.52	18.411	
19,600.0	11,836.0	17,233.8	9,445.0	132.5	129.7	-5.73	7,444.4	-1,119.4	2,403.0	2,270.9	132.07	18.195	
19,700.0	11,836.0	17,333.8	9,445.0	134.1	131.3	-5.73	7,544.4	-1,120.4	2,403.0	2,269.4	133.62	17.983	
19,800.0	11,836.0	17,433.8	9,445.0	135.7	132.9	-5.73	7,644.4	-1,121.4	2,403.0	2,267.8	135.18	17.777	
19,900.0	11,836.0	17,533.8	9,445.0	137.2	134.5	-5.73	7,744.4	-1,122.4	2,403.0	2,266.3	136.73	17.575	
20,000.0	11,836.0	17,633.8	9,445.0	138.8	136.1	-5.73	7,844.4	-1,123.4	2,403.0	2,264.7	138.28	17.377	
20,100.0	11,836.0	17,733.8	9,445.0	140.4	137.7	-5.73	7,944.4	-1,124.4	2,403.0	2,263.2	139.84	17.184	
20,200.0	11,836.0	17,833.8	9,445.0	142.0	139.2	-5.73	8,044.3	-1,125.4	2,403.0	2,261.6	141.40	16.995	
20,300.0	11,836.0	17,933.8	9,445.0	143.5	140.8	-5.73	8,144.3	-1,126.4	2,403.0	2,260.1	142.95	16.810	
20,400.0	11,836.0	18,033.8	9,445.0	145.1	142.4	-5.73	8,244.3	-1,127.3	2,403.0	2,258.5	144.51	16.628	
20,500.0	11,836.0	18,133.8	9,445.0	146.7	144.0	-5.73	8,344.3	-1,128.3	2,403.0	2,256.9	146.07	16.451	
20,600.0	11,836.0	18,233.8	9,445.0	148.3	145.6	-5.73	8,444.3	-1,129.3	2,403.0	2,255.4	147.63	16.277	
20,700.0	11,836.0	18,333.8	9,445.0	149.9	147.2	-5.73	8,544.3	-1,130.3	2,403.0	2,253.8	149.19	16.107	
20,800.0	11,836.0	18,433.8	9,445.0	151.5	148.8	-5.73	8,644.3	-1,131.3	2,403.0	2,252.3	150.75	15.940	
20,900.0	11,836.0	18,533.8	9,445.0	153.0	150.4	-5.73	8,744.3	-1,132.3	2,403.0	2,250.7	152.31	15.777	
21,000.0	11,836.0	18,633.8	9,445.0	154.6	152.1	-5.73	8,844.3	-1,133.3	2,403.0	2,249.1	153.88	15.616	
21,100.0	11,836.0	18,733.8	9,445.0	156.2	153.7	-5.73	8,944.3	-1,134.3	2,403.0	2,247.6	155.44	15.459	
21,200.0	11,836.0	18,833.8	9,445.0	157.8	155.3	-5.73	9,044.3	-1,135.3	2,403.0	2,246.0	157.01	15.305	
21,300.0	11,836.0	18,933.8	9,445.0	159.4	156.9	-5.73	9,144.3	-1,136.3	2,403.0	2,244.5	158.57	15.154	
21,400.0	11,836.0	19,033.8	9,445.0	161.0	158.5	-5.73	9,244.3	-1,137.3	2,403.0	2,242.9	160.14	15.006	
21,500.0	11,836.0	19,133.8	9,445.0	162.6	160.1	-5.73	9,344.3	-1,138.3	2,403.0	2,241.3	161.70	14.861	
21,600.0	11,836.0	19,233.8	9,445.0	164.2	161.7	-5.73	9,444.3	-1,139.3	2,403.0	2,239.8	163.27	14.718	
21,700.0	11,836.0	19,333.8	9,445.0	165.8	163.3	-5.73	9,544.3	-1,140.2	2,403.0	2,238.2	164.83	14.578	
21,800.0	11,836.0	19,433.8	9,445.0	167.4	164.9	-5.73	9,644.3	-1,141.2	2,403.0	2,236.6	166.40	14.441	
21,900.0	11,836.0	19,533.8	9,445.0	169.0	166.5	-5.73	9,744.3	-1,142.2	2,403.0	2,235.1	167.97	14.306	
22,000.0	11,836.0	19,633.8	9,445.0	170.6	168.1	-5.74	9,844.3	-1,143.2	2,403.0	2,233.5	169.54	14.174	
22,100.0	11,836.0	19,733.8	9,445.0	172.2	169.8	-5.74	9,944.2	-1,144.2	2,403.0	2,231.9	171.11	14.044	
22,108.6	11,836.0	19,742.4	9,445.0	172.3	169.9	-5.74	9,952.9	-1,144.3	2,403.0	2,231.8	171.24	14.033	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	0.0	0.0	0.0	0.0	-0.33	30.1	-0.2	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	-0.33	30.1	-0.2	30.1	29.8	0.26	117.244	
200.0	200.0	200.0	200.0	0.5	0.5	-0.33	30.1	-0.2	30.1	29.1	0.97	30.876	
300.0	300.0	300.0	300.0	0.8	0.8	-0.33	30.1	-0.2	30.1	28.4	1.69	17.779	
400.0	400.0	400.0	400.0	1.2	1.2	-0.33	30.1	-0.2	30.1	27.6	2.41	12.484	
500.0	500.0	500.0	500.0	1.6	1.6	-0.33	30.1	-0.2	30.1	26.9	3.12	9.619	
600.0	600.0	600.0	600.0	1.9	1.9	-0.33	30.1	-0.2	30.1	26.2	3.84	7.824	
700.0	700.0	700.0	700.0	2.3	2.3	-0.33	30.1	-0.2	30.1	25.5	4.56	6.593	
800.0	800.0	800.0	800.0	2.6	2.6	-0.33	30.1	-0.2	30.1	24.8	5.27	5.697	
900.0	900.0	900.0	900.0	3.0	3.0	-0.33	30.1	-0.2	30.1	24.1	5.99	5.015	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-0.33	30.1	-0.2	30.1	23.3	6.71	4.479	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-0.33	30.1	-0.2	30.1	22.6	7.43	4.047	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-0.33	30.1	-0.2	30.1	21.9	8.14	3.690	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-0.33	30.1	-0.2	30.1	21.2	8.86	3.392	
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-0.33	30.1	-0.2	30.1	20.5	9.58	3.138	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	-0.33	30.1	-0.2	30.1	19.8	10.29	2.919	
1,600.0	1,600.0	1,600.5	1,600.5	5.5	5.5	122.65	29.2	-0.4	29.7	18.7	10.98	2.701	
1,700.0	1,700.0	1,701.0	1,700.9	5.8	5.8	126.03	26.6	-0.9	28.5	16.9	11.64	2.453	
1,800.0	1,799.9	1,801.4	1,801.3	6.2	6.1	132.24	22.3	-1.9	26.9	14.6	12.30	2.189	
1,900.0	1,899.7	1,901.8	1,901.4	6.5	6.5	142.08	16.3	-3.2	25.3	12.3	12.96	1.949	
2,000.0	1,999.4	2,002.0	2,001.3	6.9	6.8	156.08	8.6	-4.9	24.4	10.7	13.63	1.788	
2,008.9	2,008.2	2,010.9	2,010.2	6.9	6.9	157.51	7.8	-5.1	24.4	10.7	13.69	1.779	CC, ES
2,100.0	2,098.9	2,102.1	2,101.0	7.2	7.2	173.21	-0.8	-7.0	25.3	11.0	14.32	1.767	SF
2,200.0	2,198.3	2,202.0	2,200.3	7.6	7.6	-169.79	-11.9	-9.4	29.0	13.9	15.06	1.923	
2,300.0	2,297.4	2,301.7	2,299.1	7.9	8.0	-155.87	-24.6	-12.2	35.5	19.7	15.83	2.242	
2,400.0	2,396.4	2,401.2	2,397.6	8.3	8.4	-146.22	-38.2	-15.2	44.0	27.4	16.64	2.645	
2,500.0	2,495.5	2,500.6	2,496.0	8.7	8.8	-139.80	-51.7	-18.2	53.3	35.9	17.45	3.057	
2,600.0	2,594.5	2,600.0	2,594.5	9.1	9.3	-135.33	-65.2	-21.1	63.1	44.9	18.27	3.455	
2,700.0	2,693.5	2,700.6	2,692.9	9.4	9.8	-132.08	-78.7	-24.1	73.2	54.1	19.11	3.832	
2,800.0	2,792.5	2,801.2	2,791.4	9.8	10.2	-129.61	-92.2	-27.1	83.5	63.5	19.95	4.183	
2,900.0	2,891.6	2,898.2	2,889.8	10.2	10.7	-127.69	-105.7	-30.1	93.8	73.1	20.79	4.513	
3,000.0	2,990.6	3,002.3	2,988.3	10.6	11.2	-126.15	-119.2	-33.0	104.3	82.6	21.67	4.813	
3,100.0	3,089.6	3,102.9	3,086.7	11.0	11.7	-124.89	-132.7	-36.0	114.8	92.3	22.54	5.094	
3,200.0	3,188.6	3,203.5	3,185.2	11.4	12.2	-123.85	-146.3	-39.0	125.4	102.0	23.42	5.355	
3,300.0	3,287.7	3,304.1	3,283.6	11.8	12.7	-122.96	-159.8	-42.0	136.0	111.7	24.30	5.597	
3,400.0	3,386.7	3,404.7	3,382.1	12.2	13.2	-122.21	-173.3	-44.9	146.6	121.4	25.18	5.823	
3,500.0	3,485.7	3,505.3	3,480.5	12.6	13.7	-121.56	-186.8	-47.9	157.3	131.2	26.07	6.032	
3,600.0	3,584.8	3,605.8	3,579.0	13.0	14.2	-120.99	-200.3	-50.9	167.9	141.0	26.96	6.228	
3,700.0	3,683.8	3,706.4	3,677.4	13.4	14.7	-120.48	-213.8	-53.8	178.6	150.8	27.86	6.411	
3,800.0	3,782.8	3,807.0	3,775.9	13.8	15.3	-120.04	-227.3	-56.8	189.3	160.6	28.76	6.582	
3,900.0	3,881.8	3,892.4	3,874.3	14.2	15.7	-119.64	-240.8	-59.8	200.0	170.4	29.59	6.760	
4,000.0	3,980.9	4,008.2	3,972.8	14.6	16.3	-119.28	-254.4	-62.8	210.7	180.2	30.57	6.893	
4,100.0	4,079.9	4,091.2	4,071.2	15.0	16.7	-118.96	-267.9	-65.7	221.5	190.1	31.39	7.055	
4,200.0	4,178.9	4,209.3	4,169.7	15.5	17.4	-118.67	-281.4	-68.7	232.2	199.8	32.39	7.168	
4,300.0	4,277.9	4,290.1	4,268.1	15.9	17.8	-118.40	-294.9	-71.7	242.9	209.7	33.20	7.317	
4,400.0	4,377.0	4,389.5	4,366.6	16.3	18.3	-118.16	-308.4	-74.7	253.6	219.5	34.11	7.437	
4,500.0	4,476.0	4,488.9	4,465.0	16.7	18.8	-117.93	-321.9	-77.6	264.4	229.4	35.02	7.550	
4,600.0	4,575.0	4,588.3	4,563.5	17.1	19.4	-117.72	-335.4	-80.6	275.1	239.2	35.93	7.658	
4,700.0	4,674.0	4,687.7	4,661.9	17.5	19.9	-117.53	-348.9	-83.6	285.9	249.0	36.84	7.760	
4,800.0	4,773.1	4,787.1	4,760.3	17.9	20.4	-117.35	-362.5	-86.6	296.6	258.9	37.76	7.856	
4,900.0	4,872.1	4,886.6	4,858.8	18.3	21.0	-117.19	-376.0	-89.5	307.4	268.7	38.67	7.948	
5,000.0	4,971.1	4,986.0	4,957.2	18.8	21.5	-117.03	-389.5	-92.5	318.1	278.6	39.59	8.036	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
5,100.0	5,070.2	5,085.4	5,055.7	19.2	22.0	-116.89	-403.0	-95.5	328.9	288.4	40.51	8.120	
5,200.0	5,169.2	5,184.8	5,154.1	19.6	22.5	-116.76	-416.5	-98.5	339.7	298.2	41.43	8.199	
5,300.0	5,268.2	5,284.2	5,252.6	20.0	23.1	-116.63	-430.0	-101.4	350.4	308.1	42.35	8.275	
5,400.0	5,367.2	5,383.6	5,351.0	20.4	23.6	-116.51	-443.5	-104.4	361.2	317.9	43.27	8.348	
5,500.0	5,466.3	5,483.1	5,449.5	20.8	24.2	-116.40	-457.0	-107.4	372.0	327.8	44.19	8.417	
5,600.0	5,565.3	5,584.9	5,550.5	21.3	24.7	-116.39	-470.2	-110.3	382.5	337.4	45.13	8.476	
5,700.0	5,664.3	5,687.8	5,652.7	21.7	25.2	-116.76	-480.9	-112.6	392.2	346.2	46.04	8.519	
5,800.0	5,763.3	5,790.6	5,755.2	22.1	25.6	-117.49	-488.8	-114.4	401.1	354.2	46.91	8.549	
5,900.0	5,862.4	5,893.2	5,857.7	22.5	26.0	-118.55	-494.1	-115.5	409.2	361.5	47.75	8.571	
6,000.0	5,961.4	5,995.6	5,960.0	22.9	26.4	-119.92	-496.7	-116.1	416.8	368.3	48.53	8.589	
6,100.0	6,060.4	6,104.0	6,060.4	23.3	26.7	-121.53	-497.0	-116.2	424.1	374.8	49.26	8.608	
6,200.0	6,159.4	6,205.0	6,159.4	23.8	26.9	-123.09	-497.0	-116.2	431.5	381.6	49.95	8.640	
6,300.0	6,258.5	6,306.0	6,258.5	24.2	27.2	-124.60	-497.0	-116.2	439.3	388.7	50.63	8.678	
6,400.0	6,357.5	6,406.9	6,357.5	24.6	27.5	-126.06	-497.0	-116.2	447.5	396.2	51.30	8.723	
6,500.0	6,456.5	6,507.9	6,456.5	25.0	27.7	-127.47	-497.0	-116.2	455.8	403.9	51.96	8.773	
6,600.0	6,555.6	6,608.9	6,555.6	25.4	28.0	-128.82	-497.0	-116.2	464.5	411.9	52.61	8.828	
6,700.0	6,654.6	6,709.9	6,654.6	25.9	28.3	-130.13	-497.0	-116.2	473.4	420.1	53.27	8.887	
6,800.0	6,753.6	6,789.2	6,753.6	26.3	28.5	-131.38	-497.0	-116.2	482.5	428.7	53.85	8.960	
6,900.0	6,852.6	6,888.2	6,852.6	26.7	28.8	-132.59	-497.0	-116.2	491.9	437.4	54.49	9.027	
7,000.0	6,951.7	6,987.2	6,951.7	27.1	29.0	-133.76	-497.0	-116.2	501.5	446.3	55.12	9.097	
7,100.0	7,050.7	7,086.3	7,050.7	27.5	29.3	-134.88	-497.0	-116.2	511.2	455.5	55.75	9.169	
7,200.0	7,149.7	7,185.3	7,149.7	28.0	29.6	-135.96	-497.0	-116.2	521.2	464.8	56.38	9.244	
7,300.0	7,248.7	7,284.3	7,248.7	28.4	29.9	-137.00	-497.0	-116.2	531.3	474.3	57.01	9.320	
7,400.0	7,347.8	7,383.3	7,347.8	28.8	30.2	-138.00	-497.0	-116.2	541.6	484.0	57.64	9.397	
7,500.0	7,446.8	7,482.4	7,446.8	29.2	30.4	-138.96	-497.0	-116.2	552.1	493.8	58.26	9.476	
7,600.0	7,545.8	7,581.4	7,545.8	29.6	30.7	-139.89	-497.0	-116.2	562.7	503.8	58.89	9.556	
7,700.0	7,644.9	7,680.4	7,644.9	30.1	31.0	-140.78	-497.0	-116.2	573.5	514.0	59.51	9.636	
7,800.0	7,743.9	7,779.4	7,743.9	30.5	31.3	-141.64	-497.0	-116.2	584.4	524.2	60.14	9.717	
7,900.0	7,842.9	7,878.5	7,842.9	30.9	31.6	-142.47	-497.0	-116.2	595.4	534.6	60.76	9.798	
8,000.0	7,941.9	7,977.5	7,941.9	31.3	31.9	-143.26	-497.0	-116.2	606.5	545.1	61.39	9.879	
8,100.0	8,041.0	8,076.5	8,041.0	31.7	32.2	-144.03	-497.0	-116.2	617.8	555.7	62.02	9.961	
8,200.0	8,140.0	8,175.6	8,140.0	32.2	32.5	-144.78	-497.0	-116.2	629.1	566.5	62.65	10.042	
8,300.0	8,239.0	8,274.6	8,239.0	32.6	32.7	-145.49	-497.0	-116.2	640.6	577.3	63.28	10.123	
8,400.0	8,338.0	8,373.6	8,338.0	33.0	33.0	-146.18	-497.0	-116.2	652.1	588.2	63.91	10.204	
8,415.6	8,353.5	8,389.0	8,353.5	33.1	33.1	-146.29	-497.0	-116.2	653.9	589.9	64.01	10.216	
8,500.0	8,437.2	8,472.8	8,437.2	33.4	33.3	-146.88	-497.0	-116.2	663.0	598.4	64.54	10.272	
8,600.0	8,536.6	8,572.2	8,536.6	33.8	33.6	-147.44	-497.0	-116.2	671.8	606.6	65.18	10.306	
8,700.0	8,636.3	8,671.9	8,636.3	34.2	33.9	-147.84	-497.0	-116.2	678.4	612.5	65.82	10.306	
8,800.0	8,736.2	8,771.8	8,736.2	34.6	34.2	-148.11	-497.0	-116.2	682.8	616.3	66.46	10.273	
8,900.0	8,836.2	8,871.7	8,836.2	34.9	34.5	-148.24	-497.0	-116.2	685.0	617.9	67.11	10.207	
8,948.9	8,885.1	8,920.6	8,885.1	35.0	34.7	89.83	-497.0	-116.2	685.2	617.8	67.42	10.164	
9,000.0	8,936.2	8,971.7	8,936.2	35.2	34.8	89.83	-497.0	-116.2	685.2	617.5	67.74	10.116	
9,100.0	9,036.2	9,071.7	9,036.2	35.5	35.2	89.83	-497.0	-116.2	685.2	616.9	68.36	10.023	
9,200.0	9,136.2	9,176.3	9,140.6	35.8	35.5	89.49	-492.9	-116.4	685.0	616.0	68.98	9.931	
9,300.0	9,236.2	9,279.1	9,241.0	36.1	35.7	87.70	-471.6	-117.8	684.2	614.8	69.39	9.861	
9,348.8	9,284.9	9,325.7	9,284.9	36.3	35.8	86.40	-456.0	-118.7	684.0	614.5	69.50	9.841	
9,400.0	9,336.2	9,371.7	9,326.8	36.4	35.8	84.83	-437.3	-119.9	684.3	614.8	69.57	9.836	
9,500.0	9,436.2	9,451.5	9,395.7	36.7	35.9	81.46	-397.0	-122.5	687.8	618.3	69.49	9.896	
9,600.0	9,536.2	9,518.6	9,448.7	37.0	36.0	78.06	-356.0	-125.0	696.8	627.8	69.04	10.093	
9,700.0	9,636.2	9,574.4	9,488.9	37.4	36.1	74.92	-317.4	-127.5	713.3	645.3	68.08	10.477	
9,800.0	9,736.2	9,620.7	9,519.2	37.7	36.2	72.15	-282.6	-129.7	738.3	671.8	66.56	11.093	
9,900.0	9,836.2	9,659.1	9,542.2	38.0	36.4	69.75	-251.8	-131.6	772.1	707.6	64.53	11.965	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
10,000.0	9,936.2	9,691.4	9,559.9	38.3	36.5	67.70	-224.9	-133.3	814.3	752.2	62.12	13.107	
10,100.0	10,036.2	9,718.7	9,573.7	38.6	36.6	65.94	-201.4	-134.8	864.2	804.7	59.51	14.521	
10,200.0	10,136.2	9,750.0	9,588.0	38.9	36.7	63.93	-173.6	-136.5	921.1	864.0	57.03	16.150	
10,300.0	10,236.2	9,762.0	9,593.1	39.2	36.7	63.15	-162.8	-137.2	983.7	929.5	54.24	18.136	
10,400.0	10,336.2	9,779.4	9,600.1	39.5	36.8	62.04	-146.9	-138.2	1,051.5	999.7	51.78	20.305	
10,500.0	10,436.2	9,800.0	9,607.8	39.9	36.9	60.72	-127.8	-139.4	1,123.5	1,073.9	49.63	22.636	
10,600.0	10,536.2	9,800.0	9,607.8	40.2	36.9	60.72	-127.8	-139.4	1,199.1	1,151.9	47.28	25.362	
10,700.0	10,636.2	9,819.7	9,614.4	40.5	37.0	59.47	-109.3	-140.6	1,277.7	1,232.1	45.61	28.012	
10,800.0	10,736.2	9,830.3	9,617.8	40.8	37.1	58.81	-99.3	-141.2	1,358.9	1,314.9	43.98	30.898	
10,900.0	10,836.2	9,850.0	9,623.4	41.1	37.2	57.58	-80.4	-142.4	1,442.3	1,399.6	42.73	33.751	
11,000.0	10,936.2	9,850.0	9,623.4	41.5	37.2	57.58	-80.4	-142.4	1,527.3	1,486.0	41.31	36.970	
11,100.0	11,036.2	9,850.0	9,623.4	41.8	37.2	57.58	-80.4	-142.4	1,614.1	1,574.0	40.09	40.265	
11,200.0	11,136.2	9,850.0	9,623.4	42.1	37.2	57.58	-80.4	-142.4	1,702.3	1,663.3	39.03	43.610	
11,300.0	11,236.2	9,869.5	9,628.4	42.4	37.4	56.38	-61.6	-143.6	1,791.3	1,752.9	38.43	46.608	
11,326.8	11,263.0	9,871.1	9,628.8	42.5	37.4	56.28	-60.1	-143.7	1,815.5	1,777.2	38.24	47.479	
11,350.0	11,286.1	9,872.6	9,629.1	42.6	37.4	52.94	-58.6	-143.8	1,836.2	1,798.2	38.07	48.233	
11,400.0	11,336.0	9,876.5	9,630.0	42.7	37.4	45.67	-54.9	-144.0	1,880.3	1,842.6	37.71	49.866	
11,450.0	11,385.2	9,881.2	9,631.1	42.9	37.4	39.83	-50.3	-144.3	1,923.2	1,885.8	37.34	51.498	
11,500.0	11,433.5	9,900.0	9,634.9	43.0	37.6	34.81	-31.9	-145.4	1,964.8	1,927.6	37.16	52.867	
11,550.0	11,480.6	9,900.0	9,634.9	43.1	37.6	31.28	-31.9	-145.4	2,004.3	1,967.6	36.72	54.577	
11,600.0	11,525.9	9,900.0	9,634.9	43.2	37.6	28.43	-31.9	-145.4	2,042.0	2,005.7	36.29	56.261	
11,650.0	11,569.3	9,900.0	9,634.9	43.3	37.6	26.10	-31.9	-145.4	2,077.6	2,041.7	35.88	57.901	
11,700.0	11,610.3	9,900.0	9,634.9	43.3	37.6	24.19	-31.9	-145.4	2,111.1	2,075.6	35.49	59.477	
11,750.0	11,648.7	9,923.1	9,638.7	43.4	37.8	22.40	-9.2	-146.9	2,141.6	2,106.2	35.36	60.571	
11,800.0	11,684.2	9,950.0	9,642.1	43.4	38.0	20.91	17.5	-148.5	2,170.0	2,134.8	35.25	61.553	
11,850.0	11,716.4	9,950.0	9,642.1	43.4	38.0	19.90	17.5	-148.5	2,195.1	2,160.2	34.93	62.842	
11,900.0	11,745.2	9,950.0	9,642.1	43.4	38.0	19.07	17.5	-148.5	2,217.4	2,182.8	34.66	63.978	
11,950.0	11,770.4	9,950.0	9,642.1	43.4	38.0	18.39	17.5	-148.5	2,236.9	2,202.5	34.45	64.937	
12,000.0	11,791.6	9,969.6	9,643.7	43.4	38.2	17.77	37.0	-149.8	2,253.2	2,218.7	34.40	65.495	
12,050.0	11,808.9	9,979.6	9,644.3	43.4	38.3	17.32	47.0	-150.4	2,266.3	2,232.0	34.35	65.981	
12,100.0	11,822.0	10,000.0	9,644.9	43.3	38.4	16.96	67.3	-151.7	2,276.4	2,242.0	34.38	66.209	
12,150.0	11,830.8	10,000.0	9,644.9	43.3	38.4	16.77	67.3	-151.7	2,282.9	2,248.5	34.41	66.345	
12,200.0	11,835.3	10,018.5	9,645.0	43.3	38.6	16.64	85.8	-152.8	2,286.3	2,251.7	34.55	66.178	
12,226.8	11,836.0	10,040.3	9,645.0	43.3	38.9	16.61	107.5	-154.0	2,286.5	2,251.9	34.66	65.968	
12,299.9	11,836.0	10,100.0	9,645.0	43.2	39.5	16.56	167.2	-156.5	2,285.9	2,250.9	35.01	65.297	
12,400.0	11,836.0	10,186.4	9,645.0	43.2	40.6	16.55	253.6	-157.9	2,285.6	2,250.0	35.62	64.173	
12,500.0	11,836.0	10,286.4	9,645.0	43.3	42.1	16.55	353.6	-158.9	2,285.6	2,249.3	36.37	62.840	
12,600.0	11,836.0	10,386.4	9,645.0	43.6	43.7	16.55	453.6	-159.9	2,285.6	2,248.4	37.22	61.405	
12,700.0	11,836.0	10,486.4	9,645.0	44.0	45.5	16.55	553.5	-160.9	2,285.6	2,247.5	38.16	59.891	
12,800.0	11,836.0	10,586.4	9,645.0	44.5	47.4	16.54	653.5	-161.9	2,285.6	2,246.4	39.19	58.326	
12,900.0	11,836.0	10,686.4	9,645.0	45.0	49.4	16.54	753.5	-162.9	2,285.6	2,245.3	40.29	56.734	
13,000.0	11,836.0	10,786.4	9,645.0	45.6	51.5	16.54	853.5	-163.9	2,285.6	2,244.2	41.46	55.134	
13,100.0	11,836.0	10,886.4	9,645.0	46.2	53.8	16.54	953.5	-164.9	2,285.6	2,242.9	42.69	53.541	
13,200.0	11,836.0	10,986.4	9,645.0	46.9	56.1	16.54	1,053.5	-165.9	2,285.6	2,241.6	43.98	51.969	
13,300.0	11,836.0	11,086.4	9,645.0	47.6	58.4	16.54	1,153.5	-166.9	2,285.6	2,240.3	45.32	50.428	
13,400.0	11,836.0	11,186.4	9,645.0	48.4	60.9	16.54	1,253.5	-167.9	2,285.6	2,238.9	46.72	48.924	
13,500.0	11,836.0	11,286.4	9,645.0	49.2	63.4	16.54	1,353.5	-168.9	2,285.6	2,237.5	48.15	47.464	
13,600.0	11,836.0	11,386.4	9,645.0	50.1	65.9	16.54	1,453.5	-169.8	2,285.6	2,236.0	49.63	46.051	
13,700.0	11,836.0	11,486.4	9,645.0	51.0	68.5	16.54	1,553.5	-170.8	2,285.6	2,234.5	51.15	44.687	
13,800.0	11,836.0	11,586.4	9,645.0	51.9	71.1	16.54	1,653.5	-171.8	2,285.6	2,232.9	52.70	43.373	
13,900.0	11,836.0	11,686.4	9,645.0	52.9	73.8	16.54	1,753.5	-172.8	2,285.6	2,231.3	54.28	42.110	
14,000.0	11,836.0	11,786.4	9,645.0	53.9	76.5	16.54	1,853.5	-173.8	2,285.6	2,229.7	55.89	40.898	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
14,100.0	11,836.0	11,886.4	9,645.0	54.9	79.2	16.54	1,953.5	-174.8	2,285.6	2,228.1	57.52	39.735	
14,200.0	11,836.0	11,986.4	9,645.0	55.9	81.9	16.54	2,053.5	-175.8	2,285.6	2,226.4	59.18	38.621	
14,300.0	11,836.0	12,086.4	9,645.0	57.0	84.7	16.54	2,153.5	-176.8	2,285.6	2,224.7	60.86	37.554	
14,400.0	11,836.0	12,186.4	9,645.0	58.1	87.5	16.54	2,253.5	-177.8	2,285.6	2,223.0	62.56	36.532	
14,500.0	11,836.0	12,286.4	9,645.0	59.3	90.3	16.54	2,353.5	-178.8	2,285.6	2,221.3	64.29	35.553	
14,600.0	11,836.0	12,386.4	9,645.0	60.4	93.1	16.54	2,453.5	-179.8	2,285.6	2,219.6	66.03	34.617	
14,700.0	11,836.0	12,486.4	9,645.0	61.6	96.0	16.54	2,553.5	-180.8	2,285.6	2,217.8	67.78	33.720	
14,800.0	11,836.0	12,586.4	9,645.0	62.8	98.8	16.54	2,653.4	-181.8	2,285.6	2,216.0	69.55	32.862	
14,900.0	11,836.0	12,686.4	9,645.0	64.0	101.7	16.54	2,753.4	-182.7	2,285.6	2,214.2	71.34	32.040	
15,000.0	11,836.0	12,786.4	9,645.0	65.3	104.6	16.54	2,853.4	-183.7	2,285.6	2,212.4	73.13	31.252	
15,100.0	11,836.0	12,886.4	9,645.0	66.5	107.4	16.54	2,953.4	-184.7	2,285.6	2,210.6	74.94	30.497	
15,200.0	11,836.0	12,986.4	9,645.0	67.8	110.3	16.54	3,053.4	-185.7	2,285.6	2,208.8	76.76	29.774	
15,300.0	11,836.0	13,086.4	9,645.0	69.1	113.3	16.54	3,153.4	-186.7	2,285.6	2,207.0	78.60	29.080	
15,400.0	11,836.0	13,186.4	9,645.0	70.4	116.2	16.54	3,253.4	-187.7	2,285.6	2,205.1	80.44	28.414	
15,500.0	11,836.0	13,286.4	9,645.0	71.7	119.1	16.54	3,353.4	-188.7	2,285.6	2,203.3	82.29	27.775	
15,600.0	11,836.0	13,386.4	9,645.0	73.1	122.0	16.54	3,453.4	-189.7	2,285.5	2,201.4	84.15	27.161	
15,700.0	11,836.0	13,486.4	9,645.0	74.4	125.0	16.54	3,553.4	-190.7	2,285.5	2,199.5	86.02	26.571	
15,800.0	11,836.0	13,586.4	9,645.0	75.8	127.9	16.54	3,653.4	-191.7	2,285.5	2,197.7	87.89	26.005	
15,900.0	11,836.0	13,686.4	9,645.0	77.2	130.9	16.54	3,753.4	-192.7	2,285.5	2,195.8	89.77	25.459	
16,000.0	11,836.0	13,786.4	9,645.0	78.5	133.8	16.54	3,853.4	-193.7	2,285.5	2,193.9	91.66	24.935	
16,100.0	11,836.0	13,886.4	9,645.0	79.9	136.8	16.54	3,953.4	-194.7	2,285.5	2,192.0	93.56	24.429	
16,200.0	11,836.0	13,986.4	9,645.0	81.3	139.7	16.54	4,053.4	-195.7	2,285.5	2,190.1	95.46	23.943	
16,300.0	11,836.0	14,086.4	9,645.0	82.7	142.7	16.54	4,153.4	-196.6	2,285.5	2,188.2	97.36	23.474	
16,400.0	11,836.0	14,186.4	9,645.0	84.2	145.7	16.54	4,253.4	-197.6	2,285.5	2,186.2	99.28	23.022	
