Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
https://www.emnrd.nm.gov/ocd/contact-us/

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-53344

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No. VB2312002

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.)

7. Lease Name or Unit Agreement Name: Rope State Com

1. Type of Well: Oil Well [X] Gas Well [ ] Other

8. Well Number: 604H

2. Name of Operator: Coterra Energy Operating Co.

9. OGRID Number: 215099

3. Address of Operator: 6001 Deauville Blvd, Midland, TX 79706

10. Pool name or Wildcat: Airstrip; Bone Spring,WC-025 G-06 S183518A; Bone Spring

4. Well Location
Unit Letter M : 338 feet from the S line and 1133 feet from the E line
Section 30 Township 18S Range 35E NMPM SESE County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3939.1

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	[X]	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.

Coterra Energy Operating Co. requests the following changes to the Rope State Com 604H:

BHL from 100 FNL 925 FEL to 2545 FSL 730 FEL
MD from 25844' to 28563'
TVD from 10348' to 10432'
Update Airstrip; Bone Spring spacing to 320 acres
Update WC-025 G-06 S183518A; Bone Spring spacing to 800 acres

Spud Date: 4/9/2026 Rig Release Date: 5/9/2026

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

SIGNATURE Shelly Bowen TITLE Sr. Regulatory Analyst DATE 34/21/2026

Type or print name Shelly Bowen E-mail address: shelly.bowen@coterra.com PHONE: 432-620-1644

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 INFORMATION

API Number 30-025-53344	Pool Code 960	Pool Name Airstrip; Bone Spring	
Property Code 338213	Property Name ROPE STATE COM		Well Number 604H
OGRID No. 215099	Operator Name COTERRA ENERGY OPERATING CO.		Ground Level Elevation 3939.1'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	30	18S	35E		338 SOUTH	1,133 EAST	32.712397°	-103.491885°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
I	7	18S	35E		2,545 SOUTH	730 EAST	32.762082°	-103.490740°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
320	Infill	30-025-53337	Y	C

Order Numbers. NA- JOA Well setbacks are under Common Ownership: ☐ Yes ☐ No NA

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	30	18S	35E		100 SOUTH	730 EAST	32.711737°	-103.490574°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	30	18S	35E		100 SOUTH	730 EAST	32.711737°	-103.490574°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
I	7	18S	35E		2,545 SOUTH	730 EAST	32.762082°	-103.490740°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
E2 Sec 30,19,17,7	☒ Horizontal ☐ Vertical	3939.1

OPERATOR CERTIFICATIONS

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.

Shelly Bowen 3/18/2026

Signature Date

Shelly Bowen

Printed Name

Shelly.Bowen@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the 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.

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 02-19-26

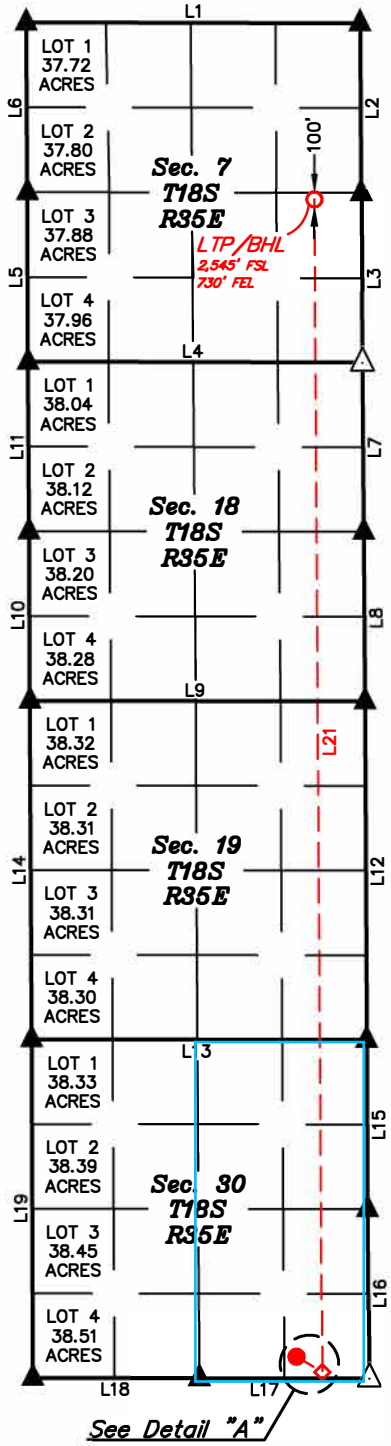
Signature and Seal of Professional Surveyor

23782 February 21, 2024

Certificate Number Date of Survey

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

Property Name	Well Number	Drawn By	Revised By
ROPE STATE COM	604H	E.C. 11-12-25	REV. 2 N.R. 02-19-26 (UPDATE KOP/LP/FTP & LTP/BHL)

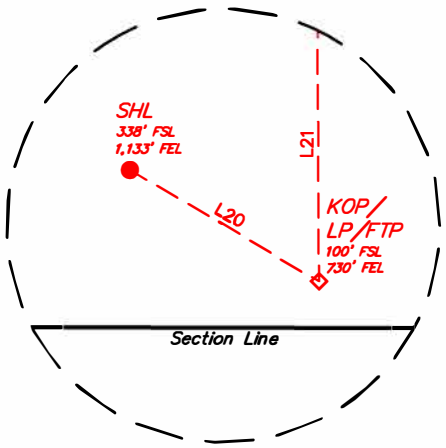


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°52'35"W	5215.75'
L2	N00°20'12"W	2652.85'
L3	N00°29'20"W	2644.93'
L4	N89°50'52"W	5226.42'
L5	N00°14'19"W	2646.78'
L6	N00°21'23"W	2648.29'
L7	N00°25'18"W	2644.91'
L8	N00°27'34"W	2647.99'
L9	N89°54'23"W	5237.28'
L10	N00°17'55"W	2647.91'
L11	N00°20'48"W	2650.24'
L12	N00°16'43"W	5289.66'
L13	N89°55'29"W	5236.78'
L14	N00°17'02"W	5291.33'
L15	N00°17'51"W	2644.77'
L16	N00°23'11"W	2647.64'
L17	N89°52'25"W	2645.47'
L18	N89°51'48"W	2601.02'
L19	N00°14'14"W	5287.20'
L20	S59°27'25"E	469.57'
L21	N00°22'21"W	18320.46'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°42'44.63" (32.712397°)
LONGITUDE = -103°29'30.79" (-103.491885°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°42'44.18" (32.712273°)
LONGITUDE = -103°29'29.01" (-103.491392°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623928.52' E: 800143.29'
STATE PLANE NAD 27 (N.M. EAST)
N: 623864.21' E: 758963.56'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°42'42.25" (32.711737°)
LONGITUDE = -103°29'26.07" (-103.490574°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°42'41.81" (32.711613°)
LONGITUDE = -103°29'24.29" (-103.490080°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623691.65' E: 800548.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 623627.35' E: 759368.91'

NAD 83 (LTP/BHL)
LATITUDE = 32°45'43.50" (32.762082°)
LONGITUDE = -103°29'26.66" (-103.490740°)
NAD 27 (LTP/BHL)
LATITUDE = 32°45'43.05" (32.761958°)
LONGITUDE = -103°29'24.88" (-103.490245°)
STATE PLANE NAD 83 (N.M. EAST)
N: 642008.07' E: 800351.79'
STATE PLANE NAD 27 (N.M. EAST)
N: 641943.25' E: 759172.57'



Detail "A"
No Scale

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Section breakdown information for this plan may be obtained from Uintah Engineering and Land Surveying.

● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

SCALE

Sheet 2 of 2

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 INFORMATION

API Number	Pool Code	Pool Name
30-025-53344	97930	WC-025 G-06 S183518A; Bone Spring

Property Code	Property Name	Well Number
338213	ROPE STATE COM	604H

OGRID No.	Operator Name	Ground Level Elevation
215099	COTERRA ENERGY OPERATING CO.	3939.1'

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	30	18S	35E		338 SOUTH	1,133 EAST	32.712397°	-103.491885°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
I	7	18S	35E		2,545 SOUTH	730 EAST	32.762082°	-103.490740°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
800	Infill	30-025-53337	Y	C

Order Numbers. NA- JOA Well setbacks are under Common Ownership: ☐ Yes ☐ No NA

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	30	18S	35E		100 SOUTH	730 EAST	32.711737°	-103.490574°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	30	18S	35E		100 SOUTH	730 EAST	32.711737°	-103.490574°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
I	7	18S	35E		2,545 SOUTH	730 EAST	32.762082°	-103.490740°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
E2 Sec 30,19,17,7	☒ Horizontal ☐ Vertical	3939.1

OPERATOR CERTIFICATIONS

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.

Shelly Bowen 4/21/2026

Signature Date

Shelly Bowen

Printed Name

Shelly.Bowen@coterra.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from the 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.

PAUL BUCHELE NEW MEXICO 23782 PROFESSIONAL SURVEYOR 02-19-26

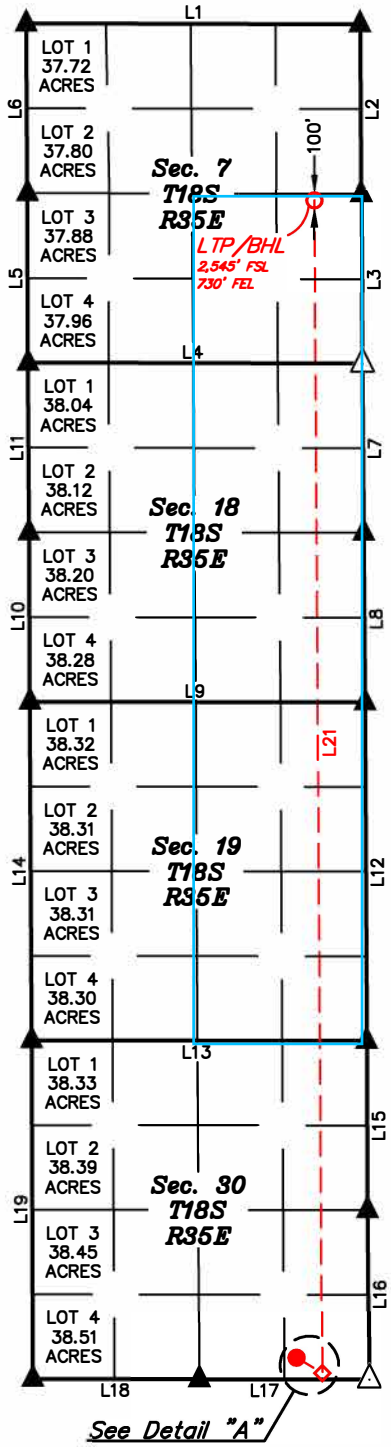
Signature and Seal of Professional Surveyor

23782 February 21, 2024

Certificate Number Date of Survey

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

Property Name	Well Number	Drawn By	Revised By
ROPE STATE COM	604H	E.C. 11-12-25	REV. 2 N.R. 02-19-26 (UPDATE KOP/LP/FTP & LTP/BHL)

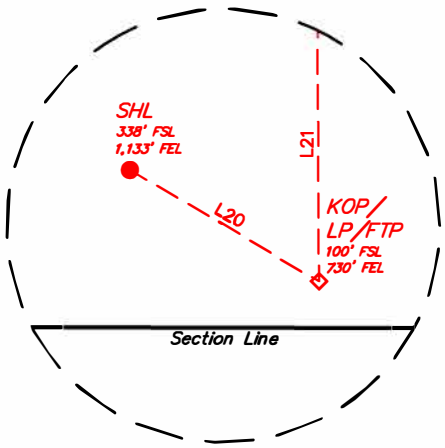


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N89°52'35"W	5215.75'
L2	N00°20'12"W	2652.85'
L3	N00°29'20"W	2644.93'
L4	N89°50'52"W	5226.42'
L5	N00°14'19"W	2646.78'
L6	N00°21'23"W	2648.29'
L7	N00°25'18"W	2644.91'
L8	N00°27'34"W	2647.99'
L9	N89°54'23"W	5237.28'
L10	N00°17'55"W	2647.91'
L11	N00°20'48"W	2650.24'
L12	N00°16'43"W	5289.66'
L13	N89°55'29"W	5236.78'
L14	N00°17'02"W	5291.33'
L15	N00°17'51"W	2644.77'
L16	N00°23'11"W	2647.64'
L17	N89°52'25"W	2645.47'
L18	N89°51'48"W	2601.02'
L19	N00°14'14"W	5287.20'
L20	S59°27'25"E	469.57'
L21	N00°22'21"W	18320.46'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°42'44.63" (32.712397°)
LONGITUDE = -103°29'30.79" (-103.491885°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°42'44.18" (32.712273°)
LONGITUDE = -103°29'29.01" (-103.491392°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623928.52' E: 800143.29'
STATE PLANE NAD 27 (N.M. EAST)
N: 623864.21' E: 758963.56'

NAD 83 (KOP/LP/FTP)
LATITUDE = 32°42'42.25" (32.711737°)
LONGITUDE = -103°29'26.07" (-103.490574°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°42'41.81" (32.711613°)
LONGITUDE = -103°29'24.29" (-103.490080°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623691.65' E: 800548.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 623627.35' E: 759368.91'

NAD 83 (LTP/BHL)
LATITUDE = 32°45'43.50" (32.762082°)
LONGITUDE = -103°29'26.66" (-103.490740°)
NAD 27 (LTP/BHL)
LATITUDE = 32°45'43.05" (32.761958°)
LONGITUDE = -103°29'24.88" (-103.490245°)
STATE PLANE NAD 83 (N.M. EAST)
N: 642008.07' E: 800351.79'
STATE PLANE NAD 27 (N.M. EAST)
N: 641943.25' E: 759172.57'



Detail "A"
No Scale

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Section breakdown information for this plan may be obtained from Uintah Engineering and Land Surveying.

