

Submit a Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☐ FEDERAL ☐
2. Name of Operator		6. State Oil & Gas Lease No.
3. Address of Operator		7. Lease Name or Unit Agreement Name
4. Well Location Unit Letter _____: _____ feet from the _____ line and _____ feet from the _____ line Section _____ Township _____ Range _____ NMPM _____ County _____		8. Well Number
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number
		10. Pool name or Wildcat

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

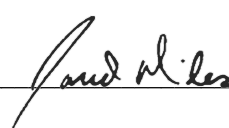
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE _____ DATE _____

Type or print name _____ E-mail address: _____ PHONE: _____

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-53205	Pool Code 97927	Pool Name WC-025 G-07 S213330F;BONE SPRING
Property Code 336085	Property Name CHARLIE KS STATE COM	Well Number 147H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3617'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	6	22-S	33-E	-	601' S	842' E	N 32.4152700	W 103.6058305	LEA

Bottom Hole Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	30	21-S	33-E	-	2526' S	2024' E	N 32.4495863	W 103.6096890	LEA

Dedicated Acres 240	Infill or Defining Well Infill	Defining Well API 30-025-52694	Overlapping Spacing Unit (Y/N) Yes	Consolidated Code C
Order Numbers N/A			Well Setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	6	22-S	33-E	-	50' S	2024' E	N 32.4137590	W 103.6096618	LEA

First Take Point (FTP)

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	6	22-S	33-E	-	100' S	2024' E	N 32.4138964	W 103.6096618	LEA

Last Take Point (LTP)

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	30	21-S	33-E	-	2526' S	2024' E	N 32.4495863	W 103.6096890	LEA

Unitized Area or Area of Uniform Interest N/A	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3617'
--	--	---------------------------------

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Signature David W. Johns	Date 05/13/25
Print Name djohns@matadorresources.com	
E-mail Address	

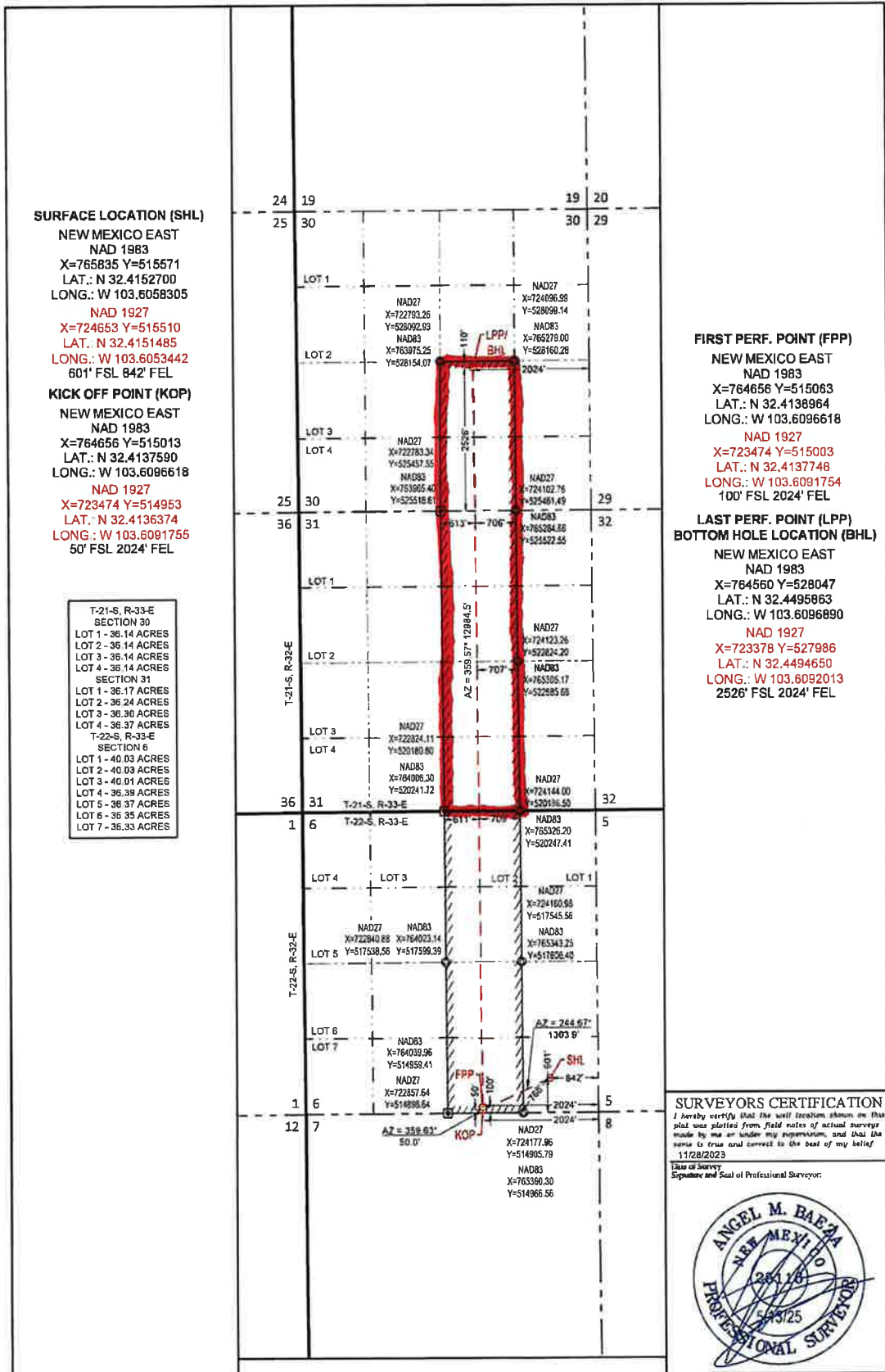
SURVEYORS CERTIFICATION

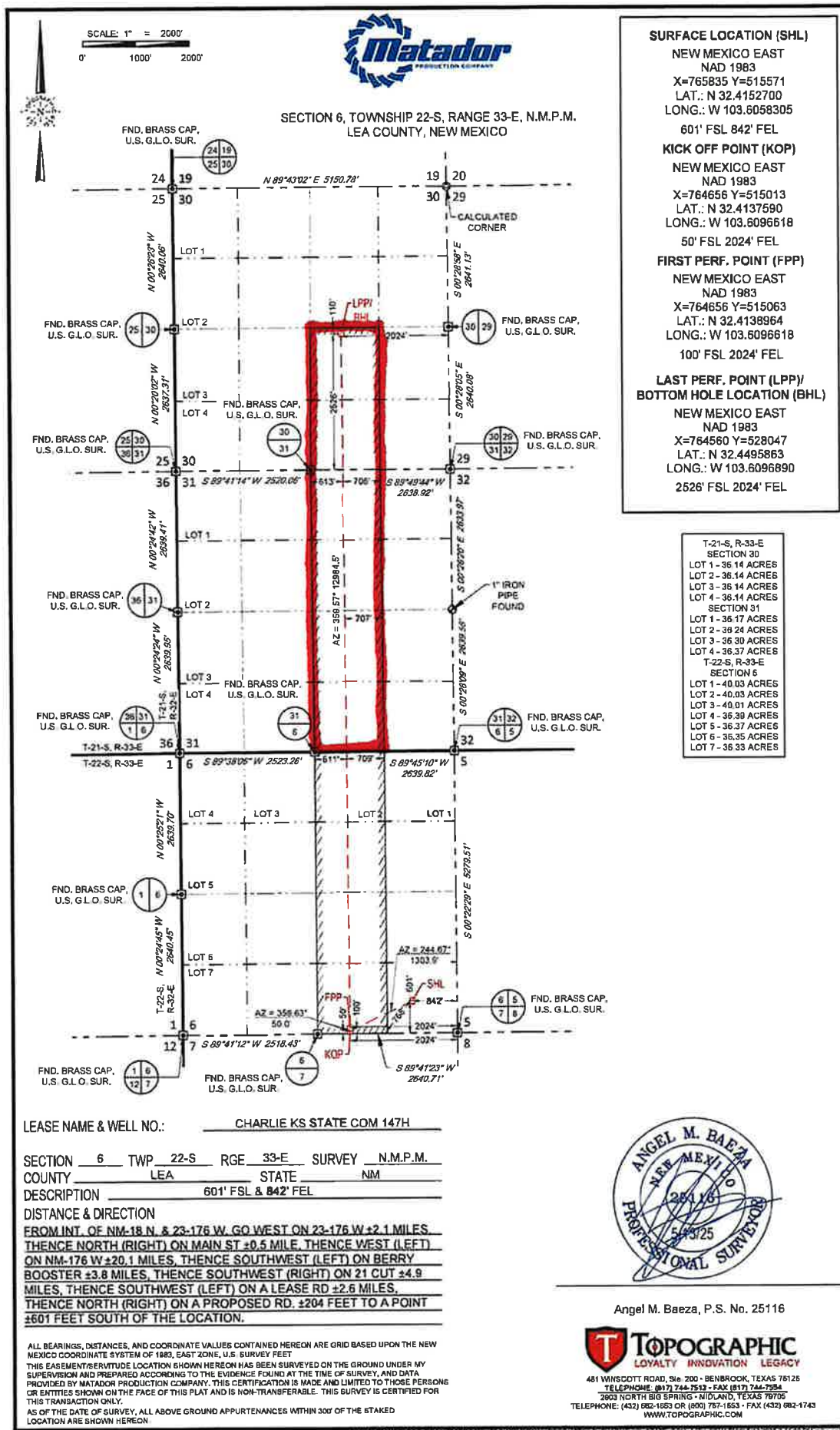
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Signature and Seal of Professional Surveyor	Date 5/13/25
Certificate Number 25116	Date of Survey 11/28/2023

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled
Property Name and Well Number CHARLIE KS STATE COM 147H			





C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-53205	Pool Code 37870	Pool Name LEGG;BONE SPRING
Property Code 336085	Property Name CHARLIE KS STATE COM	Well Number 147H
OGRID No 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 3617'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
P	6	22-S	33-E	-	601' S	842' E	N 32.4152700	W 103.6058305	LEA

Bottom Hole Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	30	21-S	33-E	-	2526' S	2024' E	N 32.4495863	W 103.6096890	LEA

Dedicated Acres 160.03	Infill or Defining Well Infill	Defining Well API 30-025-52694	Overlapping Spacing Unit (Y/N) Yes	Consolidated Code C
Order Numbers N/A			Well Setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	6	22-S	33-E	-	50' S	2024' E	N 32.4137590	W 103.6096618	LEA