16,500.0	11,836.0	14,286.4	9,645.0	85.6	148.7	16.54	4,353.4	-198.6	2,285.5	2,184.3	101.19	22.586	
16,600.0	11,836.0	14,386.4	9,645.0	87.0	151.7	16.54	4,453.4	-199.6	2,285.5	2,182.4	103.11	22.165	
16,700.0	11,836.0	14,486.4	9,645.0	88.5	154.6	16.54	4,553.4	-200.6	2,285.5	2,180.5	105.04	21.758	
16,800.0	11,836.0	14,586.4	9,645.0	89.9	157.6	16.53	4,653.3	-201.6	2,285.5	2,178.5	106.97	21.366	
16,900.0	11,836.0	14,686.4	9,645.0	91.4	160.6	16.53	4,753.3	-202.6	2,285.5	2,176.6	108.91	20.986	
17,000.0	11,836.0	14,786.4	9,645.0	92.8	163.6	16.53	4,853.3	-203.6	2,285.5	2,174.7	110.84	20.619	
17,100.0	11,836.0	14,886.4	9,645.0	94.3	166.6	16.53	4,953.3	-204.6	2,285.5	2,172.7	112.78	20.264	
17,200.0	11,836.0	14,986.4	9,645.0	95.8	169.6	16.53	5,053.3	-205.6	2,285.5	2,170.8	114.73	19.921	
17,300.0	11,836.0	15,086.4	9,645.0	97.3	172.6	16.53	5,153.3	-206.6	2,285.5	2,168.8	116.68	19.588	
17,400.0	11,836.0	15,186.4	9,645.0	98.8	175.6	16.53	5,253.3	-207.6	2,285.5	2,166.9	118.63	19.266	
17,500.0	11,836.0	15,286.4	9,645.0	100.3	178.7	16.53	5,353.3	-208.6	2,285.5	2,164.9	120.58	18.954	
17,600.0	11,836.0	15,386.4	9,645.0	101.8	181.7	16.53	5,453.3	-209.5	2,285.5	2,162.9	122.54	18.651	
17,700.0	11,836.0	15,486.4	9,645.0	103.3	184.7	16.53	5,553.3	-210.5	2,285.5	2,161.0	124.50	18.357	
17,800.0	11,836.0	15,586.4	9,645.0	104.8	187.7	16.53	5,653.3	-211.5	2,285.5	2,159.0	126.46	18.072	
17,900.0	11,836.0	15,686.4	9,645.0	106.3	190.7	16.53	5,753.3	-212.5	2,285.5	2,157.1	128.43	17.796	
18,000.0	11,836.0	15,786.4	9,645.0	107.8	193.7	16.53	5,853.3	-213.5	2,285.5	2,155.1	130.39	17.527	
18,100.0	11,836.0	15,886.4	9,645.0	109.3	196.8	16.53	5,953.3	-214.5	2,285.5	2,153.1	132.36	17.267	
18,200.0	11,836.0	15,986.4	9,645.0	110.8	199.8	16.53	6,053.3	-215.5	2,285.5	2,151.1	134.34	17.013	
18,300.0	11,836.0	16,086.4	9,645.0	112.4	202.8	16.53	6,153.3	-216.5	2,285.5	2,149.2	136.31	16.767	
18,400.0	11,836.0	16,186.4	9,645.0	113.9	205.8	16.53	6,253.3	-217.5	2,285.5	2,147.2	138.28	16.527	
18,500.0	11,836.0	16,286.4	9,645.0	115.4	208.9	16.53	6,353.3	-218.5	2,285.5	2,145.2	140.26	16.294	
18,600.0	11,836.0	16,386.4	9,645.0	117.0	211.9	16.53	6,453.3	-219.5	2,285.5	2,143.2	142.24	16.068	
18,700.0	11,836.0	16,486.4	9,645.0	118.5	214.9	16.53	6,553.3	-220.5	2,285.5	2,141.2	144.22	15.847	
18,800.0	11,836.0	16,586.4	9,645.0	120.1	218.0	16.53	6,653.2	-221.5	2,285.5	2,139.2	146.20	15.632	
18,900.0	11,836.0	16,686.4	9,645.0	121.6	221.0	16.53	6,753.2	-222.5	2,285.4	2,137.3	148.19	15.423	
19,000.0	11,836.0	16,786.4	9,645.0	123.2	224.0	16.53	6,853.2	-223.4	2,285.4	2,135.3	150.17	15.219	
19,100.0	11,836.0	16,886.4	9,645.0	124.7	227.1	16.53	6,953.2	-224.4	2,285.4	2,133.3	152.16	15.020	
19,200.0	11,836.0	16,986.4	9,645.0	126.3	230.1	16.53	7,053.2	-225.4	2,285.4	2,131.3	154.15	14.826	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
19,300.0	11,836.0	17,086.4	9,645.0	127.8	233.1	16.53	7,153.2	-226.4	2,285.4	2,129.3	156.14	14.637	
19,400.0	11,836.0	17,186.4	9,645.0	129.4	236.2	16.53	7,253.2	-227.4	2,285.4	2,127.3	158.13	14.453	
19,500.0	11,836.0	17,286.4	9,645.0	131.0	239.2	16.53	7,353.2	-228.4	2,285.4	2,125.3	160.12	14.273	
19,600.0	11,836.0	17,386.4	9,645.0	132.5	242.2	16.53	7,453.2	-229.4	2,285.4	2,123.3	162.11	14.098	
19,700.0	11,836.0	17,486.4	9,645.0	134.1	245.3	16.53	7,553.2	-230.4	2,285.4	2,121.3	164.11	13.926	
19,800.0	11,836.0	17,586.4	9,645.0	135.7	248.3	16.53	7,653.2	-231.4	2,285.4	2,119.3	166.10	13.759	
19,900.0	11,836.0	17,686.4	9,645.0	137.2	251.4	16.53	7,753.2	-232.4	2,285.4	2,117.3	168.10	13.596	
20,000.0	11,836.0	17,786.4	9,645.0	138.8	254.4	16.53	7,853.2	-233.4	2,285.4	2,115.3	170.10	13.436	
20,100.0	11,836.0	17,886.4	9,645.0	140.4	257.5	16.53	7,953.2	-234.4	2,285.4	2,113.3	172.10	13.280	
20,200.0	11,836.0	17,986.4	9,645.0	142.0	260.5	16.53	8,053.2	-235.4	2,285.4	2,111.3	174.10	13.127	
20,300.0	11,836.0	18,086.4	9,645.0	143.5	263.6	16.53	8,153.2	-236.4	2,285.4	2,109.3	176.10	12.978	
20,400.0	11,836.0	18,186.4	9,645.0	145.1	266.6	16.53	8,253.2	-237.3	2,285.4	2,107.3	178.10	12.832	
20,500.0	11,836.0	18,286.4	9,645.0	146.7	269.6	16.53	8,353.2	-238.3	2,285.4	2,105.3	180.10	12.690	
20,600.0	11,836.0	18,386.4	9,645.0	148.3	272.7	16.53	8,453.2	-239.3	2,285.4	2,103.3	182.10	12.550	
20,700.0	11,836.0	18,486.4	9,645.0	149.9	275.7	16.52	8,553.2	-240.3	2,285.4	2,101.3	184.11	12.413	
20,800.0	11,836.0	18,586.4	9,645.0	151.5	278.8	16.52	8,653.2	-241.3	2,285.4	2,099.3	186.11	12.280	
20,900.0	11,836.0	18,686.4	9,645.0	153.0	281.8	16.52	8,753.1	-242.3	2,285.4	2,097.3	188.12	12.149	
21,000.0	11,836.0	18,786.4	9,645.0	154.6	284.9	16.52	8,853.1	-243.3	2,285.4	2,095.3	190.12	12.021	
21,100.0	11,836.0	18,886.4	9,645.0	156.2	287.9	16.52	8,953.1	-244.3	2,285.4	2,093.3	192.13	11.895	
21,200.0	11,836.0	18,986.4	9,645.0	157.8	291.0	16.52	9,053.1	-245.3	2,285.4	2,091.2	194.14	11.772	
21,300.0	11,836.0	19,086.4	9,645.0	159.4	294.0	16.52	9,153.1	-246.3	2,285.4	2,089.2	196.15	11.651	
21,400.0	11,836.0	19,186.4	9,645.0	161.0	297.1	16.52	9,253.1	-247.3	2,285.4	2,087.2	198.16	11.533	
21,500.0	11,836.0	19,286.4	9,645.0	162.6	300.2	16.52	9,353.1	-248.3	2,285.4	2,085.2	200.16	11.417	
21,600.0	11,836.0	19,386.4	9,645.0	164.2	303.2	16.52	9,453.1	-249.3	2,285.4	2,083.2	202.17	11.304	
21,700.0	11,836.0	19,486.4	9,645.0	165.8	306.3	16.52	9,553.1	-250.2	2,285.4	2,081.2	204.19	11.193	
21,800.0	11,836.0	19,586.4	9,645.0	167.4	309.3	16.52	9,653.1	-251.2	2,285.4	2,079.2	206.20	11.083	
21,900.0	11,836.0	19,686.4	9,645.0	169.0	312.4	16.52	9,753.1	-252.2	2,285.4	2,077.2	208.21	10.976	
22,000.0	11,836.0	19,786.4	9,645.0	170.6	315.4	16.52	9,853.1	-253.2	2,285.4	2,075.1	210.22	10.871	
22,100.0	11,836.0	19,886.4	9,645.0	172.2	318.5	16.52	9,953.0	-254.2	2,285.4	2,073.1	212.23	10.768	
22,108.6	11,836.0	19,895.0	9,645.0	172.3	318.7	16.52	9,961.7	-254.3	2,285.4	2,072.9	212.41	10.759	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	1.0	1.0	0.0	0.0	-76.37	29.1	-120.1	123.6				
100.0	100.0	101.0	101.0	0.1	0.1	-76.37	29.1	-120.1	123.6	123.4	0.26	475.660	
200.0	200.0	201.0	201.0	0.5	0.5	-76.37	29.1	-120.1	123.6	122.6	0.98	126.552	
300.0	300.0	301.0	301.0	0.8	0.8	-76.37	29.1	-120.1	123.6	121.9	1.69	72.985	
400.0	400.0	401.0	401.0	1.2	1.2	-76.37	29.1	-120.1	123.6	121.2	2.41	51.279	
500.0	500.0	501.0	501.0	1.6	1.6	-76.37	29.1	-120.1	123.6	120.5	3.13	39.525	
600.0	600.0	601.0	601.0	1.9	1.9	-76.37	29.1	-120.1	123.6	119.8	3.84	32.154	
700.0	700.0	701.0	701.0	2.3	2.3	-76.37	29.1	-120.1	123.6	119.1	4.56	27.101	
800.0	800.0	801.0	801.0	2.6	2.6	-76.37	29.1	-120.1	123.6	118.3	5.28	23.420	
900.0	900.0	901.0	901.0	3.0	3.0	-76.37	29.1	-120.1	123.6	117.6	6.00	20.619	
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-76.37	29.1	-120.1	123.6	116.9	6.71	18.417	
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-76.37	29.1	-120.1	123.6	116.2	7.43	16.640	
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-76.37	29.1	-120.1	123.6	115.5	8.15	15.175	
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-76.37	29.1	-120.1	123.6	114.8	8.86	13.948	
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-76.37	29.1	-120.1	123.6	114.0	9.58	12.904	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-76.37	29.1	-120.1	123.6	113.3	10.30	12.005	
1,600.0	1,600.0	1,600.6	1,600.6	5.5	5.5	45.42	28.3	-120.5	123.2	112.2	10.98	11.218	
1,700.0	1,700.0	1,700.1	1,700.1	5.8	5.8	45.10	26.0	-121.6	121.9	110.2	11.64	10.471	
1,800.0	1,799.9	1,799.7	1,799.5	6.2	6.1	44.56	22.0	-123.5	119.7	107.4	12.31	9.728	
1,900.0	1,899.7	1,899.1	1,898.8	6.5	6.5	43.76	16.5	-126.0	116.7	103.7	12.98	8.987	
2,000.0	1,999.4	1,998.6	1,997.9	6.9	6.8	42.68	9.5	-129.3	112.8	99.1	13.67	8.252	
2,100.0	2,098.9	2,097.9	2,096.8	7.2	7.2	41.25	0.9	-133.3	108.2	93.8	14.38	7.525	
2,200.0	2,198.3	2,197.2	2,195.5	7.6	7.6	39.41	-9.3	-138.1	102.8	87.7	15.10	6.808	
2,300.0	2,297.4	2,303.7	2,293.8	7.9	8.0	37.02	-20.9	-143.5	96.7	80.8	15.86	6.096	
2,400.0	2,396.4	2,404.0	2,392.5	8.3	8.4	34.04	-33.5	-149.4	90.5	73.9	16.62	5.443	
2,500.0	2,495.5	2,504.3	2,491.2	8.7	8.9	30.63	-46.1	-155.3	84.5	67.1	17.38	4.862	
2,600.0	2,594.5	2,604.6	2,589.9	9.1	9.3	26.72	-58.6	-161.2	78.9	60.8	18.14	4.351	
2,700.0	2,693.5	2,704.9	2,688.6	9.4	9.8	22.23	-71.2	-167.1	73.7	54.9	18.88	3.905	
2,800.0	2,792.5	2,805.2	2,787.3	9.8	10.3	17.11	-83.8	-172.9	69.1	49.5	19.60	3.524	
2,900.0	2,891.6	2,905.6	2,886.1	10.2	10.8	11.31	-96.3	-178.8	65.0	44.7	20.29	3.205	
3,000.0	2,990.6	3,005.9	2,984.8	10.6	11.2	4.82	-108.9	-184.7	61.8	40.8	20.95	2.948	
3,100.0	3,089.6	3,106.2	3,083.5	11.0	11.7	-2.30	-121.5	-190.6	59.4	37.8	21.59	2.750	
3,200.0	3,188.6	3,206.5	3,182.2	11.4	12.2	-9.88	-134.0	-196.4	57.9	35.7	22.21	2.608	
3,283.0	3,270.8	3,276.2	3,264.1	11.7	12.6	-16.36	-144.5	-201.3	57.6	34.9	22.69	2.537	CC
3,300.0	3,287.7	3,306.8	3,280.9	11.8	12.7	-17.70	-146.6	-202.3	57.6	34.7	22.85	2.519	ES
3,400.0	3,386.7	3,407.1	3,379.6	12.2	13.2	-25.46	-159.2	-208.2	58.3	34.8	23.54	2.476	
3,500.0	3,485.7	3,507.4	3,478.4	12.6	13.8	-32.91	-171.7	-214.1	60.1	35.8	24.30	2.472	SF
3,600.0	3,584.8	3,607.7	3,577.1	13.0	14.3	-39.82	-184.3	-220.0	62.8	37.7	25.12	2.499	
3,700.0	3,683.8	3,691.9	3,675.8	13.4	14.7	-46.08	-196.9	-225.8	66.3	40.4	25.95	2.556	
3,800.0	3,782.8	3,808.4	3,774.5	13.8	15.3	-51.65	-209.4	-231.7	70.6	43.7	26.94	2.620	
3,900.0	3,881.8	3,908.7	3,873.2	14.2	15.8	-56.55	-222.0	-237.6	75.4	47.5	27.91	2.704	
4,000.0	3,980.9	4,009.0	3,972.0	14.6	16.4	-60.83	-234.6	-243.5	80.8	51.9	28.89	2.796	
4,100.0	4,079.9	4,090.7	4,070.7	15.0	16.8	-64.56	-247.1	-249.4	86.5	56.7	29.81	2.902	
4,200.0	4,178.9	4,190.4	4,169.4	15.5	17.3	-67.82	-259.7	-255.2	92.6	61.8	30.80	3.005	
4,300.0	4,277.9	4,309.9	4,268.1	15.9	17.9	-70.67	-272.3	-261.1	98.9	67.0	31.88	3.102	
4,400.0	4,377.0	4,389.8	4,366.8	16.3	18.4	-73.18	-284.8	-267.0	105.4	72.6	32.79	3.215	
4,500.0	4,476.0	4,489.4	4,465.5	16.7	18.9	-75.39	-297.4	-272.9	112.1	78.3	33.77	3.319	
4,600.0	4,575.0	4,589.1	4,564.3	17.1	19.4	-77.35	-310.0	-278.7	119.0	84.2	34.76	3.422	
4,700.0	4,674.0	4,688.8	4,663.0	17.5	19.9	-79.09	-322.5	-284.6	125.9	90.2	35.74	3.524	
4,800.0	4,773.1	4,788.5	4,761.7	17.9	20.5	-80.65	-335.1	-290.5	133.0	96.3	36.72	3.623	
4,900.0	4,872.1	4,888.2	4,860.4	18.3	21.0	-82.05	-347.7	-296.4	140.2	102.5	37.70	3.719	
5,000.0	4,971.1	4,987.9	4,959.1	18.8	21.5	-83.32	-360.2	-302.3	147.4	108.8	38.67	3.813	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
5,100.0	5,070.2	5,087.6	5,057.8	19.2	22.1	-84.46	-372.8	-308.1	154.7	115.1	39.64	3.904	
5,200.0	5,169.2	5,187.2	5,156.6	19.6	22.6	-85.50	-385.4	-314.0	162.1	121.5	40.61	3.992	
5,300.0	5,268.2	5,286.9	5,255.3	20.0	23.2	-86.45	-397.9	-319.9	169.5	127.9	41.58	4.077	
5,400.0	5,367.2	5,386.6	5,354.0	20.4	23.7	-87.32	-410.5	-325.8	177.0	134.4	42.54	4.160	
5,500.0	5,466.3	5,486.3	5,452.7	20.8	24.2	-88.13	-423.1	-331.6	184.5	141.0	43.51	4.240	
5,600.0	5,565.3	5,586.0	5,551.4	21.3	24.8	-88.86	-435.6	-337.5	192.0	147.5	44.47	4.318	
5,700.0	5,664.3	5,685.7	5,650.1	21.7	25.3	-89.55	-448.2	-343.4	199.6	154.1	45.43	4.392	
5,800.0	5,763.3	5,785.4	5,748.9	22.1	25.8	-90.18	-460.8	-349.3	207.1	160.7	46.39	4.465	
5,900.0	5,862.4	5,887.5	5,850.1	22.5	26.4	-90.98	-472.9	-354.9	214.3	166.9	47.39	4.522	
6,000.0	5,961.4	5,990.2	5,952.2	22.9	26.9	-92.34	-482.6	-359.5	220.1	171.8	48.39	4.549	
6,100.0	6,060.4	6,092.8	6,054.5	23.3	27.3	-94.23	-489.8	-362.9	224.8	175.4	49.39	4.552	
6,200.0	6,159.4	6,195.1	6,156.7	23.8	27.7	-96.65	-494.5	-365.1	228.5	178.1	50.36	4.537	
6,300.0	6,258.5	6,296.9	6,258.5	24.2	28.0	-99.59	-496.8	-366.1	231.5	180.2	51.30	4.513	
6,400.0	6,357.5	6,403.1	6,358.5	24.6	28.3	-102.90	-497.0	-366.2	234.4	182.2	52.19	4.490	
6,500.0	6,456.5	6,504.0	6,457.5	25.0	28.6	-106.14	-497.0	-366.2	237.9	184.9	53.01	4.487	
6,600.0	6,555.6	6,605.0	6,556.6	25.4	28.8	-109.28	-497.0	-366.2	242.1	188.4	53.79	4.502	
6,700.0	6,654.6	6,706.0	6,655.6	25.9	29.1	-112.30	-497.0	-366.2	247.1	192.6	54.52	4.533	
6,800.0	6,753.6	6,806.9	6,754.6	26.3	29.4	-115.20	-497.0	-366.2	252.8	197.6	55.21	4.579	
6,900.0	6,852.6	6,907.9	6,853.6	26.7	29.6	-117.96	-497.0	-366.2	259.1	203.2	55.87	4.637	
7,000.0	6,951.7	7,008.9	6,952.7	27.1	29.9	-120.59	-497.0	-366.2	265.9	209.4	56.49	4.707	
7,100.0	7,050.7	7,109.9	7,051.7	27.5	30.2	-123.09	-497.0	-366.2	273.3	216.2	57.10	4.787	
7,200.0	7,149.7	7,189.2	7,150.7	28.0	30.4	-125.45	-497.0	-366.2	281.2	223.6	57.62	4.880	
7,300.0	7,248.7	7,288.2	7,249.7	28.4	30.7	-127.68	-497.0	-366.2	289.6	231.4	58.19	4.976	
7,400.0	7,347.8	7,387.2	7,348.8	28.8	31.0	-129.78	-497.0	-366.2	298.3	239.6	58.74	5.078	
7,500.0	7,446.8	7,486.2	7,447.8	29.2	31.2	-131.76	-497.0	-366.2	307.5	248.2	59.29	5.186	
7,600.0	7,545.8	7,585.3	7,546.8	29.6	31.5	-133.63	-497.0	-366.2	316.9	257.1	59.83	5.297	
7,700.0	7,644.9	7,684.3	7,645.9	30.1	31.8	-135.39	-497.0	-366.2	326.7	266.4	60.37	5.412	
7,800.0	7,743.9	7,783.3	7,744.9	30.5	32.1	-137.05	-497.0	-366.2	336.8	275.9	60.91	5.530	
7,900.0	7,842.9	7,882.3	7,843.9	30.9	32.4	-138.60	-497.0	-366.2	347.2	285.8	61.45	5.650	
8,000.0	7,941.9	7,981.4	7,942.9	31.3	32.6	-140.07	-497.0	-366.2	357.8	295.8	61.99	5.772	
8,100.0	8,041.0	8,080.4	8,042.0	31.7	32.9	-141.46	-497.0	-366.2	368.6	306.1	62.54	5.894	
8,200.0	8,140.0	8,179.4	8,141.0	32.2	33.2	-142.76	-497.0	-366.2	379.7	316.6	63.09	6.018	
8,300.0	8,239.0	8,278.5	8,240.0	32.6	33.5	-143.99	-497.0	-366.2	390.9	327.2	63.65	6.141	
8,400.0	8,338.0	8,377.5	8,339.0	33.0	33.8	-145.15	-497.0	-366.2	402.2	338.0	64.21	6.265	
8,415.6	8,353.5	8,407.1	8,354.5	33.1	33.9	-145.33	-497.0	-366.2	404.0	339.7	64.34	6.280	
8,500.0	8,437.2	8,476.6	8,438.2	33.4	34.1	-146.25	-497.0	-366.2	413.0	348.2	64.78	6.376	
8,600.0	8,536.6	8,576.1	8,537.6	33.8	34.4	-147.11	-497.0	-366.2	421.7	356.4	65.36	6.452	
8,700.0	8,636.3	8,675.8	8,637.3	34.2	34.7	-147.73	-497.0	-366.2	428.3	362.4	65.97	6.493	
8,800.0	8,736.2	8,775.6	8,737.2	34.6	35.0	-148.13	-497.0	-366.2	432.7	366.1	66.59	6.499	
8,900.0	8,836.2	8,875.6	8,837.2	34.9	35.3	-148.33	-497.0	-366.2	434.9	367.7	67.22	6.470	
8,948.9	8,885.1	8,924.5	8,886.1	35.0	35.4	89.74	-497.0	-366.2	435.2	367.7	67.53	6.445	
9,000.0	8,936.2	8,975.6	8,937.2	35.2	35.6	89.74	-497.0	-366.2	435.2	367.4	67.85	6.414	
9,100.0	9,036.2	9,075.6	9,037.2	35.5	35.9	89.74	-497.0	-366.2	435.2	366.7	68.47	6.356	
9,200.0	9,136.2	9,175.6	9,137.2	35.8	36.2	89.74	-497.0	-366.2	435.2	366.1	69.10	6.298	
9,300.0	9,236.2	9,275.6	9,237.2	36.1	36.5	89.74	-497.0	-366.2	435.2	365.5	69.73	6.241	
9,400.0	9,336.2	9,375.6	9,337.2	36.4	36.8	89.74	-497.0	-366.2	435.2	364.8	70.36	6.185	
9,500.0	9,436.2	9,475.6	9,437.2	36.7	37.1	89.74	-497.0	-366.2	435.2	364.2	70.99	6.130	
9,600.0	9,536.2	9,561.5	9,522.9	37.0	37.3	89.11	-492.2	-365.1	436.6	365.3	71.35	6.119	
9,700.0	9,636.2	9,642.7	9,602.3	37.4	37.5	87.06	-476.4	-361.3	442.1	370.8	71.32	6.198	
9,800.0	9,736.2	9,717.9	9,673.2	37.7	37.6	84.00	-452.1	-355.5	453.0	382.1	70.80	6.397	
9,900.0	9,836.2	9,785.5	9,733.7	38.0	37.7	80.45	-422.8	-348.4	470.9	401.2	69.65	6.761	
10,000.0	9,936.2	9,845.1	9,783.7	38.3	37.8	76.84	-391.3	-340.8	497.2	429.4	67.80	7.334	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	10,036.2	9,900.0	9,826.6	38.6	37.9	73.26	-358.0	-332.9	532.7	467.2	65.45	8.139	
10,200.0	10,136.2	9,941.8	9,856.9	38.9	38.0	70.44	-330.1	-326.2	577.0	514.6	62.43	9.243	
10,300.0	10,236.2	9,980.4	9,883.0	39.2	38.1	67.81	-302.5	-319.5	629.5	570.2	59.33	10.610	
10,400.0	10,336.2	10,013.8	9,904.0	39.5	38.2	65.56	-277.2	-313.4	689.2	632.9	56.25	12.252	
10,500.0	10,436.2	10,050.0	9,925.0	39.9	38.3	63.15	-248.5	-306.6	754.9	701.3	53.64	14.073	
10,600.0	10,536.2	10,068.0	9,934.7	40.2	38.4	61.98	-233.8	-303.0	825.6	775.0	50.66	16.298	
10,700.0	10,636.2	10,100.0	9,950.8	40.5	38.5	59.95	-206.9	-296.6	900.7	852.0	48.66	18.511	
10,800.0	10,736.2	10,100.0	9,950.8	40.8	38.5	59.95	-206.9	-296.6	979.0	933.2	45.80	21.374	
10,900.0	10,836.2	10,126.8	9,963.1	41.1	38.7	58.30	-183.8	-291.0	1,060.1	1,015.8	44.33	23.915	
11,000.0	10,936.2	10,150.0	9,972.9	41.5	38.8	56.92	-163.3	-286.1	1,143.7	1,100.7	43.00	26.599	
11,100.0	11,036.2	10,150.0	9,972.9	41.8	38.8	56.92	-163.3	-286.1	1,229.2	1,188.0	41.21	29.830	
11,200.0	11,136.2	10,168.2	9,979.9	42.1	38.9	55.87	-147.0	-282.2	1,316.3	1,276.1	40.23	32.724	
11,300.0	11,236.2	10,179.3	9,983.9	42.4	39.0	55.23	-136.9	-279.8	1,404.9	1,365.7	39.24	35.800	
11,326.8	11,263.0	10,182.1	9,984.9	42.5	39.0	55.08	-134.3	-279.2	1,428.9	1,389.9	39.01	36.633	
11,350.0	11,286.1	10,200.0	9,990.9	42.6	39.1	51.12	-118.0	-275.2	1,449.8	1,410.6	39.20	36.988	
11,400.0	11,336.0	10,200.0	9,990.9	42.7	39.1	44.49	-118.0	-275.2	1,493.5	1,454.9	38.61	38.683	
11,450.0	11,385.2	10,200.0	9,990.9	42.9	39.1	39.11	-118.0	-275.2	1,536.0	1,498.0	38.02	40.399	
11,500.0	11,433.5	10,200.0	9,990.9	43.0	39.1	34.76	-118.0	-275.2	1,577.1	1,539.7	37.44	42.121	
11,550.0	11,480.6	10,200.0	9,990.9	43.1	39.1	31.23	-118.0	-275.2	1,616.7	1,579.8	36.88	43.833	
11,600.0	11,525.9	10,221.8	9,997.5	43.2	39.3	28.22	-97.8	-270.4	1,654.0	1,617.2	36.78	44.973	
11,650.0	11,569.3	10,231.0	10,000.0	43.3	39.3	25.90	-89.2	-268.3	1,689.4	1,653.0	36.42	46.384	
11,700.0	11,610.3	10,250.0	10,004.8	43.3	39.5	24.00	-71.3	-264.0	1,722.6	1,686.4	36.26	47.510	
11,750.0	11,648.7	10,250.0	10,004.8	43.4	39.5	22.47	-71.3	-264.0	1,753.2	1,717.4	35.79	48.987	
11,800.0	11,684.2	10,250.0	10,004.8	43.4	39.5	21.20	-71.3	-264.0	1,781.5	1,746.1	35.39	50.344	
11,850.0	11,716.4	10,271.7	10,009.5	43.4	39.6	20.20	-50.6	-259.1	1,806.8	1,771.4	35.35	51.117	
11,900.0	11,745.2	10,300.0	10,014.4	43.4	39.9	19.43	-23.6	-252.6	1,829.8	1,794.4	35.41	51.670	
11,950.0	11,770.4	10,300.0	10,014.4	43.4	39.9	18.74	-23.6	-252.6	1,849.3	1,814.1	35.18	52.569	
12,000.0	11,791.6	10,300.0	10,014.4	43.4	39.9	18.18	-23.6	-252.6	1,866.1	1,831.0	35.04	53.249	
12,050.0	11,808.9	10,300.0	10,014.4	43.4	39.9	17.72	-23.6	-252.6	1,880.2	1,845.2	35.02	53.690	
12,100.0	11,822.0	10,328.1	10,018.0	43.3	40.1	17.55	3.5	-246.1	1,890.6	1,855.3	35.28	53.583	
12,150.0	11,830.8	10,350.0	10,019.8	43.3	40.3	17.46	24.7	-241.0	1,898.4	1,862.8	35.55	53.394	
12,200.0	11,835.3	10,350.0	10,019.8	43.3	40.3	17.33	24.7	-241.0	1,902.8	1,867.0	35.79	53.161	
12,226.8	11,836.0	10,350.0	10,019.8	43.3	40.3	17.29	24.7	-241.0	1,903.9	1,868.0	35.97	52.932	
12,299.9	11,836.0	10,386.4	10,021.0	43.2	40.7	17.55	60.1	-232.5	1,906.9	1,870.3	36.64	52.045	
12,400.0	11,836.0	10,446.3	10,021.0	43.2	41.4	17.95	118.5	-219.1	1,913.7	1,876.0	37.68	50.785	
12,500.0	11,836.0	10,571.0	10,021.0	43.3	43.0	18.67	240.8	-195.2	1,920.1	1,881.3	38.83	49.446	
12,600.0	11,836.0	10,697.6	10,021.0	43.6	44.9	19.23	366.1	-176.4	1,925.3	1,885.3	40.05	48.069	
12,700.0	11,836.0	10,825.9	10,021.0	44.0	47.1	19.64	493.6	-163.0	1,929.2	1,887.8	41.33	46.673	
12,800.0	11,836.0	10,955.2	10,021.0	44.5	49.4	19.89	622.7	-155.3	1,931.5	1,888.9	42.63	45.305	
12,900.0	11,836.0	11,085.0	10,021.0	45.0	51.8	19.98	752.5	-153.4	1,932.3	1,888.4	43.92	43.993	
13,000.0	11,836.0	11,186.1	10,021.0	45.6	53.8	19.98	853.6	-154.4	1,932.3	1,887.2	45.15	42.799	
13,100.0	11,836.0	11,286.1	10,021.0	46.2	55.8	19.98	953.6	-155.4	1,932.3	1,885.9	46.44	41.608	
13,200.0	11,836.0	11,386.1	10,021.0	46.9	58.0	19.98	1,053.6	-156.4	1,932.3	1,884.5	47.80	40.427	
13,300.0	11,836.0	11,486.1	10,021.0	47.6	60.2	19.98	1,153.6	-157.4	1,932.3	1,883.1	49.22	39.262	
13,400.0	11,836.0	11,586.1	10,021.0	48.4	62.5	19.98	1,253.6	-158.3	1,932.3	1,881.6	50.69	38.121	