● = SURFACE HOLE LOCATION
◇ = KICK OFF POINT/LANDING POINT/FIRST TAKE POINT
○ = LAST TAKE POINT/ BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

SCALE

Sheet 2 of 2

1. Geological Formations

TVD of target
MD at TD

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1893	N/A	
Top of Salt	2159	N/A	
Base of Salt/Lamar	5732	N/A	
Top Delaware Sands/Bell Canyon	5847	N/A	
Cherry Canyon	6115	N/A	
Brushy Canyon	6573	N/A	
Basal Brushy Canyon	7413	N/A	
Bone Spring Lime	7575	N/A	
Leonard/Avalon Sand	7795	N/A	
1st Bone Spring Sand	9097	Hydrocarbons	
2nd Bone Spring Sand	9633	Hydrocarbons	
3rd Bone Spring Carb	10162	Hydrocarbons	
3rd Bone Spring Sand	10295	Hydrocarbons	
3rd Bone Spring Sand - Target	10427	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	2004	2004	13-3/8"	54.50	J-55	BT&C	1.31	3.17	7.81
12 1/4	0	5757	5757	9-5/8"	40.00	HCK-55	LT&C	1.24	1.28	2.44
8 1/2	0	9856	9856	7"	29.00	P-110	BT&C	1.85	2.43	5.18
8 1/2	9856	28563	8975	5-1/2"	20.00	P-110	BT&C	2.64	2.94	(36.38)
					BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.
All casing strings will be tested in accordance with 43 CFR 3172.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	971	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	260	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	1075	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	292	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	224	10.30	3.64	22.18		Lead: Tuned Light + LCM
	4946	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	52
Production	5557	

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	**13 5/8**	**10M**	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram		
			Double Ram	X	
			Other		
8 1/2	**13 5/8**	**10M**	Annular	5M	100% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 2004'	Fresh Water	7.80 - 8.30	28	N/C
2004' to 5757'	Brine Water	9.80 - 10.30	30-32	N/C
5757' to 28563'	Oil Based Mud	8.50 - 9.00	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing	
	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
X	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4200 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
X	H2S is present
X	H2S plan is attached

8. Other Facets of Operation

9. Wellhead

1. The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.

2. A packoff will be installed after running and cementing the production casing. This packoff will be tested to 10K psi.

BOPE Additional Information & Testing

1. After running the first string of casing, a 10M BOP/BOPE system with 5M annular will be installed. BOPs will be tested according to Onshore Order #2. BOPE will be tested to full rated pressure (10K for all BOPE except the annular, which is tested to 5K). For the low test, the system will be tested to 250 psi.

2. All BOP equipment will be tested utilizing a conventional test plug.

3. A remote kill line is included in the BOPE system

4. All casing strings will be tested per Onshore Order #2, to 0.22 psi/ft or 1,500 psi, whichever is greater, not to exceed 70% of casing burst.

5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Additional Well Control Notes

1. In the event wellbore pressure encroaches to the maximum rated pressure of the annular, primary pressure control will be switched to the higher rated components (i.e., switch from annular to pipe rams) – upper pipe rams will be closed, and the annular opened in order to not exceed maximum rated pressures.

Coterra Energy

Site: Rope State Com Pad
Well: Rope State Com 604H
Wellbore: OH
Design: Plan #2
Rig:

SHL

338' FSL, 1133' FEL
RKB Elevation: GE 3939.1' + KB 23' @ 3962.10usft

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	623928.52	800143.29	32.7123970	-103.4918854	

Formations

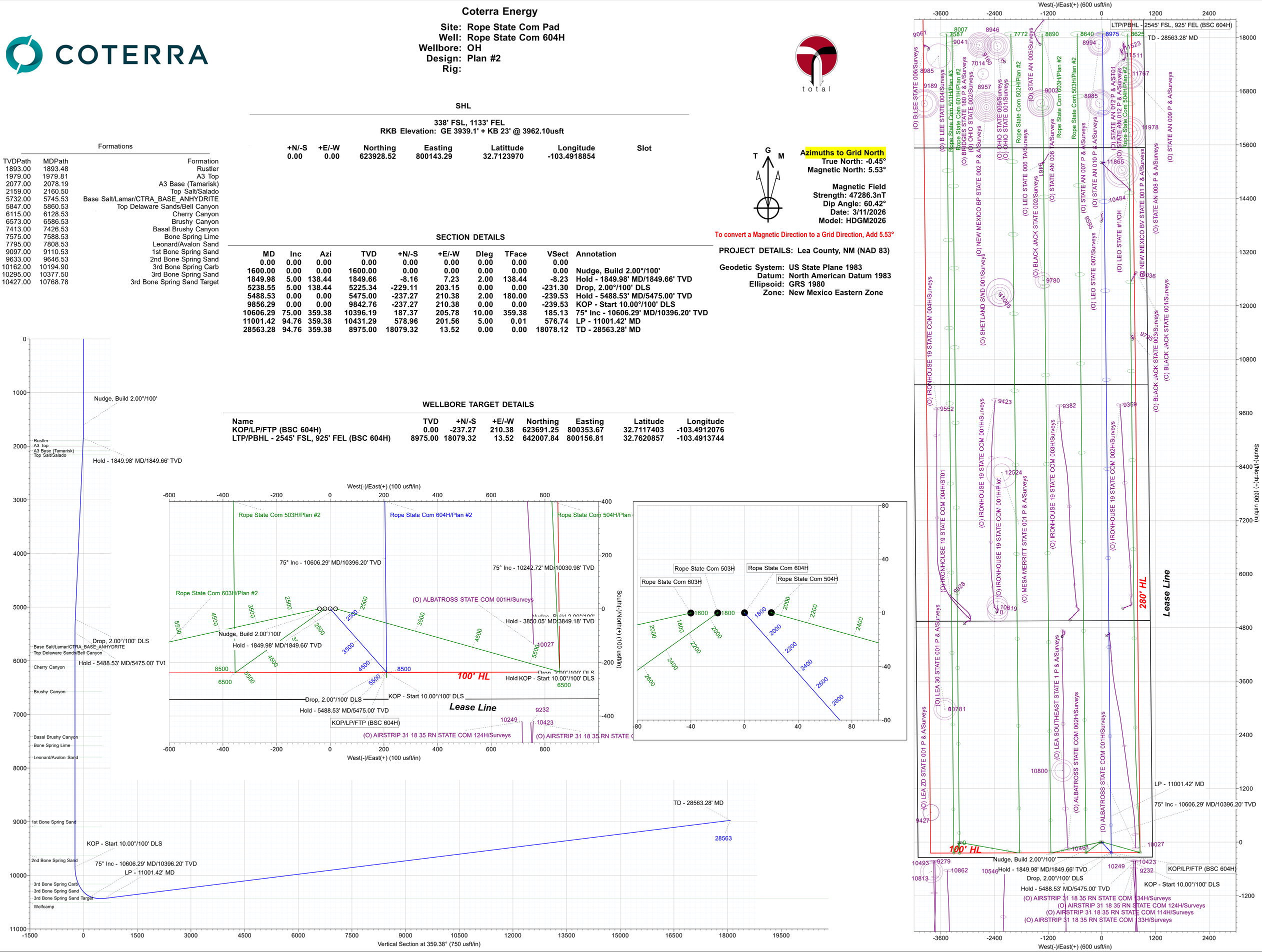
TVDPath	MDPath	Formation
1893.00	1893.48	Rustler
1979.00	1979.81	A3 Top
2077.00	2078.19	A3 Base (Tamarisk)
2159.00	2160.50	Top Salt/Salado
5732.00	5745.53	Base Salt/Lamar/CTRA_BASE_ANHYDRITE
5847.00	5860.53	Top Delaware Sands/Bell Canyon
6115.00	6128.53	Cherry Canyon
6573.00	6586.53	Brushy Canyon
7413.00	7426.53	Basal Brushy Canyon
7575.00	7588.53	Bone Spring Lime
7795.00	7808.53	Leonard/Avalon Sand
9097.00	9110.53	1st Bone Spring Sand
9633.00	9646.53	2nd Bone Spring Sand
10162.00	10194.90	3rd Bone Spring Carb
10295.00	10377.50	3rd Bone Spring Sand
10427.00	10768.78	3rd Bone Spring Sand Target

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	Nudge, Build 2.00°/100'
1849.98	5.00	138.44	1849.66	-8.16	7.23	2.00	138.44	-8.23	Hold - 1849.98' MD/1849.66' TVD
5238.55	5.00	138.44	5225.34	-229.11	203.15	0.00	0.00	-231.30	Drop, 2.00°/100' DLS
5488.53	0.00	0.00	5475.00	-237.27	210.38	2.00	180.00	-239.53	Hold - 5488.53' MD/5475.00' TVD
9856.29	0.00	0.00	9842.76	-237.27	210.38	0.00	0.00	-239.53	KOP - Start 10.00°/100' DLS
10606.29	75.00	359.38	10396.19	187.37	205.78	10.00	359.38	185.13	75° Inc - 10606.29' MD/10396.20' TVD
11001.42	94.76	359.38	10431.29	578.96	201.56	5.00	0.01	576.74	LP - 11001.42' MD
28563.28	94.76	359.38	8975.00	18079.32	13.52	0.00	0.00	18078.12	TD - 28563.28' MD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP/LP/FTP (BSC 604H)	0.00	-237.27	210.38	623691.25	800353.67	32.7117403	-103.4912076
LTP/PBHL - 2545' FSL, 925' FEL (BSC 604H)	8975.00	18079.32	13.52	642007.84	800156.81	32.7620857	-103.4913744



Coterra Energy

Lea County, NM (NAD 83)
Rope State Com Pad
Rope State Com 604H

338' FSL, 1133' FEL

OH

Plan: Plan #2

Total Directional
"Driven by TOTAL performance"

Standard Plan Report

18 March, 2026

Total Report Version 1.80

COMPASS 5000.16 Build 97

ATTENTION
All annotation callouts related to distances are uncertified and are approximated footages using available software and measurement tools. They should not be mistaken as an official record, which can only be obtained via a certified land surveyor.