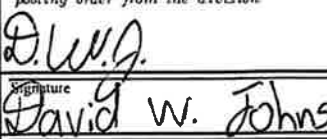
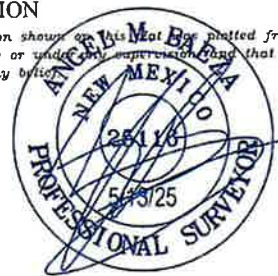
First Take Point (FTP)

UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
O	6	22-S	33-E	-	100' S	2024' E	N 32.4138964	W 103.6096618	LEA

Last Take Point (LTP)

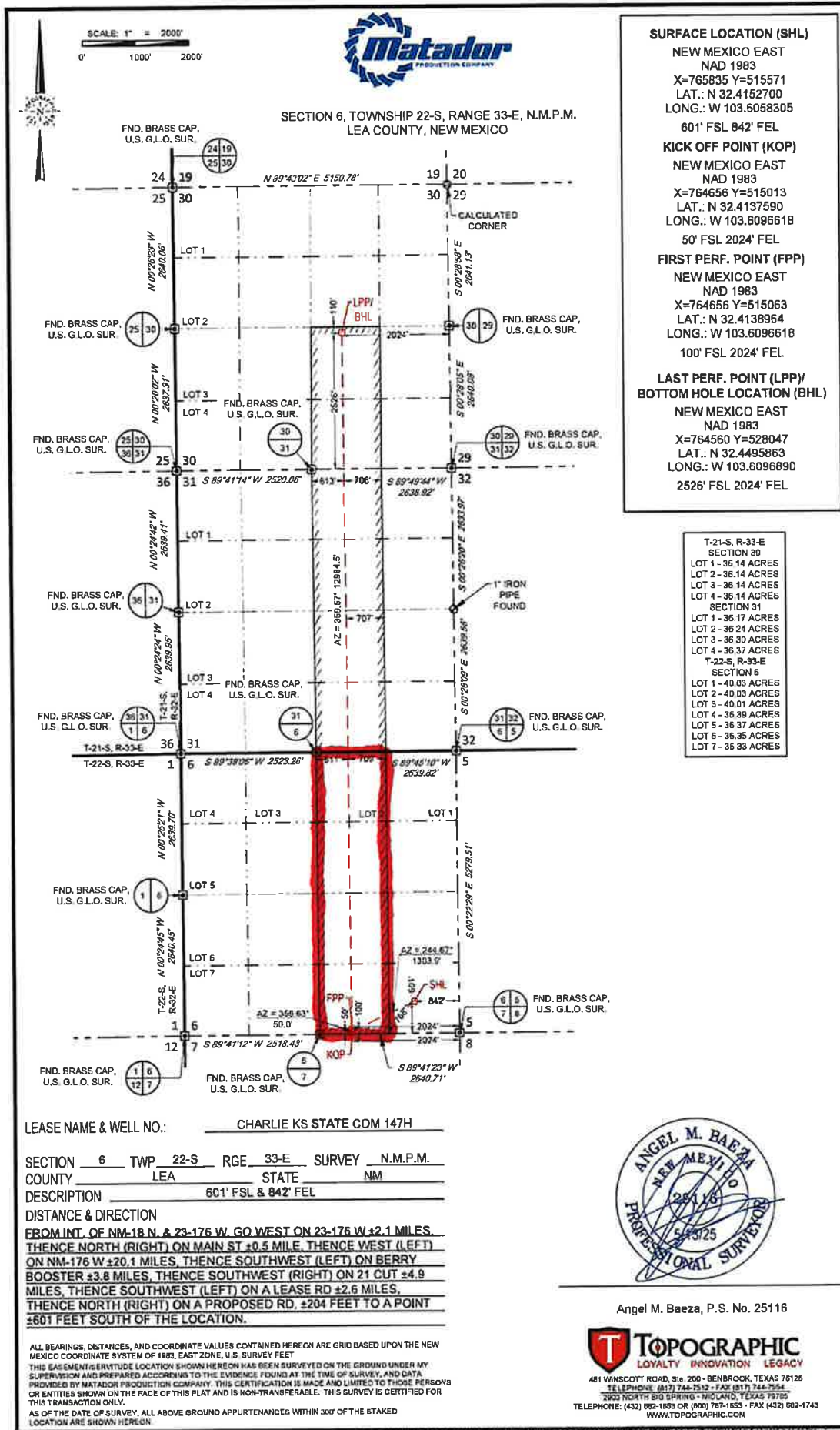
UL or lot no	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
J	30	21-S	33-E	-	2526' S	2024' E	N 32.4495863	W 103.6096890	LEA

Unitized Area or Area of Uniform Interest N/A	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3617'
--	--	---------------------------------

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		SURVEYORS 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 and correct to the best of my belief.	
Signature  Date 05/13/25		 Signature and Seal of Professional Surveyor Date 5/13/25	
Print Name djohns@matadorresources.com E-mail Address		Certificate Number 25116 Date of Survey 11/28/2023	

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled	
Property Name and Well Number CHARLIE KS STATE COM 147H			

SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=765835 Y=515571 LAT.: N 32.4152700 LONG.: W 103.6058305 NAD 1927 X=724653 Y=515510 LAT.: N 32.4151485 LONG.: W 103.6053442 601' FSL 842' FEL KICK OFF POINT (KOP) NEW MEXICO EAST NAD 1983 X=764656 Y=515013 LAT.: N 32.4137590 LONG.: W 103.6096618 NAD 1927 X=723474 Y=514953 LAT.: N 32.4136374 LONG.: W 103.6091755 50' FSL 2024' FEL	T-21-S, R-33-E SECTION 30 LOT 1 - 36.14 ACRES LOT 2 - 36.14 ACRES LOT 3 - 36.14 ACRES LOT 4 - 36.14 ACRES SECTION 31 LOT 1 - 36.17 ACRES LOT 2 - 36.24 ACRES LOT 3 - 36.30 ACRES LOT 4 - 36.37 ACRES T-22-S, R-33-E SECTION 6 LOT 1 - 40.03 ACRES LOT 2 - 40.03 ACRES LOT 3 - 40.01 ACRES LOT 4 - 36.39 ACRES LOT 5 - 36.37 ACRES LOT 6 - 36.35 ACRES LOT 7 - 36.33 ACRES	FIRST PERF. POINT (FPP) NEW MEXICO EAST NAD 1983 X=764656 Y=515063 LAT.: N 32.4138964 LONG.: W 103.6096618 NAD 1927 X=723474 Y=515003 LAT.: N 32.4137748 LONG.: W 103.6091754 100' FSL 2024' FEL LAST PERF. POINT (LPP) BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST NAD 1983 X=764560 Y=528047 LAT.: N 32.4495863 LONG.: W 103.6096890 NAD 1927 X=723378 Y=527985 LAT.: N 32.4494650 LONG.: W 103.6092013 2526' FSL 2024' FEL

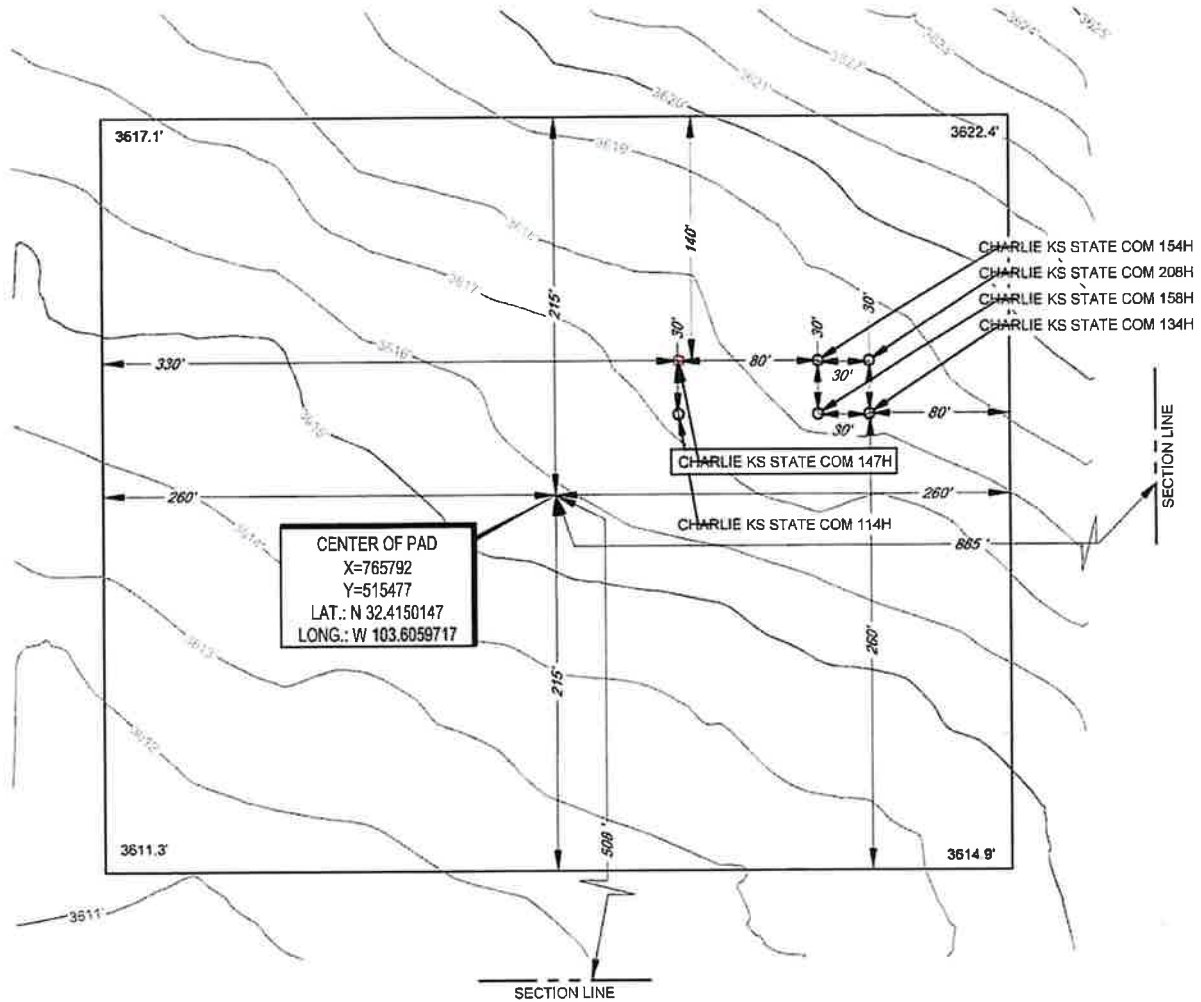




LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- PROPOSED ROAD
- ROAD WAY

SECTION 6, TOWNSHIP 22-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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

LEASE NAME & WELL NO.: CHARLIE KS STATE COM 147H
147H LATITUDE N 32.4152700 147H LONGITUDE W 103.6058305

CENTER OF PAD IS 508' FSL & 885' FEL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD83, OBTAINED THROUGH AN OPUS SOLUTION.