13,500.0	11,836.0	11,686.1	10,021.0	49.2	64.9	19.98	1,353.6	-159.3	1,932.3	1,880.1	52.21	37.009	
13,600.0	11,836.0	11,786.1	10,021.0	50.1	67.4	19.98	1,453.6	-160.3	1,932.3	1,878.5	53.78	35.929	
13,700.0	11,836.0	11,886.1	10,021.0	51.0	69.8	19.98	1,553.6	-161.3	1,932.3	1,876.9	55.39	34.884	
13,800.0	11,836.0	11,986.1	10,021.0	51.9	72.4	19.98	1,653.6	-162.3	1,932.3	1,875.3	57.04	33.874	
13,900.0	11,836.0	12,086.1	10,021.0	52.9	75.0	19.98	1,753.5	-163.3	1,932.3	1,873.6	58.73	32.902	
14,000.0	11,836.0	12,186.1	10,021.0	53.9	77.6	19.98	1,853.5	-164.3	1,932.3	1,871.9	60.45	31.966	
14,100.0	11,836.0	12,286.1	10,021.0	54.9	80.2	19.98	1,953.5	-165.3	1,932.3	1,870.1	62.20	31.067	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
14,200.0	11,836.0	12,386.1	10,021.0	55.9	82.9	19.98	2,053.5	-166.2	1,932.3	1,868.3	63.97	30.204	
14,300.0	11,836.0	12,486.1	10,021.0	57.0	85.6	19.98	2,153.5	-167.2	1,932.3	1,866.5	65.78	29.376	
14,400.0	11,836.0	12,586.1	10,021.0	58.1	88.3	19.98	2,253.5	-168.2	1,932.3	1,864.7	67.60	28.583	
14,500.0	11,836.0	12,686.1	10,021.0	59.3	91.1	19.98	2,353.5	-169.2	1,932.3	1,862.9	69.45	27.822	
14,600.0	11,836.0	12,786.1	10,021.0	60.4	93.8	19.98	2,453.5	-170.2	1,932.3	1,861.0	71.32	27.094	
14,700.0	11,836.0	12,886.1	10,021.0	61.6	96.6	19.98	2,553.5	-171.2	1,932.3	1,859.1	73.21	26.395	
14,800.0	11,836.0	12,986.1	10,021.0	62.8	99.4	19.98	2,653.5	-172.2	1,932.3	1,857.2	75.11	25.726	
14,900.0	11,836.0	13,086.1	10,021.0	64.0	102.2	19.98	2,753.5	-173.2	1,932.3	1,855.3	77.03	25.085	
15,000.0	11,836.0	13,186.1	10,021.0	65.3	105.1	19.98	2,853.5	-174.1	1,932.3	1,853.3	78.97	24.470	
15,100.0	11,836.0	13,286.1	10,021.0	66.5	107.9	19.98	2,953.5	-175.1	1,932.3	1,851.4	80.92	23.880	
15,200.0	11,836.0	13,386.1	10,021.0	67.8	110.8	19.98	3,053.5	-176.1	1,932.3	1,849.4	82.88	23.315	
15,300.0	11,836.0	13,486.1	10,021.0	69.1	113.7	19.98	3,153.5	-177.1	1,932.3	1,847.4	84.85	22.773	
15,400.0	11,836.0	13,586.1	10,021.0	70.4	116.6	19.98	3,253.5	-178.1	1,932.3	1,845.5	86.84	22.252	
15,500.0	11,836.0	13,686.1	10,021.0	71.7	119.4	19.98	3,353.5	-179.1	1,932.3	1,843.5	88.83	21.752	
15,600.0	11,836.0	13,786.1	10,021.0	73.1	122.3	19.98	3,453.5	-180.1	1,932.3	1,841.4	90.84	21.272	
15,700.0	11,836.0	13,886.1	10,021.0	74.4	125.3	19.98	3,553.5	-181.1	1,932.3	1,839.4	92.85	20.810	
15,800.0	11,836.0	13,986.1	10,021.0	75.8	128.2	19.98	3,653.5	-182.0	1,932.3	1,837.4	94.88	20.366	
15,900.0	11,836.0	14,086.1	10,021.0	77.2	131.1	19.98	3,753.5	-183.0	1,932.3	1,835.4	96.91	19.939	
16,000.0	11,836.0	14,186.1	10,021.0	78.5	134.0	19.98	3,853.4	-184.0	1,932.3	1,833.3	98.95	19.528	
16,100.0	11,836.0	14,286.1	10,021.0	79.9	137.0	19.98	3,953.4	-185.0	1,932.3	1,831.3	101.00	19.132	
16,200.0	11,836.0	14,386.1	10,021.0	81.3	139.9	19.98	4,053.4	-186.0	1,932.3	1,829.2	103.05	18.751	
16,300.0	11,836.0	14,486.1	10,021.0	82.7	142.9	19.98	4,153.4	-187.0	1,932.3	1,827.2	105.11	18.383	
16,400.0	11,836.0	14,586.1	10,021.0	84.2	145.8	19.98	4,253.4	-188.0	1,932.3	1,825.1	107.18	18.029	
16,500.0	11,836.0	14,686.1	10,021.0	85.6	148.8	19.98	4,353.4	-189.0	1,932.3	1,823.0	109.25	17.687	
16,600.0	11,836.0	14,786.1	10,021.0	87.0	151.7	19.98	4,453.4	-189.9	1,932.3	1,820.9	111.32	17.357	
16,700.0	11,836.0	14,886.1	10,021.0	88.5	154.7	19.98	4,553.4	-190.9	1,932.3	1,818.9	113.41	17.038	
16,800.0	11,836.0	14,986.1	10,021.0	89.9	157.7	19.98	4,653.4	-191.9	1,932.3	1,816.8	115.49	16.731	
16,900.0	11,836.0	15,086.1	10,021.0	91.4	160.7	19.98	4,753.4	-192.9	1,932.3	1,814.7	117.58	16.433	
17,000.0	11,836.0	15,186.1	10,021.0	92.8	163.7	19.98	4,853.4	-193.9	1,932.3	1,812.6	119.68	16.145	
17,100.0	11,836.0	15,286.1	10,021.0	94.3	166.6	19.98	4,953.4	-194.9	1,932.3	1,810.5	121.78	15.867	
17,200.0	11,836.0	15,386.1	10,021.0	95.8	169.6	19.98	5,053.4	-195.9	1,932.3	1,808.4	123.88	15.597	
17,300.0	11,836.0	15,486.1	10,021.0	97.3	172.6	19.98	5,153.4	-196.9	1,932.3	1,806.3	125.99	15.336	
17,400.0	11,836.0	15,586.1	10,021.0	98.8	175.6	19.98	5,253.4	-197.8	1,932.3	1,804.1	128.10	15.084	
17,500.0	11,836.0	15,686.1	10,021.0	100.3	178.6	19.98	5,353.4	-198.8	1,932.2	1,802.0	130.22	14.839	
17,600.0	11,836.0	15,786.1	10,021.0	101.8	181.6	19.98	5,453.4	-199.8	1,932.2	1,799.9	132.33	14.601	
17,700.0	11,836.0	15,886.1	10,021.0	103.3	184.6	19.98	5,553.4	-200.8	1,932.2	1,797.8	134.45	14.371	
17,800.0	11,836.0	15,986.1	10,021.0	104.8	187.6	19.98	5,653.4	-201.8	1,932.2	1,795.7	136.58	14.148	
17,900.0	11,836.0	16,086.1	10,021.0	106.3	190.6	19.98	5,753.4	-202.8	1,932.2	1,793.5	138.70	13.931	
18,000.0	11,836.0	16,186.1	10,021.0	107.8	193.6	19.97	5,853.3	-203.8	1,932.2	1,791.4	140.83	13.720	
18,100.0	11,836.0	16,286.1	10,021.0	109.3	196.6	19.97	5,953.3	-204.8	1,932.2	1,789.3	142.97	13.515	
18,200.0	11,836.0	16,386.1	10,021.0	110.8	199.6	19.97	6,053.3	-205.7	1,932.2	1,787.1	145.10	13.317	
18,300.0	11,836.0	16,486.1	10,021.0	112.4	202.7	19.97	6,153.3	-206.7	1,932.2	1,785.0	147.24	13.123	
18,400.0	11,836.0	16,586.1	10,021.0	113.9	205.7	19.97	6,253.3	-207.7	1,932.2	1,782.9	149.37	12.936	
18,500.0	11,836.0	16,686.1	10,021.0	115.4	208.7	19.97	6,353.3	-208.7	1,932.2	1,780.7	151.51	12.753	
18,600.0	11,836.0	16,786.1	10,021.0	117.0	211.7	19.97	6,453.3	-209.7	1,932.2	1,778.6	153.66	12.575	
18,700.0	11,836.0	16,886.1	10,021.0	118.5	214.7	19.97	6,553.3	-210.7	1,932.2	1,776.4	155.80	12.402	
18,800.0	11,836.0	16,986.1	10,021.0	120.1	217.8	19.97	6,653.3	-211.7	1,932.2	1,774.3	157.95	12.233	
18,900.0	11,836.0	17,086.1	10,021.0	121.6	220.8	19.97	6,753.3	-212.7	1,932.2	1,772.1	160.10	12.069	
19,000.0	11,836.0	17,186.1	10,021.0	123.2	223.8	19.97	6,853.3	-213.6	1,932.2	1,770.0	162.25	11.909	
19,100.0	11,836.0	17,286.1	10,021.0	124.7	226.8	19.97	6,953.3	-214.6	1,932.2	1,767.8	164.40	11.753	
19,200.0	11,836.0	17,386.1	10,021.0	126.3	229.9	19.97	7,053.3	-215.6	1,932.2	1,765.7	166.55	11.601	
19,300.0	11,836.0	17,486.1	10,021.0	127.8	232.9	19.97	7,153.3	-216.6	1,932.2	1,763.5	168.71	11.453	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
19,400.0	11,836.0	17,586.1	10,021.0	129.4	235.9	19.97	7,253.3	-217.6	1,932.2	1,761.4	170.86	11.309	
19,500.0	11,836.0	17,686.1	10,021.0	131.0	239.0	19.97	7,353.3	-218.6	1,932.2	1,759.2	173.02	11.168	
19,600.0	11,836.0	17,786.1	10,021.0	132.5	242.0	19.97	7,453.3	-219.6	1,932.2	1,757.0	175.18	11.030	
19,700.0	11,836.0	17,886.1	10,021.0	134.1	245.0	19.97	7,553.3	-220.6	1,932.2	1,754.9	177.34	10.896	
19,800.0	11,836.0	17,986.1	10,021.0	135.7	248.1	19.97	7,653.3	-221.5	1,932.2	1,752.7	179.50	10.764	
19,900.0	11,836.0	18,086.1	10,021.0	137.2	251.1	19.97	7,753.3	-222.5	1,932.2	1,750.5	181.66	10.636	
20,000.0	11,836.0	18,186.1	10,021.0	138.8	254.1	19.97	7,853.3	-223.5	1,932.2	1,748.4	183.83	10.511	
20,100.0	11,836.0	18,286.1	10,021.0	140.4	257.2	19.97	7,953.2	-224.5	1,932.2	1,746.2	185.99	10.389	
20,200.0	11,836.0	18,386.1	10,021.0	142.0	260.2	19.97	8,053.2	-225.5	1,932.2	1,744.0	188.16	10.269	
20,300.0	11,836.0	18,486.1	10,021.0	143.5	263.3	19.97	8,153.2	-226.5	1,932.2	1,741.9	190.33	10.152	
20,400.0	11,836.0	18,586.1	10,021.0	145.1	266.3	19.97	8,253.2	-227.5	1,932.2	1,739.7	192.49	10.038	
20,500.0	11,836.0	18,686.1	10,021.0	146.7	269.3	19.97	8,353.2	-228.5	1,932.2	1,737.5	194.66	9.926	
20,600.0	11,836.0	18,786.1	10,021.0	148.3	272.4	19.97	8,453.2	-229.4	1,932.2	1,735.4	196.83	9.816	
20,700.0	11,836.0	18,886.1	10,021.0	149.9	275.4	19.97	8,553.2	-230.4	1,932.2	1,733.2	199.00	9.709	
20,800.0	11,836.0	18,986.1	10,021.0	151.5	278.5	19.97	8,653.2	-231.4	1,932.2	1,731.0	201.18	9.604	
20,900.0	11,836.0	19,086.1	10,021.0	153.0	281.5	19.97	8,753.2	-232.4	1,932.2	1,728.8	203.35	9.502	
21,000.0	11,836.0	19,186.1	10,021.0	154.6	284.6	19.97	8,853.2	-233.4	1,932.2	1,726.7	205.52	9.401	
21,100.0	11,836.0	19,286.1	10,021.0	156.2	287.6	19.97	8,953.2	-234.4	1,932.2	1,724.5	207.70	9.303	
21,200.0	11,836.0	19,386.1	10,021.0	157.8	290.6	19.97	9,053.2	-235.4	1,932.2	1,722.3	209.87	9.206	
21,300.0	11,836.0	19,486.1	10,021.0	159.4	293.7	19.97	9,153.2	-236.4	1,932.2	1,720.1	212.05	9.112	
21,400.0	11,836.0	19,586.1	10,021.0	161.0	296.7	19.97	9,253.2	-237.3	1,932.2	1,718.0	214.23	9.019	
21,500.0	11,836.0	19,686.1	10,021.0	162.6	299.8	19.97	9,353.2	-238.3	1,932.2	1,715.8	216.40	8.929	
21,600.0	11,836.0	19,786.1	10,021.0	164.2	302.8	19.97	9,453.2	-239.3	1,932.2	1,713.6	218.58	8.840	
21,700.0	11,836.0	19,886.1	10,021.0	165.8	305.9	19.97	9,553.2	-240.3	1,932.2	1,711.4	220.76	8.752	
21,800.0	11,836.0	19,986.1	10,021.0	167.4	308.9	19.97	9,653.2	-241.3	1,932.2	1,709.2	222.94	8.667	
21,900.0	11,836.0	20,086.1	10,021.0	169.0	312.0	19.97	9,753.2	-242.3	1,932.2	1,707.0	225.12	8.583	
22,000.0	11,836.0	20,186.1	10,021.0	170.6	315.0	19.97	9,853.2	-243.3	1,932.2	1,704.9	227.30	8.500	
22,100.0	11,836.0	20,286.1	10,021.0	172.2	318.1	19.97	9,953.1	-244.3	1,932.2	1,702.7	229.48	8.420	
22,108.6	11,836.0	20,294.7	10,021.0	172.3	318.4	19.97	9,961.8	-244.3	1,932.2	1,702.5	229.67	8.413	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	1.0	-1.0	0.0	0.0	-45.38	29.8	-30.2	42.4				
100.0	100.0	101.0	99.0	0.1	0.1	-45.38	29.8	-30.2	42.4	42.2	0.26	163.286	
200.0	200.0	201.0	199.0	0.5	0.5	-45.38	29.8	-30.2	42.4	41.5	0.98	43.443	
300.0	300.0	301.0	299.0	0.8	0.8	-45.38	29.8	-30.2	42.4	40.7	1.69	25.054	
400.0	400.0	401.0	399.0	1.2	1.2	-45.38	29.8	-30.2	42.4	40.0	2.41	17.603	
500.0	500.0	501.0	499.0	1.6	1.6	-45.38	29.8	-30.2	42.4	39.3	3.13	13.568	
600.0	600.0	601.0	599.0	1.9	1.9	-45.38	29.8	-30.2	42.4	38.6	3.84	11.038	
700.0	700.0	701.0	699.0	2.3	2.3	-45.38	29.8	-30.2	42.4	37.9	4.56	9.303	
800.0	800.0	801.0	799.0	2.6	2.6	-45.38	29.8	-30.2	42.4	37.2	5.28	8.040	
900.0	900.0	901.0	899.0	3.0	3.0	-45.38	29.8	-30.2	42.4	36.4	6.00	7.078	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-45.38	29.8	-30.2	42.4	35.7	6.71	6.322	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-45.38	29.8	-30.2	42.4	35.0	7.43	5.712	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-45.38	29.8	-30.2	42.4	34.3	8.15	5.209	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-45.38	29.8	-30.2	42.4	33.6	8.86	4.788	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	-45.38	29.8	-30.2	42.4	32.9	9.58	4.430	
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	-45.38	29.8	-30.2	42.4	32.1	10.30	4.121	
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	77.68	29.8	-30.2	42.2	31.2	11.00	3.840	
1,700.0	1,700.0	1,701.0	1,699.0	5.8	5.9	81.20	29.8	-30.2	41.8	30.1	11.69	3.572	
1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	87.18	29.8	-30.2	41.3	28.9	12.39	3.335	
1,836.6	1,836.4	1,835.4	1,835.4	6.3	6.3	90.00	29.8	-30.2	41.3	28.6	12.64	3.266	CC
1,900.0	1,899.7	1,901.3	1,898.7	6.5	6.6	95.62	29.8	-30.2	41.5	28.4	13.09	3.168	ES
2,000.0	1,999.4	1,998.4	1,998.4	6.9	6.9	106.05	29.8	-30.2	43.0	29.2	13.78	3.116	SF
2,100.0	2,098.9	2,098.6	2,098.6	7.2	7.3	117.08	29.0	-30.5	45.8	31.3	14.47	3.161	
2,200.0	2,198.3	2,199.0	2,198.9	7.6	7.6	127.72	26.5	-31.2	49.4	34.2	15.15	3.260	
2,300.0	2,297.4	2,299.4	2,299.2	7.9	7.9	137.83	22.4	-32.6	54.0	38.1	15.82	3.412	
2,400.0	2,396.4	2,399.8	2,399.5	8.3	8.3	146.85	16.5	-34.4	58.9	42.5	16.48	3.576	
2,500.0	2,495.5	2,500.4	2,499.8	8.7	8.6	154.73	9.0	-36.8	63.4	46.3	17.15	3.699	
2,600.0	2,594.5	2,601.1	2,600.0	9.1	8.9	162.01	-0.2	-39.7	67.3	49.5	17.82	3.778	
2,700.0	2,693.5	2,701.8	2,700.0	9.4	9.3	169.11	-11.1	-43.1	70.6	52.1	18.50	3.819	
2,800.0	2,792.5	2,802.4	2,799.8	9.8	9.6	176.27	-23.7	-47.1	73.5	54.3	19.18	3.831	
2,900.0	2,891.6	2,901.9	2,898.3	10.2	10.0	-176.83	-36.9	-51.2	76.8	56.9	19.90	3.857	
3,000.0	2,990.6	3,001.4	2,996.9	10.6	10.4	-170.59	-50.1	-55.4	81.1	60.4	20.64	3.929	
3,100.0	3,089.6	3,101.0	3,095.4	11.0	10.7	-165.02	-63.3	-59.6	86.3	64.9	21.38	4.034	
3,200.0	3,188.6	3,200.5	3,194.0	11.4	11.1	-160.12	-76.5	-63.7	92.2	70.0	22.14	4.162	
3,300.0	3,287.7	3,300.0	3,292.6	11.8	11.5	-155.84	-89.7	-67.9	98.6	75.7	22.91	4.306	
3,400.0	3,386.7	3,400.4	3,391.1	12.2	11.9	-152.10	-102.9	-72.1	105.6	81.9	23.68	4.460	
3,500.0	3,485.7	3,500.9	3,489.7	12.6	12.2	-148.83	-116.2	-76.2	113.0	88.5	24.47	4.618	
3,600.0	3,584.8	3,601.4	3,588.3	13.0	12.6	-145.97	-129.4	-80.4	120.7	95.4	25.25	4.778	
3,700.0	3,683.8	3,701.8	3,686.8	13.4	13.0	-143.46	-142.6	-84.6	128.6	102.6	26.05	4.938	
3,800.0	3,782.8	3,802.3	3,785.4	13.8	13.4	-141.24	-155.8	-88.7	136.8	110.0	26.84	5.096	
3,900.0	3,881.8	3,902.8	3,884.0	14.2	13.8	-139.27	-169.0	-92.9	145.1	117.5	27.64	5.251	
4,000.0	3,980.9	4,003.2	3,982.5	14.6	14.2	-137.52	-182.2	-97.1	153.6	125.2	28.44	5.402	
4,100.0	4,079.9	4,103.7	4,081.1	15.0	14.6	-135.96	-195.4	-101.2	162.3	133.0	29.24	5.549	
4,200.0	4,178.9	4,204.2	4,179.7	15.5	15.0	-134.55	-208.6	-105.4	171.0	141.0	30.05	5.691	
4,300.0	4,277.9	4,304.6	4,278.2	15.9	15.4	-133.28	-221.8	-109.6	179.8	149.0	30.86	5.829	
4,400.0	4,377.0	4,405.1	4,376.8	16.3	15.8	-132.13	-235.1	-113.7	188.8	157.1	31.66	5.961	
4,500.0	4,476.0	4,505.6	4,475.4	16.7	16.2	-131.08	-248.3	-117.9	197.7	165.3	32.47	6.089	
4,600.0	4,575.0	4,606.0	4,573.9	17.1	16.6	-130.13	-261.5	-122.1	206.8	173.5	33.29	6.212	
4,700.0	4,674.0	4,693.5	4,672.5	17.5	16.9	-129.25	-274.7	-126.2	215.9	181.8	34.05	6.340	
4,800.0	4,773.1	4,806.9	4,771.1	17.9	17.4	-128.45	-287.9	-130.4	225.0	190.1	34.91	6.444	
4,900.0	4,872.1	4,907.4	4,869.6	18.3	17.8	-127.70	-301.1	-134.6	234.2	198.4	35.73	6.554	
5,000.0	4,971.1	5,007.9	4,968.2	18.8	18.2	-127.02	-314.3	-138.7	243.4	206.8	36.54	6.660	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
5,100.0	5,070.2	5,108.3	5,066.8	19.2	18.6	-126.38	-327.5	-142.9	252.6	215.3	37.36	6.762	
5,200.0	5,169.2	5,208.8	5,165.3	19.6	19.0	-125.79	-340.7	-147.1	261.9	223.7	38.18	6.860	
5,300.0	5,268.2	5,290.7	5,263.9	20.0	19.4	-125.24	-354.0	-151.2	271.2	232.3	38.92	6.968	
5,400.0	5,367.2	5,409.7	5,362.4	20.4	19.9	-124.73	-367.2	-155.4	280.5	240.7	39.82	7.045	
5,500.0	5,466.3	5,489.8	5,461.0	20.8	20.2	-124.25	-380.4	-159.6	289.9	249.3	40.56	7.147	
5,600.0	5,565.3	5,589.3	5,559.6	21.3	20.6	-123.80	-393.6	-163.7	299.2	257.9	41.37	7.233	
5,700.0	5,664.3	5,688.9	5,658.1	21.7	21.0	-123.37	-406.8	-167.9	308.6	266.4	42.19	7.315	
5,800.0	5,763.3	5,788.4	5,756.7	22.1	21.4	-122.97	-420.0	-172.1	318.0	275.0	43.01	7.394	
5,900.0	5,862.4	5,887.9	5,855.3	22.5	21.8	-122.60	-433.2	-176.2	327.4	283.6	43.83	7.470	
6,000.0	5,961.4	5,987.5	5,953.8	22.9	22.2	-122.24	-446.4	-180.4	336.8	292.2	44.65	7.544	
6,100.0	6,060.4	6,087.0	6,052.4	23.3	22.6	-121.91	-459.6	-184.6	346.3	300.8	45.47	7.616	
6,200.0	6,159.4	6,187.7	6,152.3	23.8	23.1	-121.74	-472.1	-188.5	355.6	309.3	46.29	7.681	
6,300.0	6,258.5	6,288.7	6,252.7	24.2	23.5	-122.00	-482.1	-191.6	364.5	317.4	47.09	7.740	
6,400.0	6,357.5	6,389.6	6,353.3	24.6	23.8	-122.65	-489.5	-194.0	373.1	325.2	47.87	7.793	
6,500.0	6,456.5	6,490.3	6,453.9	25.0	24.2	-123.66	-494.4	-195.5	381.4	332.7	48.62	7.844	
6,600.0	6,555.6	6,590.6	6,554.1	25.4	24.5	-125.02	-496.8	-196.3	389.5	340.2	49.34	7.895	
6,700.0	6,654.6	6,710.0	6,653.6	25.9	24.9	-126.62	-497.0	-196.4	397.7	347.7	50.08	7.942	
6,800.0	6,753.6	6,789.1	6,752.6	26.3	25.2	-128.19	-497.0	-196.4	406.3	355.6	50.68	8.016	
6,900.0	6,852.6	6,888.1	6,851.6	26.7	25.5	-129.69	-497.0	-196.4	415.1	363.7	51.34	8.085	
7,000.0	6,951.7	6,987.1	6,950.7	27.1	25.8	-131.13	-497.0	-196.4	424.1	372.1	52.00	8.157	
7,100.0	7,050.7	7,086.1	7,049.7	27.5	26.1	-132.50	-497.0	-196.4	433.5	380.8	52.65	8.232	
7,200.0	7,149.7	7,185.2	7,148.7	28.0	26.4	-133.82	-497.0	-196.4	443.0	389.7	53.31	8.310	
7,300.0	7,248.7	7,284.2	7,247.7	28.4	26.8	-135.09	-497.0	-196.4	452.8	398.9	53.97	8.391	
7,400.0	7,347.8	7,383.2	7,346.8	28.8	27.1	-136.30	-497.0	-196.4	462.8	408.2	54.62	8.473	
7,500.0	7,446.8	7,482.3	7,445.8	29.2	27.4	-137.46	-497.0	-196.4	473.0	417.8	55.28	8.557	
7,600.0	7,545.8	7,581.3	7,544.8	29.6	27.7	-138.57	-497.0	-196.4	483.4	427.5	55.94	8.642	
7,700.0	7,644.9	7,680.3	7,643.9	30.1	28.0	-139.63	-497.0	-196.4	494.0	437.4	56.59	8.729	
7,800.0	7,743.9	7,779.3	7,742.9	30.5	28.4	-140.65	-497.0	-196.4	504.7	447.5	57.25	8.816	
7,900.0	7,842.9	7,878.4	7,841.9	30.9	28.7	-141.63	-497.0	-196.4	515.6	457.7	57.91	8.903	
8,000.0	7,941.9	7,977.4	7,940.9	31.3	29.0	-142.57	-497.0	-196.4	526.6	468.0	58.57	8.991	
8,100.0	8,041.0	8,076.4	8,040.0	31.7	29.3	-143.46	-497.0	-196.4	537.8	478.5	59.23	9.079	
8,200.0	8,140.0	8,175.4	8,139.0	32.2	29.6	-144.33	-497.0	-196.4	549.1	489.2	59.90	9.167	
8,300.0	8,239.0	8,274.5	8,238.0	32.6	30.0	-145.15	-497.0	-196.4	560.5	499.9	60.56	9.255	
8,400.0	8,338.0	8,373.5	8,337.0	33.0	30.3	-145.95	-497.0	-196.4	572.0	510.7	61.23	9.342	
8,415.6	8,353.5	8,388.9	8,352.5	33.1	30.3	-146.07	-497.0	-196.4	573.8	512.4	61.33	9.356	
8,500.0	8,437.2	8,472.6	8,436.2	33.4	30.6	-146.74	-497.0	-196.4	582.8	520.9	61.89	9.417	
8,600.0	8,536.6	8,572.1	8,535.6	33.8	31.0	-147.36	-497.0	-196.4	591.6	529.0	62.56	9.456	
8,700.0	8,636.3	8,671.8	8,635.3	34.2	31.3	-147.82	-497.0	-196.4	598.2	534.9	63.23	9.460	
8,800.0	8,736.2	8,771.6	8,735.2	34.6	31.6	-148.12	-497.0	-196.4	602.6	538.7	63.91	9.429	
8,900.0	8,836.2	8,871.6	8,835.2	34.9	31.9	-148.26	-497.0	-196.4	604.8	540.2	64.58	9.365	
8,948.9	8,885.1	8,920.5	8,884.1	35.0	32.1	89.81	-497.0	-196.4	605.1	540.2	64.90	9.322	
9,000.0	8,936.2	8,971.6	8,935.2	35.2	32.3	89.81	-497.0	-196.4	605.1	539.8	65.24	9.275	
9,100.0	9,036.2	9,071.6	9,035.2	35.5	32.6	89.81	-497.0	-196.4	605.1	539.2	65.89	9.183	
9,200.0	9,136.2	9,171.6	9,135.2	35.8	32.9	89.81	-497.0	-196.4	605.1	538.5	66.55	9.092	
9,300.0	9,236.2	9,271.6	9,235.2	36.1	33.3	89.81	-497.0	-196.4	605.1	537.9	67.20	9.003	
9,400.0	9,336.2	9,371.6	9,335.2	36.4	33.6	89.81	-497.0	-196.4	605.1	537.2	67.86	8.916	
9,500.0	9,436.2	9,471.6	9,435.2	36.7	34.0	89.81	-497.0	-196.4	605.1	536.5	68.52	8.830	
9,600.0	9,536.2	9,571.6	9,535.2	37.0	34.3	89.81	-497.0	-196.4	605.1	535.9	69.18	8.746	
9,700.0	9,636.2	9,671.6	9,635.2	37.4	34.6	89.81	-497.0	-196.4	605.1	535.2	69.84	8.663	
9,800.0	9,736.2	9,771.6	9,735.2	37.7	35.0	89.81	-497.0	-196.4	605.1	534.6	70.51	8.582	
9,900.0	9,836.2	9,871.6	9,835.2	38.0	35.3	89.81	-497.0	-196.4	605.1	533.9	71.17	8.502	
10,000.0	9,936.2	9,971.6	9,935.2	38.3	35.6	89.81	-497.0	-196.4	605.1	533.2	71.83	8.423	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	10,036.2	10,071.6	10,035.2	38.6	36.0	89.81	-497.0	-196.4	605.1	532.6	72.50	8.346	
10,200.0	10,136.2	10,171.6	10,135.2	38.9	36.3	89.81	-497.0	-196.4	605.1	531.9	73.17	8.270	
10,207.6	10,143.8	10,179.2	10,142.8	38.9	36.3	89.81	-497.0	-196.4	605.1	531.8	73.22	8.264	
10,300.0	10,236.2	10,267.2	10,230.7	39.2	36.6	89.60	-494.8	-196.2	605.3	531.5	73.77	8.204	
10,400.0	10,336.2	10,356.7	10,318.8	39.5	36.9	88.21	-480.0	-195.0	606.9	532.7	74.20	8.179	
10,500.0	10,436.2	10,439.7	10,397.6	39.9	37.1	85.79	-454.2	-193.1	611.2	536.8	74.39	8.215	
10,600.0	10,536.2	10,514.0	10,464.3	40.2	37.2	82.79	-421.7	-190.6	619.8	545.5	74.24	8.349	
10,700.0	10,636.2	10,578.7	10,518.6	40.5	37.3	79.62	-386.6	-187.9	634.6	561.0	73.59	8.623	
10,800.0	10,736.2	10,634.3	10,561.7	40.8	37.4	76.56	-351.7	-185.2	656.9	584.5	72.37	9.077	
10,900.0	10,836.2	10,681.6	10,595.7	41.1	37.5	73.77	-318.8	-182.6	687.5	616.9	70.56	9.743	
11,000.0	10,936.2	10,722.0	10,622.4	41.5	37.5	71.30	-288.7	-180.3	726.5	658.2	68.28	10.639	
11,100.0	11,036.2	10,750.0	10,639.7	41.8	37.6	69.55	-266.7	-178.6	773.4	707.9	65.51	11.807	
11,200.0	11,136.2	10,786.0	10,660.3	42.1	37.6	67.28	-237.2	-176.4	827.5	764.5	62.98	13.138	