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Project Lea County, NM (NAD 83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Rope State Com Pad

Site Position:		**Northing:**	623,928.44 usft	**Latitude:**	32.7123973
From:	Map	**Easting:**	800,123.29 usft	**Longitude:**	-103.4919504
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Rope State Com 604H

Well Position	**+N/-S**	0.00 usft	**Northing:**	623,928.52 usft	**Latitude:**	32.7123970
	+E/-W	0.00 usft	**Easting:**	800,143.29 usft	**Longitude:**	-103.4918854
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,939.10 usft
Grid Convergence:		0.45 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2026	3/11/2026	5.98	60.42	47,286.30000000

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.38

Survey Tool Program **Date** 3/18/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	28,563.18	Plan #2 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Plan Summary

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,849.98	5.00	138.44	1,849.66	-8.16	7.23	2.00	2.00	0.00	138.44	
5,238.55	5.00	138.44	5,225.34	-229.11	203.15	0.00	0.00	0.00	0.00	
5,488.53	0.00	0.00	5,475.00	-237.27	210.38	2.00	-2.00	0.00	180.00	
9,856.29	0.00	0.00	9,842.76	-237.27	210.38	0.00	0.00	0.00	0.00	
10,606.29	75.00	359.38	10,396.19	187.37	205.78	10.00	10.00	0.00	359.38	
11,001.42	94.76	359.38	10,431.29	578.96	201.56	5.00	5.00	0.00	0.01	
28,563.28	94.76	359.38	8,975.00	18,079.32	13.52	0.00	0.00	0.00	0.00	LTP/PBHL - 2545' F