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

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



481 WINSBOTT ROAD, Ste. 200 - BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 - FAX (817) 744-7554
2803 NORTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 - FAX (432) 882-1743
WWW.TOPOGRAPHIC.COM

Well Name: Charlie KS State Com #147H

STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	EST TOC	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
SURF	FRESH WTR	17.5	13.375	J-55	54.50	1075	0	685	0	Option to drill surface hole with surface setting rig
INT 1	Diesel Brine Emulsion	9.875	7.625	P-110	29.70	9616	0	935	0	Option to run DV tool and Packer.
PROD	OBM	6.75	5.5	P-110	20.00	23145	0	925	9416	

Matador Production Company

Antelope Ridge

Paul Flowers / Charlie KS

Charlie KS State Com #147H

Wellbore #1

State Plan #1

Anticollision Summary Report

19 May, 2025

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Project:	Antelope Ridge	TVD Reference:	KB @ 3645.5usft
Reference Site:	Paul Flowers / Charlie KS	MD Reference:	KB @ 3645.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Charlie KS State Com #147H	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:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference	State Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	5/19/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,145.3	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Dagger Lake						
Dagger Lake South 8 Fed Com #502H - Wellbore #1 - Ac	10,603.6	16,098.4	2,374.5	2,238.4	17.449	CC
Dagger Lake South 8 Fed Com #502H - Wellbore #1 - Ac	12,000.0	17,381.8	2,383.2	2,220.2	14.619	ES
Dagger Lake South 8 Fed Com #502H - Wellbore #1 - Ac	12,700.0	18,055.0	2,401.3	2,220.8	13.302	SF
Dagger Lake South 8 Fed Com #552H - Wellbore #1 - Ac	10,605.8	16,632.4	2,624.5	2,494.5	20.186	CC
Dagger Lake South 8 Fed Com #552H - Wellbore #1 - Ac	12,610.1	18,665.0	2,646.7	2,473.2	15.257	ES
Dagger Lake South 8 Fed Com #552H - Wellbore #1 - Ac	12,800.0	18,665.0	2,653.5	2,479.1	15.214	SF
Offset Wells in Antelope Ridge						
AO 6 #1H - Wellbore #1 - Actual	11,800.0	12,599.2	756.6	685.4	10.628	SF
AO 6 #1H - Wellbore #1 - Actual	12,264.3	12,611.9	597.5	555.0	14.060	CC, ES
AO 6 #501H - Wellbore #1 - Actual	11,251.2	12,421.7	452.3	416.1	12.493	CC, ES
AO 6 #501H - Wellbore #1 - Actual	11,600.0	12,433.7	571.1	502.6	8.339	SF
AO 6 #502H - Wellbore #1 - Actual	10,512.3	12,452.5	631.2	590.7	15.569	CC
AO 6 #502H - Wellbore #1 - Actual	10,550.0	12,454.0	633.6	589.8	14.477	ES
AO 6 #502H - Wellbore #1 - Actual	10,900.0	12,462.1	807.4	736.4	11.375	SF
Coop 6 State #1H - Wellbore #1 - Actual	14,795.0	12,604.7	665.7	605.6	11.090	CC, ES
Coop 6 State #1H - Wellbore #1 - Actual	15,200.0	12,586.3	779.0	703.2	10.280	SF
Coop 6 State #2H - Wellbore #1 - Actual	13,100.0	12,596.8	732.2	657.5	9.802	SF
Coop 6 State #2H - Wellbore #1 - Actual	13,536.8	12,590.4	587.6	536.6	11.509	CC, ES
Dagger State Com #302H - Wellbore #1 - Wellbore #1	22,971.5	10,546.4	2,637.0	2,403.5	11.290	CC
Dagger State Com #302H - Wellbore #1 - Wellbore #1	23,000.0	10,545.1	2,637.2	2,403.0	11.262	ES
Dagger State Com #302H - Wellbore #1 - Wellbore #1	23,145.4	10,538.3	2,642.7	2,405.9	11.161	SF
Dagger State Com #505H - Wellbore #1 - Actual	23,137.1	11,859.7	1,761.1	1,508.4	6.970	CC
Dagger State Com #505H - Wellbore #1 - Actual	23,145.4	11,854.2	1,761.1	1,508.3	6.968	ES, SF
Dagger State Com #512H - Wellbore #1 - Wellbore #1	23,103.4	10,786.9	2,269.0	2,026.9	9.371	CC
Dagger State Com #512H - Wellbore #1 - Wellbore #1	23,145.4	10,782.8	2,269.4	2,026.4	9.338	ES, SF
Dagger State Com #514H - Wellbore #1 - Wellbore #1	23,145.4	10,554.9	2,411.8	2,169.6	9.957	CC, ES, SF
Dagger State Com #516H - Wellbore #1 - Wellbore #1	22,957.3	10,789.7	2,034.3	1,794.1	8.469	CC
Dagger State Com #516H - Wellbore #1 - Wellbore #1	23,000.0	10,787.6	2,034.8	1,793.6	8.437	ES
Dagger State Com #516H - Wellbore #1 - Wellbore #1	23,145.4	10,780.3	2,043.0	1,799.2	8.381	SF
Dagger State Com #556H - Wellbore #1 - Wellbore #1	22,867.9	10,844.4	2,186.4	1,948.4	9.184	CC
Dagger State Com #556H - Wellbore #1 - Wellbore #1	22,900.0	10,843.3	2,186.6	1,947.9	9.158	ES
Dagger State Com #556H - Wellbore #1 - Wellbore #1	23,100.0	10,837.1	2,198.7	1,956.5	9.077	SF
Dagger State Com #558H - Wellbore #1 - Wellbore #1	22,899.7	10,515.9	2,416.4	2,178.4	10.151	CC
Dagger State Com #558H - Wellbore #1 - Wellbore #1	22,900.0	10,515.8	2,416.4	2,178.4	10.151	ES
Dagger State Com #558H - Wellbore #1 - Wellbore #1	23,145.4	10,503.7	2,428.8	2,186.5	10.023	SF
Dagger State Com #608H - Wellbore #1 - Wellbore #1	22,978.2	10,510.2	2,498.9	2,259.7	10.446	CC

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

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Project:	Antelope Ridge	TVD Reference:	KB @ 3645.5usft
Reference Site:	Paul Flowers / Charlie KS	MD Reference:	KB @ 3645.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Charlie KS State Com #147H	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:	State Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Offset Wells in Antelope Ridge						
Dagger State Com #608H - Wellbore #1 - Wellbore #1	23,000.0	10,509.0	2,499.0	2,259.3	10.427	ES
Dagger State Com #608H - Wellbore #1 - Wellbore #1	23,145.4	10,500.5	2,504.5	2,262.2	10.335	SF
Dagger State Com #804H - Wellbore #1 - Wellbore #1	22,933.6	10,845.5	2,153.3	1,913.7	8.990	CC
Dagger State Com #804H - Wellbore #1 - Wellbore #1	23,000.0	10,843.1	2,154.3	1,913.3	8.941	ES
Dagger State Com #804H - Wellbore #1 - Wellbore #1	23,145.4	10,838.1	2,163.6	1,920.3	8.889	SF
Dagger State Unit #2H - Wellbore #1 - Actual	15,943.6	12,618.0	660.5	592.3	9.684	CC, ES
Dagger State Unit #2H - Wellbore #1 - Actual	16,200.0	12,613.3	697.7	622.3	9.251	SF
Tomahawk Unit #1 - Wellbore #1 - Actual	17,130.0	9,100.0	2,852.8	2,718.5	21.243	CC
Tomahawk Unit #1 - Wellbore #1 - Actual	17,200.0	9,100.0	2,853.7	2,718.1	21.053	ES
Tomahawk Unit #1 - Wellbore #1 - Actual	18,000.0	9,100.0	2,946.9	2,799.7	20.019	SF