11,300.0	11,236.2	10,811.5	10,673.7	42.4	37.6	65.67	-215.6	-174.7	887.9	827.6	60.29	14.727	
11,326.8	11,263.0	10,817.8	10,676.9	42.5	37.6	65.28	-210.2	-174.3	905.0	845.4	59.58	15.190	
11,350.0	11,286.1	10,823.2	10,679.5	42.6	37.6	63.74	-205.5	-173.9	920.0	861.0	58.98	15.598	
11,400.0	11,336.0	10,835.5	10,685.4	42.7	37.7	59.39	-194.8	-173.1	952.1	894.4	57.71	16.496	
11,450.0	11,385.2	10,850.0	10,692.1	42.9	37.7	55.27	-181.9	-172.1	983.6	927.1	56.54	17.398	
11,500.0	11,433.5	10,850.0	10,692.1	43.0	37.7	52.10	-181.9	-172.1	1,014.5	959.6	54.98	18.452	
11,550.0	11,480.6	10,876.5	10,703.4	43.1	37.7	48.34	-158.1	-170.3	1,044.1	989.9	54.20	19.262	
11,600.0	11,525.9	10,900.0	10,712.6	43.2	37.7	45.17	-136.5	-168.6	1,072.6	1,019.2	53.36	20.100	
11,650.0	11,569.3	10,900.0	10,712.6	43.3	37.7	42.95	-136.5	-168.6	1,099.5	1,047.5	51.98	21.151	
11,700.0	11,610.3	10,922.0	10,720.3	43.3	37.7	40.57	-115.9	-167.0	1,124.7	1,073.5	51.20	21.968	
11,750.0	11,648.7	10,950.0	10,728.9	43.4	37.8	38.46	-89.4	-165.0	1,148.4	1,097.8	50.59	22.702	
11,800.0	11,684.2	10,950.0	10,728.9	43.4	37.8	37.01	-89.4	-165.0	1,169.9	1,120.4	49.48	23.645	
11,850.0	11,716.4	10,970.6	10,734.5	43.4	37.8	35.55	-69.6	-163.5	1,189.4	1,140.6	48.86	24.343	
11,900.0	11,745.2	11,000.0	10,741.2	43.4	37.8	34.28	-41.0	-161.3	1,207.1	1,158.6	48.46	24.910	
11,950.0	11,770.4	11,000.0	10,741.2	43.4	37.8	33.40	-41.0	-161.3	1,222.2	1,174.5	47.73	25.609	
12,000.0	11,791.6	11,021.1	10,745.0	43.4	37.9	32.59	-20.4	-159.7	1,235.2	1,187.8	47.40	26.057	
12,050.0	11,808.9	11,050.0	10,749.1	43.4	37.9	31.97	8.2	-157.5	1,246.0	1,198.7	47.25	26.372	
12,100.0	11,822.0	11,050.0	10,749.1	43.3	37.9	31.54	8.2	-157.5	1,254.1	1,207.2	46.98	26.694	
12,150.0	11,830.8	11,072.5	10,751.3	43.3	37.9	31.25	30.5	-155.8	1,260.0	1,213.0	47.01	26.801	
12,200.0	11,835.3	11,100.0	10,752.7	43.3	38.0	31.15	57.9	-153.7	1,263.6	1,216.4	47.16	26.794	
12,226.8	11,836.0	11,100.0	10,752.7	43.3	38.0	31.12	57.9	-153.7	1,264.3	1,217.0	47.27	26.748	
12,299.9	11,836.0	11,150.4	10,753.0	43.2	38.0	31.28	108.1	-150.1	1,266.8	1,219.2	47.66	26.578	
12,400.0	11,836.0	11,303.9	10,753.0	43.2	38.4	31.45	253.7	-147.0	1,268.4	1,220.3	48.05	26.395	
12,500.0	11,836.0	11,403.9	10,753.0	43.3	38.7	31.45	353.7	-148.0	1,268.4	1,219.9	48.50	26.151	
12,600.0	11,836.0	11,503.9	10,753.0	43.6	39.0	31.45	453.7	-149.0	1,268.4	1,219.3	49.04	25.861	
12,700.0	11,836.0	11,603.9	10,753.0	44.0	39.5	31.45	553.7	-150.0	1,268.3	1,218.7	49.68	25.532	
12,800.0	11,836.0	11,703.9	10,753.0	44.5	40.0	31.45	653.7	-151.0	1,268.3	1,217.9	50.40	25.167	
12,900.0	11,836.0	11,803.9	10,753.0	45.0	40.5	31.45	753.7	-152.0	1,268.3	1,217.1	51.20	24.772	
13,000.0	11,836.0	11,903.9	10,753.0	45.6	41.2	31.45	853.7	-153.0	1,268.3	1,216.2	52.08	24.352	
13,100.0	11,836.0	12,003.9	10,753.0	46.2	41.9	31.45	953.7	-154.0	1,268.3	1,215.3	53.04	23.912	
13,200.0	11,836.0	12,096.1	10,753.0	46.9	42.5	31.45	1,053.7	-155.0	1,268.3	1,214.3	54.02	23.477	
13,300.0	11,836.0	12,203.9	10,753.0	47.6	43.4	31.45	1,153.7	-156.0	1,268.3	1,213.1	55.16	22.991	
13,400.0	11,836.0	12,303.9	10,753.0	48.4	44.2	31.45	1,253.7	-157.0	1,268.3	1,211.9	56.32	22.517	
13,500.0	11,836.0	12,403.9	10,753.0	49.2	45.1	31.44	1,353.7	-158.0	1,268.3	1,210.7	57.54	22.040	
13,600.0	11,836.0	12,503.9	10,753.0	50.1	46.0	31.44	1,453.7	-159.0	1,268.2	1,209.4	58.82	21.562	
13,700.0	11,836.0	12,603.9	10,753.0	51.0	47.0	31.44	1,553.7	-160.0	1,268.2	1,208.1	60.15	21.086	
13,800.0	11,836.0	12,703.9	10,753.0	51.9	48.0	31.44	1,653.7	-161.0	1,268.2	1,206.7	61.52	20.614	
13,900.0	11,836.0	12,803.9	10,753.0	52.9	49.0	31.44	1,753.7	-162.0	1,268.2	1,205.3	62.95	20.148	
14,000.0	11,836.0	12,903.9	10,753.0	53.9	50.1	31.44	1,853.7	-163.0	1,268.2	1,203.8	64.41	19.689	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
14,100.0	11,836.0	13,003.9	10,753.0	54.9	51.2	31.44	1,953.6	-164.0	1,268.2	1,202.3	65.92	19.240	
14,200.0	11,836.0	13,103.9	10,753.0	55.9	52.3	31.44	2,053.6	-165.0	1,268.2	1,200.7	67.46	18.800	
14,300.0	11,836.0	13,203.9	10,753.0	57.0	53.5	31.44	2,153.6	-166.1	1,268.2	1,199.1	69.03	18.370	
14,400.0	11,836.0	13,303.9	10,753.0	58.1	54.7	31.44	2,253.6	-167.1	1,268.2	1,197.5	70.64	17.951	
14,500.0	11,836.0	13,403.9	10,753.0	59.3	55.9	31.44	2,353.6	-168.1	1,268.1	1,195.9	72.28	17.544	
14,600.0	11,836.0	13,503.9	10,753.0	60.4	57.1	31.44	2,453.6	-169.1	1,268.1	1,194.2	73.95	17.148	
14,700.0	11,836.0	13,603.9	10,753.0	61.6	58.4	31.44	2,553.6	-170.1	1,268.1	1,192.5	75.64	16.764	
14,800.0	11,836.0	13,703.9	10,753.0	62.8	59.6	31.43	2,653.6	-171.1	1,268.1	1,190.8	77.36	16.392	
14,900.0	11,836.0	13,803.9	10,753.0	64.0	60.9	31.43	2,753.6	-172.1	1,268.1	1,189.0	79.11	16.031	
15,000.0	11,836.0	13,903.9	10,753.0	65.3	62.2	31.43	2,853.6	-173.1	1,268.1	1,187.2	80.87	15.681	
15,100.0	11,836.0	14,003.9	10,753.0	66.5	63.6	31.43	2,953.6	-174.1	1,268.1	1,185.4	82.65	15.342	
15,200.0	11,836.0	14,103.9	10,753.0	67.8	64.9	31.43	3,053.6	-175.1	1,268.1	1,183.6	84.45	15.015	
15,300.0	11,836.0	14,203.9	10,753.0	69.1	66.2	31.43	3,153.6	-176.1	1,268.1	1,181.8	86.27	14.698	
15,400.0	11,836.0	14,303.9	10,753.0	70.4	67.6	31.43	3,253.6	-177.1	1,268.1	1,179.9	88.11	14.391	
15,500.0	11,836.0	14,403.9	10,753.0	71.7	69.0	31.43	3,353.6	-178.1	1,268.0	1,178.1	89.96	14.095	
15,600.0	11,836.0	14,503.9	10,753.0	73.1	70.4	31.43	3,453.6	-179.1	1,268.0	1,176.2	91.83	13.808	
15,700.0	11,836.0	14,603.9	10,753.0	74.4	71.8	31.43	3,553.6	-180.1	1,268.0	1,174.3	93.71	13.531	
15,800.0	11,836.0	14,703.9	10,753.0	75.8	73.2	31.43	3,653.6	-181.1	1,268.0	1,172.4	95.60	13.263	
15,900.0	11,836.0	14,803.9	10,753.0	77.2	74.6	31.43	3,753.6	-182.1	1,268.0	1,170.5	97.51	13.004	
16,000.0	11,836.0	14,903.9	10,753.0	78.5	76.1	31.43	3,853.6	-183.1	1,268.0	1,168.6	99.43	12.753	
16,100.0	11,836.0	15,003.9	10,753.0	79.9	77.5	31.42	3,953.5	-184.1	1,268.0	1,166.6	101.35	12.510	
16,200.0	11,836.0	15,096.1	10,753.0	81.3	78.8	31.42	4,053.5	-185.1	1,268.0	1,164.7	103.22	12.285	
16,300.0	11,836.0	15,203.9	10,753.0	82.7	80.4	31.42	4,153.5	-186.1	1,268.0	1,162.7	105.24	12.048	
16,400.0	11,836.0	15,303.9	10,753.0	84.2	81.9	31.42	4,253.5	-187.1	1,267.9	1,160.7	107.20	11.828	
16,500.0	11,836.0	15,403.9	10,753.0	85.6	83.3	31.42	4,353.5	-188.1	1,267.9	1,158.8	109.16	11.615	
16,600.0	11,836.0	15,503.9	10,753.0	87.0	84.8	31.42	4,453.5	-189.1	1,267.9	1,156.8	111.14	11.409	
16,700.0	11,836.0	15,603.9	10,753.0	88.5	86.3	31.42	4,553.5	-190.1	1,267.9	1,154.8	113.12	11.209	
16,800.0	11,836.0	15,703.9	10,753.0	89.9	87.8	31.42	4,653.5	-191.1	1,267.9	1,152.8	115.11	11.015	
16,900.0	11,836.0	15,803.9	10,753.0	91.4	89.3	31.42	4,753.5	-192.1	1,267.9	1,150.8	117.10	10.827	
17,000.0	11,836.0	15,903.9	10,753.0	92.8	90.8	31.42	4,853.5	-193.1	1,267.9	1,148.8	119.11	10.645	
17,100.0	11,836.0	16,003.9	10,753.0	94.3	92.3	31.42	4,953.5	-194.1	1,267.9	1,146.8	121.11	10.468	
17,200.0	11,836.0	16,103.9	10,753.0	95.8	93.8	31.42	5,053.5	-195.1	1,267.9	1,144.7	123.13	10.297	
17,300.0	11,836.0	16,203.9	10,753.0	97.3	95.3	31.41	5,153.5	-196.1	1,267.8	1,142.7	125.15	10.131	
17,400.0	11,836.0	16,303.9	10,753.0	98.8	96.9	31.41	5,253.5	-197.1	1,267.8	1,140.7	127.18	9.969	
17,500.0	11,836.0	16,403.9	10,753.0	100.3	98.4	31.41	5,353.5	-198.1	1,267.8	1,138.6	129.21	9.812	
17,600.0	11,836.0	16,503.9	10,753.0	101.8	99.9	31.41	5,453.5	-199.1	1,267.8	1,136.6	131.24	9.660	
17,700.0	11,836.0	16,603.9	10,753.0	103.3	101.5	31.41	5,553.5	-200.1	1,267.8	1,134.5	133.28	9.512	
17,800.0	11,836.0	16,703.9	10,753.0	104.8	103.0	31.41	5,653.5	-201.1	1,267.8	1,132.5	135.33	9.368	
17,900.0	11,836.0	16,803.9	10,753.0	106.3	104.5	31.41	5,753.5	-202.1	1,267.8	1,130.4	137.38	9.229	
18,000.0	11,836.0	16,903.9	10,753.0	107.8	106.1	31.41	5,853.5	-203.1	1,267.8	1,128.3	139.43	9.093	
18,100.0	11,836.0	17,003.9	10,753.0	109.3	107.6	31.41	5,953.4	-204.2	1,267.8	1,126.3	141.49	8.960	
18,200.0	11,836.0	17,103.9	10,753.0	110.8	109.2	31.41	6,053.4	-205.2	1,267.8	1,124.2	143.55	8.832	
18,300.0	11,836.0	17,203.9	10,753.0	112.4	110.7	31.41	6,153.4	-206.2	1,267.7	1,122.1	145.61	8.706	
18,400.0	11,836.0	17,303.9	10,753.0	113.9	112.3	31.41	6,253.4	-207.2	1,267.7	1,120.0	147.68	8.584	
18,500.0	11,836.0	17,403.9	10,753.0	115.4	113.9	31.41	6,353.4	-208.2	1,267.7	1,118.0	149.75	8.466	
18,600.0	11,836.0	17,503.9	10,753.0	117.0	115.4	31.40	6,453.4	-209.2	1,267.7	1,115.9	151.83	8.350	
18,700.0	11,836.0	17,603.9	10,753.0	118.5	117.0	31.40	6,553.4	-210.2	1,267.7	1,113.8	153.90	8.237	
18,800.0	11,836.0	17,703.9	10,753.0	120.1	118.6	31.40	6,653.4	-211.2	1,267.7	1,111.7	155.98	8.127	
18,900.0	11,836.0	17,803.9	10,753.0	121.6	120.1	31.40	6,753.4	-212.2	1,267.7	1,109.6	158.07	8.020	
19,000.0	11,836.0	17,903.9	10,753.0	123.2	121.7	31.40	6,853.4	-213.2	1,267.7	1,107.5	160.15	7.915	
19,100.0	11,836.0	18,003.9	10,753.0	124.7	123.3	31.40	6,953.4	-214.2	1,267.7	1,105.4	162.24	7.813	
19,200.0	11,836.0	18,103.9	10,753.0	126.3	124.9	31.40	7,053.4	-215.2	1,267.6	1,103.3	164.33	7.714	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
19,300.0	11,836.0	18,203.9	10,753.0	127.8	126.4	31.40	7,153.4	-216.2	1,267.6	1,101.2	166.42	7.617	
19,400.0	11,836.0	18,303.9	10,753.0	129.4	128.0	31.40	7,253.4	-217.2	1,267.6	1,099.1	168.52	7.522	
19,500.0	11,836.0	18,403.9	10,753.0	131.0	129.6	31.40	7,353.4	-218.2	1,267.6	1,097.0	170.62	7.430	
19,600.0	11,836.0	18,503.9	10,753.0	132.5	131.2	31.40	7,453.4	-219.2	1,267.6	1,094.9	172.71	7.339	
19,700.0	11,836.0	18,603.9	10,753.0	134.1	132.8	31.40	7,553.4	-220.2	1,267.6	1,092.8	174.82	7.251	
19,800.0	11,836.0	18,703.9	10,753.0	135.7	134.4	31.40	7,653.4	-221.2	1,267.6	1,090.7	176.92	7.165	
19,900.0	11,836.0	18,803.9	10,753.0	137.2	135.9	31.39	7,753.4	-222.2	1,267.6	1,088.5	179.02	7.080	
20,000.0	11,836.0	18,903.9	10,753.0	138.8	137.5	31.39	7,853.4	-223.2	1,267.6	1,086.4	181.13	6.998	
20,100.0	11,836.0	19,003.9	10,753.0	140.4	139.1	31.39	7,953.3	-224.2	1,267.5	1,084.3	183.24	6.917	
20,200.0	11,836.0	19,103.9	10,753.0	142.0	140.7	31.39	8,053.3	-225.2	1,267.5	1,082.2	185.35	6.839	
20,300.0	11,836.0	19,203.9	10,753.0	143.5	142.3	31.39	8,153.3	-226.2	1,267.5	1,080.1	187.46	6.761	
20,400.0	11,836.0	19,303.9	10,753.0	145.1	143.9	31.39	8,253.3	-227.2	1,267.5	1,077.9	189.58	6.686	
20,500.0	11,836.0	19,403.9	10,753.0	146.7	145.5	31.39	8,353.3	-228.2	1,267.5	1,075.8	191.69	6.612	
20,600.0	11,836.0	19,503.9	10,753.0	148.3	147.1	31.39	8,453.3	-229.2	1,267.5	1,073.7	193.81	6.540	
20,700.0	11,836.0	19,603.9	10,753.0	149.9	148.7	31.39	8,553.3	-230.2	1,267.5	1,071.6	195.93	6.469	
20,800.0	11,836.0	19,703.9	10,753.0	151.5	150.3	31.39	8,653.3	-231.2	1,267.5	1,069.4	198.05	6.400	
20,900.0	11,836.0	19,803.9	10,753.0	153.0	151.9	31.39	8,753.3	-232.2	1,267.5	1,067.3	200.17	6.332	
21,000.0	11,836.0	19,903.9	10,753.0	154.6	153.5	31.39	8,853.3	-233.2	1,267.5	1,065.2	202.29	6.266	
21,100.0	11,836.0	20,003.9	10,753.0	156.2	155.1	31.38	8,953.3	-234.2	1,267.4	1,063.0	204.41	6.200	
21,200.0	11,836.0	20,103.9	10,753.0	157.8	156.7	31.38	9,053.3	-235.2	1,267.4	1,060.9	206.54	6.137	
21,300.0	11,836.0	20,196.1	10,753.0	159.4	158.2	31.38	9,153.3	-236.2	1,267.4	1,058.8	208.58	6.076	
21,400.0	11,836.0	20,303.9	10,753.0	161.0	160.0	31.38	9,253.3	-237.2	1,267.4	1,056.6	210.79	6.013	
21,500.0	11,836.0	20,403.9	10,753.0	162.6	161.6	31.38	9,353.3	-238.2	1,267.4	1,054.5	212.92	5.952	
21,600.0	11,836.0	20,503.9	10,753.0	164.2	163.2	31.38	9,453.3	-239.2	1,267.4	1,052.3	215.05	5.894	
21,700.0	11,836.0	20,603.9	10,753.0	165.8	164.8	31.38	9,553.3	-240.2	1,267.4	1,050.2	217.18	5.836	
21,800.0	11,836.0	20,703.9	10,753.0	167.4	166.4	31.38	9,653.3	-241.2	1,267.4	1,048.1	219.31	5.779	
21,900.0	11,836.0	20,803.9	10,753.0	169.0	168.0	31.38	9,753.3	-242.2	1,267.4	1,045.9	221.44	5.723	
22,000.0	11,836.0	20,896.1	10,753.0	170.6	169.5	31.38	9,853.3	-243.3	1,267.3	1,043.9	223.49	5.671	
22,100.0	11,836.0	20,996.0	10,753.0	172.2	171.1	31.38	9,953.2	-244.3	1,267.3	1,041.7	225.62	5.617	
22,108.6	11,836.0	21,004.7	10,753.0	172.3	171.3	31.38	9,961.9	-244.3	1,267.3	1,041.5	225.81	5.612	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 #204H - 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	89.33	0.4	30.0	30.0				
100.0	100.0	101.0	101.0	0.1	0.1	89.33	0.4	30.0	30.0	29.8	0.26	115.554	
200.0	200.0	201.0	201.0	0.5	0.5	89.33	0.4	30.0	30.0	29.1	0.98	30.744	
300.0	300.0	301.0	301.0	0.8	0.8	89.33	0.4	30.0	30.0	28.3	1.69	17.731	
400.0	400.0	401.0	401.0	1.2	1.2	89.33	0.4	30.0	30.0	27.6	2.41	12.458	
500.0	500.0	501.0	501.0	1.6	1.6	89.33	0.4	30.0	30.0	26.9	3.13	9.602	
600.0	600.0	601.0	601.0	1.9	1.9	89.33	0.4	30.0	30.0	26.2	3.84	7.811	
700.0	700.0	701.0	701.0	2.3	2.3	89.33	0.4	30.0	30.0	25.5	4.56	6.584	
800.0	800.0	801.0	801.0	2.6	2.6	89.33	0.4	30.0	30.0	24.8	5.28	5.689	
900.0	900.0	901.0	901.0	3.0	3.0	89.33	0.4	30.0	30.0	24.0	6.00	5.009	
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	89.33	0.4	30.0	30.0	23.3	6.71	4.474	
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	89.33	0.4	30.0	30.0	22.6	7.43	4.042	
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	89.33	0.4	30.0	30.0	21.9	8.15	3.687	
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	89.33	0.4	30.0	30.0	21.2	8.86	3.388	
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	89.33	0.4	30.0	30.0	20.5	9.58	3.135	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	89.33	0.4	30.0	30.0	19.7	10.30	2.917	
1,500.1	1,500.1	1,501.1	1,501.1	5.1	5.2	89.33	0.4	30.0	30.0	19.7	10.30	2.916	CC
1,600.0	1,600.0	1,601.0	1,601.0	5.5	5.5	-147.95	-0.5	29.9	30.7	19.7	10.98	2.795	ES
1,700.0	1,700.0	1,701.1	1,701.0	5.8	5.8	-145.77	-3.2	29.7	32.7	21.1	11.64	2.809	
1,800.0	1,799.9	1,801.0	1,800.9	6.2	6.1	-142.70	-7.5	29.3	36.1	23.8	12.31	2.935	
1,900.0	1,899.7	1,900.8	1,900.5	6.5	6.5	-139.29	-13.6	28.7	41.1	28.1	12.98	3.162	
2,000.0	1,999.4	2,000.5	1,999.9	6.9	6.8	-135.96	-21.4	28.0	47.6	33.9	13.67	3.478	
2,100.0	2,098.9	2,100.0	2,098.9	7.2	7.2	-132.95	-30.9	27.1	55.6	41.3	14.38	3.870	
2,200.0	2,198.3	2,199.3	2,197.6	7.6	7.6	-130.36	-42.1	26.1	65.3	50.2	15.10	4.326	
2,300.0	2,297.4	2,301.6	2,295.8	7.9	8.0	-128.18	-54.9	24.9	76.6	60.8	15.87	4.830	
2,400.0	2,396.4	2,402.4	2,394.0	8.3	8.4	-126.52	-68.7	23.6	88.7	72.1	16.64	5.331	
2,500.0	2,495.5	2,503.2	2,492.3	8.7	8.8	-125.26	-82.4	22.3	100.9	83.5	17.44	5.786	
2,600.0	2,594.5	2,603.9	2,590.6	9.1	9.3	-124.27	-96.2	21.0	113.1	94.9	18.25	6.198	
2,700.0	2,693.5	2,704.7	2,688.9	9.4	9.8	-123.47	-109.9	19.8	125.4	106.3	19.07	6.573	
2,800.0	2,792.5	2,805.5	2,787.1	9.8	10.2	-122.82	-123.7	18.5	137.6	117.7	19.91	6.913	
2,900.0	2,891.6	2,906.2	2,885.4	10.2	10.7	-122.27	-137.5	17.2	149.9	129.1	20.75	7.224	
3,000.0	2,990.6	3,007.0	2,983.7	10.6	11.2	-121.81	-151.2	15.9	162.2	140.6	21.60	7.508	
3,100.0	3,089.6	3,107.8	3,081.9	11.0	11.7	-121.41	-165.0	14.6	174.5	152.0	22.46	7.769	
3,200.0	3,188.6	3,208.5	3,180.2	11.4	12.2	-121.06	-178.7	13.4	186.8	163.4	23.32	8.008	
3,300.0	3,287.7	3,309.3	3,278.5	11.8	12.7	-120.76	-192.5	12.1	199.1	174.9	24.19	8.229	
3,400.0	3,386.7	3,389.9	3,376.7	12.2	13.1	-120.49	-206.2	10.8	211.4	186.4	24.97	8.466	
3,500.0	3,485.7	3,489.2	3,475.0	12.6	13.6	-120.25	-220.0	9.5	223.7	197.9	25.84	8.657	
3,600.0	3,584.8	3,588.4	3,573.3	13.0	14.1	-120.04	-233.7	8.2	236.0	209.3	26.72	8.834	
3,700.0	3,683.8	3,687.6	3,671.5	13.4	14.6	-119.85	-247.5	7.0	248.3	220.7	27.59	8.999	
3,800.0	3,782.8	3,786.9	3,769.8	13.8	15.1	-119.67	-261.2	5.7	260.7	232.2	28.48	9.153	
3,900.0	3,881.8	3,886.1	3,868.1	14.2	15.7	-119.51	-275.0	4.4	273.0	243.6	29.36	9.297	
4,000.0	3,980.9	3,985.4	3,966.4	14.6	16.2	-119.37	-288.7	3.1	285.3	255.1	30.25	9.432	
4,100.0	4,079.9	4,084.6	4,064.6	15.0	16.7	-119.24	-302.5	1.8	297.6	266.5	31.14	9.558	
4,200.0	4,178.9	4,183.8	4,162.9	15.5	17.2	-119.11	-316.2	0.6	310.0	277.9	32.03	9.676	
4,300.0	4,277.9	4,283.1	4,261.2	15.9	17.7	-119.00	-330.0	-0.7	322.3	289.4	32.93	9.788	
4,400.0	4,377.0	4,382.3	4,359.4	16.3	18.3	-118.90	-343.7	-2.0	334.6	300.8	33.83	9.893	
4,500.0	4,476.0	4,481.5	4,457.7	16.7	18.8	-118.80	-357.5	-3.3	347.0	312.2	34.72	9.992	
4,600.0	4,575.0	4,580.8	4,556.0	17.1	19.3	-118.71	-371.2	-4.6	359.3	323.7	35.62	10.086	
4,700.0	4,674.0	4,680.0	4,654.2	17.5	19.8	-118.62	-385.0	-5.8	371.6	335.1	36.53	10.175	
4,800.0	4,773.1	4,779.2	4,752.5	17.9	20.4	-118.55	-398.7	-7.1	384.0	346.5	37.43	10.259	
4,900.0	4,872.1	4,878.5	4,850.8	18.3	20.9	-118.47	-412.5	-8.4	396.3	358.0	38.33	10.338	
5,000.0	4,971.1	4,977.7	4,949.0	18.8	21.4	-118.40	-426.2	-9.7	408.6	369.4	39.24	10.414	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 #204H - 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
5,100.0	5,070.2	5,076.9	5,047.3	19.2	22.0	-118.34	-440.0	-11.0	421.0	380.8	40.15	10.486	
5,200.0	5,169.2	5,176.2	5,145.6	19.6	22.5	-118.27	-453.7	-12.2	433.3	392.3	41.05	10.555	
5,300.0	5,268.2	5,278.1	5,246.6	20.0	23.0	-118.26	-467.4	-13.5	445.5	403.5	41.98	10.611	
5,400.0	5,367.2	5,382.5	5,350.3	20.4	23.5	-118.55	-479.0	-14.6	456.7	413.8	42.91	10.644	
5,500.0	5,466.3	5,486.9	5,454.4	20.8	24.0	-119.14	-487.6	-15.4	466.8	423.0	43.79	10.659	
5,600.0	5,565.3	5,591.2	5,558.5	21.3	24.4	-120.02	-493.5	-15.9	475.9	431.3	44.64	10.661	
5,700.0	5,664.3	5,695.3	5,662.6	21.7	24.8	-121.18	-496.5	-16.2	484.1	438.7	45.44	10.654	
5,800.0	5,763.3	5,802.9	5,764.3	22.1	25.1	-122.55	-497.0	-16.3	491.7	445.5	46.19	10.644	
5,900.0	5,862.4	5,903.9	5,863.4	22.5	25.3	-123.89	-497.0	-16.3	499.4	452.5	46.90	10.648	
6,000.0	5,961.4	6,004.8	5,962.4	22.9	25.6	-125.18	-497.0	-16.3	507.3	459.7	47.60	10.658	
6,100.0	6,060.4	6,105.8	6,061.4	23.3	25.9	-126.44	-497.0	-16.3	515.5	467.2	48.29	10.675	
6,200.0	6,159.4	6,206.8	6,160.4	23.8	26.1	-127.66	-497.0	-16.3	523.9	475.0	48.98	10.697	
6,300.0	6,258.5	6,307.8	6,259.5	24.2	26.4	-128.84	-497.0	-16.3	532.6	483.0	49.66	10.725	
6,400.0	6,357.5	6,408.7	6,358.5	24.6	26.7	-129.98	-497.0	-16.3	541.5	491.2	50.34	10.757	
6,500.0	6,456.5	6,509.7	6,457.5	25.0	27.0	-131.08	-497.0	-16.3	550.6	499.6	51.02	10.792	
6,600.0	6,555.6	6,589.3	6,556.6	25.4	27.2	-132.15	-497.0	-16.3	559.9	508.3	51.63	10.845	
6,700.0	6,654.6	6,688.3	6,655.6	25.9	27.5	-133.18	-497.0	-16.3	569.4	517.1	52.29	10.889	
6,800.0	6,753.6	6,787.4	6,754.6	26.3	27.7	-134.18	-497.0	-16.3	579.0	526.1	52.95	10.935	
6,900.0	6,852.6	6,886.4	6,853.6	26.7	28.0	-135.15	-497.0	-16.3	588.9	535.3	53.61	10.984	
7,000.0	6,951.7	6,985.4	6,952.7	27.1	28.3	-136.08	-497.0	-16.3	598.9	544.6	54.27	11.036	
7,100.0	7,050.7	7,084.4	7,051.7	27.5	28.6	-136.99	-497.0	-16.3	609.0	554.1	54.92	11.089	
7,200.0	7,149.7	7,183.5	7,150.7	28.0	28.9	-137.86	-497.0	-16.3	619.3	563.7	55.57	11.144	
7,300.0	7,248.7	7,282.5	7,249.7	28.4	29.2	-138.71	-497.0	-16.3	629.7	573.5	56.23	11.200	
7,400.0	7,347.8	7,381.5	7,348.8	28.8	29.5	-139.52	-497.0	-16.3	640.3	583.4	56.88	11.257	
7,500.0	7,446.8	7,480.6	7,447.8	29.2	29.8	-140.32	-497.0	-16.3	651.0	593.5	57.53	11.315	
7,600.0	7,545.8	7,579.6	7,546.8	29.6	30.0	-141.08	-497.0	-16.3	661.8	603.6	58.18	11.375	
7,700.0	7,644.9	7,678.6	7,645.9	30.1	30.3	-141.83	-497.0	-16.3	672.7	613.9	58.83	11.434	
7,800.0	7,743.9	7,777.6	7,744.9	30.5	30.6	-142.54	-497.0	-16.3	683.8	624.3	59.49	11.495	
7,900.0	7,842.9	7,876.7	7,843.9	30.9	30.9	-143.24	-497.0	-16.3	694.9	634.8	60.14	11.555	
8,000.0	7,941.9	7,975.7	7,942.9	31.3	31.2	-143.91	-497.0	-16.3	706.1	645.4	60.79	11.616	
8,100.0	8,041.0	8,074.7	8,042.0	31.7	31.5	-144.56	-497.0	-16.3	717.5	656.0	61.44	11.677	