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
KOP/LP/FTP (BSC 604H)													
100.00	0.00	0.00	100.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	623,928.52	800,143.29	32.7123970	-103.4918854	0.00	0.00	0.00	0.00
Nudge, Build 2.00°/100'													
1,700.00	2.00	138.44	1,699.98	-1.31	1.16	623,927.21	800,144.45	32.7123934	-103.4918817	-1.32	2.00	2.00	0.00
1,800.00	4.00	138.44	1,799.84	-5.22	4.63	623,923.30	800,147.92	32.7123826	-103.4918705	-5.27	2.00	2.00	0.00
1,849.98	5.00	138.44	1,849.66	-8.16	7.23	623,920.36	800,150.52	32.7123745	-103.4918621	-8.23	2.00	2.00	0.00
Hold - 1849.98' MD/1849.66' TVD													
1,893.48	5.00	138.44	1,893.00	-10.99	9.75	623,917.53	800,153.04	32.7123666	-103.4918540	-11.10	0.00	0.00	0.00
Rustler													
1,900.00	5.00	138.44	1,899.49	-11.42	10.12	623,917.10	800,153.41	32.7123654	-103.4918528	-11.53	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,979.81	5.00	138.44	1,979.00	-16.62	14.74	623,911.90	800,158.03	32.7123510	-103.4918379	-16.78	0.00	0.00	0.00
A3 Top													
2,000.00	5.00	138.44	1,999.11	-17.94	15.90	623,910.58	800,159.19	32.7123474	-103.4918342	-18.11	0.00	0.00	0.00
2,078.19	5.00	138.44	2,077.00	-23.04	20.43	623,905.48	800,163.72	32.7123333	-103.4918196	-23.26	0.00	0.00	0.00
A3 Base (Tamarisk)													
2,100.00	5.00	138.44	2,098.73	-24.46	21.69	623,904.06	800,164.98	32.7123293	-103.4918155	-24.69	0.00	0.00	0.00
2,160.50	5.00	138.44	2,159.00	-28.40	25.18	623,900.12	800,168.47	32.7123184	-103.4918043	-28.67	0.00	0.00	0.00
Top Salt/Salado													
2,200.00	5.00	138.44	2,198.35	-30.98	27.47	623,897.54	800,170.76	32.7123113	-103.4917969	-31.27	0.00	0.00	0.00
2,300.00	5.00	138.44	2,297.97	-37.50	33.25	623,891.02	800,176.54	32.7122933	-103.4917783	-37.86	0.00	0.00	0.00
2,400.00	5.00	138.44	2,397.59	-44.02	39.03	623,884.50	800,182.32	32.7122752	-103.4917597	-44.44	0.00	0.00	0.00
2,500.00	5.00	138.44	2,497.21	-50.54	44.81	623,877.98	800,188.10	32.7122572	-103.4917410	-51.02	0.00	0.00	0.00
2,600.00	5.00	138.44	2,596.83	-57.06	50.60	623,871.46	800,193.89	32.7122391	-103.4917224	-57.61	0.00	0.00	0.00
2,700.00	5.00	138.44	2,696.45	-63.58	56.38	623,864.94	800,199.67	32.7122211	-103.4917038	-64.19	0.00	0.00	0.00
2,800.00	5.00	138.44	2,796.07	-70.10	62.16	623,858.42	800,205.45	32.7122030	-103.4916852	-70.77	0.00	0.00	0.00
2,900.00	5.00	138.44	2,895.69	-76.62	67.94	623,851.90	800,211.23	32.7121850	-103.4916665	-77.36	0.00	0.00	0.00
3,000.00	5.00	138.44	2,995.31	-83.15	73.72	623,845.37	800,217.01	32.7121669	-103.4916479	-83.94	0.00	0.00	0.00
3,100.00	5.00	138.44	3,094.93	-89.67	79.50	623,838.85	800,222.79	32.7121489	-103.4916293	-90.52	0.00	0.00	0.00
3,200.00	5.00	138.44	3,194.55	-96.19	85.29	623,832.33	800,228.58	32.7121308	-103.4916106	-97.10	0.00	0.00	0.00
3,300.00	5.00	138.44	3,294.17	-102.71	91.07	623,825.81	800,234.36	32.7121128	-103.4915920	-103.69	0.00	0.00	0.00
3,400.00	5.00	138.44	3,393.79	-109.23	96.85	623,819.29	800,240.14	32.7120947	-103.4915734	-110.27	0.00	0.00	0.00
3,500.00	5.00	138.44	3,493.41	-115.75	102.63	623,812.77	800,245.92	32.7120767	-103.4915548	-116.85	0.00	0.00	0.00
3,600.00	5.00	138.44	3,593.02	-122.27	108.41	623,806.25	800,251.70	32.7120586	-103.4915361	-123.44	0.00	0.00	0.00
3,700.00	5.00	138.44	3,692.64	-128.79	114.19	623,799.73	800,257.48	32.7120406	-103.4915175	-130.02	0.00	0.00	0.00
3,800.00	5.00	138.44	3,792.26	-135.31	119.98	623,793.21	800,263.27	32.7120225	-103.4914989	-136.60	0.00	0.00	0.00
3,900.00	5.00	138.44	3,891.88	-141.83	125.76	623,786.69	800,269.05	32.7120045	-103.4914802	-143.18	0.00	0.00	0.00
4,000.00	5.00	138.44	3,991.50	-148.35	131.54	623,780.17	800,274.83	32.7119864	-103.4914616	-149.77	0.00	0.00	0.00
4,100.00	5.00	138.44	4,091.12	-154.87	137.32	623,773.65	800,280.61	32.7119684	-103.4914430	-156.35	0.00	0.00	0.00
4,200.00	5.00	138.44	4,190.74	-161.39	143.10	623,767.13	800,286.39	32.7119503	-103.4914244	-162.93	0.00	0.00	0.00
4,300.00	5.00	138.44	4,290.36	-167.91	148.88	623,760.61	800,292.17	32.7119323	-103.4914057	-169.52	0.00	0.00	0.00
4,400.00	5.00	138.44	4,389.98	-174.44	154.67	623,754.08	800,297.96	32.7119143	-103.4913871	-176.10	0.00	0.00	0.00
4,500.00	5.00	138.44	4,489.60	-180.96	160.45	623,747.56	800,303.74	32.7118962	-103.4913685	-182.68	0.00	0.00	0.00
4,600.00	5.00	138.44	4,589.22	-187.48	166.23	623,741.04	800,309.52	32.7118782	-103.4913499	-189.26	0.00	0.00	0.00
4,700.00	5.00	138.44	4,688.84	-194.00	172.01	623,734.52	800,315.30	32.7118601	-103.4913312	-195.85	0.00	0.00	0.00
4,800.00	5.00	138.44	4,788.46	-200.52	177.79	623,728.00	800,321.08	32.7118421	-103.4913126	-202.43	0.00	0.00	0.00
4,900.00	5.00	138.44	4,888.08	-207.04	183.57	623,721.48	800,326.86	32.7118240	-103.4912940	-209.01	0.00	0.00	0.00
5,000.00	5.00	138.44	4,987.70	-213.56	189.36	623,714.96	800,332.65	32.7118060	-103.4912753	-215.60	0.00	0.00	0.00
5,100.00	5.00	138.44	5,087.32	-220.08	195.14	623,708.44	800,338.43	32.7117879	-103.4912567	-222.18	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	5.00	138.44	5,186.94	-226.60	200.92	623,701.92	800,344.21	32.7117699	-103.4912381	-228.76	0.00	0.00	0.00
5,238.55	5.00	138.44	5,225.34	-229.11	203.15	623,699.41	800,346.44	32.7117629	-103.4912309	-231.30	0.00	0.00	0.00
Drop, 2.00°/100' DLS													
5,300.00	3.77	138.44	5,286.61	-232.63	206.27	623,695.89	800,349.56	32.7117532	-103.4912209	-234.85	2.00	-2.00	0.00
5,400.00	1.77	138.44	5,386.49	-236.25	209.47	623,692.27	800,352.76	32.7117432	-103.4912105	-238.50	2.00	-2.00	0.00
5,488.53	0.00	0.00	5,475.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	2.00	-2.00	0.00
Hold - 5488.53' MD/5475.00' TVD													
5,500.00	0.00	0.00	5,486.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
5,600.00	0.00	0.00	5,586.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
5,700.00	0.00	0.00	5,686.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
5,745.53	0.00	0.00	5,732.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
Base Salt/Lamar/CTRA_BASE_ANHYDRITE													
5,800.00	0.00	0.00	5,786.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
5,860.53	0.00	0.00	5,847.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
Top Delaware Sands/Bell Canyon													
5,900.00	0.00	0.00	5,886.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,000.00	0.00	0.00	5,986.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,100.00	0.00	0.00	6,086.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,128.53	0.00	0.00	6,115.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
Cherry Canyon													
6,200.00	0.00	0.00	6,186.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,300.00	0.00	0.00	6,286.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,400.00	0.00	0.00	6,386.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,586.53	0.00	0.00	6,573.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
Brushy Canyon													
6,600.00	0.00	0.00	6,586.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,800.00	0.00	0.00	6,786.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
6,900.00	0.00	0.00	6,886.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,000.00	0.00	0.00	6,986.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,100.00	0.00	0.00	7,086.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,200.00	0.00	0.00	7,186.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,300.00	0.00	0.00	7,286.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,400.00	0.00	0.00	7,386.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,426.53	0.00	0.00	7,413.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
Basal Brushy Canyon													
7,500.00	0.00	0.00	7,486.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,588.53	0.00	0.00	7,575.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Bone Spring Lime													
7,600.00	0.00	0.00	7,586.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,700.00	0.00	0.00	7,686.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,800.00	0.00	0.00	7,786.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
7,808.53	0.00	0.00	7,795.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
Leonard/Avalon Sand													
7,900.00	0.00	0.00	7,886.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,000.00	0.00	0.00	7,986.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,100.00	0.00	0.00	8,086.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,200.00	0.00	0.00	8,186.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,300.00	0.00	0.00	8,286.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,400.00	0.00	0.00	8,386.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,500.00	0.00	0.00	8,486.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,600.00	0.00	0.00	8,586.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,700.00	0.00	0.00	8,686.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,800.00	0.00	0.00	8,786.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
8,900.00	0.00	0.00	8,886.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,000.00	0.00	0.00	8,986.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,100.00	0.00	0.00	9,086.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,110.53	0.00	0.00	9,097.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
1st Bone Spring Sand													
9,200.00	0.00	0.00	9,186.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,300.00	0.00	0.00	9,286.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,400.00	0.00	0.00	9,386.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,500.00	0.00	0.00	9,486.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,600.00	0.00	0.00	9,586.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,646.53	0.00	0.00	9,633.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
2nd Bone Spring Sand													
9,700.00	0.00	0.00	9,686.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,800.00	0.00	0.00	9,786.47	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
9,856.29	0.00	0.00	9,842.76	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076	-239.53	0.00	0.00	0.00
KOP - Start 10.00°/100' DLS													
9,900.00	4.37	359.38	9,886.43	-235.60	210.36	623,692.92	800,353.65	32.7117449	-103.4912076	-237.87	10.00	10.00	0.00
9,950.00	9.37	359.38	9,936.06	-229.62	210.30	623,698.90	800,353.59	32.7117614	-103.4912077	-231.89	10.00	10.00	0.00
10,000.00	14.37	359.38	9,984.97	-219.34	210.19	623,709.18	800,353.48	32.7117896	-103.4912078	-221.60	10.00	10.00	0.00
10,050.00	19.37	359.38	10,032.80	-204.84	210.03	623,723.68	800,353.32	32.7118295	-103.4912079	-207.10	10.00	10.00	0.00
10,100.00	24.37	359.38	10,079.19	-186.22	209.83	623,742.30	800,353.12	32.7118807	-103.4912081	-188.48	10.00	10.00	0.00
10,150.00	29.37	359.38	10,123.78	-163.63	209.58	623,764.89	800,352.87	32.7119428	-103.4912083	-165.88	10.00	10.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,194.90	33.86	359.38	10,162.00	-140.10	209.33	623,788.42	800,352.62	32.7120074	-103.4912085	-142.35	10.00	10.00	0.00
3rd Bone Spring Carb													
10,200.00	34.37	359.38	10,166.23	-137.24	209.30	623,791.28	800,352.59	32.7120153	-103.4912085	-139.49	10.00	10.00	0.00
10,250.00	39.37	359.38	10,206.21	-107.25	208.97	623,821.27	800,352.26	32.7120977	-103.4912088	-109.50	10.00	10.00	0.00
10,300.00	44.37	359.38	10,243.43	-73.88	208.61	623,854.64	800,351.90	32.7121894	-103.4912091	-76.14	10.00	10.00	0.00
10,350.00	49.37	359.38	10,277.60	-37.41	208.22	623,891.11	800,351.51	32.7122897	-103.4912095	-39.66	10.00	10.00	0.00
10,377.50	52.12	359.38	10,295.00	-16.12	207.99	623,912.40	800,351.28	32.7123482	-103.4912097	-18.37	10.00	10.00	0.00
3rd Bone Spring Sand													
10,400.00	54.37	359.38	10,308.47	1.91	207.79	623,930.43	800,351.08	32.7123978	-103.4912098	-0.34	10.00	10.00	0.00
10,450.00	59.37	359.38	10,335.78	43.77	207.34	623,972.29	800,350.63	32.7125128	-103.4912102	41.52	10.00	10.00	0.00
10,500.00	64.37	359.38	10,359.35	87.84	206.86	624,016.36	800,350.15	32.7126340	-103.4912106	85.60	10.00	10.00	0.00
10,550.00	69.37	359.38	10,378.98	133.81	206.36	624,062.33	800,349.65	32.7127603	-103.4912111	131.57	10.00	10.00	0.00
10,600.00	74.37	359.38	10,394.53	181.31	205.85	624,109.83	800,349.14	32.7128909	-103.4912115	179.07	10.00	10.00	0.00
10,606.29	75.00	359.38	10,396.19	187.37	205.78	624,115.89	800,349.07	32.7129075	-103.4912116	185.13	10.00	10.00	0.00
75° Inc - 10606.29' MD/10396.20' TVD													
10,700.00	79.69	359.38	10,416.72	278.78	204.80	624,207.30	800,348.09	32.7131588	-103.4912124	276.54	5.00	5.00	0.00
10,768.78	83.12	359.38	10,427.00	346.76	204.06	624,275.28	800,347.35	32.7133456	-103.4912131	344.54	5.00	5.00	0.00
3rd Bone Spring Sand Target													
10,800.00	84.69	359.38	10,430.32	377.81	203.73	624,306.33	800,347.02	32.7134310	-103.4912133	375.58	5.00	5.00	0.00
10,900.00	89.69	359.38	10,435.22	477.65	202.65	624,406.17	800,345.94	32.7137054	-103.4912143	475.43	5.00	5.00	0.00
11,001.42	94.76	359.38	10,431.29	578.96	201.56	624,507.48	800,344.85	32.7139838	-103.4912152	576.74	5.00	5.00	0.00
LP - 11001.42' MD													
11,100.00	94.76	359.38	10,423.12	677.19	200.51	624,605.71	800,343.80	32.7142539	-103.4912161	674.98	0.00	0.00	0.00
11,200.00	94.76	359.38	10,414.83	776.84	199.44	624,705.36	800,342.73	32.7145278	-103.4912170	774.64	0.00	0.00	0.00
11,300.00	94.76	359.38	10,406.54	876.49	198.37	624,805.01	800,341.66	32.7148017	-103.4912179	874.29	0.00	0.00	0.00
11,400.00	94.76	359.38	10,398.24	976.14	197.29	624,904.66	800,340.58	32.7150756	-103.4912188	973.95	0.00	0.00	0.00
11,500.00	94.76	359.38	10,389.95	1,075.79	196.22	625,004.31	800,339.51	32.7153495	-103.4912197	1,073.60	0.00	0.00	0.00
11,600.00	94.76	359.38	10,381.66	1,175.44	195.15	625,103.96	800,338.44	32.7156234	-103.4912206	1,173.26	0.00	0.00	0.00
11,700.00	94.76	359.38	10,373.37	1,275.09	194.08	625,203.61	800,337.37	32.7158973	-103.4912215	1,272.92	0.00	0.00	0.00
11,800.00	94.76	359.38	10,365.07	1,374.74	193.01	625,303.26	800,336.30	32.7161712	-103.4912224	1,372.57	0.00	0.00	0.00
11,900.00	94.76	359.38	10,356.78	1,474.39	191.94	625,402.91	800,335.23	32.7164451	-103.4912233	1,472.23	0.00	0.00	0.00
12,000.00	94.76	359.38	10,348.49	1,574.04	190.87	625,502.56	800,334.16	32.7167190	-103.4912243	1,571.88	0.00	0.00	0.00
12,100.00	94.76	359.38	10,340.20	1,673.69	189.80	625,602.21	800,333.09	32.7169929	-103.4912252	1,671.54	0.00	0.00	0.00
12,200.00	94.76	359.38	10,331.90	1,773.34	188.73	625,701.86	800,332.02	32.7172668	-103.4912261	1,771.19	0.00	0.00	0.00
12,300.00	94.76	359.38	10,323.61	1,872.99	187.66	625,801.51	800,330.95	32.7175407	-103.4912270	1,870.85	0.00	0.00	0.00
12,400.00	94.76	359.38	10,315.32	1,972.64	186.59	625,901.16	800,329.88	32.7178146	-103.4912279	1,970.50	0.00	0.00	0.00
12,500.00	94.76	359.38	10,307.03	2,072.29	185.52	626,000.81	800,328.81	32.7180885	-103.4912288	2,070.16	0.00	0.00	0.00
12,600.00	94.76	359.38	10,298.73	2,171.94	184.45	626,100.46	800,327.74	32.7183624	-103.4912297	2,169.82	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,700.00	94.76	359.38	10,290.44	2,271.59	183.37	626,200.11	800,326.66	32.7186363	-103.4912306	2,269.47	0.00	0.00	0.00
12,800.00	94.76	359.38	10,282.15	2,371.24	182.30	626,299.76	800,325.59	32.7189102	-103.4912315	2,369.13	0.00	0.00	0.00
12,900.00	94.76	359.38	10,273.86	2,470.89	181.23	626,399.41	800,324.52	32.7191841	-103.4912324	2,468.78	0.00	0.00	0.00
13,000.00	94.76	359.38	10,265.56	2,570.54	180.16	626,499.06	800,323.45	32.7194580	-103.4912333	2,568.44	0.00	0.00	0.00
13,100.00	94.76	359.38	10,257.27	2,670.19	179.09	626,598.71	800,322.38	32.7197319	-103.4912342	2,668.09	0.00	0.00	0.00
13,200.00	94.76	359.38	10,248.98	2,769.84	178.02	626,698.36	800,321.31	32.7200058	-103.4912351	2,767.75	0.00	0.00	0.00
13,300.00	94.76	359.38	10,240.69	2,869.49	176.95	626,798.01	800,320.24	32.7202797	-103.4912360	2,867.41	0.00	0.00	0.00
13,400.00	94.76	359.38	10,232.40	2,969.14	175.88	626,897.66	800,319.17	32.7205536	-103.4912370	2,967.06	0.00	0.00	0.00
13,500.00	94.76	359.38	10,224.10	3,068.79	174.81	626,997.31	800,318.10	32.7208275	-103.4912379	3,066.72	0.00	0.00	0.00
13,600.00	94.76	359.38	10,215.81	3,168.44	173.74	627,096.96	800,317.03	32.7211014	-103.4912388	3,166.37	0.00	0.00	0.00
13,700.00	94.76	359.38	10,207.52	3,268.09	172.67	627,196.61	800,315.96	32.7213753	-103.4912397	3,266.03	0.00	0.00	0.00
13,800.00	94.76	359.38	10,199.23	3,367.74	171.60	627,296.26	800,314.89	32.7216492	-103.4912406	3,365.68	0.00	0.00	0.00
13,900.00	94.76	359.38	10,190.93	3,467.39	170.53	627,395.91	800,313.82	32.7219231	-103.4912415	3,465.34	0.00	0.00	0.00
14,000.00	94.76	359.38	10,182.64	3,567.04	169.46	627,495.56	800,312.75	32.7221970	-103.4912424	3,564.99	0.00	0.00	0.00
14,100.00	94.76	359.38	10,174.35	3,666.69	168.38	627,595.21	800,311.67	32.7224709	-103.4912433	3,664.65	0.00	0.00	0.00
14,200.00	94.76	359.38	10,166.06	3,766.34	167.31	627,694.86	800,310.60	32.7227448	-103.4912442	3,764.31	0.00	0.00	0.00
14,300.00	94.76	359.38	10,157.76	3,865.99	166.24	627,794.51	800,309.53	32.7230187	-103.4912451	3,863.96	0.00	0.00	0.00
14,400.00	94.76	359.38	10,149.47	3,965.64	165.17	627,894.16	800,308.46	32.7232926	-103.4912460	3,963.62	0.00	0.00	0.00
14,500.00	94.76	359.38	10,141.18	4,065.29	164.10	627,993.81	800,307.39	32.7235665	-103.4912469	4,063.27	0.00	0.00	0.00
14,600.00	94.76	359.38	10,132.89	4,164.94	163.03	628,093.46	800,306.32	32.7238404	-103.4912478	4,162.93	0.00	0.00	0.00
14,700.00	94.76	359.38	10,124.59	4,264.59	161.96	628,193.11	800,305.25	32.7241143	-103.4912487	4,262.58	0.00	0.00	0.00
14,800.00	94.76	359.38	10,116.30	4,364.24	160.89	628,292.76	800,304.18	32.7243882	-103.4912497	4,362.24	0.00	0.00	0.00
14,900.00	94.76	359.38	10,108.01	4,463.89	159.82	628,392.41	800,303.11	32.7246621	-103.4912506	4,461.89	0.00	0.00	0.00
15,000.00	94.76	359.38	10,099.72	4,563.54	158.75	628,492.06	800,302.04	32.7249360	-103.4912515	4,561.55	0.00	0.00	0.00
15,100.00	94.76	359.38	10,091.42	4,663.19	157.68	628,591.71	800,300.97	32.7252099	-103.4912524	4,661.21	0.00	0.00	0.00
15,200.00	94.76	359.38	10,083.13	4,762.84	156.61	628,691.35	800,299.90	32.7254838	-103.4912533	4,760.86	0.00	0.00	0.00
15,300.00	94.76	359.38	10,074.84	4,862.48	155.54	628,791.00	800,298.83	32.7257577	-103.4912542	4,860.52	0.00	0.00	0.00
15,400.00	94.76	359.38	10,066.55	4,962.13	154.46	628,890.65	800,297.75	32.7260316	-103.4912551	4,960.17	0.00	0.00	0.00
15,500.00	94.76	359.38	10,058.26	5,061.78	153.39	628,990.30	800,296.68	32.7263055	-103.4912560	5,059.83	0.00	0.00	0.00
15,600.00	94.76	359.38	10,049.96	5,161.43	152.32	629,089.95	800,295.61	32.7265794	-103.4912569	5,159.48	0.00	0.00	0.00
15,700.00	94.76	359.38	10,041.67	5,261.08	151.25	629,189.60	800,294.54	32.7268533	-103.4912578	5,259.14	0.00	0.00	0.00
15,800.00	94.76	359.38	10,033.38	5,360.73	150.18	629,289.25	800,293.47	32.7271272	-103.4912587	5,358.80	0.00	0.00	0.00
15,900.00	94.76	359.38	10,025.09	5,460.38	149.11	629,388.90	800,292.40	32.7274011	-103.4912596	5,458.45	0.00	0.00	0.00
16,000.00	94.76	359.38	10,016.79	5,560.03	148.04	629,488.55	800,291.33	32.7276750	-103.4912605	5,558.11	0.00	0.00	0.00
16,100.00	94.76	359.38	10,008.50	5,659.68	146.97	629,588.20	800,290.26	32.7279489	-103.4912614	5,657.76	0.00	0.00	0.00
16,200.00	94.76	359.38	10,000.21	5,759.33	145.90	629,687.85	800,289.19	32.7282228	-103.4912624	5,757.42	0.00	0.00	0.00
16,300.00	94.76	359.38	9,991.92	5,858.98	144.83	629,787.50	800,288.12	32.7284967	-103.4912633	5,857.07	0.00	0.00	0.00
16,400.00	94.76	359.38	9,983.62	5,958.63	143.76	629,887.15	800,287.05	32.7287706	-103.4912642	5,956.73	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,500.00	94.76	359.38	9,975.33	6,058.28	142.69	629,986.80	800,285.98	32.7290445	-103.4912651	6,056.38	0.00	0.00	0.00
16,600.00	94.76	359.38	9,967.04	6,157.93	141.62	630,086.45	800,284.91	32.7293184	-103.4912660	6,156.04	0.00	0.00	0.00
16,700.00	94.76	359.38	9,958.75	6,257.58	140.55	630,186.10	800,283.84	32.7295923	-103.4912669	6,255.70	0.00	0.00	0.00
16,800.00	94.76	359.38	9,950.45	6,357.23	139.47	630,285.75	800,282.76	32.7298662	-103.4912678	6,355.35	0.00	0.00	0.00
16,900.00	94.76	359.38	9,942.16	6,456.88	138.40	630,385.40	800,281.69	32.7301401	-103.4912687	6,455.01	0.00	0.00	0.00
17,000.00	94.76	359.38	9,933.87	6,556.53	137.33	630,485.05	800,280.62	32.7304140	-103.4912696	6,554.66	0.00	0.00	0.00
17,100.00	94.76	359.38	9,925.58	6,656.18	136.26	630,584.70	800,279.55	32.7306879	-103.4912705	6,654.32	0.00	0.00	0.00
17,200.00	94.76	359.38	9,917.29	6,755.83	135.19	630,684.35	800,278.48	32.7309618	-103.4912714	6,753.97	0.00	0.00	0.00
17,300.00	94.76	359.38	9,908.99	6,855.48	134.12	630,784.00	800,277.41	32.7312357	-103.4912723	6,853.63	0.00	0.00	0.00
17,400.00	94.76	359.38	9,900.70	6,955.13	133.05	630,883.65	800,276.34	32.7315096	-103.4912732	6,953.28	0.00	0.00	0.00
17,500.00	94.76	359.38	9,892.41	7,054.78	131.98	630,983.30	800,275.27	32.7317835	-103.4912741	7,052.94	0.00	0.00	0.00
17,600.00	94.76	359.38	9,884.12	7,154.43	130.91	631,082.95	800,274.20	32.7320574	-103.4912750	7,152.60	0.00	0.00	0.00
17,700.00	94.76	359.38	9,875.82	7,254.08	129.84	631,182.60	800,273.13	32.7323313	-103.4912760	7,252.25	0.00	0.00	0.00
17,800.00	94.76	359.38	9,867.53	7,353.73	128.77	631,282.25	800,272.06	32.7326052	-103.4912769	7,351.91	0.00	0.00	0.00
17,900.00	94.76	359.38	9,859.24	7,453.38	127.70	631,381.90	800,270.99	32.7328791	-103.4912778	7,451.56	0.00	0.00	0.00
18,000.00	94.76	359.38	9,850.95	7,553.03	126.63	631,481.55	800,269.92	32.7331530	-103.4912787	7,551.22	0.00	0.00	0.00
18,100.00	94.76	359.38	9,842.65	7,652.68	125.55	631,581.20	800,268.84	32.7334269	-103.4912796	7,650.87	0.00	0.00	0.00
18,200.00	94.76	359.38	9,834.36	7,752.33	124.48	631,680.85	800,267.77	32.7337008	-103.4912805	7,750.53	0.00	0.00	0.00
18,300.00	94.76	359.38	9,826.07	7,851.98	123.41	631,780.50	800,266.70	32.7339747	-103.4912814	7,850.18	0.00	0.00	0.00
18,400.00	94.76	359.38	9,817.78	7,951.63	122.34	631,880.15	800,265.63	32.7342486	-103.4912823	7,949.84	0.00	0.00	0.00
18,500.00	94.76	359.38	9,809.48	8,051.28	121.27	631,979.80	800,264.56	32.7345225	-103.4912832	8,049.50	0.00	0.00	0.00
18,600.00	94.76	359.38	9,801.19	8,150.93	120.20	632,079.45	800,263.49	32.7347964	-103.4912841	8,149.15	0.00	0.00	0.00
18,700.00	94.76	359.38	9,792.90	8,250.58	119.13	632,179.10	800,262.42	32.7350703	-103.4912850	8,248.81	0.00	0.00	0.00
18,800.00	94.76	359.38	9,784.61	8,350.23	118.06	632,278.75	800,261.35	32.7353442	-103.4912859	8,348.46	0.00	0.00	0.00
18,900.00	94.76	359.38	9,776.31	8,449.88	116.99	632,378.40	800,260.28	32.7356181	-103.4912868	8,448.12	0.00	0.00	0.00
19,000.00	94.76	359.38	9,768.02	8,549.53	115.92	632,478.05	800,259.21	32.7358920	-103.4912877	8,547.77	0.00	0.00	0.00
19,100.00	94.76	359.38	9,759.73	8,649.18	114.85	632,577.70	800,258.14	32.7361659	-103.4912886	8,647.43	0.00	0.00	0.00
19,200.00	94.76	359.38	9,751.44	8,748.83	113.78	632,677.35	800,257.07	32.7364398	-103.4912895	8,747.09	0.00	0.00	0.00
19,300.00	94.76	359.38	9,743.15	8,848.48	112.71	632,777.00	800,256.00	32.7367137	-103.4912905	8,846.74	0.00	0.00	0.00
19,400.00	94.76	359.38	9,734.85	8,948.13	111.64	632,876.65	800,254.93	32.7369876	-103.4912914	8,946.40	0.00	0.00	0.00
19,500.00	94.76	359.38	9,726.56	9,047.78	110.56	632,976.30	800,253.85	32.7372615	-103.4912923	9,046.05	0.00	0.00	0.00
19,600.00	94.76	359.38	9,718.27	9,147.43	109.49	633,075.95	800,252.78	32.7375354	-103.4912932	9,145.71	0.00	0.00	0.00
19,700.00	94.76	359.38	9,709.98	9,247.08	108.42	633,175.60	800,251.71	32.7378093	-103.4912941	9,245.36	0.00	0.00	0.00
19,800.00	94.76	359.38	9,701.68	9,346.73	107.35	633,275.25	800,250.64	32.7380832	-103.4912950	9,345.02	0.00	0.00	0.00
19,900.00	94.76	359.38	9,693.39	9,446.38	106.28	633,374.90	800,249.57	32.7383571	-103.4912959	9,444.67	0.00	0.00	0.00
20,000.00	94.76	359.38	9,685.10	9,546.03	105.21	633,474.55	800,248.50	32.7386310	-103.4912968	9,544.33	0.00	0.00	0.00
20,100.00	94.76	359.38	9,676.81	9,645.68	104.14	633,574.20	800,247.43	32.7389049	-103.4912977	9,643.99	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,200.00	94.76	359.38	9,668.51	9,745.33	103.07	633,673.85	800,246.36	32.7391788	-103.4912986	9,743.64	0.00	0.00	0.00
20,300.00	94.76	359.38	9,660.22	9,844.98	102.00	633,773.50	800,245.29	32.7394527	-103.4912995	9,843.30	0.00	0.00	0.00
20,400.00	94.76	359.38	9,651.93	9,944.63	100.93	633,873.15	800,244.22	32.7397265	-103.4913004	9,942.95	0.00	0.00	0.00
20,500.00	94.76	359.38	9,643.64	10,044.28	99.86	633,972.80	800,243.15	32.7400004	-103.4913013	10,042.61	0.00	0.00	0.00
20,600.00	94.76	359.38	9,635.34	10,143.93	98.79	634,072.45	800,242.08	32.7402743	-103.4913022	10,142.26	0.00	0.00	0.00
20,700.00	94.76	359.38	9,627.05	10,243.58	97.72	634,172.10	800,241.01	32.7405482	-103.4913031	10,241.92	0.00	0.00	0.00
20,800.00	94.76	359.38	9,618.76	10,343.23	96.64	634,271.75	800,239.93	32.7408221	-103.4913040	10,341.57	0.00	0.00	0.00
20,900.00	94.76	359.38	9,610.47	10,442.88	95.57	634,371.40	800,238.86	32.7410960	-103.4913050	10,441.23	0.00	0.00	0.00
21,000.00	94.76	359.38	9,602.18	10,542.53	94.50	634,471.05	800,237.79	32.7413699	-103.4913059	10,540.89	0.00	0.00	0.00
21,100.00	94.76	359.38	9,593.88	10,642.18	93.43	634,570.70	800,236.72	32.7416438	-103.4913068	10,640.54	0.00	0.00	0.00
21,200.00	94.76	359.38	9,585.59	10,741.83	92.36	634,670.35	800,235.65	32.7419177	-103.4913077	10,740.20	0.00	0.00	0.00
21,300.00	94.76	359.38	9,577.30	10,841.48	91.29	634,770.00	800,234.58	32.7421916	-103.4913086	10,839.85	0.00	0.00	0.00
21,400.00	94.76	359.38	9,569.01	10,941.13	90.22	634,869.64	800,233.51	32.7424655	-103.4913095	10,939.51	0.00	0.00	0.00
21,500.00	94.76	359.38	9,560.71	11,040.77	89.15	634,969.29	800,232.44	32.7427394	-103.4913104	11,039.16	0.00	0.00	0.00
21,600.00	94.76	359.38	9,552.42	11,140.42	88.08	635,068.94	800,231.37	32.7430133	-103.4913113	11,138.82	0.00	0.00	0.00
21,700.00	94.76	359.38	9,544.13	11,240.07	87.01	635,168.59	800,230.30	32.7432872	-103.4913122	11,238.48	0.00	0.00	0.00
21,800.00	94.76	359.38	9,535.84	11,339.72	85.94	635,268.24	800,229.23	32.7435611	-103.4913131	11,338.13	0.00	0.00	0.00
21,900.00	94.76	359.38	9,527.54	11,439.37	84.87	635,367.89	800,228.16	32.7438350	-103.4913140	11,437.79	0.00	0.00	0.00
22,000.00	94.76	359.38	9,519.25	11,539.02	83.80	635,467.54	800,227.09	32.7441089	-103.4913149	11,537.44	0.00	0.00	0.00
22,100.00	94.76	359.38	9,510.96	11,638.67	82.73	635,567.19	800,226.02	32.7443828	-103.4913158	11,637.10	0.00	0.00	0.00
22,200.00	94.76	359.38	9,502.67	11,738.32	81.65	635,666.84	800,224.94	32.7446567	-103.4913167	11,736.75	0.00	0.00	0.00
22,300.00	94.76	359.38	9,494.37	11,837.97	80.58	635,766.49	800,223.87	32.7449306	-103.4913176	11,836.41	0.00	0.00	0.00
22,400.00	94.76	359.38	9,486.08	11,937.62	79.51	635,866.14	800,222.80	32.7452045	-103.4913185	11,936.06	0.00	0.00	0.00
22,500.00	94.76	359.38	9,477.79	12,037.27	78.44	635,965.79	800,221.73	32.7454784	-103.4913194	12,035.72	0.00	0.00	0.00
22,600.00	94.76	359.38	9,469.50	12,136.92	77.37	636,065.44	800,220.66	32.7457523	-103.4913204	12,135.38	0.00	0.00	0.00
22,700.00	94.76	359.38	9,461.20	12,236.57	76.30	636,165.09	800,219.59	32.7460262	-103.4913213	12,235.03	0.00	0.00	0.00
22,800.00	94.76	359.38	9,452.91	12,336.22	75.23	636,264.74	800,218.52	32.7463001	-103.4913222	12,334.69	0.00	0.00	0.00
22,900.00	94.76	359.38	9,444.62	12,435.87	74.16	636,364.39	800,217.45	32.7465740	-103.4913231	12,434.34	0.00	0.00	0.00
23,000.00	94.76	359.38	9,436.33	12,535.52	73.09	636,464.04	800,216.38	32.7468479	-103.4913240	12,534.00	0.00	0.00	0.00
23,100.00	94.76	359.38	9,428.04	12,635.17	72.02	636,563.69	800,215.31	32.7471218	-103.4913249	12,633.65	0.00	0.00	0.00
23,200.00	94.76	359.38	9,419.74	12,734.82	70.95	636,663.34	800,214.24	32.7473957	-103.4913258	12,733.31	0.00	0.00	0.00
23,300.00	94.76	359.38	9,411.45	12,834.47	69.88	636,762.99	800,213.17	32.7476696	-103.4913267	12,832.96	0.00	0.00	0.00
23,400.00	94.76	359.38	9,403.16	12,934.12	68.81	636,862.64	800,212.10	32.7479435	-103.4913276	12,932.62	0.00	0.00	0.00
23,500.00	94.76	359.38	9,394.87	13,033.77	67.73	636,962.29	800,211.02	32.7482174	-103.4913285	13,032.28	0.00	0.00	0.00
23,600.00	94.76	359.38	9,386.57	13,133.42	66.66	637,061.94	800,209.95	32.7484913	-103.4913294	13,131.93	0.00	0.00	0.00
23,700.00	94.76	359.38	9,378.28	13,233.07	65.59	637,161.59	800,208.88	32.7487652	-103.4913303	13,231.59	0.00	0.00	0.00
23,800.00	94.76	359.38	9,369.99	13,332.72	64.52	637,261.24	800,207.81	32.7490391	-103.4913312	13,331.24	0.00	0.00	0.00
23,900.00	94.76	359.38	9,361.70	13,432.37	63.45	637,360.89	800,206.74	32.7493130	-103.4913321	13,430.90	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
24,000.00	94.76	359.38	9,353.40	13,532.02	62.38	637,460.54	800,205.67	32.7495869	-103.4913330	13,530.55	0.00	0.00	0.00
24,100.00	94.76	359.38	9,345.11	13,631.67	61.31	637,560.19	800,204.60	32.7498608	-103.4913339	13,630.21	0.00	0.00	0.00
24,200.00	94.76	359.38	9,336.82	13,731.32	60.24	637,659.84	800,203.53	32.7501347	-103.4913348	13,729.86	0.00	0.00	0.00
24,300.00	94.76	359.38	9,328.53	13,830.97	59.17	637,759.49	800,202.46	32.7504086	-103.4913358	13,829.52	0.00	0.00	0.00
24,400.00	94.76	359.38	9,320.23	13,930.62	58.10	637,859.14	800,201.39	32.7506825	-103.4913367	13,929.18	0.00	0.00	0.00
24,500.00	94.76	359.38	9,311.94	14,030.27	57.03	637,958.79	800,200.32	32.7509564	-103.4913376	14,028.83	0.00	0.00	0.00
24,600.00	94.76	359.38	9,303.65	14,129.92	55.96	638,058.44	800,199.25	32.7512303	-103.4913385	14,128.49	0.00	0.00	0.00
24,700.00	94.76	359.38	9,295.36	14,229.57	54.89	638,158.09	800,198.18	32.7515042	-103.4913394	14,228.14	0.00	0.00	0.00
24,800.00	94.76	359.38	9,287.07	14,329.22	53.82	638,257.74	800,197.11	32.7517781	-103.4913403	14,327.80	0.00	0.00	0.00
24,900.00	94.76	359.38	9,278.77	14,428.87	52.74	638,357.39	800,196.03	32.7520520	-103.4913412	14,427.45	0.00	0.00	0.00
25,000.00	94.76	359.38	9,270.48	14,528.52	51.67	638,457.04	800,194.96	32.7523259	-103.4913421	14,527.11	0.00	0.00	0.00
25,100.00	94.76	359.38	9,262.19	14,628.17	50.60	638,556.69	800,193.89	32.7525998	-103.4913430	14,626.77	0.00	0.00	0.00
25,200.00	94.76	359.38	9,253.90	14,727.82	49.53	638,656.34	800,192.82	32.7528737	-103.4913439	14,726.42	0.00	0.00	0.00
25,300.00	94.76	359.38	9,245.60	14,827.47	48.46	638,755.99	800,191.75	32.7531476	-103.4913448	14,826.08	0.00	0.00	0.00
25,400.00	94.76	359.38	9,237.31	14,927.12	47.39	638,855.64	800,190.68	32.7534215	-103.4913457	14,925.73	0.00	0.00	0.00
25,500.00	94.76	359.38	9,229.02	15,026.77	46.32	638,955.29	800,189.61	32.7536954	-103.4913466	15,025.39	0.00	0.00	0.00
25,600.00	94.76	359.38	9,220.73	15,126.42	45.25	639,054.94	800,188.54	32.7539693	-103.4913475	15,125.04	0.00	0.00	0.00
25,700.00	94.76	359.38	9,212.43	15,226.07	44.18	639,154.59	800,187.47	32.7542432	-103.4913484	15,224.70	0.00	0.00	0.00
25,800.00	94.76	359.38	9,204.14	15,325.72	43.11	639,254.24	800,186.40	32.7545171	-103.4913493	15,324.35	0.00	0.00	0.00
25,900.00	94.76	359.38	9,195.85	15,425.37	42.04	639,353.89	800,185.33	32.7547910	-103.4913502	15,424.01	0.00	0.00	0.00
26,000.00	94.76	359.38	9,187.56	15,525.02	40.97	639,453.54	800,184.26	32.7550649	-103.4913511	15,523.67	0.00	0.00	0.00
26,100.00	94.76	359.38	9,179.26	15,624.67	39.90	639,553.19	800,183.19	32.7553388	-103.4913521	15,623.32	0.00	0.00	0.00
26,200.00	94.76	359.38	9,170.97	15,724.32	38.82	639,652.84	800,182.11	32.7556127	-103.4913530	15,722.98	0.00	0.00	0.00
26,300.00	94.76	359.38	9,162.68	15,823.97	37.75	639,752.49	800,181.04	32.7558866	-103.4913539	15,822.63	0.00	0.00	0.00
26,400.00	94.76	359.38	9,154.39	15,923.62	36.68	639,852.14	800,179.97	32.7561605	-103.4913548	15,922.29	0.00	0.00	0.00
26,500.00	94.76	359.38	9,146.09	16,023.27	35.61	639,951.79	800,178.90	32.7564344	-103.4913557	16,021.94	0.00	0.00	0.00
26,600.00	94.76	359.38	9,137.80	16,122.92	34.54	640,051.44	800,177.83	32.7567083	-103.4913566	16,121.60	0.00	0.00	0.00
26,700.00	94.76	359.38	9,129.51	16,222.57	33.47	640,151.09	800,176.76	32.7569822	-103.4913575	16,221.25	0.00	0.00	0.00
26,800.00	94.76	359.38	9,121.22	16,322.22	32.40	640,250.74	800,175.69	32.7572561	-103.4913584	16,320.91	0.00	0.00	0.00
26,900.00	94.76	359.38	9,112.93	16,421.87	31.33	640,350.39	800,174.62	32.7575300	-103.4913593	16,420.57	0.00	0.00	0.00
27,000.00	94.76	359.38	9,104.63	16,521.52	30.26	640,450.04	800,173.55	32.7578039	-103.4913602	16,520.22	0.00	0.00	0.00
27,100.00	94.76	359.38	9,096.34	16,621.17	29.19	640,549.69	800,172.48	32.7580778	-103.4913611	16,619.88	0.00	0.00	0.00
27,200.00	94.76	359.38	9,088.05	16,720.82	28.12	640,649.34	800,171.41	32.7583517	-103.4913620	16,719.53	0.00	0.00	0.00
27,300.00	94.76	359.38	9,079.76	16,820.47	27.05	640,748.99	800,170.34	32.7586256	-103.4913629	16,819.19	0.00	0.00	0.00
27,400.00	94.76	359.38	9,071.46	16,920.12	25.98	640,848.64	800,169.27	32.7588995	-103.4913638	16,918.84	0.00	0.00	0.00
27,500.00	94.76	359.38	9,063.17	17,019.77	24.90	640,948.28	800,168.19	32.7591734	-103.4913647	17,018.50	0.00	0.00	0.00
27,600.00	94.76	359.38	9,054.88	17,119.42	23.83	641,047.93	800,167.12	32.7594473	-103.4913656	17,118.15	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
27,700.00	94.76	359.38	9,046.59	17,219.06	22.76	641,147.58	800,166.05	32.7597212	-103.4913665	17,217.81	0.00	0.00	0.00
27,800.00	94.76	359.38	9,038.29	17,318.71	21.69	641,247.23	800,164.98	32.7599951	-103.4913674	17,317.47	0.00	0.00	0.00
27,900.00	94.76	359.38	9,030.00	17,418.36	20.62	641,346.88	800,163.91	32.7602690	-103.4913683	17,417.12	0.00	0.00	0.00
28,000.00	94.76	359.38	9,021.71	17,518.01	19.55	641,446.53	800,162.84	32.7605429	-103.4913693	17,516.78	0.00	0.00	0.00
28,100.00	94.76	359.38	9,013.42	17,617.66	18.48	641,546.18	800,161.77	32.7608168	-103.4913702	17,616.43	0.00	0.00	0.00
28,200.00	94.76	359.38	9,005.12	17,717.31	17.41	641,645.83	800,160.70	32.7610907	-103.4913711	17,716.09	0.00	0.00	0.00
28,300.00	94.76	359.38	8,996.83	17,816.96	16.34	641,745.48	800,159.63	32.7613646	-103.4913720	17,815.74	0.00	0.00	0.00
28,400.00	94.76	359.38	8,988.54	17,916.61	15.27	641,845.13	800,158.56	32.7616385	-103.4913729	17,915.40	0.00	0.00	0.00
28,500.00	94.76	359.38	8,980.25	18,016.26	14.20	641,944.78	800,157.49	32.7619124	-103.4913738	18,015.06	0.00	0.00	0.00
28,563.28	94.76	359.38	8,975.00	18,079.32	13.52	642,007.84	800,156.81	32.7620857	-103.4913744	18,078.12	0.00	0.00	0.00
TD - 28563.28' MD - LTP/PBHL - 2545' FSL, 925' FEL (BSC 604H)													