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

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Project:	Antelope Ridge	TVD Reference:	KB @ 3645.5usft
Reference Site:	Paul Flowers / Charlie KS	MD Reference:	KB @ 3645.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Charlie KS State Com #147H	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:	State Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Paul Flowers / Charlie KS						
Charlie KS #208H - Wellbore #1 - Actual	1,208.3	1,209.3	105.1	97.1	13.126	CC
Charlie KS #208H - Wellbore #1 - Actual	1,300.0	1,300.2	105.5	96.8	12.204	ES
Charlie KS #208H - Wellbore #1 - Actual	23,145.4	24,832.0	2,177.1	1,824.2	6.168	SF
Charlie KS #208H - Wellbore #1 - State Plan #1	1,450.0	1,451.0	109.8	99.9	11.048	CC, ES
Charlie KS #208H - Wellbore #1 - State Plan #1	23,145.4	24,871.7	2,295.4	1,949.5	6.636	SF
Paul Flowers #111H - Wellbore #1 - State Plan #1	15,758.2	15,405.1	2,817.6	2,627.6	14.828	CC
Paul Flowers #111H - Wellbore #1 - State Plan #1	23,145.4	22,774.6	2,849.4	2,427.6	6.756	ES, SF
Paul Flowers #112H - Wellbore #1 - State Plan #1	9,713.4	9,649.8	1,506.3	1,435.5	21.289	CC
Paul Flowers #112H - Wellbore #1 - State Plan #1	23,145.4	22,785.4	1,573.6	1,165.9	3.859	ES, SF
Paul Flowers #113H - Wellbore #1 - State Plan #1	9,622.6	9,523.8	308.0	237.3	4.359	CC, ES
Paul Flowers #113H - Wellbore #1 - State Plan #1	23,145.4	22,703.5	637.8	380.3	2.476	SF
Paul Flowers #114H - Wellbore #1 - State Plan #1	1,000.0	1,000.0	30.6	23.9	4.559	CC, ES
Paul Flowers #114H - Wellbore #1 - State Plan #1	23,145.4	22,722.7	1,189.5	807.8	3.117	SF
Paul Flowers #131H - Wellbore #1 - Total Plan 3	10,082.5	10,010.0	2,638.6	2,566.2	36.472	CC
Paul Flowers #131H - Wellbore #1 - Total Plan 3	23,145.4	24,783.7	2,831.6	2,445.3	7.330	ES, SF
Paul Flowers #132H - Wellbore #1 - State Plan #1	9,945.1	9,900.9	848.6	776.4	11.754	CC
Paul Flowers #132H - Wellbore #1 - State Plan #1	9,950.0	9,903.8	848.6	776.4	11.753	ES
Paul Flowers #132H - Wellbore #1 - State Plan #1	23,145.4	24,773.8	1,721.9	1,434.6	5.993	SF
Paul Flowers #134H - Wellbore #1 - State Plan #1	1,450.0	1,451.0	113.9	104.0	11.464	CC, ES
Paul Flowers #134H - Wellbore #1 - State Plan #1	23,145.4	24,776.8	1,640.9	1,365.4	5.955	SF
Paul Flowers #151H - Wellbore #1 - Total Plan 3	23,145.4	24,133.6	2,484.0	2,070.5	6.008	CC, ES, SF
Paul Flowers #152H - Wellbore #1 - State Plan #1	9,225.3	9,064.3	982.3	914.5	14.496	CC, ES
Paul Flowers #152H - Wellbore #1 - State Plan #1	23,145.4	24,164.8	1,259.5	914.9	3.654	SF
Paul Flowers #153H - Wellbore #1 - State Plan #1	9,855.0	9,777.4	203.9	133.0	2.874	CC, ES
Paul Flowers #153H - Wellbore #1 - State Plan #1	9,900.0	9,821.6	204.1	133.0	2.873	SF
Paul Flowers #154H - Wellbore #1 - State Plan #1	1,603.6	1,609.6	48.7	37.8	4.444	CC, ES
Paul Flowers #154H - Wellbore #1 - State Plan #1	23,145.4	24,067.4	1,070.2	728.0	3.128	SF
Paul Flowers #155H - Wellbore #1 - Total Plan 3	23,145.4	24,316.2	1,786.1	1,398.5	4.609	CC, ES, SF
Paul Flowers #155H - Wellbore #1 - Wellbore #1	10,007.6	9,930.2	1,918.2	1,846.3	26.696	CC
Paul Flowers #155H - Wellbore #1 - Wellbore #1	22,311.0	23,483.0	1,953.8	1,583.5	5.277	ES
Paul Flowers #155H - Wellbore #1 - Wellbore #1	22,400.0	23,483.0	1,955.8	1,584.2	5.263	SF
Paul Flowers #158H - Wellbore #1 - Actual	1,477.5	1,479.3	79.0	69.1	8.004	CC
Paul Flowers #158H - Wellbore #1 - Actual	1,500.0	1,501.7	79.1	69.0	7.890	ES
Paul Flowers #158H - Wellbore #1 - Actual	23,145.4	24,287.0	1,633.0	1,257.2	4.345	SF
Paul Flowers #158H - Wellbore #1 - State Plan #1	1,000.0	1,001.0	85.4	78.7	12.726	CC
Paul Flowers #158H - Wellbore #1 - State Plan #1	1,100.0	1,100.3	85.8	78.4	11.586	ES
Paul Flowers #158H - Wellbore #1 - State Plan #1	23,145.4	24,454.3	1,778.9	1,423.7	5.008	SF
Paul Flowers #203H - Wellbore #1 - Actual	10,147.8	10,030.9	78.9	6.7	1.092	Level 2, CC, ES, SF
Paul Flowers #203H - Wellbore #1 - State Plan #1	9,832.0	9,755.8	123.9	53.1	1.749	CC
Paul Flowers #203H - Wellbore #1 - State Plan #1	9,850.0	9,773.6	124.0	53.1	1.749	ES, SF
Paul Flowers #205H - Wellbore #1 - Actual	10,210.6	10,170.5	1,775.8	1,703.0	24.396	CC, ES
Paul Flowers #205H - Wellbore #1 - Actual	23,145.4	24,846.0	2,132.7	1,781.3	6.069	SF
Paul Flowers #205H - Wellbore #1 - Total Plan 3	10,190.9	10,161.0	1,770.8	1,697.6	24.196	CC
Paul Flowers #205H - Wellbore #1 - Total Plan 3	10,200.0	10,165.9	1,770.8	1,697.6	24.187	ES
Paul Flowers #205H - Wellbore #1 - Total Plan 3	23,145.4	24,884.0	2,147.1	1,798.1	6.152	SF
Paul Flowers State Com #145H - Wellbore #1 - State Pla	23,145.4	23,046.4	2,337.1	1,910.3	5.476	CC, ES, SF
Paul Flowers State Com #146H - Wellbore #1 - State Pla	9,291.2	9,125.6	1,098.9	1,030.4	16.046	CC
Paul Flowers State Com #146H - Wellbore #1 - State Pla	23,145.4	23,332.1	1,136.5	721.0	2.735	ES, SF

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

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Project:	Antelope Ridge	TVD Reference:	KB @ 3645.5usft
Reference Site:	Paul Flowers / Charlie KS	MD Reference:	KB @ 3645.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Charlie KS State Com #147H	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:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3645.5usft

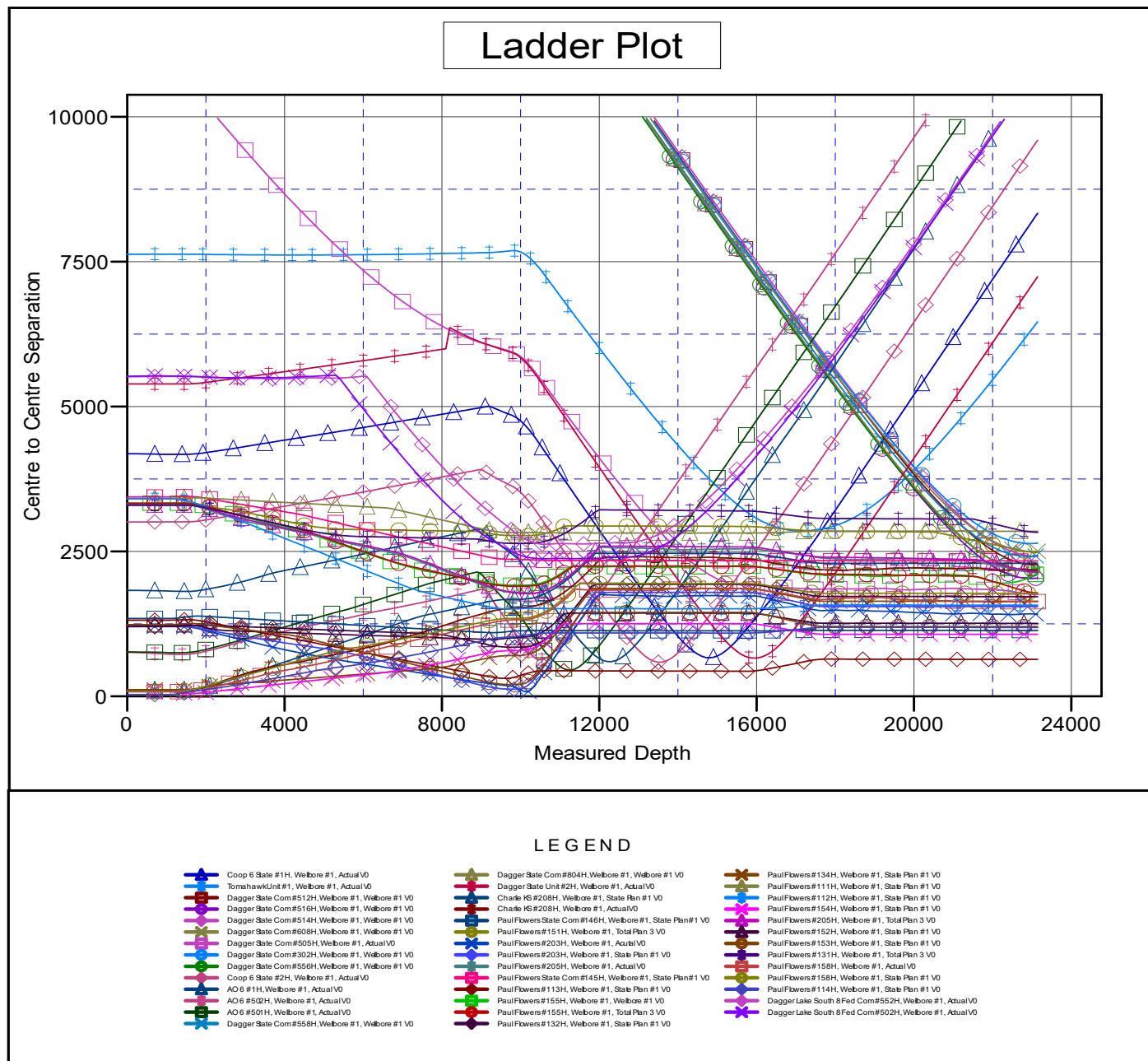
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Charlie KS State Com #147H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.39°



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

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Project:	Antelope Ridge	TVD Reference:	KB @ 3645.5usft
Reference Site:	Paul Flowers / Charlie KS	MD Reference:	KB @ 3645.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Charlie KS State Com #147H	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:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3645.5usft