8,200.0	8,140.0	8,173.7	8,141.0	32.2	31.8	-145.20	-497.0	-16.3	728.9	666.8	62.09	11.739	
8,300.0	8,239.0	8,272.8	8,240.0	32.6	32.1	-145.81	-497.0	-16.3	740.4	677.7	62.75	11.800	
8,400.0	8,338.0	8,371.8	8,339.0	33.0	32.4	-146.40	-497.0	-16.3	752.0	688.6	63.40	11.861	
8,415.6	8,353.5	8,387.2	8,354.5	33.1	32.5	-146.49	-497.0	-16.3	753.8	690.3	63.50	11.870	
8,500.0	8,437.2	8,470.9	8,438.2	33.4	32.7	-147.02	-497.0	-16.3	762.9	698.8	64.06	11.909	
8,600.0	8,536.6	8,570.4	8,537.6	33.8	33.0	-147.51	-497.0	-16.3	771.7	706.9	64.71	11.925	
8,700.0	8,636.3	8,670.1	8,637.3	34.2	33.3	-147.87	-497.0	-16.3	778.3	712.9	65.36	11.907	
8,800.0	8,736.2	8,769.9	8,737.2	34.6	33.6	-148.11	-497.0	-16.3	782.7	716.7	66.02	11.856	
8,900.0	8,836.2	8,869.9	8,837.2	34.9	34.0	-148.23	-497.0	-16.3	784.9	718.2	66.67	11.773	
8,948.9	8,885.1	8,918.8	8,886.1	35.0	34.1	89.85	-497.0	-16.3	785.2	718.2	66.98	11.721	
9,000.0	8,936.2	8,969.9	8,937.2	35.2	34.3	89.85	-497.0	-16.3	785.2	717.8	67.31	11.665	
9,100.0	9,036.2	9,069.9	9,037.2	35.5	34.6	89.85	-497.0	-16.3	785.2	717.2	67.94	11.557	
9,200.0	9,136.2	9,169.9	9,137.2	35.8	34.9	89.85	-497.0	-16.3	785.2	716.6	68.57	11.450	
9,300.0	9,236.2	9,269.9	9,237.2	36.1	35.2	89.85	-497.0	-16.3	785.2	715.9	69.21	11.345	
9,400.0	9,336.2	9,369.9	9,337.2	36.4	35.5	89.85	-497.0	-16.3	785.2	715.3	69.84	11.242	
9,500.0	9,436.2	9,469.9	9,437.2	36.7	35.8	89.85	-497.0	-16.3	785.2	714.7	70.48	11.140	
9,600.0	9,536.2	9,569.9	9,537.2	37.0	36.2	89.85	-497.0	-16.3	785.2	714.0	71.12	11.040	
9,700.0	9,636.2	9,669.9	9,637.2	37.4	36.5	89.85	-497.0	-16.3	785.2	713.4	71.76	10.941	
9,800.0	9,736.2	9,769.9	9,737.2	37.7	36.8	89.85	-497.0	-16.3	785.2	712.7	72.41	10.844	
9,900.0	9,836.2	9,869.9	9,837.2	38.0	37.1	89.85	-497.0	-16.3	785.2	712.1	73.05	10.748	
10,000.0	9,936.2	9,969.9	9,937.2	38.3	37.4	89.85	-497.0	-16.3	785.2	711.5	73.69	10.654	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 #204H - 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	10,036.2	10,069.9	10,037.2	38.6	37.7	89.85	-497.0	-16.3	785.2	710.8	74.34	10.561	
10,200.0	10,136.2	10,169.9	10,137.2	38.9	38.1	89.85	-497.0	-16.3	785.2	710.2	74.99	10.470	
10,300.0	10,236.2	10,269.9	10,237.2	39.2	38.4	89.85	-497.0	-16.3	785.2	709.5	75.64	10.380	
10,400.0	10,336.2	10,369.9	10,337.2	39.5	38.7	89.85	-497.0	-16.3	785.2	708.9	76.29	10.292	
10,500.0	10,436.2	10,469.9	10,437.2	39.9	39.0	89.85	-497.0	-16.3	785.2	708.2	76.94	10.205	
10,600.0	10,536.2	10,569.9	10,537.2	40.2	39.4	89.85	-497.0	-16.3	785.2	707.6	77.59	10.119	
10,700.0	10,636.2	10,669.9	10,637.2	40.5	39.7	89.85	-497.0	-16.3	785.2	706.9	78.25	10.034	
10,800.0	10,736.2	10,769.9	10,737.2	40.8	40.0	89.85	-497.0	-16.3	785.2	706.3	78.90	9.951	
10,900.0	10,836.2	10,869.9	10,837.2	41.1	40.3	89.85	-497.0	-16.3	785.2	705.6	79.56	9.869	
11,000.0	10,936.2	10,969.9	10,937.2	41.5	40.6	89.85	-497.0	-16.3	785.2	704.9	80.21	9.788	
11,100.0	11,036.2	11,069.9	11,037.2	41.8	41.0	89.85	-497.0	-16.3	785.2	704.3	80.87	9.708	
11,200.0	11,136.2	11,169.9	11,137.2	42.1	41.3	89.85	-497.0	-16.3	785.2	703.6	81.53	9.630	
11,300.0	11,236.2	11,269.9	11,237.2	42.4	41.6	89.85	-497.0	-16.3	785.2	703.0	82.19	9.553	
11,326.8	11,263.0	11,303.2	11,264.0	42.5	41.7	89.85	-497.0	-16.3	785.2	702.8	82.39	9.530	
11,350.0	11,286.1	11,319.9	11,287.1	42.6	41.8	90.46	-497.0	-16.3	785.2	702.6	82.52	9.514	
11,400.0	11,336.0	11,369.7	11,337.0	42.7	42.0	90.76	-497.0	-16.3	785.2	702.3	82.86	9.477	
11,450.0	11,385.2	11,419.0	11,386.2	42.9	42.1	91.35	-497.0	-16.3	785.4	702.2	83.19	9.440	
11,500.0	11,433.5	11,467.3	11,434.5	43.0	42.3	92.21	-497.0	-16.3	785.8	702.2	83.52	9.408	
11,550.0	11,480.6	11,514.3	11,481.6	43.1	42.4	93.28	-497.0	-16.3	786.6	702.8	83.85	9.381	
11,600.0	11,525.9	11,559.7	11,526.9	43.2	42.6	94.51	-497.0	-16.3	788.2	704.0	84.17	9.365	
11,650.0	11,569.3	11,603.0	11,570.3	43.3	42.7	95.81	-497.0	-16.3	790.8	706.3	84.47	9.361	
11,700.0	11,610.3	11,644.1	11,611.3	43.3	42.9	97.11	-497.0	-16.3	794.7	710.0	84.76	9.376	
11,750.0	11,648.7	11,682.5	11,649.7	43.4	43.0	98.31	-497.0	-16.3	800.3	715.3	85.03	9.412	
11,800.0	11,684.2	11,717.9	11,685.2	43.4	43.1	99.33	-497.0	-16.3	807.9	722.6	85.26	9.475	
11,850.0	11,716.4	11,750.2	11,717.4	43.4	43.2	100.09	-497.0	-16.3	817.7	732.2	85.47	9.567	
11,900.0	11,745.2	11,779.0	11,746.2	43.4	43.3	100.50	-497.0	-16.3	830.0	744.4	85.64	9.692	
11,950.0	11,770.4	11,804.1	11,771.4	43.4	43.4	100.48	-497.0	-16.3	845.1	759.3	85.78	9.852	
12,000.0	11,791.6	11,847.9	11,815.2	43.4	43.5	101.42	-496.3	-16.4	862.7	776.8	85.96	10.036	
12,050.0	11,808.9	12,051.8	12,012.8	43.4	44.0	111.25	-451.6	-23.8	880.7	795.7	84.92	10.371	
12,100.0	11,822.0	12,661.4	12,357.9	43.3	46.2	125.86	9.7	-101.0	886.9	811.3	75.65	11.724	
12,150.0	11,830.8	12,756.9	12,361.0	43.3	47.0	126.49	103.8	-116.6	875.9	799.5	76.39	11.465	
12,200.0	11,835.3	12,796.6	12,361.0	43.3	47.4	127.18	143.1	-122.4	867.7	791.0	76.78	11.302	
12,226.8	11,836.0	12,818.1	12,361.0	43.3	47.6	127.51	164.4	-125.3	864.7	787.7	76.95	11.238	
12,299.9	11,836.0	12,876.7	12,361.0	43.2	48.3	127.77	222.5	-132.4	858.2	780.8	77.38	11.091	
12,400.0	11,836.0	12,957.4	12,361.0	43.2	49.3	128.06	302.9	-140.2	851.3	773.2	78.13	10.896	
12,500.0	11,836.0	13,038.3	12,361.0	43.3	50.3	128.26	383.6	-145.8	846.6	767.6	79.05	10.710	
12,600.0	11,836.0	13,119.5	12,361.0	43.6	51.5	128.37	464.7	-149.1	844.2	764.1	80.13	10.536	
12,700.0	11,836.0	13,208.5	12,361.0	44.0	52.9	128.39	553.7	-150.4	843.8	762.3	81.52	10.351	
12,800.0	11,836.0	13,308.5	12,361.0	44.5	54.5	128.39	653.7	-151.4	843.8	760.5	83.26	10.134	
12,900.0	11,836.0	13,408.5	12,361.0	45.0	56.3	128.39	753.7	-152.4	843.8	758.7	85.14	9.910	
13,000.0	11,836.0	13,508.5	12,361.0	45.6	58.2	128.39	853.7	-153.4	843.8	756.6	87.15	9.682	
13,100.0	11,836.0	13,608.5	12,361.0	46.2	60.1	128.39	953.7	-154.4	843.8	754.5	89.28	9.451	
13,200.0	11,836.0	13,708.5	12,361.0	46.9	62.2	128.39	1,053.7	-155.4	843.8	752.2	91.52	9.219	
13,300.0	11,836.0	13,808.5	12,361.0	47.6	64.4	128.39	1,153.7	-156.4	843.7	749.9	93.86	8.989	
13,400.0	11,836.0	13,908.5	12,361.0	48.4	66.6	128.39	1,253.7	-157.4	843.7	747.4	96.30	8.761	
13,500.0	11,836.0	14,008.5	12,361.0	49.2	68.9	128.39	1,353.6	-158.4	843.7	744.9	98.82	8.538	
13,600.0	11,836.0	14,108.5	12,361.0	50.1	71.2	128.39	1,453.6	-159.4	843.7	742.3	101.43	8.318	
13,700.0	11,836.0	14,208.5	12,361.0	51.0	73.6	128.40	1,553.6	-160.4	843.7	739.6	104.10	8.104	
13,800.0	11,836.0	14,308.5	12,361.0	51.9	76.1	128.40	1,653.6	-161.4	843.7	736.8	106.85	7.896	
13,900.0	11,836.0	14,408.5	12,361.0	52.9	78.5	128.40	1,753.6	-162.4	843.7	734.0	109.66	7.693	
14,000.0	11,836.0	14,508.5	12,361.0	53.9	81.1	128.40	1,853.6	-163.4	843.6	731.1	112.53	7.497	
14,100.0	11,836.0	14,608.5	12,361.0	54.9	83.6	128.40	1,953.6	-164.4	843.6	728.2	115.46	7.307	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 #204H - 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	11,836.0	14,708.5	12,361.0	55.9	86.2	128.40	2,053.6	-165.4	843.6	725.2	118.43	7.123	
14,300.0	11,836.0	14,808.5	12,361.0	57.0	88.9	128.40	2,153.6	-166.4	843.6	722.2	121.45	6.946	
14,400.0	11,836.0	14,908.5	12,361.0	58.1	91.5	128.40	2,253.6	-167.4	843.6	719.1	124.51	6.775	
14,500.0	11,836.0	15,008.5	12,361.0	59.3	94.2	128.40	2,353.6	-168.4	843.6	716.0	127.62	6.610	
14,600.0	11,836.0	15,108.5	12,361.0	60.4	96.9	128.40	2,453.6	-169.4	843.6	712.8	130.76	6.451	
14,700.0	11,836.0	15,208.5	12,361.0	61.6	99.7	128.40	2,553.6	-170.4	843.5	709.6	133.94	6.298	
14,800.0	11,836.0	15,308.5	12,361.0	62.8	102.4	128.40	2,653.6	-171.4	843.5	706.4	137.15	6.150	
14,900.0	11,836.0	15,408.5	12,361.0	64.0	105.2	128.40	2,753.6	-172.4	843.5	703.1	140.39	6.008	
15,000.0	11,836.0	15,508.5	12,361.0	65.3	108.0	128.40	2,853.6	-173.4	843.5	699.8	143.66	5.871	
15,100.0	11,836.0	15,608.5	12,361.0	66.5	110.8	128.41	2,953.6	-174.4	843.5	696.5	146.96	5.740	
15,200.0	11,836.0	15,708.5	12,361.0	67.8	113.6	128.41	3,053.6	-175.4	843.5	693.2	150.28	5.613	
15,300.0	11,836.0	15,808.5	12,361.0	69.1	116.4	128.41	3,153.6	-176.4	843.5	689.8	153.62	5.490	
15,400.0	11,836.0	15,908.5	12,361.0	70.4	119.2	128.41	3,253.6	-177.4	843.5	686.5	156.99	5.373	
15,500.0	11,836.0	16,008.5	12,361.0	71.7	122.1	128.41	3,353.5	-178.4	843.4	683.1	160.38	5.259	
15,600.0	11,836.0	16,108.5	12,361.0	73.1	124.9	128.41	3,453.5	-179.4	843.4	679.6	163.79	5.150	
15,700.0	11,836.0	16,208.5	12,361.0	74.4	127.8	128.41	3,553.5	-180.4	843.4	676.2	167.21	5.044	
15,800.0	11,836.0	16,308.5	12,361.0	75.8	130.7	128.41	3,653.5	-181.4	843.4	672.7	170.65	4.942	
15,900.0	11,836.0	16,408.5	12,361.0	77.2	133.6	128.41	3,753.5	-182.4	843.4	669.3	174.11	4.844	
16,000.0	11,836.0	16,508.5	12,361.0	78.5	136.5	128.41	3,853.5	-183.4	843.4	665.8	177.58	4.749	
16,100.0	11,836.0	16,608.5	12,361.0	79.9	139.4	128.41	3,953.5	-184.4	843.4	662.3	181.07	4.658	
16,200.0	11,836.0	16,708.5	12,361.0	81.3	142.3	128.41	4,053.5	-185.4	843.3	658.8	184.57	4.569	
16,300.0	11,836.0	16,808.5	12,361.0	82.7	145.2	128.41	4,153.5	-186.4	843.3	655.2	188.09	4.484	
16,400.0	11,836.0	16,908.5	12,361.0	84.2	148.1	128.42	4,253.5	-187.4	843.3	651.7	191.62	4.401	
16,500.0	11,836.0	17,008.5	12,361.0	85.6	151.1	128.42	4,353.5	-188.4	843.3	648.1	195.15	4.321	
16,600.0	11,836.0	17,108.5	12,361.0	87.0	154.0	128.42	4,453.5	-189.4	843.3	644.6	198.70	4.244	
16,700.0	11,836.0	17,208.5	12,361.0	88.5	156.9	128.42	4,553.5	-190.4	843.3	641.0	202.26	4.169	
16,800.0	11,836.0	17,308.5	12,361.0	89.9	159.9	128.42	4,653.5	-191.4	843.3	637.4	205.83	4.097	
16,900.0	11,836.0	17,408.5	12,361.0	91.4	162.8	128.42	4,753.5	-192.4	843.2	633.8	209.41	4.027	
17,000.0	11,836.0	17,508.5	12,361.0	92.8	165.8	128.42	4,853.5	-193.4	843.2	630.2	213.00	3.959	
17,100.0	11,836.0	17,608.5	12,361.0	94.3	168.8	128.42	4,953.5	-194.4	843.2	626.6	216.60	3.893	
17,200.0	11,836.0	17,708.5	12,361.0	95.8	171.7	128.42	5,053.5	-195.4	843.2	623.0	220.20	3.829	
17,300.0	11,836.0	17,808.5	12,361.0	97.3	174.7	128.42	5,153.5	-196.4	843.2	619.4	223.81	3.767	
17,400.0	11,836.0	17,908.5	12,361.0	98.8	177.7	128.42	5,253.5	-197.4	843.2	615.7	227.43	3.707	
17,500.0	11,836.0	18,008.5	12,361.0	100.3	180.6	128.42	5,353.4	-198.4	843.2	612.1	231.06	3.649	
17,600.0	11,836.0	18,108.5	12,361.0	101.8	183.6	128.42	5,453.4	-199.4	843.1	608.5	234.69	3.593	
17,700.0	11,836.0	18,208.5	12,361.0	103.3	186.6	128.43	5,553.4	-200.4	843.1	604.8	238.33	3.538	
17,800.0	11,836.0	18,308.5	12,361.0	104.8	189.6	128.43	5,653.4	-201.4	843.1	601.1	241.98	3.484	
17,900.0	11,836.0	18,408.5	12,361.0	106.3	192.6	128.43	5,753.4	-202.4	843.1	597.5	245.63	3.432	
18,000.0	11,836.0	18,508.5	12,361.0	107.8	195.6	128.43	5,853.4	-203.4	843.1	593.8	249.29	3.382	
18,100.0	11,836.0	18,608.5	12,361.0	109.3	198.6	128.43	5,953.4	-204.4	843.1	590.1	252.95	3.333	
18,200.0	11,836.0	18,708.5	12,361.0	110.8	201.6	128.43	6,053.4	-205.4	843.1	586.4	256.62	3.285	
18,300.0	11,836.0	18,808.5	12,361.0	112.4	204.6	128.43	6,153.4	-206.4	843.1	582.8	260.29	3.239	
18,400.0	11,836.0	18,908.5	12,361.0	113.9	207.6	128.43	6,253.4	-207.4	843.0	579.1	263.97	3.194	
18,500.0	11,836.0	19,008.5	12,361.0	115.4	210.6	128.43	6,353.4	-208.4	843.0	575.4	267.65	3.150	
18,600.0	11,836.0	19,108.5	12,361.0	117.0	213.6	128.43	6,453.4	-209.4	843.0	571.7	271.33	3.107	
18,700.0	11,836.0	19,208.5	12,361.0	118.5	216.6	128.43	6,553.4	-210.4	843.0	568.0	275.02	3.065	
18,800.0	11,836.0	19,308.5	12,361.0	120.1	219.6	128.43	6,653.4	-211.4	843.0	564.3	278.72	3.024	
18,900.0	11,836.0	19,408.5	12,361.0	121.6	222.6	128.43	6,753.4	-212.4	843.0	560.6	282.42	2.985	
19,000.0	11,836.0	19,508.5	12,361.0	123.2	225.6	128.43	6,853.4	-213.4	843.0	556.8	286.12	2.946	
19,100.0	11,836.0	19,608.5	12,361.0	124.7	228.6	128.44	6,953.4	-214.4	842.9	553.1	289.82	2.908	
19,200.0	11,836.0	19,708.5	12,361.0	126.3	231.6	128.44	7,053.4	-215.4	842.9	549.4	293.53	2.872	
19,300.0	11,836.0	19,808.5	12,361.0	127.8	234.6	128.44	7,153.4	-216.4	842.9	545.7	297.24	2.836	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 #204H - 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	11,836.0	19,908.5	12,361.0	129.4	237.7	128.44	7,253.4	-217.4	842.9	541.9	300.96	2.801	
19,500.0	11,836.0	20,008.5	12,361.0	131.0	240.7	128.44	7,353.3	-218.4	842.9	538.2	304.68	2.767	
19,600.0	11,836.0	20,108.5	12,361.0	132.5	243.7	128.44	7,453.3	-219.4	842.9	534.5	308.40	2.733	
19,700.0	11,836.0	20,208.5	12,361.0	134.1	246.7	128.44	7,553.3	-220.4	842.9	530.7	312.12	2.700	
19,800.0	11,836.0	20,308.5	12,361.0	135.7	249.8	128.44	7,653.3	-221.4	842.8	527.0	315.85	2.669	
19,900.0	11,836.0	20,408.5	12,361.0	137.2	252.8	128.44	7,753.3	-222.4	842.8	523.3	319.57	2.637	
20,000.0	11,836.0	20,508.5	12,361.0	138.8	255.8	128.44	7,853.3	-223.4	842.8	519.5	323.31	2.607	
20,100.0	11,836.0	20,608.5	12,361.0	140.4	258.8	128.44	7,953.3	-224.4	842.8	515.8	327.04	2.577	
20,200.0	11,836.0	20,708.5	12,361.0	142.0	261.9	128.44	8,053.3	-225.4	842.8	512.0	330.78	2.548	
20,300.0	11,836.0	20,808.5	12,361.0	143.5	264.9	128.44	8,153.3	-226.4	842.8	508.3	334.51	2.519	
20,400.0	11,836.0	20,908.5	12,361.0	145.1	267.9	128.45	8,253.3	-227.4	842.8	504.5	338.26	2.491	
20,500.0	11,836.0	21,008.5	12,361.0	146.7	271.0	128.45	8,353.3	-228.4	842.7	500.7	342.00	2.464	
20,600.0	11,836.0	21,108.5	12,361.0	148.3	274.0	128.45	8,453.3	-229.4	842.7	497.0	345.74	2.437	
20,700.0	11,836.0	21,208.5	12,361.0	149.9	277.0	128.45	8,553.3	-230.4	842.7	493.2	349.49	2.411	
20,800.0	11,836.0	21,308.5	12,361.0	151.5	280.1	128.45	8,653.3	-231.4	842.7	489.5	353.24	2.386	
20,900.0	11,836.0	21,408.5	12,361.0	153.0	283.1	128.45	8,753.3	-232.4	842.7	485.7	356.99	2.361	
21,000.0	11,836.0	21,508.5	12,361.0	154.6	286.1	128.45	8,853.3	-233.4	842.7	481.9	360.74	2.336	
21,100.0	11,836.0	21,608.5	12,361.0	156.2	289.2	128.45	8,953.3	-234.4	842.7	478.2	364.50	2.312	
21,200.0	11,836.0	21,708.5	12,361.0	157.8	292.2	128.45	9,053.3	-235.4	842.7	474.4	368.25	2.288	
21,300.0	11,836.0	21,808.5	12,361.0	159.4	295.2	128.45	9,153.3	-236.4	842.6	470.6	372.01	2.265	
21,400.0	11,836.0	21,908.5	12,361.0	161.0	298.3	128.45	9,253.3	-237.4	842.6	466.9	375.77	2.242	
21,500.0	11,836.0	22,008.5	12,361.0	162.6	301.3	128.45	9,353.2	-238.4	842.6	463.1	379.53	2.220	
21,600.0	11,836.0	22,108.5	12,361.0	164.2	304.4	128.45	9,453.2	-239.4	842.6	459.3	383.29	2.198	
21,700.0	11,836.0	22,208.5	12,361.0	165.8	307.4	128.45	9,553.2	-240.4	842.6	455.5	387.05	2.177	
21,800.0	11,836.0	22,308.5	12,361.0	167.4	310.4	128.46	9,653.2	-241.4	842.6	451.7	390.82	2.156	
21,900.0	11,836.0	22,408.5	12,361.0	169.0	313.5	128.46	9,753.2	-242.4	842.6	448.0	394.59	2.135	
22,000.0	11,836.0	22,508.5	12,361.0	170.6	316.5	128.46	9,853.2	-243.4	842.5	444.2	398.35	2.115	
22,100.0	11,836.0	22,608.4	12,361.0	172.2	319.6	128.46	9,953.2	-244.4	842.5	440.4	402.12	2.095	
22,106.3	11,836.0	22,614.8	12,361.0	172.3	319.8	128.46	9,959.5	-244.4	842.5	440.2	402.36	2.094	SF
22,108.6	11,836.0	22,613.4	12,361.0	172.3	319.7	128.46	9,958.2	-244.4	842.5	440.2	402.29	2.094	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	1.0	-1.0	0.0	0.0	44.63	30.2	29.8	42.5				
100.0	100.0	101.0	99.0	0.1	0.1	44.63	30.2	29.8	42.5	42.2	0.26	163.370	
200.0	200.0	201.0	199.0	0.5	0.5	44.63	30.2	29.8	42.5	41.5	0.98	43.465	
300.0	300.0	301.0	299.0	0.8	0.8	44.63	30.2	29.8	42.5	40.8	1.69	25.067	
400.0	400.0	401.0	399.0	1.2	1.2	44.63	30.2	29.8	42.5	40.0	2.41	17.612	
500.0	500.0	501.0	499.0	1.6	1.6	44.63	30.2	29.8	42.5	39.3	3.13	13.575	
600.0	600.0	601.0	599.0	1.9	1.9	44.63	30.2	29.8	42.5	38.6	3.84	11.044	
700.0	700.0	701.0	699.0	2.3	2.3	44.63	30.2	29.8	42.5	37.9	4.56	9.308	
800.0	800.0	801.0	799.0	2.6	2.6	44.63	30.2	29.8	42.5	37.2	5.28	8.044	
900.0	900.0	901.0	899.0	3.0	3.0	44.63	30.2	29.8	42.5	36.5	6.00	7.082	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	44.63	30.2	29.8	42.5	35.7	6.71	6.325	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	44.63	30.2	29.8	42.5	35.0	7.43	5.715	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	44.63	30.2	29.8	42.5	34.3	8.15	5.212	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	44.63	30.2	29.8	42.5	33.6	8.86	4.790	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	44.63	30.2	29.8	42.5	32.9	9.58	4.432	
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	44.63	30.2	29.8	42.5	32.2	10.30	4.123	CC, ES
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	166.80	30.2	29.8	43.3	32.3	11.00	3.937	
1,700.0	1,700.0	1,701.0	1,699.0	5.8	5.9	167.54	30.2	29.8	45.9	34.2	11.69	3.922	
1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	168.61	30.2	29.8	50.1	37.7	12.39	4.046	
1,900.0	1,899.7	1,901.3	1,898.7	6.5	6.6	169.83	30.2	29.8	56.1	43.0	13.09	4.289	
2,000.0	1,999.4	2,001.6	1,998.4	6.9	6.9	171.06	30.2	29.8	63.9	50.1	13.79	4.632	
2,100.0	2,098.9	2,102.1	2,097.9	7.2	7.3	172.21	30.2	29.8	73.3	58.9	14.49	5.062	
2,200.0	2,198.3	2,202.7	2,197.3	7.6	7.7	173.24	30.2	29.8	84.6	69.4	15.19	5.566	
2,300.0	2,297.4	2,303.6	2,296.4	7.9	8.0	174.13	30.2	29.8	97.6	81.7	15.90	6.135	
2,400.0	2,396.4	2,404.6	2,395.4	8.3	8.4	174.86	30.2	29.8	111.4	94.8	16.61	6.707	
2,500.0	2,495.5	2,505.5	2,494.5	8.7	8.8	175.43	30.2	29.8	125.3	108.0	17.32	7.233	
2,600.0	2,594.5	2,606.5	2,593.5	9.1	9.1	175.89	30.2	29.8	139.2	121.1	18.03	7.718	
2,700.0	2,693.5	2,707.5	2,692.5	9.4	9.5	176.26	30.2	29.8	153.0	134.3	18.74	8.165	
2,800.0	2,792.5	2,808.5	2,791.5	9.8	9.8	176.57	30.2	29.8	166.9	147.5	19.46	8.580	
2,900.0	2,891.6	2,909.4	2,890.6	10.2	10.2	176.83	30.2	29.8	180.8	160.7	20.17	8.964	
3,000.0	2,990.6	2,989.6	2,989.6	10.6	10.5	177.06	30.2	29.8	194.7	173.9	20.81	9.356	
3,100.0	3,089.6	3,088.6	3,088.6	11.0	10.8	177.26	30.2	29.8	208.6	187.1	21.52	9.693	
3,200.0	3,188.6	3,187.6	3,187.6	11.4	11.2	177.43	30.2	29.8	222.5	200.3	22.23	10.008	
3,300.0	3,287.7	3,286.7	3,286.7	11.8	11.6	177.58	30.2	29.8	236.4	213.5	22.95	10.304	
3,400.0	3,386.7	3,385.7	3,385.7	12.2	11.9	177.71	30.2	29.8	250.3	226.7	23.66	10.581	
3,500.0	3,485.7	3,484.7	3,484.7	12.6	12.3	177.83	30.2	29.8	264.2	239.9	24.37	10.842	
3,600.0	3,584.8	3,583.8	3,583.8	13.0	12.6	177.94	30.2	29.8	278.2	253.1	25.09	11.088	
3,700.0	3,683.8	3,682.8	3,682.8	13.4	13.0	178.04	30.2	29.8	292.1	266.3	25.80	11.320	
3,800.0	3,782.8	3,781.8	3,781.8	13.8	13.3	178.13	30.2	29.8	306.0	279.5	26.51	11.540	
3,900.0	3,881.8	3,880.8	3,880.8	14.2	13.7	178.21	30.2	29.8	319.9	292.7	27.23	11.747	
4,000.0	3,980.9	3,979.9	3,979.9	14.6	14.0	178.29	30.2	29.8	333.8	305.8	27.95	11.944	
4,100.0	4,079.9	4,078.9	4,078.9	15.0	14.4	178.35	30.2	29.8	347.7	319.0	28.66	12.131	
4,200.0	4,178.9	4,177.9	4,177.9	15.5	14.7	178.42	30.2	29.8	361.6	332.2	29.38	12.309	
4,300.0	4,277.9	4,276.9	4,276.9	15.9	15.1	178.48	30.2	29.8	375.5	345.4	30.10	12.478	
4,400.0	4,377.0	4,376.0	4,376.0	16.3	15.5	178.53	30.2	29.8	389.4	358.6	30.81	12.639	
4,500.0	4,476.0	4,475.0	4,475.0	16.7	15.8	178.58	30.2	29.8	403.4	371.8	31.53	12.793	
4,600.0	4,575.0	4,574.0	4,574.0	17.1	16.2	178.63	30.2	29.8	417.3	385.0	32.25	12.939	
4,700.0	4,674.0	4,673.0	4,673.0	17.5	16.5	178.67	30.2	29.8	431.2	398.2	32.97	13.079	
4,800.0	4,773.1	4,772.1	4,772.1	17.9	16.9	178.71	30.2	29.8	445.1	411.4	33.68	13.214	
4,900.0	4,872.1	4,871.1	4,871.1	18.3	17.2	178.75	30.2	29.8	459.0	424.6	34.40	13.342	
5,000.0	4,971.1	4,970.1	4,970.1	18.8	17.6	178.79	30.2	29.8	472.9	437.8	35.12	13.465	
5,100.0	5,070.2	5,071.6	5,071.6	19.2	17.9	178.87	29.8	29.9	486.7	450.8	35.84	13.577	