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/LP/FTP (BSC 60	0.00	0.00	0.00	-237.27	210.38	623,691.25	800,353.67	32.7117403	-103.4912076
- plan misses target center by 317.11usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LTP/PBHL - 2545' FSI	0.00	0.00	8,975.00	18,079.32	13.52	642,007.84	800,156.81	32.7620857	-103.4913744
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,893.48	1,893.00	Rustler			
1,979.81	1,979.00	A3 Top			
2,078.19	2,077.00	A3 Base (Tamarisk)			
2,160.50	2,159.00	Top Salt/Salado			
5,745.53	5,732.00	Base Salt/Lamar/CTRA_BASE_ANH			
5,860.53	5,847.00	Top Delaware Sands/Bell Canyon			
6,128.53	6,115.00	Cherry Canyon			
6,586.53	6,573.00	Brushy Canyon			
7,426.53	7,413.00	Basal Brushy Canyon			
7,588.53	7,575.00	Bone Spring Lime			
7,808.53	7,795.00	Leonard/Avalon Sand			
9,110.53	9,097.00	1st Bone Spring Sand			
9,646.53	9,633.00	2nd Bone Spring Sand			
10,194.90	10,162.00	3rd Bone Spring Carb			
10,377.50	10,295.00	3rd Bone Spring Sand			
10,768.78	10,427.00	3rd Bone Spring Sand Target			