Offset Depths are relative to Offset Datum

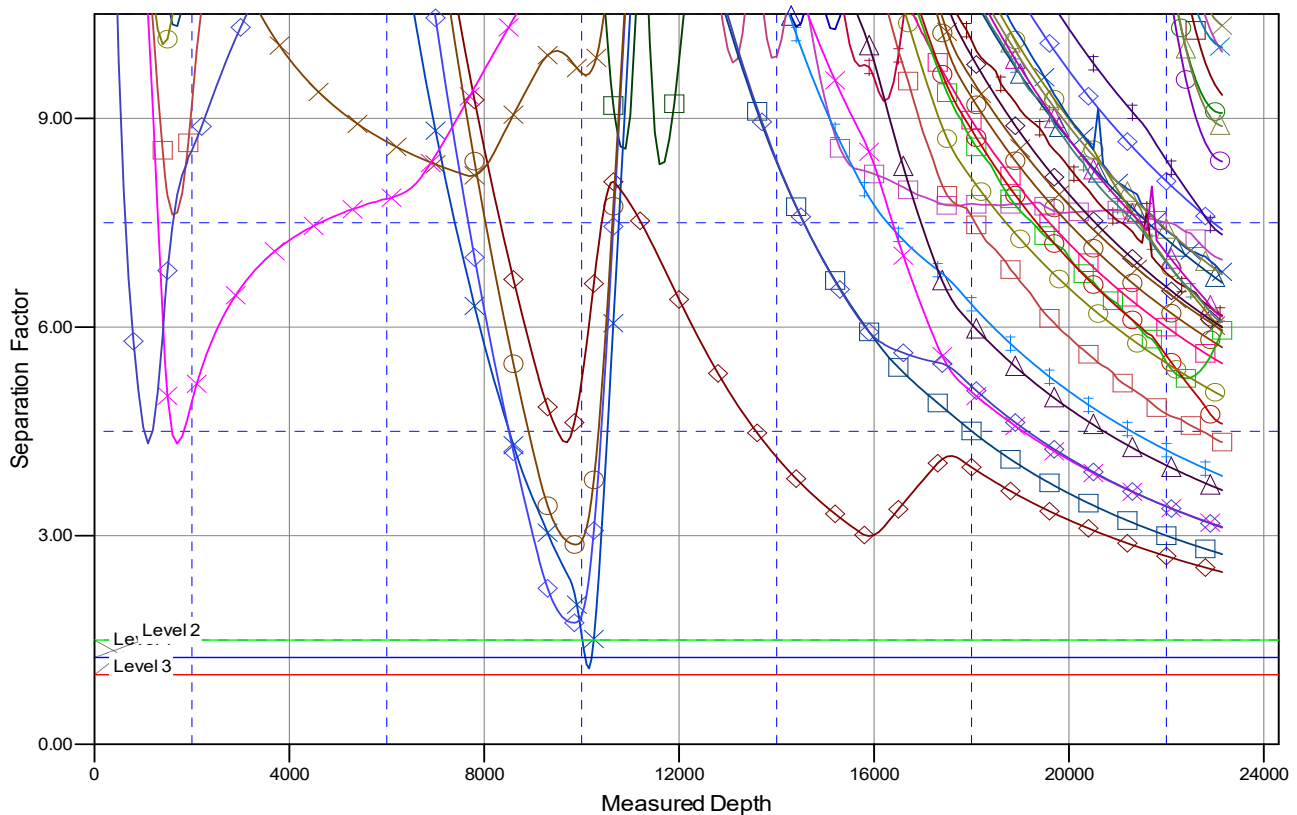
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Charlie KS State Com #147H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.39°

Separation Factor Plot



LEGEND

Coop 6 State #1H, Wellbore #1, Actual VO	Dagger State Com #804H, Wellbore #1, Wellbore #1 VO	Paul Flowers #134H, Wellbore #1, State Plan #1 VO
Tomahawk Unit #1, Wellbore #1, Actual VO	Dagger State Unit #2H, Wellbore #1, Actual VO	Paul Flowers #111H, Wellbore #1, State Plan #1 VO
Dagger State Com #512H, Wellbore #1, Wellbore #1 VO	Charlie KS #208H, Wellbore #1, State Plan #1 VO	Paul Flowers #112H, Wellbore #1, State Plan #1 VO
Dagger State Com #516H, Wellbore #1, Wellbore #1 VO	Charlie KS #208H, Wellbore #1, Actual VO	Paul Flowers #154H, Wellbore #1, State Plan #1 VO
Dagger State Com #514H, Wellbore #1, Wellbore #1 VO	Paul Flowers State Com #146H, Wellbore #1, State Plan #1 VO	Paul Flowers #205H, Wellbore #1, Total Plan 3 VO
Dagger State Com #608H, Wellbore #1, Wellbore #1 VO	Paul Flowers #151H, Wellbore #1, Total Plan 3 VO	Paul Flowers #152H, Wellbore #1, State Plan #1 VO
Dagger State Com #505H, Wellbore #1, Actual VO	Paul Flowers #203H, Wellbore #1, Actual VO	Paul Flowers #153H, Wellbore #1, State Plan #1 VO
Dagger State Com #302H, Wellbore #1, Wellbore #1 VO	Paul Flowers #203H, Wellbore #1, State Plan #1 VO	Paul Flowers #131H, Wellbore #1, Total Plan 3 VO
Dagger State Com #556H, Wellbore #1, Wellbore #1 VO	Paul Flowers #205H, Wellbore #1, Actual VO	Paul Flowers #158H, Wellbore #1, Actual VO
Coop 6 State #2H, Wellbore #1, Actual VO	Paul Flowers State Com #145H, Wellbore #1, State Plan #1 VO	Paul Flowers #158H, Wellbore #1, State Plan #1 VO
AO 6 #1H, Wellbore #1, Actual VO	Paul Flowers #113H, Wellbore #1, State Plan #1 VO	Paul Flowers #114H, Wellbore #1, State Plan #1 VO
AO 6 #502H, Wellbore #1, Actual VO	Paul Flowers #155H, Wellbore #1, Wellbore #1 VO	Dagger Lake South 8Fed Com #552H, Wellbore #1, Actual VO
AO 6 #50H, Wellbore #1, Actual VO	Paul Flowers #155H, Wellbore #1, Total Plan 3 VO	Dagger Lake South 8Fed Com #502H, Wellbore #1, Actual VO
Dagger State Com #558H, Wellbore #1, Wellbore #1 VO	Paul Flowers #132H, Wellbore #1, State Plan #1 VO	

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

Matador Production Company

Antelope Ridge

Paul Flowers / Charlie KS

Charlie KS State Com #147H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

19 May, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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		

Site	Paul Flowers / Charlie KS		
Site Position:		Northing:	515,361.55 usft
From:	Map	Easting:	721,245.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 24' 53.290 N
		Longitude:	103° 36' 59.001 W
		Grid Convergence:	0.38 °

Well	Charlie KS State Com #147H		
Well Position	+N/-S	148.8 usft	Northing:
	+E/-W	3,407.7 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 24' 54.535 N
		Longitude:	103° 36' 19.239 W
		Ground Level:	3,617.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/5/2024	6.22	60.14	47,328.70515501

Design	State Plan #1			
Audit Notes:				
Version:	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	359.57

Plan Survey Tool Program	Date	5/19/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,145.3	State Plan #1 (Wellbore #1)	MWD
			OWSG MWD - Standard	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,926.9	9.54	244.27	1,924.7	-17.2	-35.7	2.00	2.00	0.00	244.27	
9,130.3	9.54	244.27	9,028.5	-535.4	-1,111.1	0.00	0.00	0.00	0.00	
9,766.2	0.00	0.00	9,661.5	-558.3	-1,158.7	1.50	-1.50	0.00	180.00	KOP - Charlie KS Sta
10,666.2	90.00	357.79	10,234.5	14.2	-1,180.7	10.00	10.00	0.00	357.79	
10,755.0	90.00	359.57	10,234.5	103.0	-1,182.7	2.00	0.00	2.00	90.01	
15,742.8	90.00	359.57	10,234.5	5,090.7	-1,220.2	0.00	0.00	0.00	0.00	DP1 - Charlie KS Stat
16,194.8	80.96	359.57	10,270.1	5,540.8	-1,223.5	2.00	-2.00	0.00	-180.00	
17,308.3	80.96	359.57	10,445.0	6,640.4	-1,231.8	0.00	0.00	0.00	0.00	
17,760.3	90.00	359.57	10,480.6	7,090.5	-1,235.2	2.00	2.00	0.00	0.00	
23,145.4	90.00	359.57	10,480.6	12,475.4	-1,275.6	0.00	0.00	0.00	0.00	BHL - Charlie KS Stat