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

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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	5,174.3	5,174.3	19.6	18.3	179.14	27.6	30.2	499.7	463.2	36.55	13.671	
5,300.0	5,268.2	5,277.1	5,277.0	20.0	18.6	179.58	23.6	30.9	512.1	474.8	37.26	13.745	
5,400.0	5,367.2	5,379.9	5,379.6	20.4	18.9	-179.81	17.8	31.8	523.8	485.8	37.96	13.798	
5,500.0	5,466.3	5,482.7	5,482.1	20.8	19.3	-179.05	10.2	33.0	534.8	496.2	38.67	13.833	
5,600.0	5,565.3	5,585.3	5,584.3	21.3	19.6	-178.14	0.7	34.5	545.4	506.0	39.38	13.851	
5,700.0	5,664.3	5,687.8	5,686.2	21.7	20.0	-177.09	-10.5	36.3	555.4	515.3	40.09	13.853	
5,800.0	5,763.3	5,790.1	5,787.6	22.1	20.3	-175.90	-23.5	38.4	565.0	524.2	40.82	13.843	
5,900.0	5,862.4	5,889.2	5,885.7	22.5	20.7	-174.69	-37.1	40.5	574.5	533.0	41.54	13.831	
6,000.0	5,961.4	5,988.0	5,983.6	22.9	21.0	-173.52	-50.7	42.7	584.3	542.0	42.27	13.822	
6,100.0	6,060.4	6,086.8	6,081.4	23.3	21.4	-172.39	-64.3	44.9	594.3	551.3	43.01	13.817	
6,200.0	6,159.4	6,185.6	6,179.3	23.8	21.8	-171.30	-77.9	47.0	604.6	560.8	43.77	13.813	
6,300.0	6,258.5	6,284.5	6,277.1	24.2	22.1	-170.25	-91.4	49.2	615.0	570.5	44.53	13.812	
6,400.0	6,357.5	6,383.3	6,375.0	24.6	22.5	-169.22	-105.0	51.4	625.6	580.3	45.29	13.813	
6,500.0	6,456.5	6,482.1	6,472.8	25.0	22.9	-168.24	-118.6	53.5	636.5	590.4	46.07	13.816	
6,600.0	6,555.6	6,580.9	6,570.7	25.4	23.3	-167.28	-132.2	55.7	647.5	600.6	46.85	13.820	
6,700.0	6,654.6	6,679.7	6,668.6	25.9	23.7	-166.36	-145.8	57.8	658.7	611.0	47.64	13.826	
6,800.0	6,753.6	6,778.5	6,766.4	26.3	24.1	-165.47	-159.3	60.0	670.0	621.6	48.44	13.833	
6,900.0	6,852.6	6,877.3	6,864.3	26.7	24.6	-164.61	-172.9	62.2	681.6	632.3	49.24	13.841	
7,000.0	6,951.7	6,976.2	6,962.1	27.1	25.0	-163.78	-186.5	64.3	693.2	643.2	50.05	13.850	
7,100.0	7,050.7	7,075.0	7,060.0	27.5	25.4	-162.97	-200.1	66.5	705.0	654.1	50.87	13.860	
7,200.0	7,149.7	7,173.8	7,157.8	28.0	25.8	-162.19	-213.7	68.6	716.9	665.3	51.69	13.870	
7,300.0	7,248.7	7,272.6	7,255.7	28.4	26.3	-161.44	-227.2	70.8	729.0	676.5	52.52	13.882	
7,400.0	7,347.8	7,371.4	7,353.5	28.8	26.7	-160.71	-240.8	73.0	741.2	687.9	53.35	13.894	
7,500.0	7,446.8	7,470.2	7,451.4	29.2	27.1	-160.00	-254.4	75.1	753.5	699.3	54.18	13.907	
7,600.0	7,545.8	7,569.1	7,549.2	29.6	27.6	-159.32	-268.0	77.3	765.9	710.9	55.02	13.920	
7,700.0	7,644.9	7,667.9	7,647.1	30.1	28.0	-158.66	-281.6	79.5	778.4	722.6	55.86	13.934	
7,800.0	7,743.9	7,766.7	7,745.0	30.5	28.5	-158.02	-295.2	81.6	791.0	734.3	56.71	13.948	
7,900.0	7,842.9	7,865.5	7,842.8	30.9	29.0	-157.40	-308.7	83.8	803.7	746.2	57.56	13.963	
8,000.0	7,941.9	7,964.3	7,940.7	31.3	29.4	-156.80	-322.3	85.9	816.5	758.1	58.42	13.978	
8,100.0	8,041.0	8,063.1	8,038.5	31.7	29.9	-156.21	-335.9	88.1	829.4	770.2	59.28	13.993	
8,200.0	8,140.0	8,161.9	8,136.4	32.2	30.3	-155.65	-349.5	90.3	842.4	782.3	60.14	14.008	
8,300.0	8,239.0	8,260.8	8,234.2	32.6	30.8	-155.10	-363.1	92.4	855.5	794.5	61.00	14.024	
8,400.0	8,338.0	8,359.6	8,332.1	33.0	31.3	-154.57	-376.6	94.6	868.6	806.7	61.86	14.040	
8,415.6	8,353.5	8,375.0	8,347.3	33.1	31.3	-154.49	-378.8	94.9	870.6	808.6	62.00	14.043	
8,500.0	8,437.2	8,458.5	8,430.0	33.4	31.7	-154.10	-390.2	96.8	880.9	818.2	62.73	14.043	
8,600.0	8,536.6	8,557.5	8,528.1	33.8	32.2	-153.56	-403.8	98.9	891.1	827.5	63.60	14.011	
8,700.0	8,636.3	8,656.7	8,626.3	34.2	32.7	-152.95	-417.5	101.1	899.0	834.5	64.46	13.946	
8,800.0	8,736.2	8,755.8	8,724.5	34.6	33.2	-152.27	-431.1	103.3	904.7	839.4	65.32	13.850	
8,900.0	8,836.2	8,855.0	8,822.6	34.9	33.7	-151.50	-444.7	105.4	908.3	842.1	66.17	13.725	
8,948.9	8,885.1	8,903.4	8,870.6	35.0	33.9	87.00	-451.4	106.5	909.2	842.7	66.59	13.655	
9,000.0	8,936.2	8,954.0	8,920.7	35.2	34.2	87.44	-458.3	107.6	910.0	843.0	67.01	13.581	
9,100.0	9,036.2	9,055.7	9,021.6	35.5	34.6	88.26	-471.3	109.7	911.6	843.7	67.84	13.437	
9,200.0	9,136.2	9,158.5	9,123.8	35.8	35.1	88.92	-481.8	111.3	913.0	844.3	68.65	13.298	
9,300.0	9,236.2	9,261.7	9,226.7	36.1	35.5	89.41	-489.5	112.6	914.1	844.6	69.43	13.166	
9,400.0	9,336.2	9,365.3	9,330.2	36.4	35.9	89.72	-494.6	113.4	914.8	844.6	70.16	13.038	
9,500.0	9,436.2	9,469.1	9,434.0	36.7	36.3	89.87	-496.8	113.7	915.1	844.3	70.86	12.915	
9,600.0	9,536.2	9,570.3	9,535.2	37.0	36.6	89.87	-497.0	113.7	915.2	843.6	71.51	12.798	
9,700.0	9,636.2	9,670.3	9,635.2	37.4	36.9	89.87	-497.0	113.7	915.2	843.0	72.14	12.685	
9,800.0	9,736.2	9,770.3	9,735.2	37.7	37.2	89.87	-497.0	113.7	915.2	842.4	72.78	12.574	
9,900.0	9,836.2	9,870.3	9,835.2	38.0	37.5	89.87	-497.0	113.7	915.2	841.7	73.42	12.464	
10,000.0	9,936.2	9,970.3	9,935.2	38.3	37.8	89.87	-497.0	113.7	915.2	841.1	74.06	12.356	
10,100.0	10,036.2	10,070.3	10,035.2	38.6	38.2	89.87	-497.0	113.7	915.2	840.4	74.71	12.250	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
10,200.0	10,136.2	10,170.3	10,135.2	38.9	38.5	89.87	-497.0	113.7	915.2	839.8	75.35	12.145	
10,300.0	10,236.2	10,270.3	10,235.2	39.2	38.8	89.87	-497.0	113.7	915.2	839.2	76.00	12.042	
10,400.0	10,336.2	10,370.3	10,335.2	39.5	39.1	89.87	-497.0	113.7	915.2	838.5	76.64	11.941	
10,500.0	10,436.2	10,470.3	10,435.2	39.9	39.4	89.87	-497.0	113.7	915.2	837.9	77.29	11.841	
10,600.0	10,536.2	10,570.3	10,535.2	40.2	39.7	89.87	-497.0	113.7	915.2	837.2	77.94	11.742	
10,700.0	10,636.2	10,670.3	10,635.2	40.5	40.1	89.87	-497.0	113.7	915.2	836.6	78.59	11.645	
10,800.0	10,736.2	10,770.3	10,735.2	40.8	40.4	89.87	-497.0	113.7	915.2	835.9	79.24	11.549	
10,900.0	10,836.2	10,870.3	10,835.2	41.1	40.7	89.87	-497.0	113.7	915.2	835.3	79.89	11.455	
11,000.0	10,936.2	10,970.3	10,935.2	41.5	41.0	89.87	-497.0	113.7	915.2	834.6	80.55	11.362	
11,100.0	11,036.2	11,070.3	11,035.2	41.8	41.4	89.87	-497.0	113.7	915.2	834.0	81.20	11.270	
11,200.0	11,136.2	11,170.3	11,135.2	42.1	41.7	89.87	-497.0	113.7	915.2	833.3	81.86	11.180	
11,300.0	11,236.2	11,270.3	11,235.2	42.4	42.0	89.87	-497.0	113.7	915.2	832.6	82.51	11.091	
11,326.8	11,263.0	11,302.8	11,262.0	42.5	42.1	89.87	-497.0	113.7	915.2	832.4	82.71	11.065	
11,350.0	11,286.1	11,320.3	11,285.1	42.6	42.2	90.47	-497.0	113.7	915.2	832.3	82.84	11.047	
11,400.0	11,336.0	11,370.1	11,335.0	42.7	42.3	90.73	-497.0	113.7	915.2	832.0	83.16	11.005	
11,450.0	11,385.2	11,419.4	11,384.2	42.9	42.5	91.24	-497.0	113.7	915.4	831.9	83.48	10.965	
11,500.0	11,433.5	11,467.7	11,432.5	43.0	42.6	91.97	-497.0	113.7	915.7	831.9	83.79	10.929	
11,550.0	11,480.6	11,514.7	11,479.6	43.1	42.8	92.89	-497.0	113.7	916.5	832.4	84.08	10.900	
11,600.0	11,525.9	11,560.1	11,524.9	43.2	42.9	93.94	-497.0	113.7	917.9	833.5	84.36	10.881	
11,650.0	11,569.3	11,603.5	11,568.3	43.3	43.1	95.06	-497.0	113.7	920.1	835.5	84.61	10.874	
11,700.0	11,610.3	11,644.5	11,609.3	43.3	43.2	96.17	-497.0	113.7	923.5	838.7	84.85	10.884	
11,750.0	11,648.7	11,682.9	11,647.7	43.4	43.3	97.20	-497.0	113.7	928.4	843.3	85.06	10.914	
11,800.0	11,684.2	11,718.3	11,683.2	43.4	43.5	98.08	-497.0	113.7	935.0	849.7	85.25	10.968	
11,850.0	11,716.4	11,750.6	11,715.4	43.4	43.6	98.73	-497.0	113.7	943.5	858.1	85.40	11.048	
11,900.0	11,745.2	11,779.4	11,744.2	43.4	43.7	99.07	-497.0	113.7	954.3	868.8	85.52	11.159	
11,950.0	11,770.4	11,804.5	11,769.4	43.4	43.7	99.05	-497.0	113.7	967.4	881.8	85.61	11.301	
12,000.0	11,791.6	11,825.8	11,790.6	43.4	43.8	98.60	-497.0	113.7	983.1	897.4	85.67	11.476	
12,050.0	11,808.9	11,843.0	11,807.9	43.4	43.9	97.68	-497.0	113.7	1,001.1	915.5	85.69	11.684	
12,100.0	11,822.0	12,892.7	12,446.0	43.3	48.5	127.52	135.7	-65.2	987.1	911.4	75.75	13.030	
12,150.0	11,830.8	12,930.5	12,446.0	43.3	49.0	128.71	172.5	-74.2	972.8	896.6	76.19	12.767	
12,200.0	11,835.3	12,969.1	12,446.0	43.3	49.4	129.76	210.0	-82.9	961.6	885.1	76.51	12.568	
12,226.8	11,836.0	12,990.0	12,446.0	43.3	49.7	130.27	230.4	-87.5	956.9	880.3	76.62	12.489	
12,299.9	11,836.0	13,047.1	12,446.0	43.2	50.5	130.71	286.3	-99.0	946.1	869.2	76.94	12.297	
12,400.0	11,836.0	13,126.1	12,446.0	43.2	51.6	131.25	364.0	-113.2	933.2	855.7	77.48	12.045	
12,500.0	11,836.0	13,205.7	12,446.0	43.3	52.7	131.72	442.7	-125.3	922.5	844.3	78.15	11.804	
12,600.0	11,836.0	13,285.8	12,446.0	43.6	54.0	132.10	522.2	-135.3	913.9	835.0	78.98	11.572	
12,700.0	11,836.0	13,366.4	12,446.0	44.0	55.4	132.40	602.5	-143.1	907.5	827.6	79.94	11.352	
12,800.0	11,836.0	13,447.4	12,446.0	44.5	56.7	132.60	683.2	-148.6	903.2	822.1	81.06	11.143	
12,900.0	11,836.0	13,528.5	12,446.0	45.0	58.2	132.71	764.3	-151.9	900.9	818.6	82.31	10.946	
13,000.0	11,836.0	13,617.9	12,446.0	45.6	59.8	132.72	853.7	-153.1	900.6	816.7	83.91	10.732	
13,032.6	11,836.0	13,650.5	12,446.0	45.8	60.4	132.72	886.3	-153.4	900.6	816.0	84.55	10.651	
13,100.0	11,836.0	13,717.9	12,446.0	46.2	61.7	132.72	953.7	-154.1	900.6	814.7	85.90	10.485	
13,200.0	11,836.0	13,817.9	12,446.0	46.9	63.7	132.72	1,053.7	-155.1	900.6	812.6	87.98	10.236	
13,300.0	11,836.0	13,917.9	12,446.0	47.6	65.8	132.72	1,153.7	-156.1	900.5	810.4	90.17	9.987	
13,400.0	11,836.0	14,017.9	12,446.0	48.4	67.9	132.73	1,253.7	-157.1	900.5	808.1	92.45	9.741	
13,500.0	11,836.0	14,117.9	12,446.0	49.2	70.1	132.73	1,353.7	-158.1	900.5	805.7	94.81	9.498	
13,600.0	11,836.0	14,217.9	12,446.0	50.1	72.4	132.73	1,453.7	-159.1	900.5	803.3	97.25	9.260	
13,700.0	11,836.0	14,317.9	12,446.0	51.0	74.7	132.73	1,553.7	-160.1	900.5	800.7	99.76	9.027	
13,800.0	11,836.0	14,417.9	12,446.0	51.9	77.1	132.73	1,653.7	-161.1	900.5	798.1	102.34	8.799	
13,900.0	11,836.0	14,517.9	12,446.0	52.9	79.6	132.73	1,753.7	-162.1	900.5	795.5	104.98	8.578	
14,000.0	11,836.0	14,617.9	12,446.0	53.9	82.1	132.73	1,853.6	-163.1	900.4	792.8	107.67	8.363	
14,100.0	11,836.0	14,717.9	12,446.0	54.9	84.6	132.73	1,953.6	-164.2	900.4	790.0	110.42	8.154	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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
14,200.0	11,836.0	14,817.9	12,446.0	55.9	87.1	132.73	2,053.6	-165.2	900.4	787.2	113.22	7.953	
14,300.0	11,836.0	14,917.9	12,446.0	57.0	89.7	132.73	2,153.6	-166.2	900.4	784.3	116.06	7.758	
14,400.0	11,836.0	15,017.9	12,446.0	58.1	92.3	132.73	2,253.6	-167.2	900.4	781.4	118.95	7.569	
14,500.0	11,836.0	15,117.9	12,446.0	59.3	95.0	132.74	2,353.6	-168.2	900.4	778.5	121.87	7.388	
14,600.0	11,836.0	15,217.9	12,446.0	60.4	97.7	132.74	2,453.6	-169.2	900.3	775.5	124.84	7.212	
14,700.0	11,836.0	15,317.9	12,446.0	61.6	100.4	132.74	2,553.6	-170.2	900.3	772.5	127.83	7.043	
14,800.0	11,836.0	15,417.9	12,446.0	62.8	103.1	132.74	2,653.6	-171.2	900.3	769.5	130.86	6.880	
14,900.0	11,836.0	15,517.9	12,446.0	64.0	105.8	132.74	2,753.6	-172.2	900.3	766.4	133.92	6.723	
15,000.0	11,836.0	15,617.9	12,446.0	65.3	108.6	132.74	2,853.6	-173.2	900.3	763.3	137.00	6.571	
15,100.0	11,836.0	15,717.9	12,446.0	66.5	111.3	132.74	2,953.6	-174.2	900.3	760.2	140.12	6.425	
15,200.0	11,836.0	15,817.9	12,446.0	67.8	114.1	132.74	3,053.6	-175.2	900.3	757.0	143.25	6.284	
15,300.0	11,836.0	15,917.9	12,446.0	69.1	116.9	132.74	3,153.6	-176.2	900.2	753.8	146.41	6.149	
15,400.0	11,836.0	16,017.9	12,446.0	70.4	119.7	132.74	3,253.6	-177.2	900.2	750.6	149.59	6.018	
15,500.0	11,836.0	16,117.9	12,446.0	71.7	122.6	132.74	3,353.6	-178.2	900.2	747.4	152.79	5.892	
15,600.0	11,836.0	16,217.9	12,446.0	73.1	125.4	132.75	3,453.6	-179.2	900.2	744.2	156.01	5.770	
15,700.0	11,836.0	16,317.9	12,446.0	74.4	128.3	132.75	3,553.6	-180.2	900.2	740.9	159.25	5.653	
15,800.0	11,836.0	16,417.9	12,446.0	75.8	131.1	132.75	3,653.6	-181.2	900.2	737.7	162.50	5.539	
15,900.0	11,836.0	16,517.9	12,446.0	77.2	134.0	132.75	3,753.5	-182.2	900.2	734.4	165.77	5.430	
16,000.0	11,836.0	16,617.9	12,446.0	78.5	136.9	132.75	3,853.5	-183.2	900.1	731.1	169.06	5.324	
16,100.0	11,836.0	16,717.9	12,446.0	79.9	139.7	132.75	3,953.5	-184.2	900.1	727.8	172.36	5.222	
16,200.0	11,836.0	16,817.9	12,446.0	81.3	142.6	132.75	4,053.5	-185.2	900.1	724.4	175.67	5.124	
16,300.0	11,836.0	16,917.9	12,446.0	82.7	145.5	132.75	4,153.5	-186.2	900.1	721.1	178.99	5.029	
16,400.0	11,836.0	17,017.9	12,446.0	84.2	148.5	132.75	4,253.5	-187.2	900.1	717.7	182.33	4.937	
16,500.0	11,836.0	17,117.9	12,446.0	85.6	151.4	132.75	4,353.5	-188.2	900.1	714.4	185.68	4.847	
16,600.0	11,836.0	17,217.9	12,446.0	87.0	154.3	132.75	4,453.5	-189.2	900.0	711.0	189.03	4.761	
16,700.0	11,836.0	17,317.9	12,446.0	88.5	157.2	132.75	4,553.5	-190.2	900.0	707.6	192.40	4.678	
16,800.0	11,836.0	17,417.9	12,446.0	89.9	160.2	132.76	4,653.5	-191.2	900.0	704.2	195.78	4.597	
16,900.0	11,836.0	17,517.9	12,446.0	91.4	163.1	132.76	4,753.5	-192.2	900.0	700.8	199.17	4.519	
17,000.0	11,836.0	17,617.9	12,446.0	92.8	166.0	132.76	4,853.5	-193.2	900.0	697.4	202.57	4.443	
17,100.0	11,836.0	17,717.9	12,446.0	94.3	169.0	132.76	4,953.5	-194.2	900.0	694.0	205.97	4.369	
17,200.0	11,836.0	17,817.9	12,446.0	95.8	171.9	132.76	5,053.5	-195.2	900.0	690.6	209.38	4.298	
17,300.0	11,836.0	17,917.9	12,446.0	97.3	174.9	132.76	5,153.5	-196.2	899.9	687.1	212.80	4.229	
17,400.0	11,836.0	18,017.9	12,446.0	98.8	177.9	132.76	5,253.5	-197.2	899.9	683.7	216.23	4.162	
17,500.0	11,836.0	18,117.9	12,446.0	100.3	180.8	132.76	5,353.5	-198.2	899.9	680.2	219.66	4.097	
17,600.0	11,836.0	18,217.9	12,446.0	101.8	183.8	132.76	5,453.5	-199.2	899.9	676.8	223.10	4.034	
17,700.0	11,836.0	18,317.9	12,446.0	103.3	186.8	132.76	5,553.5	-200.2	899.9	673.3	226.55	3.972	
17,800.0	11,836.0	18,417.9	12,446.0	104.8	189.7	132.76	5,653.5	-201.2	899.9	669.9	230.00	3.912	
17,900.0	11,836.0	18,517.9	12,446.0	106.3	192.7	132.77	5,753.4	-202.2	899.9	666.4	233.46	3.854	
18,000.0	11,836.0	18,617.9	12,446.0	107.8	195.7	132.77	5,853.4	-203.3	899.8	662.9	236.92	3.798	
18,100.0	11,836.0	18,717.9	12,446.0	109.3	198.7	132.77	5,953.4	-204.3	899.8	659.4	240.39	3.743	
18,200.0	11,836.0	18,817.9	12,446.0	110.8	201.7	132.77	6,053.4	-205.3	899.8	655.9	243.86	3.690	
18,300.0	11,836.0	18,917.9	12,446.0	112.4	204.7	132.77	6,153.4	-206.3	899.8	652.4	247.34	3.638	
18,400.0	11,836.0	19,017.9	12,446.0	113.9	207.7	132.77	6,253.4	-207.3	899.8	648.9	250.83	3.587	
18,500.0	11,836.0	19,117.9	12,446.0	115.4	210.7	132.77	6,353.4	-208.3	899.8	645.4	254.31	3.538	
18,600.0	11,836.0	19,217.9	12,446.0	117.0	213.6	132.77	6,453.4	-209.3	899.7	641.9	257.80	3.490	
18,700.0	11,836.0	19,317.9	12,446.0	118.5	216.6	132.77	6,553.4	-210.3	899.7	638.4	261.30	3.443	
18,800.0	11,836.0	19,417.9	12,446.0	120.1	219.7	132.77	6,653.4	-211.3	899.7	634.9	264.80	3.398	
18,900.0	11,836.0	19,517.9	12,446.0	121.6	222.7	132.77	6,753.4	-212.3	899.7	631.4	268.30	3.353	
19,000.0	11,836.0	19,617.9	12,446.0	123.2	225.7	132.78	6,853.4	-213.3	899.7	627.9	271.81	3.310	
19,100.0	11,836.0	19,717.9	12,446.0	124.7	228.7	132.78	6,953.4	-214.3	899.7	624.4	275.32	3.268	
19,200.0	11,836.0	19,817.9	12,446.0	126.3	231.7	132.78	7,053.4	-215.3	899.7	620.8	278.83	3.227	
19,300.0	11,836.0	19,917.9	12,446.0	127.8	234.7	132.78	7,153.4	-216.3	899.6	617.3	282.35	3.186	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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