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Well:	Rope State Com 604H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #2	**Database:**	.Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1600	1600	0	0	Nudge, Build 2.00°/100'
1850	1850	-8	7	Hold - 1849.98' MD/1849.66' TVD
5239	5225	-229	203	Drop, 2.00°/100' DLS
5489	5475	-237	210	Hold - 5488.53' MD/5475.00' TVD
9856	9843	-237	210	KOP - Start 10.00°/100' DLS
10,606	10,396	187	206	75° Inc - 10606.29' MD/10396.20' TVD
11,001	10,431	579	202	LP - 11001.42' MD
28,563	8975	18,079	14	TD - 28563.28' MD

Checked By: _____ Approved By: _____ Date: _____

COMPANY	Coterra Energy
FIELD	Lea County, NM (NAD 83)
SITE	Rope State Com Pad
WELL	Rope State Com 604H
WELLPATH	OH
DESIGN	Plan #2
DEPTHUNT	(usft)

WELL INFO	
MAP DATUM	North American Datum 1983
MAP SYSTEM	US State Plane 1983
MAP ZONE	New Mexico Eastern Zone
WELL LAT	32.712397
WELL LON	-103.491885
WELL EW MAI	800143.29
WELL NS MAP	623928.52
CONVERGENC	0.45
MAGMODEL	HDGM2026
DECLINATION	5.98
NORTH REF	Grid
GROUND ELE\	3939.1
KB ELEVN	3962.1
VS AZI	359.38