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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
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
1,054.0	0.00	0.00	1,054.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,371.0	0.00	0.00	1,371.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Salado)									
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,450.0	0.00	0.00	1,450.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
1,500.0	1.00	244.27	1,500.0	-0.2	-0.4	-0.2	2.00	2.00	0.00
1,600.0	3.00	244.27	1,599.9	-1.7	-3.5	-1.7	2.00	2.00	0.00
1,700.0	5.00	244.27	1,699.7	-4.7	-9.8	-4.7	2.00	2.00	0.00
1,800.0	7.00	244.27	1,799.1	-9.3	-19.2	-9.1	2.00	2.00	0.00
1,900.0	9.00	244.27	1,898.2	-15.3	-31.8	-15.1	2.00	2.00	0.00
1,926.9	9.54	244.27	1,924.7	-17.2	-35.7	-16.9	2.00	2.00	0.00
Start 7203.4 hold at 1926.9 MD									
2,000.0	9.54	244.27	1,996.8	-22.5	-46.6	-22.1	0.00	0.00	0.00
2,100.0	9.54	244.27	2,095.4	-29.6	-61.5	-29.2	0.00	0.00	0.00
2,200.0	9.54	244.27	2,194.0	-36.8	-76.4	-36.3	0.00	0.00	0.00
2,300.0	9.54	244.27	2,292.6	-44.0	-91.4	-43.3	0.00	0.00	0.00
2,400.0	9.54	244.27	2,391.3	-51.2	-106.3	-50.4	0.00	0.00	0.00
2,500.0	9.54	244.27	2,489.9	-58.4	-121.2	-57.5	0.00	0.00	0.00
2,600.0	9.54	244.27	2,588.5	-65.6	-136.2	-64.6	0.00	0.00	0.00
2,700.0	9.54	244.27	2,687.1	-72.8	-151.1	-71.7	0.00	0.00	0.00
2,800.0	9.54	244.27	2,785.7	-80.0	-166.0	-78.8	0.00	0.00	0.00
2,900.0	9.54	244.27	2,884.3	-87.2	-181.0	-85.8	0.00	0.00	0.00
3,000.0	9.54	244.27	2,983.0	-94.4	-195.9	-92.9	0.00	0.00	0.00
3,100.0	9.54	244.27	3,081.6	-101.6	-210.8	-100.0	0.00	0.00	0.00
3,200.0	9.54	244.27	3,180.2	-108.8	-225.7	-107.1	0.00	0.00	0.00
3,300.0	9.54	244.27	3,278.8	-116.0	-240.7	-114.2	0.00	0.00	0.00
3,400.0	9.54	244.27	3,377.4	-123.2	-255.6	-121.2	0.00	0.00	0.00
3,500.0	9.54	244.27	3,476.0	-130.4	-270.5	-128.3	0.00	0.00	0.00
3,600.0	9.54	244.27	3,574.7	-137.6	-285.5	-135.4	0.00	0.00	0.00
3,700.0	9.54	244.27	3,673.3	-144.7	-300.4	-142.5	0.00	0.00	0.00
3,800.0	9.54	244.27	3,771.9	-151.9	-315.3	-149.6	0.00	0.00	0.00
3,900.0	9.54	244.27	3,870.5	-159.1	-330.2	-156.6	0.00	0.00	0.00
4,000.0	9.54	244.27	3,969.1	-166.3	-345.2	-163.7	0.00	0.00	0.00
4,100.0	9.54	244.27	4,067.8	-173.5	-360.1	-170.8	0.00	0.00	0.00
4,200.0	9.54	244.27	4,166.4	-180.7	-375.0	-177.9	0.00	0.00	0.00
4,300.0	9.54	244.27	4,265.0	-187.9	-390.0	-185.0	0.00	0.00	0.00
4,400.0	9.54	244.27	4,363.6	-195.1	-404.9	-192.1	0.00	0.00	0.00
4,500.0	9.54	244.27	4,462.2	-202.3	-419.8	-199.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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)
4,600.0	9.54	244.27	4,560.8	-209.5	-434.7	-206.2	0.00	0.00	0.00
4,672.2	9.54	244.27	4,632.0	-214.7	-445.5	-211.3	0.00	0.00	0.00
Z (G30:CS14-CSB)									
4,700.0	9.54	244.27	4,659.5	-216.7	-449.7	-213.3	0.00	0.00	0.00
4,800.0	9.54	244.27	4,758.1	-223.9	-464.6	-220.4	0.00	0.00	0.00
4,849.6	9.54	244.27	4,807.0	-227.4	-472.0	-223.9	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
4,900.0	9.54	244.27	4,856.7	-231.1	-479.5	-227.5	0.00	0.00	0.00
5,000.0	9.54	244.27	4,955.3	-238.3	-494.5	-234.5	0.00	0.00	0.00
5,100.0	9.54	244.27	5,053.9	-245.5	-509.4	-241.6	0.00	0.00	0.00
5,200.0	9.54	244.27	5,152.5	-252.7	-524.3	-248.7	0.00	0.00	0.00
5,300.0	9.54	244.27	5,251.2	-259.8	-539.2	-255.8	0.00	0.00	0.00
5,400.0	9.54	244.27	5,349.8	-267.0	-554.2	-262.9	0.00	0.00	0.00
5,500.0	9.54	244.27	5,448.4	-274.2	-569.1	-270.0	0.00	0.00	0.00
5,600.0	9.54	244.27	5,547.0	-281.4	-584.0	-277.0	0.00	0.00	0.00
5,700.0	9.54	244.27	5,645.6	-288.6	-599.0	-284.1	0.00	0.00	0.00
5,800.0	9.54	244.27	5,744.2	-295.8	-613.9	-291.2	0.00	0.00	0.00
5,900.0	9.54	244.27	5,842.9	-303.0	-628.8	-298.3	0.00	0.00	0.00
5,997.5	9.54	244.27	5,939.0	-310.0	-643.4	-305.2	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
6,000.0	9.54	244.27	5,941.5	-310.2	-643.7	-305.4	0.00	0.00	0.00
6,100.0	9.54	244.27	6,040.1	-317.4	-658.7	-312.4	0.00	0.00	0.00
6,200.0	9.54	244.27	6,138.7	-324.6	-673.6	-319.5	0.00	0.00	0.00
6,300.0	9.54	244.27	6,237.3	-331.8	-688.5	-326.6	0.00	0.00	0.00
6,400.0	9.54	244.27	6,336.0	-339.0	-703.5	-333.7	0.00	0.00	0.00
6,500.0	9.54	244.27	6,434.6	-346.2	-718.4	-340.8	0.00	0.00	0.00
6,600.0	9.54	244.27	6,533.2	-353.4	-733.3	-347.8	0.00	0.00	0.00
6,700.0	9.54	244.27	6,631.8	-360.6	-748.3	-354.9	0.00	0.00	0.00
6,800.0	9.54	244.27	6,730.4	-367.8	-763.2	-362.0	0.00	0.00	0.00
6,900.0	9.54	244.27	6,829.0	-374.9	-778.1	-369.1	0.00	0.00	0.00
7,000.0	9.54	244.27	6,927.7	-382.1	-793.0	-376.2	0.00	0.00	0.00
7,100.0	9.54	244.27	7,026.3	-389.3	-808.0	-383.3	0.00	0.00	0.00
7,133.2	9.54	244.27	7,059.0	-391.7	-812.9	-385.6	0.00	0.00	0.00
Z (G7: Brushy Cyn.) Antelope Ridge									
7,200.0	9.54	244.27	7,124.9	-396.5	-822.9	-390.3	0.00	0.00	0.00
7,300.0	9.54	244.27	7,223.5	-403.7	-837.8	-397.4	0.00	0.00	0.00
7,400.0	9.54	244.27	7,322.1	-410.9	-852.8	-404.5	0.00	0.00	0.00
7,500.0	9.54	244.27	7,420.7	-418.1	-867.7	-411.6	0.00	0.00	0.00
7,600.0	9.54	244.27	7,519.4	-425.3	-882.6	-418.7	0.00	0.00	0.00
7,700.0	9.54	244.27	7,618.0	-432.5	-897.5	-425.7	0.00	0.00	0.00
7,800.0	9.54	244.27	7,716.6	-439.7	-912.5	-432.8	0.00	0.00	0.00
7,900.0	9.54	244.27	7,815.2	-446.9	-927.4	-439.9	0.00	0.00	0.00
8,000.0	9.54	244.27	7,913.8	-454.1	-942.3	-447.0	0.00	0.00	0.00
8,100.0	9.54	244.27	8,012.4	-461.3	-957.3	-454.1	0.00	0.00	0.00
8,200.0	9.54	244.27	8,111.1	-468.5	-972.2	-461.2	0.00	0.00	0.00
8,300.0	9.54	244.27	8,209.7	-475.7	-987.1	-468.2	0.00	0.00	0.00
8,400.0	9.54	244.27	8,308.3	-482.9	-1,002.0	-475.3	0.00	0.00	0.00
8,500.0	9.54	244.27	8,406.9	-490.0	-1,017.0	-482.4	0.00	0.00	0.00
8,523.4	9.54	244.27	8,430.0	-491.7	-1,020.5	-484.1	0.00	0.00	0.00
G5: L. Brushy Cyn.									
8,600.0	9.54	244.27	8,505.5	-497.2	-1,031.9	-489.5	0.00	0.00	0.00
8,700.0	9.54	244.27	8,604.1	-504.4	-1,046.8	-496.6	0.00	0.00	0.00
8,762.7	9.54	244.27	8,666.0	-508.9	-1,056.2	-501.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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)
Z (G4: BSGI (CS9))									
8,800.0	9.54	244.27	8,702.8	-511.6	-1,061.8	-503.6	0.00	0.00	0.00
8,900.0	9.54	244.27	8,801.4	-518.8	-1,076.7	-510.7	0.00	0.00	0.00
9,000.0	9.54	244.27	8,900.0	-526.0	-1,091.6	-517.8	0.00	0.00	0.00
9,100.0	9.54	244.27	8,998.6	-533.2	-1,106.5	-524.9	0.00	0.00	0.00
9,130.3	9.54	244.27	9,028.5	-535.4	-1,111.1	-527.0	0.00	0.00	0.00
Start Drop -1.50									
9,200.0	8.49	244.27	9,097.3	-540.1	-1,120.9	-531.7	1.50	-1.50	0.00
9,300.0	6.99	244.27	9,196.4	-546.0	-1,133.0	-537.5	1.50	-1.50	0.00
9,400.0	5.49	244.27	9,295.8	-550.7	-1,142.8	-542.1	1.50	-1.50	0.00
9,411.2	5.33	244.27	9,307.0	-551.2	-1,143.8	-542.6	1.50	-1.50	0.00
L8.2: U. Avalon Shale									
9,500.0	3.99	244.27	9,395.5	-554.3	-1,150.3	-545.6	1.50	-1.50	0.00
9,600.0	2.49	244.27	9,495.3	-556.7	-1,155.4	-548.1	1.50	-1.50	0.00
9,631.7	2.02	244.27	9,527.0	-557.3	-1,156.5	-548.6	1.50	-1.50	0.00
L6.3: Avalon Carb									
9,700.0	0.99	244.27	9,595.3	-558.1	-1,158.1	-549.4	1.50	-1.50	0.00
9,766.2	0.00	0.00	9,661.5	-558.3	-1,158.7	-549.6	1.50	-1.50	0.00
Start Build 10.00 - KOP - Charlie KS State Com #147H									
9,794.7	2.85	357.79	9,690.0	-557.6	-1,158.7	-548.9	10.00	10.00	0.00
Z (L5.3: FBSC)									
9,800.0	3.38	357.79	9,695.2	-557.3	-1,158.7	-548.6	10.00	10.00	0.00
9,900.0	13.38	357.79	9,794.1	-542.8	-1,159.2	-534.1	10.00	10.00	0.00
9,977.9	21.17	357.79	9,868.4	-519.7	-1,160.1	-511.0	10.00	10.00	0.00
Z (L5.1: FBSC)									
10,000.0	23.38	357.79	9,888.8	-511.3	-1,160.5	-502.6	10.00	10.00	0.00
10,010.6	24.44	357.79	9,898.6	-507.0	-1,160.6	-498.3	10.00	10.00	0.00
FPP - Charlie KS State Com #147H									
10,100.0	33.38	357.79	9,976.7	-463.9	-1,162.3	-455.2	10.00	10.00	0.00
10,200.0	43.38	357.79	10,055.0	-401.9	-1,164.7	-393.2	10.00	10.00	0.00
10,236.1	46.99	357.79	10,080.4	-376.3	-1,165.7	-367.6	10.00	10.00	0.00
Z (L4.3: SBSC)									
10,300.0	53.38	357.79	10,121.3	-327.3	-1,167.5	-318.6	10.00	10.00	0.00
10,400.0	63.38	357.79	10,173.7	-242.3	-1,170.8	-233.6	10.00	10.00	0.00
10,500.0	73.38	357.79	10,210.5	-149.6	-1,174.4	-140.8	10.00	10.00	0.00
10,600.0	83.38	357.79	10,230.6	-51.8	-1,178.2	-43.0	10.00	10.00	0.00
10,666.2	90.00	357.79	10,234.5	14.2	-1,180.7	23.1	10.00	10.00	0.00
Start DLS 2.00 TFO 90.01									
10,700.0	90.00	358.47	10,234.5	48.0	-1,181.8	56.8	2.00	0.00	2.00
10,755.0	90.00	359.57	10,234.5	103.0	-1,182.7	111.9	2.00	0.00	2.00
Start 4987.8 hold at 10755.0 MD									
10,800.0	90.00	359.57	10,234.5	148.0	-1,183.1	156.8	0.00	0.00	0.00
10,900.0	90.00	359.57	10,234.5	248.0	-1,183.8	256.8	0.00	0.00	0.00
11,000.0	90.00	359.57	10,234.5	348.0	-1,184.6	356.8	0.00	0.00	0.00
11,100.0	90.00	359.57	10,234.5	448.0	-1,185.3	456.8	0.00	0.00	0.00
11,200.0	90.00	359.57	10,234.5	547.9	-1,186.1	556.8	0.00	0.00	0.00
11,300.0	90.00	359.57	10,234.5	647.9	-1,186.8	656.8	0.00	0.00	0.00
11,400.0	90.00	359.57	10,234.5	747.9	-1,187.6	756.8	0.00	0.00	0.00
11,500.0	90.00	359.57	10,234.5	847.9	-1,188.3	856.8	0.00	0.00	0.00
11,600.0	90.00	359.57	10,234.5	947.9	-1,189.1	956.8	0.00	0.00	0.00
11,700.0	90.00	359.57	10,234.5	1,047.9	-1,189.8	1,056.8	0.00	0.00	0.00
11,800.0	90.00	359.57	10,234.5	1,147.9	-1,190.6	1,156.8	0.00	0.00	0.00
11,900.0	90.00	359.57	10,234.5	1,247.9	-1,191.3	1,256.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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)
12,000.0	90.00	359.57	10,234.5	1,347.9	-1,192.1	1,356.8	0.00	0.00	0.00
12,100.0	90.00	359.57	10,234.5	1,447.9	-1,192.8	1,456.8	0.00	0.00	0.00
12,200.0	90.00	359.57	10,234.5	1,547.9	-1,193.6	1,556.8	0.00	0.00	0.00
12,300.0	90.00	359.57	10,234.5	1,647.9	-1,194.3	1,656.8	0.00	0.00	0.00
12,400.0	90.00	359.57	10,234.5	1,747.9	-1,195.1	1,756.8	0.00	0.00	0.00
12,500.0	90.00	359.57	10,234.5	1,847.9	-1,195.8	1,856.8	0.00	0.00	0.00
12,600.0	90.00	359.57	10,234.5	1,947.9	-1,196.6	1,956.8	0.00	0.00	0.00
12,700.0	90.00	359.57	10,234.5	2,047.9	-1,197.3	2,056.8	0.00	0.00	0.00
12,800.0	90.00	359.57	10,234.5	2,147.9	-1,198.1	2,156.8	0.00	0.00	0.00
12,900.0	90.00	359.57	10,234.5	2,247.9	-1,198.8	2,256.8	0.00	0.00	0.00
13,000.0	90.00	359.57	10,234.5	2,347.9	-1,199.6	2,356.8	0.00	0.00	0.00
13,100.0	90.00	359.57	10,234.5	2,447.9	-1,200.3	2,456.8	0.00	0.00	0.00
13,200.0	90.00	359.57	10,234.5	2,547.9	-1,201.1	2,556.8	0.00	0.00	0.00
13,300.0	90.00	359.57	10,234.5	2,647.9	-1,201.8	2,656.8	0.00	0.00	0.00
13,400.0	90.00	359.57	10,234.5	2,747.9	-1,202.6	2,756.8	0.00	0.00	0.00
13,500.0	90.00	359.57	10,234.5	2,847.9	-1,203.3	2,856.8	0.00	0.00	0.00
13,600.0	90.00	359.57	10,234.5	2,947.9	-1,204.1	2,956.8	0.00	0.00	0.00
13,700.0	90.00	359.57	10,234.5	3,047.9	-1,204.8	3,056.8	0.00	0.00	0.00
13,800.0	90.00	359.57	10,234.5	3,147.9	-1,205.6	3,156.8	0.00	0.00	0.00
13,900.0	90.00	359.57	10,234.5	3,247.9	-1,206.3	3,256.8	0.00	0.00	0.00
14,000.0	90.00	359.57	10,234.5	3,347.9	-1,207.1	3,356.8	0.00	0.00	0.00
14,100.0	90.00	359.57	10,234.5	3,447.9	-1,207.8	3,456.8	0.00	0.00	0.00
14,200.0	90.00	359.57	10,234.5	3,547.9	-1,208.6	3,556.8	0.00	0.00	0.00
14,300.0	90.00	359.57	10,234.5	3,647.9	-1,209.3	3,656.8	0.00	0.00	0.00
14,400.0	90.00	359.57	10,234.5	3,747.9	-1,210.1	3,756.8	0.00	0.00	0.00
14,500.0	90.00	359.57	10,234.5	3,847.9	-1,210.8	3,856.8	0.00	0.00	0.00
14,600.0	90.00	359.57	10,234.5	3,947.9	-1,211.6	3,956.8	0.00	0.00	0.00
14,700.0	90.00	359.57	10,234.5	4,047.8	-1,212.3	4,056.8	0.00	0.00	0.00
14,800.0	90.00	359.57	10,234.5	4,147.8	-1,213.1	4,156.8	0.00	0.00	0.00
14,900.0	90.00	359.57	10,234.5	4,247.8	-1,213.8	4,256.8	0.00	0.00	0.00
15,000.0	90.00	359.57	10,234.5	4,347.8	-1,214.6	4,356.8	0.00	0.00	0.00
15,100.0	90.00	359.57	10,234.5	4,447.8	-1,215.3	4,456.8	0.00	0.00	0.00
15,200.0	90.00	359.57	10,234.5	4,547.8	-1,216.1	4,556.8	0.00	0.00	0.00
15,300.0	90.00	359.57	10,234.5	4,647.8	-1,216.8	4,656.8	0.00	0.00	0.00
15,400.0	90.00	359.57	10,234.5	4,747.8	-1,217.6	4,756.8	0.00	0.00	0.00
15,500.0	90.00	359.57	10,234.5	4,847.8	-1,218.3	4,856.8	0.00	0.00	0.00
15,600.0	90.00	359.57	10,234.5	4,947.8	-1,219.1	4,956.8	0.00	0.00	0.00
15,700.0	90.00	359.57	10,234.5	5,047.8	-1,219.8	5,056.8	0.00	0.00	0.00
15,742.8	90.00	359.57	10,234.5	5,090.7	-1,220.2	5,099.7	0.00	0.00	0.00
Start DLS 2.00 TFO -180.00 - DP1 - Charlie KS State Com #147H									
15,800.0	88.86	359.57	10,235.0	5,147.8	-1,220.6	5,156.8	2.00	-2.00	0.00
15,900.0	86.86	359.57	10,238.8	5,247.7	-1,221.3	5,256.8	2.00	-2.00	0.00
16,000.0	84.86	359.57	10,246.0	5,347.5	-1,222.1	5,356.5	2.00	-2.00	0.00
16,100.0	82.86	359.57	10,256.7	5,446.9	-1,222.8	5,455.9	2.00	-2.00	0.00
16,194.8	80.96	359.57	10,270.1	5,540.8	-1,223.5	5,549.8	2.00	-2.00	0.00
Start 1113.5 hold at 16194.8 MD									
16,200.0	80.96	359.57	10,270.9	5,545.9	-1,223.6	5,554.9	0.00	0.00	0.00
16,300.0	80.96	359.57	10,286.6	5,644.6	-1,224.3	5,653.7	0.00	0.00	0.00
16,400.0	80.96	359.57	10,302.3	5,743.4	-1,225.1	5,752.4	0.00	0.00	0.00
16,500.0	80.96	359.57	10,318.0	5,842.1	-1,225.8	5,851.2	0.00	0.00	0.00
16,600.0	80.96	359.57	10,333.7	5,940.9	-1,226.5	5,949.9	0.00	0.00	0.00
16,700.0	80.96	359.57	10,349.4	6,039.6	-1,227.3	6,048.7	0.00	0.00	0.00
16,800.0	80.96	359.57	10,365.1	6,138.4	-1,228.0	6,147.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,900.0	80.96	359.57	10,380.9	6,237.2	-1,228.8	6,246.2	0.00	0.00	0.00	
17,000.0	80.96	359.57	10,396.6	6,335.9	-1,229.5	6,345.0	0.00	0.00	0.00	
17,100.0	80.96	359.57	10,412.3	6,434.7	-1,230.3	6,443.7	0.00	0.00	0.00	
17,200.0	80.96	359.57	10,428.0	6,533.4	-1,231.0	6,542.5	0.00	0.00	0.00	
17,300.0	80.96	359.57	10,443.7	6,632.2	-1,231.7	6,641.2	0.00	0.00	0.00	
17,308.3	80.96	359.57	10,445.0	6,640.4	-1,231.8	6,649.5	0.00	0.00	0.00	
Start Build 2.00										
17,400.0	82.79	359.57	10,458.0	6,731.1	-1,232.5	6,740.2	2.00	2.00	0.00	
17,500.0	84.79	359.57	10,468.8	6,830.6	-1,233.2	6,839.6	2.00	2.00	0.00	
17,600.0	86.79	359.57	10,476.1	6,930.3	-1,234.0	6,939.3	2.00	2.00	0.00	
17,700.0	88.79	359.57	10,480.0	7,030.2	-1,234.7	7,039.3	2.00	2.00	0.00	
17,760.0	89.99	359.57	10,480.6	7,090.2	-1,235.2	7,099.3	2.00	2.00	0.00	
DP2 - Charlie KS State Com #147H										
17,760.3	90.00	359.57	10,480.6	7,090.5	-1,235.2	7,099.6	2.00	2.00	0.00	
Start 5385.0 hold at 17760.3 MD										
17,800.0	90.00	359.57	10,480.6	7,130.2	-1,235.5	7,139.3	0.00	0.00	0.00	
17,900.0	90.00	359.57	10,480.6	7,230.2	-1,236.2	7,239.3	0.00	0.00	0.00	
18,000.0	90.00	359.57	10,480.6	7,330.2	-1,237.0	7,339.3	0.00	0.00	0.00	
18,100.0	90.00	359.57	10,480.6	7,430.2	-1,237.7	7,439.3	0.00	0.00	0.00	
18,200.0	90.00	359.57	10,480.6	7,530.2	-1,238.5	7,539.3	0.00	0.00	0.00	
18,300.0	90.00	359.57	10,480.6	7,630.2	-1,239.2	7,639.3	0.00	0.00	0.00	
18,400.0	90.00	359.57	10,480.6	7,730.2	-1,240.0	7,739.3	0.00	0.00	0.00	
18,500.0	90.00	359.57	10,480.6	7,830.2	-1,240.7	7,839.3	0.00	0.00	0.00	
18,600.0	90.00	359.57	10,480.6	7,930.2	-1,241.5	7,939.3	0.00	0.00	0.00	
18,700.0	90.00	359.57	10,480.6	8,030.2	-1,242.2	8,039.3	0.00	0.00	0.00	
18,800.0	90.00	359.57	10,480.6	8,130.2	-1,243.0	8,139.3	0.00	0.00	0.00	
18,900.0	90.00	359.57	10,480.6	8,230.2	-1,243.7	8,239.3	0.00	0.00	0.00	
19,000.0	90.00	359.57	10,480.6	8,330.2	-1,244.5	8,339.3	0.00	0.00	0.00	
19,100.0	90.00	359.57	10,480.6	8,430.1	-1,245.2	8,439.3	0.00	0.00	0.00	
19,200.0	90.00	359.57	10,480.6	8,530.1	-1,246.0	8,539.3	0.00	0.00	0.00	
19,300.0	90.00	359.57	10,480.6	8,630.1	-1,246.7	8,639.3	0.00	0.00	0.00	
19,400.0	90.00	359.57	10,480.6	8,730.1	-1,247.5	8,739.3	0.00	0.00	0.00	
19,500.0	90.00	359.57	10,480.6	8,830.1	-1,248.2	8,839.3	0.00	0.00	0.00	
19,600.0	90.00	359.57	10,480.6	8,930.1	-1,249.0	8,939.3	0.00	0.00	0.00	
19,700.0	90.00	359.57	10,480.6	9,030.1	-1,249.7	9,039.3	0.00	0.00	0.00	
19,800.0	90.00	359.57	10,480.6	9,130.1	-1,250.5	9,139.3	0.00	0.00	0.00	
19,900.0	90.00	359.57	10,480.6	9,230.1	-1,251.2	9,239.3	0.00	0.00	0.00	
20,000.0	90.00	359.57	10,480.6	9,330.1	-1,252.0	9,339.3	0.00	0.00	0.00	
20,100.0	90.00	359.57	10,480.6	9,430.1	-1,252.7	9,439.3	0.00	0.00	0.00	
20,200.0	90.00	359.57	10,480.6	9,530.1	-1,253.5	9,539.3	0.00	0.00	0.00	
20,300.0	90.00	359.57	10,480.6	9,630.1	-1,254.2	9,639.3	0.00	0.00	0.00	
20,400.0	90.00	359.57	10,480.6	9,730.1	-1,255.0	9,739.3	0.00	0.00	0.00	
20,500.0	90.00	359.57	10,480.6	9,830.1	-1,255.7	9,839.3	0.00	0.00	0.00	
20,600.0	90.00	359.57	10,480.6	9,930.1	-1,256.5	9,939.3	0.00	0.00	0.00	
20,700.0	90.00	359.57	10,480.6	10,030.1	-1,257.2	10,039.3	0.00	0.00	0.00	
20,800.0	90.00	359.57	10,480.6	10,130.1	-1,258.0	10,139.3	0.00	0.00	0.00	
20,900.0	90.00	359.57	10,480.6	10,230.1	-1,258.7	10,239.3	0.00	0.00	0.00	
21,000.0	90.00	359.57	10,480.6	10,330.1	-1,259.5	10,339.3	0.00	0.00	0.00	
21,100.0	90.00	359.57	10,480.6	10,430.1	-1,260.2	10,439.3	0.00	0.00	0.00	
21,200.0	90.00	359.57	10,480.6	10,530.1	-1,261.0	10,539.3	0.00	0.00	0.00	
21,300.0	90.00	359.57	10,480.6	10,630.1	-1,261.7	10,639.3	0.00	0.00	0.00	
21,400.0	90.00	359.57	10,480.6	10,730.1	-1,262.5	10,739.3	0.00	0.00	0.00	
21,500.0	90.00	359.57	10,480.6	10,830.1	-1,263.2	10,839.3	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
21,600.0	90.00	359.57	10,480.6	10,930.1	-1,264.0	10,939.3	0.00	0.00	0.00	
21,700.0	90.00	359.57	10,480.6	11,030.1	-1,264.7	11,039.3	0.00	0.00	0.00	
21,800.0	90.00	359.57	10,480.6	11,130.1	-1,265.5	11,139.3	0.00	0.00	0.00	
21,900.0	90.00	359.57	10,480.6	11,230.1	-1,266.2	11,239.3	0.00	0.00	0.00	
22,000.0	90.00	359.57	10,480.6	11,330.1	-1,267.0	11,339.3	0.00	0.00	0.00	
22,100.0	90.00	359.57	10,480.6	11,430.1	-1,267.7	11,439.3	0.00	0.00	0.00	
22,200.0	90.00	359.57	10,480.6	11,530.1	-1,268.5	11,539.3	0.00	0.00	0.00	
22,300.0	90.00	359.57	10,480.6	11,630.1	-1,269.2	11,639.3	0.00	0.00	0.00	
22,400.0	90.00	359.57	10,480.6	11,730.1	-1,270.0	11,739.3	0.00	0.00	0.00	
22,500.0	90.00	359.57	10,480.6	11,830.1	-1,270.7	11,839.3	0.00	0.00	0.00	
22,600.0	90.00	359.57	10,480.6	11,930.0	-1,271.5	11,939.3	0.00	0.00	0.00	
22,700.0	90.00	359.57	10,480.6	12,030.0	-1,272.2	12,039.3	0.00	0.00	0.00	
22,800.0	90.00	359.57	10,480.6	12,130.0	-1,273.0	12,139.3	0.00	0.00	0.00	
22,900.0	90.00	359.57	10,480.6	12,230.0	-1,273.8	12,239.3	0.00	0.00	0.00	
23,000.0	90.00	359.57	10,480.6	12,330.0	-1,274.5	12,339.3	0.00	0.00	0.00	
23,100.0	90.00	359.57	10,480.6	12,430.0	-1,275.3	12,439.3	0.00	0.00	0.00	
23,145.4	90.00	359.57	10,480.6	12,475.4	-1,275.6	12,484.6	0.00	0.00	0.00	
TD at 23145.4 - BHL - Charlie KS State Com #147H										