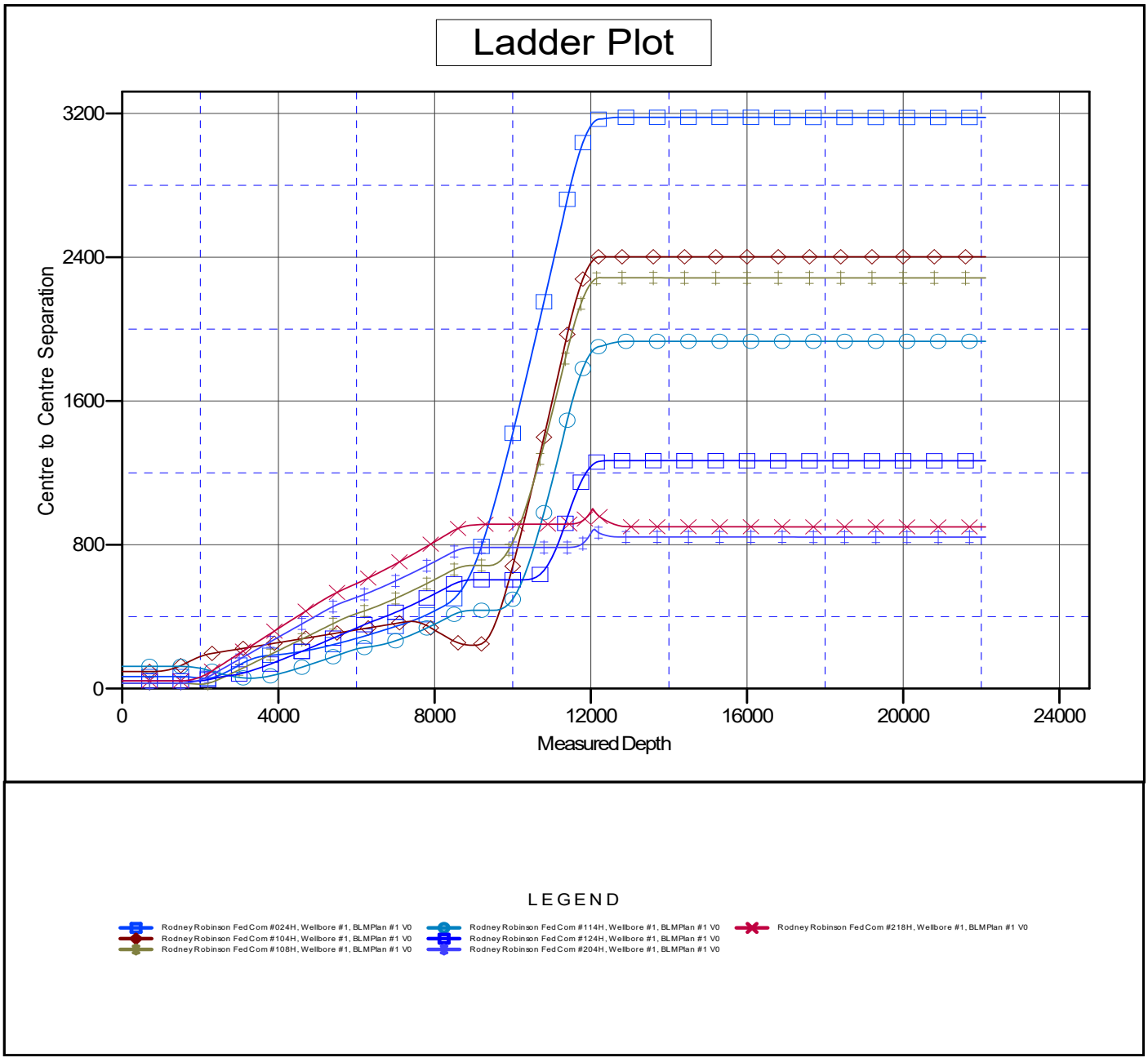
Offset Well Error: 0.0 usft

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
19,400.0	11,836.0	20,017.9	12,446.0	129.4	237.7	132.78	7,253.4	-217.3	899.6	613.8	285.87	3.147	
19,500.0	11,836.0	20,117.9	12,446.0	131.0	240.7	132.78	7,353.4	-218.3	899.6	610.2	289.39	3.109	
19,600.0	11,836.0	20,217.9	12,446.0	132.5	243.7	132.78	7,453.4	-219.3	899.6	606.7	292.92	3.071	
19,700.0	11,836.0	20,317.9	12,446.0	134.1	246.7	132.78	7,553.4	-220.3	899.6	603.1	296.44	3.035	
19,800.0	11,836.0	20,417.9	12,446.0	135.7	249.8	132.78	7,653.4	-221.3	899.6	599.6	299.97	2.999	
19,900.0	11,836.0	20,517.9	12,446.0	137.2	252.8	132.78	7,753.3	-222.3	899.5	596.0	303.51	2.964	
20,000.0	11,836.0	20,617.9	12,446.0	138.8	255.8	132.78	7,853.3	-223.3	899.5	592.5	307.04	2.930	
20,100.0	11,836.0	20,717.9	12,446.0	140.4	258.8	132.79	7,953.3	-224.3	899.5	588.9	310.58	2.896	
20,200.0	11,836.0	20,817.9	12,446.0	142.0	261.9	132.79	8,053.3	-225.3	899.5	585.4	314.12	2.864	
20,300.0	11,836.0	20,917.9	12,446.0	143.5	264.9	132.79	8,153.3	-226.3	899.5	581.8	317.66	2.832	
20,400.0	11,836.0	21,017.9	12,446.0	145.1	267.9	132.79	8,253.3	-227.3	899.5	578.3	321.21	2.800	
20,500.0	11,836.0	21,117.9	12,446.0	146.7	270.9	132.79	8,353.3	-228.3	899.5	574.7	324.76	2.770	
20,600.0	11,836.0	21,217.9	12,446.0	148.3	274.0	132.79	8,453.3	-229.3	899.4	571.1	328.30	2.740	
20,700.0	11,836.0	21,317.9	12,446.0	149.9	277.0	132.79	8,553.3	-230.3	899.4	567.6	331.86	2.710	
20,800.0	11,836.0	21,417.9	12,446.0	151.5	280.0	132.79	8,653.3	-231.3	899.4	564.0	335.41	2.682	
20,900.0	11,836.0	21,517.9	12,446.0	153.0	283.1	132.79	8,753.3	-232.3	899.4	560.4	338.96	2.653	
21,000.0	11,836.0	21,617.9	12,446.0	154.6	286.1	132.79	8,853.3	-233.3	899.4	556.9	342.52	2.626	
21,100.0	11,836.0	21,717.9	12,446.0	156.2	289.1	132.79	8,953.3	-234.3	899.4	553.3	346.08	2.599	
21,200.0	11,836.0	21,817.9	12,446.0	157.8	292.2	132.79	9,053.3	-235.3	899.4	549.7	349.64	2.572	
21,300.0	11,836.0	21,917.9	12,446.0	159.4	295.2	132.80	9,153.3	-236.3	899.3	546.1	353.20	2.546	
21,400.0	11,836.0	22,017.9	12,446.0	161.0	298.2	132.80	9,253.3	-237.3	899.3	542.6	356.76	2.521	
21,500.0	11,836.0	22,117.9	12,446.0	162.6	301.3	132.80	9,353.3	-238.3	899.3	539.0	360.32	2.496	
21,600.0	11,836.0	22,217.9	12,446.0	164.2	304.3	132.80	9,453.3	-239.3	899.3	535.4	363.89	2.471	
21,700.0	11,836.0	22,317.9	12,446.0	165.8	307.3	132.80	9,553.3	-240.3	899.3	531.8	367.46	2.447	
21,800.0	11,836.0	22,417.9	12,446.0	167.4	310.4	132.80	9,653.3	-241.4	899.3	528.2	371.02	2.424	
21,900.0	11,836.0	22,517.9	12,446.0	169.0	313.4	132.80	9,753.2	-242.4	899.2	524.7	374.59	2.401	
22,000.0	11,836.0	22,617.9	12,446.0	170.6	316.5	132.80	9,853.2	-243.4	899.2	521.1	378.16	2.378	
22,100.0	11,836.0	22,717.9	12,446.0	172.2	319.5	132.80	9,953.2	-244.4	899.2	517.5	381.73	2.356	
22,107.2	11,836.0	22,725.1	12,446.0	172.3	319.7	132.80	9,960.4	-244.4	899.2	517.2	381.99	2.354	SF
22,108.6	11,836.0	22,722.9	12,446.0	172.3	319.6	132.80	9,958.1	-244.4	899.2	517.3	381.88	2.355	

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 @ 3746.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #134H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.39°

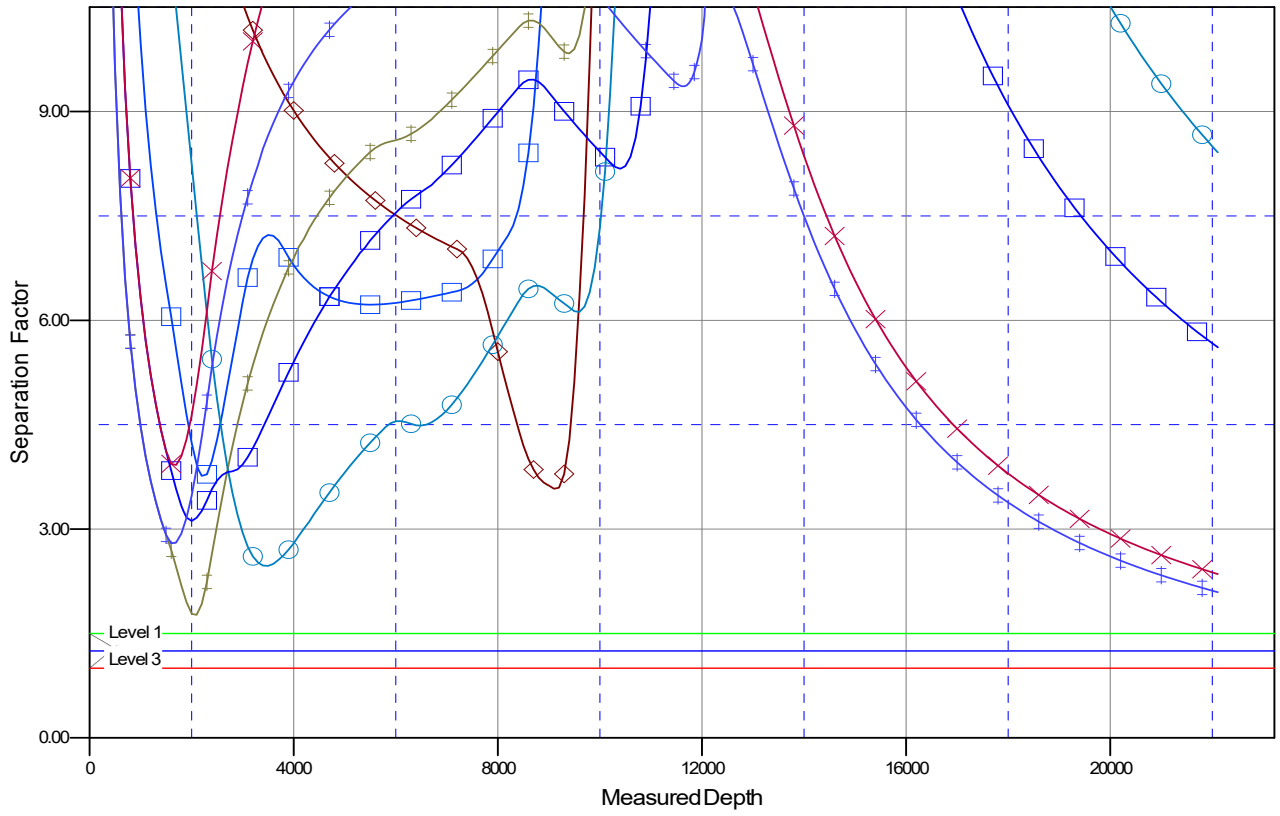


Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Project:	Antelope Ridge	**TVD Reference:**	KB @ 3746.5usft
Reference Site:	Rodney Robinson	**MD Reference:**	KB @ 3746.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Rodney Robinson Fed Com #134H	**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 @ 3746.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #134H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.39°

Separation Factor Plot



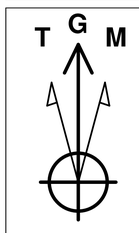
LEGEND

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 #204H, 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 #134H
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	22108.6	BLM Plan #1 (Wellbore #1)	MWD

WELL DETAILS: Rodney Robinson Fed Com #134H

GL @ 3718.0 KB @ 3746.5usft

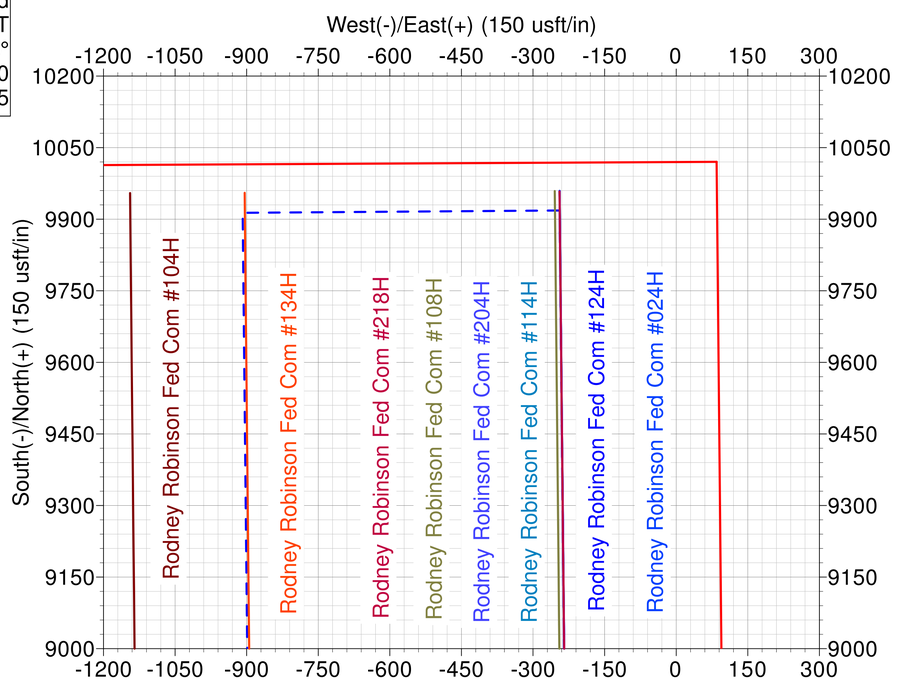
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	478494.93	725616.33	32° 18' 48.189 N	103° 36' 10.944 W	

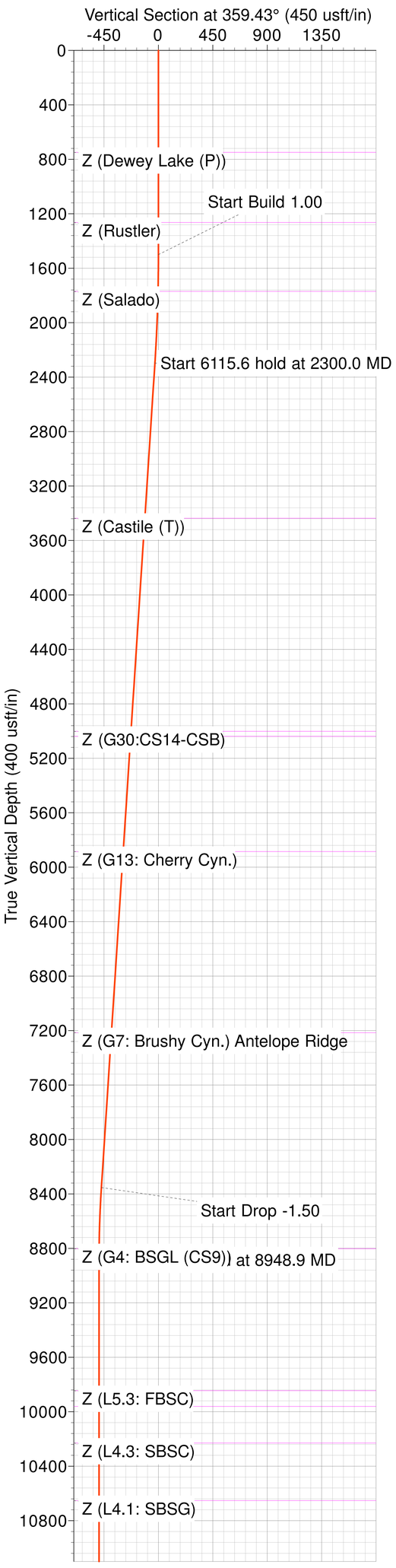
DESIGN TARGET DETAILS

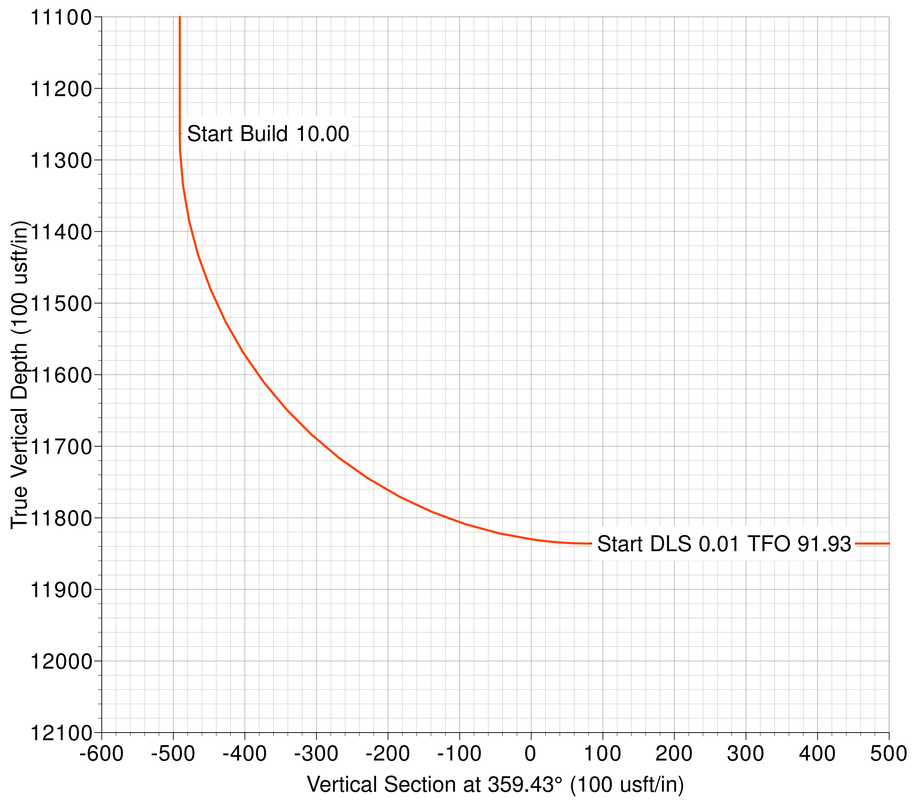
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Rodney Robinson Fed Com #134H	11263.0	-499.0	-801.4	477996.00	724815.00	32° 18' 43.306 N	103° 36' 20.321 W
BHL - Rodney Robinson Fed Com #134H	11836.0	9955.2	-904.2	488450.37	724712.15	32° 20' 26.763 N	103° 36' 20.692 W

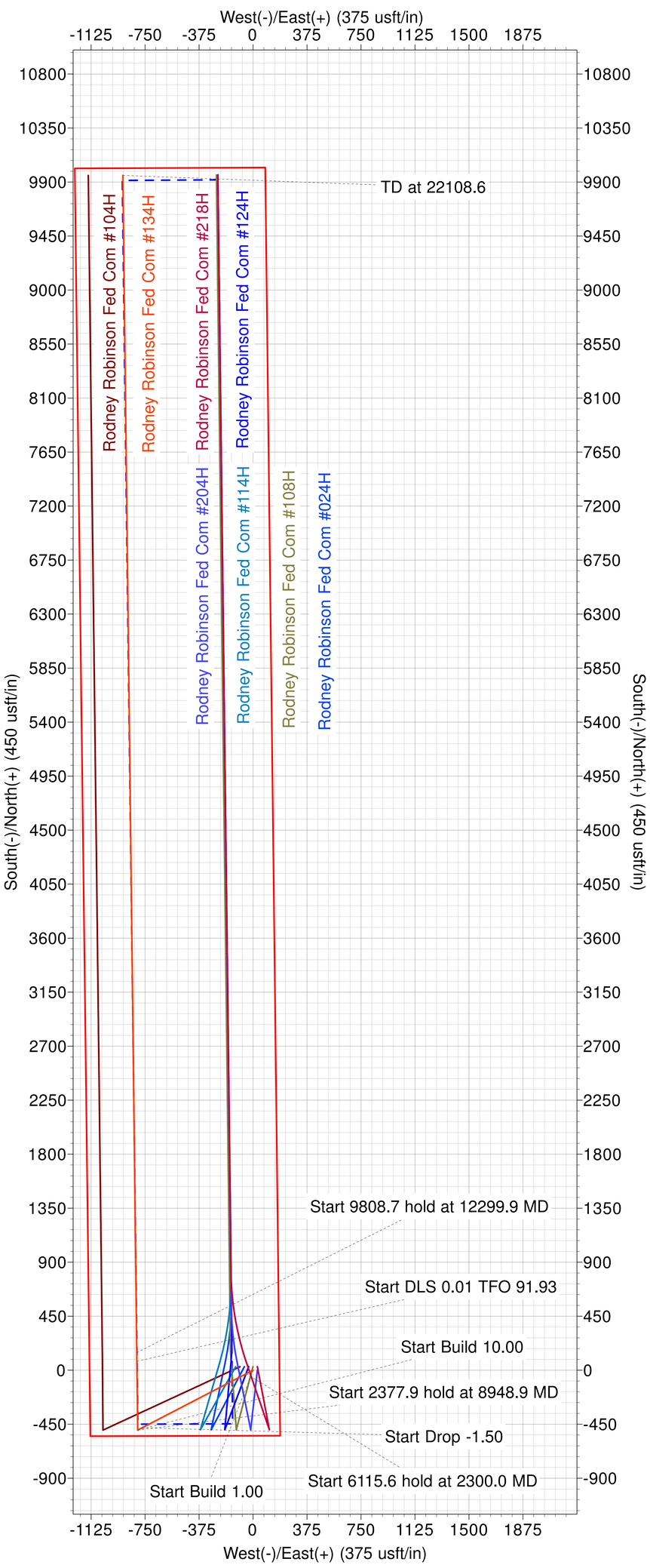
SECTION DETIALS

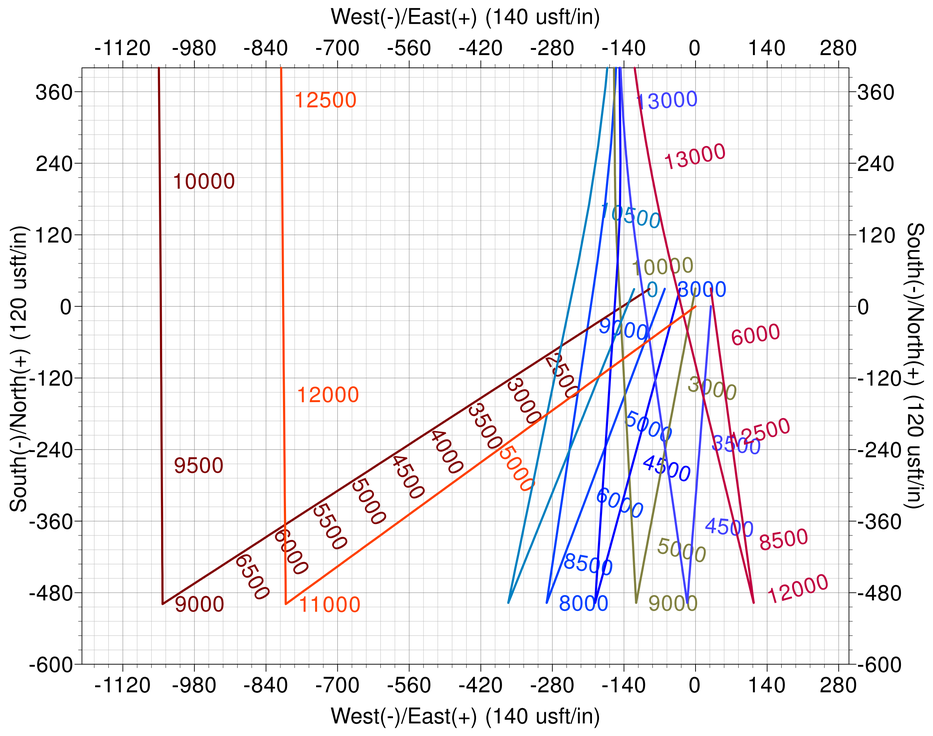
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2300.0	8.00	238.09	2297.4	-29.5	-47.3	1.00	238.09	-29.0	Start 6115.6 hold at 2300.0 MD
8415.6	8.00	238.09	8353.5	-479.3	-769.9	0.00	0.00	-471.7	Start Drop -1.50
8948.9	0.00	0.00	8885.1	-499.0	-801.4	1.50	180.00	-491.0	Start 2377.9 hold at 8948.9 MD
11326.8	0.00	0.00	11263.0	-499.0	-801.4	0.00	0.00	-491.0	Start Build 10.00
12226.8	90.00	359.43	11836.0	73.9	-807.1	10.00	359.43	82.0	Start DLS 0.01 TFO 91.93
12299.9	90.00	359.44	11836.0	147.0	-807.8	0.01	91.93	155.0	Start 9808.7 hold at 12299.9 MD
22108.6	90.00	359.44	11836.0	9955.2	-904.2	0.00	0.00	9963.7	TD at 22108.6