SURVEY PROGRAM

1 0.00 - 28563.18 PLAN #2 : MWD+IFR1+MS

SURVEY LIST

Measured De	Inclination	Azimuth	Course Length	True Vertical I	SubSea TVD	Local N/-S
MD	INC	AZI	CL	TVD	SSTVD	NS
0.00	0.00	0.00	0.00	0.00	3962.10	0.00
100.00	0.00	0.00	100.00	100.00	3862.10	0.00
200.00	0.00	0.00	100.00	200.00	3762.10	0.00
300.00	0.00	0.00	100.00	300.00	3662.10	0.00
400.00	0.00	0.00	100.00	400.00	3562.10	0.00
500.00	0.00	0.00	100.00	500.00	3462.10	0.00
600.00	0.00	0.00	100.00	600.00	3362.10	0.00
700.00	0.00	0.00	100.00	700.00	3262.10	0.00
800.00	0.00	0.00	100.00	800.00	3162.10	0.00
900.00	0.00	0.00	100.00	900.00	3062.10	0.00
1000.00	0.00	0.00	100.00	1000.00	2962.10	0.00
1100.00	0.00	0.00	100.00	1100.00	2862.10	0.00
1200.00	0.00	0.00	100.00	1200.00	2762.10	0.00
1300.00	0.00	0.00	100.00	1300.00	2662.10	0.00

1400.00	0.00	0.00	100.00	1400.00	2562.10	0.00
1500.00	0.00	0.00	100.00	1500.00	2462.10	0.00
1600.00	0.00	0.00	100.00	1600.00	2362.10	0.00
1700.00	2.00	138.44	100.00	1699.98	2262.12	-1.31
1800.00	4.00	138.44	100.00	1799.84	2162.26	-5.22
1849.98	5.00	138.44	49.98	1849.66	2112.44	-8.16
1900.00	5.00	138.44	50.02	1899.49	2062.61	-11.42
2000.00	5.00	138.44	100.00	1999.11	1962.99	-17.94
2100.00	5.00	138.44	100.00	2098.73	1863.37	-24.46
2200.00	5.00	138.44	100.00	2198.35	1763.75	-30.98
2300.00	5.00	138.44	100.00	2297.97	1664.13	-37.50
2400.00	5.00	138.44	100.00	2397.59	1564.51	-44.02
2500.00	5.00	138.44	100.00	2497.21	1464.89	-50.54
2600.00	5.00	138.44	100.00	2596.83	1365.27	-57.06
2700.00	5.00	138.44	100.00	2696.45	1265.65	-63.58
2800.00	5.00	138.44	100.00	2796.07	1166.03	-70.10
2900.00	5.00	138.44	100.00	2895.69	1066.41	-76.62
3000.00	5.00	138.44	100.00	2995.31	966.79	-83.15
3100.00	5.00	138.44	100.00	3094.93	867.17	-89.67
3200.00	5.00	138.44	100.00	3194.55	767.55	-96.19
3300.00	5.00	138.44	100.00	3294.17	667.93	-102.71
3400.00	5.00	138.44	100.00	3393.79	568.31	-109.23
3500.00	5.00	138.44	100.00	3493.41	468.70	-115.75
3600.00	5.00	138.44	100.00	3593.03	369.08	-122.27
3700.00	5.00	138.44	100.00	3692.64	269.46	-128.79
3800.00	5.00	138.44	100.00	3792.26	169.84	-135.31
3900.00	5.00	138.44	100.00	3891.88	70.22	-141.83
4000.00	5.00	138.44	100.00	3991.50	-29.40	-148.35
4100.00	5.00	138.44	100.00	4091.12	-129.02	-154.87
4200.00	5.00	138.44	100.00	4190.74	-228.64	-161.39
4300.00	5.00	138.44	100.00	4290.36	-328.26	-167.92
4400.00	5.00	138.44	100.00	4389.98	-427.88	-174.44
4500.00	5.00	138.44	100.00	4489.60	-527.50	-180.96
4600.00	5.00	138.44	100.00	4589.22	-627.12	-187.48
4700.00	5.00	138.44	100.00	4688.84	-726.74	-194.00
4800.00	5.00	138.44	100.00	4788.46	-826.36	-200.52
4900.00	5.00	138.44	100.00	4888.08	-925.98	-207.04
5000.00	5.00	138.44	100.00	4987.70	-1025.60	-213.56
5100.00	5.00	138.44	100.00	5087.32	-1125.22	-220.08
5200.00	5.00	138.44	100.00	5186.94	-1224.84	-226.60
5238.55	5.00	138.44	38.55	5225.34	-1263.24	-229.12
5300.00	3.77	138.44	61.45	5286.61	-1324.51	-232.63
5400.00	1.77	138.44	100.00	5386.49	-1424.39	-236.25
5488.53	0.00	0.00	88.53	5475.00	-1512.90	-237.27

5500.00	0.00	0.00	11.47	5486.47	-1524.37	-237.27
5600.00	0.00	0.00	100.00	5586.47	-1624.37	-237.27
5700.00	0.00	0.00	100.00	5686.47	-1724.37	-237.27
5800.00	0.00	0.00	100.00	5786.47	-1824.37	-237.27
5900.00	0.00	0.00	100.00	5886.47	-1924.37	-237.27
6000.00	0.00	0.00	100.00	5986.47	-2024.37	-237.27
6100.00	0.00	0.00	100.00	6086.47	-2124.37	-237.27
6200.00	0.00	0.00	100.00	6186.47	-2224.37	-237.27
6300.00	0.00	0.00	100.00	6286.47	-2324.37	-237.27
6400.00	0.00	0.00	100.00	6386.47	-2424.37	-237.27
6500.00	0.00	0.00	100.00	6486.47	-2524.37	-237.27
6600.00	0.00	0.00	100.00	6586.47	-2624.37	-237.27
6700.00	0.00	0.00	100.00	6686.47	-2724.37	-237.27
6800.00	0.00	0.00	100.00	6786.47	-2824.37	-237.27
6900.00	0.00	0.00	100.00	6886.47	-2924.37	-237.27
7000.00	0.00	0.00	100.00	6986.47	-3024.37	-237.27
7100.00	0.00	0.00	100.00	7086.47	-3124.37	-237.27
7200.00	0.00	0.00	100.00	7186.47	-3224.37	-237.27
7300.00	0.00	0.00	100.00	7286.47	-3324.37	-237.27
7400.00	0.00	0.00	100.00	7386.47	-3424.37	-237.27
7500.00	0.00	0.00	100.00	7486.47	-3524.37	-237.27
7600.00	0.00	0.00	100.00	7586.47	-3624.37	-237.27
7700.00	0.00	0.00	100.00	7686.47	-3724.37	-237.27
7800.00	0.00	0.00	100.00	7786.47	-3824.37	-237.27
7900.00	0.00	0.00	100.00	7886.47	-3924.37	-237.27
8000.00	0.00	0.00	100.00	7986.47	-4024.37	-237.27
8100.00	0.00	0.00	100.00	8086.47	-4124.37	-237.27
8200.00	0.00	0.00	100.00	8186.47	-4224.37	-237.27
8300.00	0.00	0.00	100.00	8286.47	-4324.37	-237.27
8400.00	0.00	0.00	100.00	8386.47	-4424.37	-237.27
8500.00	0.00	0.00	100.00	8486.47	-4524.37	-237.27
8600.00	0.00	0.00	100.00	8586.47	-4624.37	-237.27
8700.00	0.00	0.00	100.00	8686.47	-4724.37	-237.27
8800.00	0.00	0.00	100.00	8786.47	-4824.37	-237.27
8900.00	0.00	0.00	100.00	8886.47	-4924.37	-237.27
9000.00	0.00	0.00	100.00	8986.47	-5024.37	-237.27
9100.00	0.00	0.00	100.00	9086.47	-5124.37	-237.27
9200.00	0.00	0.00	100.00	9186.47	-5224.37	-237.27
9300.00	0.00	0.00	100.00	9286.47	-5324.37	-237.27
9400.00	0.00	0.00	100.00	9386.47	-5424.37	-237.27
9500.00	0.00	0.00	100.00	9486.47	-5524.37	-237.27
9600.00	0.00	0.00	100.00	9586.47	-5624.37	-237.27
9700.00	0.00	0.00	100.00	9686.47	-5724.37	-237.27
9800.00	0.00	0.00	100.00	9786.47	-5824.37	-237.27

9856.29	0.00	0.00	56.29	9842.76	-5880.66	-237.27
9900.00	4.37	359.38	43.71	9886.43	-5924.33	-235.60
9950.00	9.37	359.38	50.00	9936.06	-5973.96	-229.62
10000.00	14.37	359.38	50.00	9984.97	-6022.87	-219.34
10050.00	19.37	359.38	50.00	10032.80	-6070.70	-204.84
10100.00	24.37	359.38	50.00	10079.19	-6117.09	-186.22
10150.00	29.37	359.38	50.00	10123.78	-6161.68	-163.63
10200.00	34.37	359.38	50.00	10166.23	-6204.13	-137.24
10250.00	39.37	359.38	50.00	10206.21	-6244.11	-107.25
10300.00	44.37	359.38	50.00	10243.43	-6281.33	-73.89
10350.00	49.37	359.38	50.00	10277.60	-6315.50	-37.41
10400.00	54.37	359.38	50.00	10308.47	-6346.37	1.91
10450.00	59.37	359.38	50.00	10335.78	-6373.68	43.77
10500.00	64.37	359.38	50.00	10359.35	-6397.25	87.84
10550.00	69.37	359.38	50.00	10378.98	-6416.88	133.81
10600.00	74.37	359.38	50.00	10394.53	-6432.43	181.31
10606.29	75.00	359.38	6.29	10396.20	-6434.10	187.37
10700.00	79.69	359.38	93.71	10416.72	-6454.62	278.78
10800.00	84.69	359.38	100.00	10430.32	-6468.22	377.81
10900.00	89.69	359.38	100.00	10435.22	-6473.12	477.65
11001.42	94.76	359.38	101.42	10431.29	-6469.19	578.96
11100.00	94.76	359.38	98.58	10423.12	-6461.02	677.19
11200.00	94.76	359.38	100.00	10414.83	-6452.73	776.84
11300.00	94.76	359.38	100.00	10406.54	-6444.44	876.49
11400.00	94.76	359.38	100.00	10398.24	-6436.14	976.14
11500.00	94.76	359.38	100.00	10389.95	-6427.85	1075.79
11600.00	94.76	359.38	100.00	10381.66	-6419.56	1175.44
11700.00	94.76	359.38	100.00	10373.37	-6411.27	1275.09
11800.00	94.76	359.38	100.00	10365.07	-6402.97	1374.74
11900.00	94.76	359.38	100.00	10356.78	-6394.68	1474.39
12000.00	94.76	359.38	100.00	10348.49	-6386.39	1574.04
12100.00	94.76	359.38	100.00	10340.20	-6378.10	1673.69
12200.00	94.76	359.38	100.00	10331.90	-6369.80	1773.34
12300.00	94.76	359.38	100.00	10323.61	-6361.51	1872.99
12400.00	94.76	359.38	100.00	10315.32	-6353.22	1972.64
12500.00	94.76	359.38	100.00	10307.03	-6344.93	2072.29
12600.00	94.76	359.38	100.00	10298.73	-6336.63	2171.94
12700.00	94.76	359.38	100.00	10290.44	-6328.34	2271.59
12800.00	94.76	359.38	100.00	10282.15	-6320.05	2371.24
12900.00	94.76	359.38	100.00	10273.86	-6311.76	2470.89
13000.00	94.76	359.38	100.00	10265.57	-6303.47	2570.54
13100.00	94.76	359.38	100.00	10257.27	-6295.17	2670.19
13200.00	94.76	359.38	100.00	10248.98	-6286.88	2769.84
13300.00	94.76	359.38	100.00	10240.69	-6278.59	2869.49