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	
KOP - Charlie KS State Com #147H - plan hits target center - Point	0.00	0.00	9,661.5	-558.3	-1,158.7	514,952.00	723,494.00	32° 24' 49.088 N	103° 36' 32.799 W	
FPP - Charlie KS State Com #147H - plan hits target center - Point	0.00	0.00	9,898.6	-507.0	-1,160.6	515,003.31	723,492.02	32° 24' 49.596 N	103° 36' 32.818 W	
DP1 - Charlie KS State Com #147H - plan hits target center - Point	0.00	0.00	10,234.5	5,090.7	-1,220.2	520,600.97	723,432.48	32° 25' 44.990 N	103° 36' 33.070 W	
BHL - Charlie KS State Com #147H - plan misses target center by 0.6usft at 23145.4usft MD (10480.6 TVD, 12475.4 N, -1275.6 E) - Point	0.00	0.00	10,480.5	12,475.4	-1,275.0	527,985.71	723,377.66	32° 26' 58.068 N	103° 36' 33.125 W	
DP2 - Charlie KS State Com #147H - plan misses target center by 0.2usft at 17760.0usft MD (10480.6 TVD, 7090.2 N, -1235.2 E) - Point	0.00	0.00	10,480.5	7,090.2	-1,235.0	522,600.55	723,417.63	32° 26' 4.777 N	103° 36' 33.085 W	