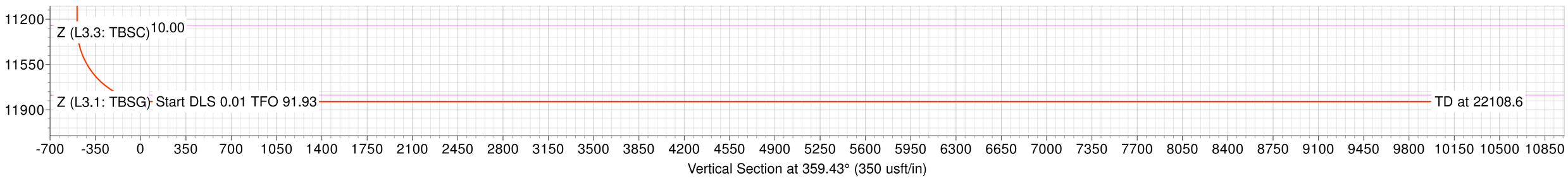












Matador Production Company

Antelope Ridge
Rodney Robinson
Rodney Robinson Fed Com #134H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

27 July, 2020

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**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 #134H

Well Position	**+N/-S**	183.6 usft	**Northing:**	478,494.93 usft	**Latitude:**	32° 18' 48.189 N
	+E/-W	1,543.7 usft	**Easting:**	725,616.33 usft	**Longitude:**	103° 36' 10.944 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,718.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/27/2020	6.64	60.10	47,665.56265233

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	22,108.6	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	238.09	2,297.4	-29.5	-47.3	1.00	1.00	0.00	238.09	
8,415.6	8.00	238.09	8,353.5	-479.3	-769.9	0.00	0.00	0.00	0.00	
8,948.9	0.00	0.00	8,885.1	-499.0	-801.4	1.50	-1.50	0.00	180.00	
11,326.8	0.00	0.00	11,263.0	-499.0	-801.4	0.00	0.00	0.00	0.00	VP - Rodney Robinso
12,226.8	90.00	359.43	11,836.0	73.9	-807.1	10.00	10.00	0.00	359.43	
12,299.9	90.00	359.44	11,836.0	147.0	-807.8	0.01	0.00	0.01	91.93	
22,108.6	90.00	359.44	11,836.0	9,955.2	-904.2	0.00	0.00	0.00	0.00	BHL - Rodney Robins

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**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	238.09	1,600.0	-0.5	-0.7	-0.5	1.00	1.00	0.00
1,700.0	2.00	238.09	1,700.0	-1.8	-3.0	-1.8	1.00	1.00	0.00
1,770.1	2.70	238.09	1,770.0	-3.4	-5.4	-3.3	1.00	1.00	0.00
Z (Salado)									
1,800.0	3.00	238.09	1,799.9	-4.2	-6.7	-4.1	1.00	1.00	0.00
1,900.0	4.00	238.09	1,899.7	-7.4	-11.8	-7.3	1.00	1.00	0.00
2,000.0	5.00	238.09	1,999.4	-11.5	-18.5	-11.3	1.00	1.00	0.00
2,100.0	6.00	238.09	2,098.9	-16.6	-26.6	-16.3	1.00	1.00	0.00
2,200.0	7.00	238.09	2,198.3	-22.6	-36.3	-22.2	1.00	1.00	0.00
2,300.0	8.00	238.09	2,297.4	-29.5	-47.3	-29.0	1.00	1.00	0.00
Start 6115.6 hold at 2300.0 MD									
2,400.0	8.00	238.09	2,396.4	-36.8	-59.1	-36.2	0.00	0.00	0.00
2,500.0	8.00	238.09	2,495.5	-44.2	-71.0	-43.5	0.00	0.00	0.00
2,600.0	8.00	238.09	2,594.5	-51.5	-82.8	-50.7	0.00	0.00	0.00
2,700.0	8.00	238.09	2,693.5	-58.9	-94.6	-58.0	0.00	0.00	0.00
2,800.0	8.00	238.09	2,792.5	-66.3	-106.4	-65.2	0.00	0.00	0.00
2,900.0	8.00	238.09	2,891.6	-73.6	-118.2	-72.4	0.00	0.00	0.00
3,000.0	8.00	238.09	2,990.6	-81.0	-130.0	-79.7	0.00	0.00	0.00
3,100.0	8.00	238.09	3,089.6	-88.3	-141.8	-86.9	0.00	0.00	0.00
3,200.0	8.00	238.09	3,188.6	-95.7	-153.7	-94.1	0.00	0.00	0.00
3,300.0	8.00	238.09	3,287.7	-103.0	-165.5	-101.4	0.00	0.00	0.00
3,400.0	8.00	238.09	3,386.7	-110.4	-177.3	-108.6	0.00	0.00	0.00
3,450.8	8.00	238.09	3,437.0	-114.1	-183.3	-112.3	0.00	0.00	0.00
Z (Castile (T))									
3,500.0	8.00	238.09	3,485.7	-117.7	-189.1	-115.9	0.00	0.00	0.00
3,600.0	8.00	238.09	3,584.8	-125.1	-200.9	-123.1	0.00	0.00	0.00
3,700.0	8.00	238.09	3,683.8	-132.5	-212.7	-130.3	0.00	0.00	0.00
3,800.0	8.00	238.09	3,782.8	-139.8	-224.6	-137.6	0.00	0.00	0.00
3,900.0	8.00	238.09	3,881.8	-147.2	-236.4	-144.8	0.00	0.00	0.00
4,000.0	8.00	238.09	3,980.9	-154.5	-248.2	-152.0	0.00	0.00	0.00
4,100.0	8.00	238.09	4,079.9	-161.9	-260.0	-159.3	0.00	0.00	0.00
4,200.0	8.00	238.09	4,178.9	-169.2	-271.8	-166.5	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**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	238.09	4,277.9	-176.6	-283.6	-173.8	0.00	0.00	0.00
4,400.0	8.00	238.09	4,377.0	-183.9	-295.4	-181.0	0.00	0.00	0.00
4,500.0	8.00	238.09	4,476.0	-191.3	-307.3	-188.2	0.00	0.00	0.00
4,600.0	8.00	238.09	4,575.0	-198.7	-319.1	-195.5	0.00	0.00	0.00
4,700.0	8.00	238.09	4,674.0	-206.0	-330.9	-202.7	0.00	0.00	0.00
4,800.0	8.00	238.09	4,773.1	-213.4	-342.7	-210.0	0.00	0.00	0.00
4,900.0	8.00	238.09	4,872.1	-220.7	-354.5	-217.2	0.00	0.00	0.00
5,000.0	8.00	238.09	4,971.1	-228.1	-366.3	-224.4	0.00	0.00	0.00
5,031.2	8.00	238.09	5,002.0	-230.4	-370.0	-226.7	0.00	0.00	0.00
Z (G30:CS14-CSB)									
5,068.5	8.00	238.09	5,039.0	-233.1	-374.4	-229.4	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
5,100.0	8.00	238.09	5,070.2	-235.4	-378.1	-231.7	0.00	0.00	0.00
5,200.0	8.00	238.09	5,169.2	-242.8	-390.0	-238.9	0.00	0.00	0.00
5,300.0	8.00	238.09	5,268.2	-250.2	-401.8	-246.1	0.00	0.00	0.00
5,400.0	8.00	238.09	5,367.2	-257.5	-413.6	-253.4	0.00	0.00	0.00
5,500.0	8.00	238.09	5,466.3	-264.9	-425.4	-260.6	0.00	0.00	0.00
5,600.0	8.00	238.09	5,565.3	-272.2	-437.2	-267.9	0.00	0.00	0.00
5,700.0	8.00	238.09	5,664.3	-279.6	-449.0	-275.1	0.00	0.00	0.00
5,800.0	8.00	238.09	5,763.3	-286.9	-460.8	-282.3	0.00	0.00	0.00
5,900.0	8.00	238.09	5,862.4	-294.3	-472.7	-289.6	0.00	0.00	0.00
5,922.9	8.00	238.09	5,885.0	-296.0	-475.4	-291.2	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
6,000.0	8.00	238.09	5,961.4	-301.6	-484.5	-296.8	0.00	0.00	0.00
6,100.0	8.00	238.09	6,060.4	-309.0	-496.3	-304.0	0.00	0.00	0.00
6,200.0	8.00	238.09	6,159.4	-316.4	-508.1	-311.3	0.00	0.00	0.00
6,300.0	8.00	238.09	6,258.5	-323.7	-519.9	-318.5	0.00	0.00	0.00
6,400.0	8.00	238.09	6,357.5	-331.1	-531.7	-325.8	0.00	0.00	0.00
6,500.0	8.00	238.09	6,456.5	-338.4	-543.5	-333.0	0.00	0.00	0.00
6,600.0	8.00	238.09	6,555.6	-345.8	-555.4	-340.2	0.00	0.00	0.00
6,700.0	8.00	238.09	6,654.6	-353.1	-567.2	-347.5	0.00	0.00	0.00
6,800.0	8.00	238.09	6,753.6	-360.5	-579.0	-354.7	0.00	0.00	0.00
6,900.0	8.00	238.09	6,852.6	-367.8	-590.8	-362.0	0.00	0.00	0.00
7,000.0	8.00	238.09	6,951.7	-375.2	-602.6	-369.2	0.00	0.00	0.00
7,100.0	8.00	238.09	7,050.7	-382.6	-614.4	-376.4	0.00	0.00	0.00
7,200.0	8.00	238.09	7,149.7	-389.9	-626.2	-383.7	0.00	0.00	0.00
7,266.9	8.00	238.09	7,216.0	-394.8	-634.1	-388.5	0.00	0.00	0.00
Z (G7: Brushy Cyn.) Antelope Ridge									
7,300.0	8.00	238.09	7,248.7	-397.3	-638.1	-390.9	0.00	0.00	0.00
7,400.0	8.00	238.09	7,347.8	-404.6	-649.9	-398.1	0.00	0.00	0.00
7,500.0	8.00	238.09	7,446.8	-412.0	-661.7	-405.4	0.00	0.00	0.00
7,600.0	8.00	238.09	7,545.8	-419.3	-673.5	-412.6	0.00	0.00	0.00
7,700.0	8.00	238.09	7,644.9	-426.7	-685.3	-419.9	0.00	0.00	0.00
7,800.0	8.00	238.09	7,743.9	-434.1	-697.1	-427.1	0.00	0.00	0.00
7,900.0	8.00	238.09	7,842.9	-441.4	-708.9	-434.3	0.00	0.00	0.00
8,000.0	8.00	238.09	7,941.9	-448.8	-720.8	-441.6	0.00	0.00	0.00
8,100.0	8.00	238.09	8,041.0	-456.1	-732.6	-448.8	0.00	0.00	0.00
8,200.0	8.00	238.09	8,140.0	-463.5	-744.4	-456.0	0.00	0.00	0.00
8,300.0	8.00	238.09	8,239.0	-470.8	-756.2	-463.3	0.00	0.00	0.00
8,400.0	8.00	238.09	8,338.0	-478.2	-768.0	-470.5	0.00	0.00	0.00
8,415.6	8.00	238.09	8,353.5	-479.3	-769.9	-471.7	0.00	0.00	0.00
Start Drop -1.50									
8,500.0	6.73	238.09	8,437.2	-485.1	-779.0	-477.3	1.50	-1.50	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**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)
8,600.0	5.23	238.09	8,536.6	-490.6	-787.9	-482.7	1.50	-1.50	0.00
8,700.0	3.73	238.09	8,636.3	-494.7	-794.5	-486.8	1.50	-1.50	0.00
8,800.0	2.23	238.09	8,736.2	-497.4	-798.9	-489.5	1.50	-1.50	0.00
8,865.8	1.25	238.09	8,802.0	-498.5	-800.6	-490.5	1.50	-1.50	0.00
Z (G4: BSGL (CS9))									
8,900.0	0.73	238.09	8,836.2	-498.8	-801.1	-490.8	1.50	-1.50	0.00
8,948.9	0.00	0.00	8,885.1	-499.0	-801.4	-491.0	1.50	-1.50	0.00
Start 2377.9 hold at 8948.9 MD									
9,000.0	0.00	0.00	8,936.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,036.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,136.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,236.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,336.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,436.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,536.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,636.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,736.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,836.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
9,908.8	0.00	0.00	9,845.0	-499.0	-801.4	-491.0	0.00	0.00	0.00
Z (L5.3: FBSC)									
10,000.0	0.00	0.00	9,936.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,024.8	0.00	0.00	9,961.0	-499.0	-801.4	-491.0	0.00	0.00	0.00
Z (L5.1: FBSG)									
10,100.0	0.00	0.00	10,036.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,136.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,293.8	0.00	0.00	10,230.0	-499.0	-801.4	-491.0	0.00	0.00	0.00
Z (L4.3: SBSC)									
10,300.0	0.00	0.00	10,236.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,336.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,436.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,536.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,636.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,716.8	0.00	0.00	10,653.0	-499.0	-801.4	-491.0	0.00	0.00	0.00
Z (L4.1: SBSG)									
10,800.0	0.00	0.00	10,736.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,836.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,936.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,036.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,136.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,236.2	-499.0	-801.4	-491.0	0.00	0.00	0.00
11,312.8	0.00	0.00	11,249.0	-499.0	-801.4	-491.0	0.00	0.00	0.00
Z (L3.3: TBSC)									
11,326.8	0.00	0.00	11,263.0	-499.0	-801.4	-491.0	0.00	0.00	0.00
Start Build 10.00 - VP - Rodney Robinson Fed Com #134H									
11,400.0	7.32	359.43	11,336.0	-494.3	-801.5	-486.3	10.00	10.00	0.00
11,500.0	17.32	359.43	11,433.5	-473.0	-801.7	-465.0	10.00	10.00	0.00
11,600.0	27.32	359.43	11,525.9	-435.1	-802.0	-427.1	10.00	10.00	0.00
11,700.0	37.32	359.43	11,610.3	-381.7	-802.6	-373.7	10.00	10.00	0.00
11,800.0	47.32	359.43	11,684.2	-314.5	-803.2	-306.5	10.00	10.00	0.00
11,900.0	57.32	359.43	11,745.2	-235.4	-804.0	-227.4	10.00	10.00	0.00
11,985.8	65.90	359.43	11,786.0	-160.0	-804.8	-152.0	10.00	10.00	0.00
Z (L3.1: TBSG)									
12,000.0	67.32	359.43	11,791.6	-147.0	-804.9	-139.0	10.00	10.00	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**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	77.32	359.43	11,822.0	-51.9	-805.9	-43.8	10.00	10.00	0.00
12,200.0	87.32	359.43	11,835.3	47.1	-806.8	55.1	10.00	10.00	0.00
12,226.8	90.00	359.43	11,836.0	73.9	-807.1	82.0	10.00	10.00	0.00
Start DLS 0.01 TFO 91.93									
12,299.9	90.00	359.44	11,836.0	147.0	-807.8	155.0	0.01	0.00	0.01
Start 9808.7 hold at 12299.9 MD									
12,300.0	90.00	359.44	11,836.0	147.1	-807.8	155.1	0.00	0.00	0.00
12,400.0	90.00	359.44	11,836.0	247.1	-808.8	255.1	0.00	0.00	0.00
12,500.0	90.00	359.44	11,836.0	347.1	-809.8	355.1	0.00	0.00	0.00
12,600.0	90.00	359.44	11,836.0	447.1	-810.8	455.1	0.00	0.00	0.00
12,700.0	90.00	359.44	11,836.0	547.1	-811.8	555.1	0.00	0.00	0.00
12,800.0	90.00	359.44	11,836.0	647.1	-812.7	655.1	0.00	0.00	0.00
12,900.0	90.00	359.44	11,836.0	747.1	-813.7	755.1	0.00	0.00	0.00
13,000.0	90.00	359.44	11,836.0	847.1	-814.7	855.1	0.00	0.00	0.00
13,100.0	90.00	359.44	11,836.0	947.1	-815.7	955.1	0.00	0.00	0.00
13,200.0	90.00	359.44	11,836.0	1,047.1	-816.7	1,055.1	0.00	0.00	0.00
13,300.0	90.00	359.44	11,836.0	1,147.1	-817.7	1,155.1	0.00	0.00	0.00
13,400.0	90.00	359.44	11,836.0	1,247.0	-818.6	1,255.1	0.00	0.00	0.00
13,500.0	90.00	359.44	11,836.0	1,347.0	-819.6	1,355.1	0.00	0.00	0.00
13,600.0	90.00	359.44	11,836.0	1,447.0	-820.6	1,455.1	0.00	0.00	0.00
13,700.0	90.00	359.44	11,836.0	1,547.0	-821.6	1,555.1	0.00	0.00	0.00
13,800.0	90.00	359.44	11,836.0	1,647.0	-822.6	1,655.1	0.00	0.00	0.00
13,900.0	90.00	359.44	11,836.0	1,747.0	-823.5	1,755.1	0.00	0.00	0.00
14,000.0	90.00	359.44	11,836.0	1,847.0	-824.5	1,855.1	0.00	0.00	0.00
14,100.0	90.00	359.44	11,836.0	1,947.0	-825.5	1,955.1	0.00	0.00	0.00
14,200.0	90.00	359.44	11,836.0	2,047.0	-826.5	2,055.1	0.00	0.00	0.00
14,300.0	90.00	359.44	11,836.0	2,147.0	-827.5	2,155.1	0.00	0.00	0.00
14,400.0	90.00	359.44	11,836.0	2,247.0	-828.5	2,255.1	0.00	0.00	0.00
14,500.0	90.00	359.44	11,836.0	2,347.0	-829.4	2,355.1	0.00	0.00	0.00
14,600.0	90.00	359.44	11,836.0	2,447.0	-830.4	2,455.1	0.00	0.00	0.00
14,700.0	90.00	359.44	11,836.0	2,547.0	-831.4	2,555.1	0.00	0.00	0.00
14,800.0	90.00	359.44	11,836.0	2,647.0	-832.4	2,655.1	0.00	0.00	0.00
14,900.0	90.00	359.44	11,836.0	2,747.0	-833.4	2,755.1	0.00	0.00	0.00
15,000.0	90.00	359.44	11,836.0	2,847.0	-834.3	2,855.1	0.00	0.00	0.00
15,100.0	90.00	359.44	11,836.0	2,947.0	-835.3	2,955.1	0.00	0.00	0.00
15,200.0	90.00	359.44	11,836.0	3,047.0	-836.3	3,055.1	0.00	0.00	0.00
15,300.0	90.00	359.44	11,836.0	3,147.0	-837.3	3,155.1	0.00	0.00	0.00
15,400.0	90.00	359.44	11,836.0	3,246.9	-838.3	3,255.1	0.00	0.00	0.00
15,500.0	90.00	359.44	11,836.0	3,346.9	-839.3	3,355.1	0.00	0.00	0.00
15,600.0	90.00	359.44	11,836.0	3,446.9	-840.2	3,455.1	0.00	0.00	0.00
15,700.0	90.00	359.44	11,836.0	3,546.9	-841.2	3,555.1	0.00	0.00	0.00
15,800.0	90.00	359.44	11,836.0	3,646.9	-842.2	3,655.1	0.00	0.00	0.00
15,900.0	90.00	359.44	11,836.0	3,746.9	-843.2	3,755.1	0.00	0.00	0.00
16,000.0	90.00	359.44	11,836.0	3,846.9	-844.2	3,855.1	0.00	0.00	0.00
16,100.0	90.00	359.44	11,836.0	3,946.9	-845.2	3,955.1	0.00	0.00	0.00
16,200.0	90.00	359.44	11,836.0	4,046.9	-846.1	4,055.1	0.00	0.00	0.00
16,300.0	90.00	359.44	11,836.0	4,146.9	-847.1	4,155.1	0.00	0.00	0.00
16,400.0	90.00	359.44	11,836.0	4,246.9	-848.1	4,255.1	0.00	0.00	0.00
16,500.0	90.00	359.44	11,836.0	4,346.9	-849.1	4,355.1	0.00	0.00	0.00
16,600.0	90.00	359.44	11,836.0	4,446.9	-850.1	4,455.1	0.00	0.00	0.00
16,700.0	90.00	359.44	11,836.0	4,546.9	-851.0	4,555.1	0.00	0.00	0.00
16,800.0	90.00	359.44	11,836.0	4,646.9	-852.0	4,655.1	0.00	0.00	0.00
16,900.0	90.00	359.44	11,836.0	4,746.9	-853.0	4,755.1	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,000.0	90.00	359.44	11,836.0	4,846.9	-854.0	4,855.1	0.00	0.00	0.00
17,100.0	90.00	359.44	11,836.0	4,946.9	-855.0	4,955.1	0.00	0.00	0.00
17,200.0	90.00	359.44	11,836.0	5,046.9	-856.0	5,055.1	0.00	0.00	0.00
17,300.0	90.00	359.44	11,836.0	5,146.9	-856.9	5,155.1	0.00	0.00	0.00
17,400.0	90.00	359.44	11,836.0	5,246.9	-857.9	5,255.1	0.00	0.00	0.00
17,500.0	90.00	359.44	11,836.0	5,346.8	-858.9	5,355.1	0.00	0.00	0.00
17,600.0	90.00	359.44	11,836.0	5,446.8	-859.9	5,455.1	0.00	0.00	0.00
17,700.0	90.00	359.44	11,836.0	5,546.8	-860.9	5,555.1	0.00	0.00	0.00
17,800.0	90.00	359.44	11,836.0	5,646.8	-861.8	5,655.1	0.00	0.00	0.00
17,900.0	90.00	359.44	11,836.0	5,746.8	-862.8	5,755.1	0.00	0.00	0.00
18,000.0	90.00	359.44	11,836.0	5,846.8	-863.8	5,855.1	0.00	0.00	0.00
18,100.0	90.00	359.44	11,836.0	5,946.8	-864.8	5,955.1	0.00	0.00	0.00
18,200.0	90.00	359.44	11,836.0	6,046.8	-865.8	6,055.1	0.00	0.00	0.00
18,300.0	90.00	359.44	11,836.0	6,146.8	-866.8	6,155.1	0.00	0.00	0.00
18,400.0	90.00	359.44	11,836.0	6,246.8	-867.7	6,255.1	0.00	0.00	0.00
18,500.0	90.00	359.44	11,836.0	6,346.8	-868.7	6,355.1	0.00	0.00	0.00
18,600.0	90.00	359.44	11,836.0	6,446.8	-869.7	6,455.1	0.00	0.00	0.00
18,700.0	90.00	359.44	11,836.0	6,546.8	-870.7	6,555.1	0.00	0.00	0.00
18,800.0	90.00	359.44	11,836.0	6,646.8	-871.7	6,655.1	0.00	0.00	0.00
18,900.0	90.00	359.44	11,836.0	6,746.8	-872.7	6,755.1	0.00	0.00	0.00
19,000.0	90.00	359.44	11,836.0	6,846.8	-873.6	6,855.1	0.00	0.00	0.00
19,100.0	90.00	359.44	11,836.0	6,946.8	-874.6	6,955.1	0.00	0.00	0.00
19,200.0	90.00	359.44	11,836.0	7,046.8	-875.6	7,055.1	0.00	0.00	0.00
19,300.0	90.00	359.44	11,836.0	7,146.8	-876.6	7,155.1	0.00	0.00	0.00
19,400.0	90.00	359.44	11,836.0	7,246.8	-877.6	7,255.1	0.00	0.00	0.00
19,500.0	90.00	359.44	11,836.0	7,346.8	-878.5	7,355.1	0.00	0.00	0.00
19,600.0	90.00	359.44	11,836.0	7,446.7	-879.5	7,455.1	0.00	0.00	0.00
19,700.0	90.00	359.44	11,836.0	7,546.7	-880.5	7,555.1	0.00	0.00	0.00
19,800.0	90.00	359.44	11,836.0	7,646.7	-881.5	7,655.1	0.00	0.00	0.00
19,900.0	90.00	359.44	11,836.0	7,746.7	-882.5	7,755.1	0.00	0.00	0.00
20,000.0	90.00	359.44	11,836.0	7,846.7	-883.5	7,855.1	0.00	0.00	0.00
20,100.0	90.00	359.44	11,836.0	7,946.7	-884.4	7,955.1	0.00	0.00	0.00
20,200.0	90.00	359.44	11,836.0	8,046.7	-885.4	8,055.1	0.00	0.00	0.00
20,300.0	90.00	359.44	11,836.0	8,146.7	-886.4	8,155.1	0.00	0.00	0.00
20,400.0	90.00	359.44	11,836.0	8,246.7	-887.4	8,255.1	0.00	0.00	0.00
20,500.0	90.00	359.44	11,836.0	8,346.7	-888.4	8,355.1	0.00	0.00	0.00
20,600.0	90.00	359.44	11,836.0	8,446.7	-889.3	8,455.1	0.00	0.00	0.00
20,700.0	90.00	359.44	11,836.0	8,546.7	-890.3	8,555.1	0.00	0.00	0.00
20,800.0	90.00	359.44	11,836.0	8,646.7	-891.3	8,655.1	0.00	0.00	0.00
20,900.0	90.00	359.44	11,836.0	8,746.7	-892.3	8,755.1	0.00	0.00	0.00
21,000.0	90.00	359.44	11,836.0	8,846.7	-893.3	8,855.1	0.00	0.00	0.00
21,100.0	90.00	359.44	11,836.0	8,946.7	-894.3	8,955.1	0.00	0.00	0.00
21,200.0	90.00	359.44	11,836.0	9,046.7	-895.2	9,055.1	0.00	0.00	0.00
21,300.0	90.00	359.44	11,836.0	9,146.7	-896.2	9,155.1	0.00	0.00	0.00
21,400.0	90.00	359.44	11,836.0	9,246.7	-897.2	9,255.1	0.00	0.00	0.00
21,500.0	90.00	359.44	11,836.0	9,346.7	-898.2	9,355.1	0.00	0.00	0.00
21,600.0	90.00	359.44	11,836.0	9,446.7	-899.2	9,455.1	0.00	0.00	0.00
21,700.0	90.00	359.44	11,836.0	9,546.6	-900.1	9,555.1	0.00	0.00	0.00
21,800.0	90.00	359.44	11,836.0	9,646.6	-901.1	9,655.1	0.00	0.00	0.00
21,900.0	90.00	359.44	11,836.0	9,746.6	-902.1	9,755.1	0.00	0.00	0.00
22,000.0	90.00	359.44	11,836.0	9,846.6	-903.1	9,855.1	0.00	0.00	0.00
22,100.0	90.00	359.44	11,836.0	9,946.6	-904.1	9,955.1	0.00	0.00	0.00
22,108.6	90.00	359.44	11,836.0	9,955.2	-904.2	9,963.7	0.00	0.00	0.00

TD at 22108.6 - BHL - Rodney Robinson Fed Com #134H

Database:	EDM 5000.14 Single User Db	**Local Co-ordinate Reference:**	Well Rodney Robinson Fed Com #134H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3746.5usft
Project:	Antelope Ridge	**MD Reference:**	KB @ 3746.5usft
Site:	Rodney Robinson	**North Reference:**	Grid
Well:	Rodney Robinson Fed Com #134H	**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)

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	11,263.0	-499.0	-801.4	477,996.00	724,815.00	32° 18' 43.306 N	103° 36' 20.321 W
BHL - Rodney Robinson - plan hits target center - Point	0.00	359.61	11,836.0	9,955.2	-904.2	488,450.38	724,712.14	32° 20' 26.763 N	103° 36' 20.692 W

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.)			
5,922.9	5,885.0	Z (G13: Cherry Cyn.)			
7,266.9	7,216.0	Z (G7: Brushy Cyn.) Antelope Ridge			
8,865.8	8,802.0	Z (G4: BSGL (CS9))			
9,908.8	9,845.0	Z (L5.3: FBSC)			
10,024.8	9,961.0	Z (L5.1: FBSG)			
10,293.8	10,230.0	Z (L4.3: SBSC)			
10,716.8	10,653.0	Z (L4.1: SBSG)			
11,312.8	11,249.0	Z (L3.3: TBSC)			
11,985.8	11,786.0	Z (L3.1: TBSG)			

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	-29.5	-47.3	Start 6115.6 hold at 2300.0 MD
8,415.6	8,353.5	-479.3	-769.9	Start Drop -1.50
8,948.9	8,885.1	-499.0	-801.4	Start 2377.9 hold at 8948.9 MD
11,326.8	11,263.0	-499.0	-801.4	Start Build 10.00
12,226.8	11,836.0	73.9	-807.1	Start DLS 0.01 TFO 91.93
12,299.9	11,836.0	147.0	-807.8	Start 9808.7 hold at 12299.9 MD
22,108.6	11,836.0	9,955.2	-904.2	TD at 22108.6