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Charlie KS State Com #147H
Company:	Matador Production Company	TVD Reference:	KB @ 3645.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3645.5usft
Site:	Paul Flowers / Charlie KS	North Reference:	Grid
Well:	Charlie KS State Com #147H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,054.0	1,054.0	Z (Rustler)		0.00	359.57
1,371.0	1,371.0	Z (Salado)		0.00	359.57
4,672.2	4,632.0	Z (G30:CS14-CSB)		0.00	359.57
4,849.6	4,807.0	Z (G26: Bell Cyn.)		0.00	359.57
5,997.5	5,939.0	Z (G13: Cherry Cyn.)		0.00	359.57
7,133.2	7,059.0	Z (G7: Brushy Cyn.) Antelope Ridge		0.00	359.57
8,523.4	8,430.0	G5: L. Brushy Cyn.		0.00	359.57
8,762.7	8,666.0	Z (G4: BSG (CS9))		0.00	359.57
9,411.2	9,307.0	L8.2: U. Avalon Shale		0.00	359.57
9,631.7	9,527.0	L6.3: Avalon Carb		0.00	359.57
9,794.7	9,690.0	Z (L5.3: FBSC)		0.00	359.57
9,977.9	9,868.4	Z (L5.1: FBSC)		0.00	359.57
10,236.1	10,080.4	Z (L4.3: SBSC)		0.00	359.57

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,450.0	1,450.0	0.0	0.0	Start Build 2.00
1,926.9	1,924.7	-17.2	-35.7	Start 7203.4 hold at 1926.9 MD
9,130.3	9,028.5	-535.4	-1,111.1	Start Drop -1.50
9,766.2	9,661.5	-558.3	-1,158.7	Start Build 10.00
10,666.2	10,234.5	14.2	-1,180.7	Start DLS 2.00 TFO 90.01
10,755.0	10,234.5	103.0	-1,182.7	Start 4987.8 hold at 10755.0 MD
15,742.8	10,234.5	5,090.7	-1,220.2	Start DLS 2.00 TFO -180.00
16,194.8	10,270.1	5,540.8	-1,223.5	Start 1113.5 hold at 16194.8 MD
17,308.3	10,445.0	6,640.4	-1,231.8	Start Build 2.00
17,760.3	10,480.6	7,090.5	-1,235.2	Start 5385.0 hold at 17760.3 MD
23,145.4	10,480.6	12,475.4	-1,275.6	TD at 23145.4

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 480845

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 480845
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	7/2/2025