13400.00	94.76	359.38	100.00	10232.40	-6270.30	2969.14
13500.00	94.76	359.38	100.00	10224.10	-6262.00	3068.79
13600.00	94.76	359.38	100.00	10215.81	-6253.71	3168.44
13700.00	94.76	359.38	100.00	10207.52	-6245.42	3268.09
13800.00	94.76	359.38	100.00	10199.23	-6237.13	3367.74
13900.00	94.76	359.38	100.00	10190.93	-6228.83	3467.39
14000.00	94.76	359.38	100.00	10182.64	-6220.54	3567.04
14100.00	94.76	359.38	100.00	10174.35	-6212.25	3666.69
14200.00	94.76	359.38	100.00	10166.06	-6203.96	3766.34
14300.00	94.76	359.38	100.00	10157.76	-6195.66	3865.99
14400.00	94.76	359.38	100.00	10149.47	-6187.37	3965.64
14500.00	94.76	359.38	100.00	10141.18	-6179.08	4065.29
14600.00	94.76	359.38	100.00	10132.89	-6170.79	4164.94
14700.00	94.76	359.38	100.00	10124.59	-6162.49	4264.59
14800.00	94.76	359.38	100.00	10116.30	-6154.20	4364.24
14900.00	94.76	359.38	100.00	10108.01	-6145.91	4463.89
15000.00	94.76	359.38	100.00	10099.72	-6137.62	4563.54
15100.00	94.76	359.38	100.00	10091.43	-6129.33	4663.19
15200.00	94.76	359.38	100.00	10083.13	-6121.03	4762.84
15300.00	94.76	359.38	100.00	10074.84	-6112.74	4862.49
15400.00	94.76	359.38	100.00	10066.55	-6104.45	4962.14
15500.00	94.76	359.38	100.00	10058.26	-6096.16	5061.78
15600.00	94.76	359.38	100.00	10049.96	-6087.86	5161.43
15700.00	94.76	359.38	100.00	10041.67	-6079.57	5261.08
15800.00	94.76	359.38	100.00	10033.38	-6071.28	5360.73
15900.00	94.76	359.38	100.00	10025.09	-6062.99	5460.38
16000.00	94.76	359.38	100.00	10016.79	-6054.69	5560.03
16100.00	94.76	359.38	100.00	10008.50	-6046.40	5659.68
16200.00	94.76	359.38	100.00	10000.21	-6038.11	5759.33
16300.00	94.76	359.38	100.00	9991.92	-6029.82	5858.98
16400.00	94.76	359.38	100.00	9983.62	-6021.52	5958.63
16500.00	94.76	359.38	100.00	9975.33	-6013.23	6058.28
16600.00	94.76	359.38	100.00	9967.04	-6004.94	6157.93
16700.00	94.76	359.38	100.00	9958.75	-5996.65	6257.58
16800.00	94.76	359.38	100.00	9950.45	-5988.35	6357.23
16900.00	94.76	359.38	100.00	9942.16	-5980.06	6456.88
17000.00	94.76	359.38	100.00	9933.87	-5971.77	6556.53
17100.00	94.76	359.38	100.00	9925.58	-5963.48	6656.18
17200.00	94.76	359.38	100.00	9917.29	-5955.19	6755.83
17300.00	94.76	359.38	100.00	9908.99	-5946.89	6855.48
17400.00	94.76	359.38	100.00	9900.70	-5938.60	6955.13
17500.00	94.76	359.38	100.00	9892.41	-5930.31	7054.78
17600.00	94.76	359.38	100.00	9884.12	-5922.02	7154.43
17700.00	94.76	359.38	100.00	9875.82	-5913.72	7254.08

17800.00	94.76	359.38	100.00	9867.53	-5905.43	7353.73
17900.00	94.76	359.38	100.00	9859.24	-5897.14	7453.38
18000.00	94.76	359.38	100.00	9850.95	-5888.85	7553.03
18100.00	94.76	359.38	100.00	9842.65	-5880.55	7652.68
18200.00	94.76	359.38	100.00	9834.36	-5872.26	7752.33
18300.00	94.76	359.38	100.00	9826.07	-5863.97	7851.98
18400.00	94.76	359.38	100.00	9817.78	-5855.68	7951.63
18500.00	94.76	359.38	100.00	9809.48	-5847.38	8051.28
18600.00	94.76	359.38	100.00	9801.19	-5839.09	8150.93
18700.00	94.76	359.38	100.00	9792.90	-5830.80	8250.58
18800.00	94.76	359.38	100.00	9784.61	-5822.51	8350.23
18900.00	94.76	359.38	100.00	9776.32	-5814.22	8449.88
19000.00	94.76	359.38	100.00	9768.02	-5805.92	8549.53
19100.00	94.76	359.38	100.00	9759.73	-5797.63	8649.18
19200.00	94.76	359.38	100.00	9751.44	-5789.34	8748.83
19300.00	94.76	359.38	100.00	9743.15	-5781.05	8848.48
19400.00	94.76	359.38	100.00	9734.85	-5772.75	8948.13
19500.00	94.76	359.38	100.00	9726.56	-5764.46	9047.78
19600.00	94.76	359.38	100.00	9718.27	-5756.17	9147.43
19700.00	94.76	359.38	100.00	9709.98	-5747.88	9247.08
19800.00	94.76	359.38	100.00	9701.68	-5739.58	9346.73
19900.00	94.76	359.38	100.00	9693.39	-5731.29	9446.38
20000.00	94.76	359.38	100.00	9685.10	-5723.00	9546.03
20100.00	94.76	359.38	100.00	9676.81	-5714.71	9645.68
20200.00	94.76	359.38	100.00	9668.51	-5706.41	9745.33
20300.00	94.76	359.38	100.00	9660.22	-5698.12	9844.98
20400.00	94.76	359.38	100.00	9651.93	-5689.83	9944.63
20500.00	94.76	359.38	100.00	9643.64	-5681.54	10044.28
20600.00	94.76	359.38	100.00	9635.34	-5673.24	10143.93
20700.00	94.76	359.38	100.00	9627.05	-5664.95	10243.58
20800.00	94.76	359.38	100.00	9618.76	-5656.66	10343.23
20900.00	94.76	359.38	100.00	9610.47	-5648.37	10442.88
21000.00	94.76	359.38	100.00	9602.18	-5640.08	10542.53
21100.00	94.76	359.38	100.00	9593.88	-5631.78	10642.18
21200.00	94.76	359.38	100.00	9585.59	-5623.49	10741.83
21300.00	94.76	359.38	100.00	9577.30	-5615.20	10841.48
21400.00	94.76	359.38	100.00	9569.01	-5606.91	10941.13
21500.00	94.76	359.38	100.00	9560.71	-5598.61	11040.78
21600.00	94.76	359.38	100.00	9552.42	-5590.32	11140.43
21700.00	94.76	359.38	100.00	9544.13	-5582.03	11240.07
21800.00	94.76	359.38	100.00	9535.84	-5573.74	11339.72
21900.00	94.76	359.38	100.00	9527.54	-5565.44	11439.37
22000.00	94.76	359.38	100.00	9519.25	-5557.15	11539.02
22100.00	94.76	359.38	100.00	9510.96	-5548.86	11638.67

22200.00	94.76	359.38	100.00	9502.67	-5540.57	11738.32
22300.00	94.76	359.38	100.00	9494.37	-5532.27	11837.97
22400.00	94.76	359.38	100.00	9486.08	-5523.98	11937.62
22500.00	94.76	359.38	100.00	9477.79	-5515.69	12037.27
22600.00	94.76	359.38	100.00	9469.50	-5507.40	12136.92
22700.00	94.76	359.38	100.00	9461.21	-5499.11	12236.57
22800.00	94.76	359.38	100.00	9452.91	-5490.81	12336.22
22900.00	94.76	359.38	100.00	9444.62	-5482.52	12435.87
23000.00	94.76	359.38	100.00	9436.33	-5474.23	12535.52
23100.00	94.76	359.38	100.00	9428.04	-5465.94	12635.17
23200.00	94.76	359.38	100.00	9419.74	-5457.64	12734.82
23300.00	94.76	359.38	100.00	9411.45	-5449.35	12834.47
23400.00	94.76	359.38	100.00	9403.16	-5441.06	12934.12
23500.00	94.76	359.38	100.00	9394.87	-5432.77	13033.77
23600.00	94.76	359.38	100.00	9386.57	-5424.47	13133.42
23700.00	94.76	359.38	100.00	9378.28	-5416.18	13233.07
23800.00	94.76	359.38	100.00	9369.99	-5407.89	13332.72
23900.00	94.76	359.38	100.00	9361.70	-5399.60	13432.37
24000.00	94.76	359.38	100.00	9353.40	-5391.30	13532.02
24100.00	94.76	359.38	100.00	9345.11	-5383.01	13631.67
24200.00	94.76	359.38	100.00	9336.82	-5374.72	13731.32
24300.00	94.76	359.38	100.00	9328.53	-5366.43	13830.97
24400.00	94.76	359.38	100.00	9320.23	-5358.13	13930.62
24500.00	94.76	359.38	100.00	9311.94	-5349.84	14030.27
24600.00	94.76	359.38	100.00	9303.65	-5341.55	14129.92
24700.00	94.76	359.38	100.00	9295.36	-5333.26	14229.57
24800.00	94.76	359.38	100.00	9287.07	-5324.97	14329.22
24900.00	94.76	359.38	100.00	9278.77	-5316.67	14428.87
25000.00	94.76	359.38	100.00	9270.48	-5308.38	14528.52
25100.00	94.76	359.38	100.00	9262.19	-5300.09	14628.17
25200.00	94.76	359.38	100.00	9253.90	-5291.80	14727.82
25300.00	94.76	359.38	100.00	9245.60	-5283.50	14827.47
25400.00	94.76	359.38	100.00	9237.31	-5275.21	14927.12
25500.00	94.76	359.38	100.00	9229.02	-5266.92	15026.77
25600.00	94.76	359.38	100.00	9220.73	-5258.63	15126.42
25700.00	94.76	359.38	100.00	9212.43	-5250.33	15226.07
25800.00	94.76	359.38	100.00	9204.14	-5242.04	15325.72
25900.00	94.76	359.38	100.00	9195.85	-5233.75	15425.37
26000.00	94.76	359.38	100.00	9187.56	-5225.46	15525.02
26100.00	94.76	359.38	100.00	9179.26	-5217.16	15624.67
26200.00	94.76	359.38	100.00	9170.97	-5208.87	15724.32
26300.00	94.76	359.38	100.00	9162.68	-5200.58	15823.97
26400.00	94.76	359.38	100.00	9154.39	-5192.29	15923.62
26500.00	94.76	359.38	100.00	9146.10	-5184.00	16023.27

26600.00	94.76	359.38	100.00	9137.80	-5175.70	16122.92
26700.00	94.76	359.38	100.00	9129.51	-5167.41	16222.57
26800.00	94.76	359.38	100.00	9121.22	-5159.12	16322.22
26900.00	94.76	359.38	100.00	9112.93	-5150.83	16421.87
27000.00	94.76	359.38	100.00	9104.63	-5142.53	16521.52
27100.00	94.76	359.38	100.00	9096.34	-5134.24	16621.17
27200.00	94.76	359.38	100.00	9088.05	-5125.95	16720.82
27300.00	94.76	359.38	100.00	9079.76	-5117.66	16820.47
27400.00	94.76	359.38	100.00	9071.46	-5109.36	16920.12
27500.00	94.76	359.38	100.00	9063.17	-5101.07	17019.77
27600.00	94.76	359.38	100.00	9054.88	-5092.78	17119.42
27700.00	94.76	359.38	100.00	9046.59	-5084.49	17219.07
27800.00	94.76	359.38	100.00	9038.29	-5076.19	17318.71
27900.00	94.76	359.38	100.00	9030.00	-5067.90	17418.36
28000.00	94.76	359.38	100.00	9021.71	-5059.61	17518.01
28100.00	94.76	359.38	100.00	9013.42	-5051.32	17617.66
28200.00	94.76	359.38	100.00	9005.12	-5043.02	17717.31
28300.00	94.76	359.38	100.00	8996.83	-5034.73	17816.96
28400.00	94.76	359.38	100.00	8988.54	-5026.44	17916.61
28500.00	94.76	359.38	100.00	8980.25	-5018.15	18016.26
28563.28	94.76	359.38	63.28	8975.00	-5012.90	18079.32

Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg Severi DLS	Build Rate BLD
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00

0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
0.00	800143.29	623928.52	32.712397	-103.491885	0.00	0.00
1.16	800144.45	623927.21	32.712393	-103.491882	2.00	2.00
4.63	800147.92	623923.30	32.712383	-103.491871	2.00	2.00
7.23	800150.52	623920.37	32.712374	-103.491862	2.00	2.00
10.12	800153.41	623917.10	32.712365	-103.491853	0.00	0.00
15.91	800159.20	623910.58	32.712347	-103.491834	0.00	0.00
21.69	800164.98	623904.06	32.712329	-103.491816	0.00	0.00
27.47	800170.76	623897.54	32.712311	-103.491797	0.00	0.00
33.25	800176.54	623891.02	32.712293	-103.491778	0.00	0.00
39.03	800182.32	623884.50	32.712275	-103.491760	0.00	0.00
44.81	800188.10	623877.98	32.712257	-103.491741	0.00	0.00
50.60	800193.89	623871.46	32.712239	-103.491722	0.00	0.00
56.38	800199.67	623864.94	32.712221	-103.491704	0.00	0.00
62.16	800205.45	623858.42	32.712203	-103.491685	0.00	0.00
67.94	800211.23	623851.90	32.712185	-103.491667	0.00	0.00
73.72	800217.01	623845.38	32.712167	-103.491648	0.00	0.00
79.50	800222.79	623838.85	32.712149	-103.491629	0.00	0.00
85.29	800228.58	623832.33	32.712131	-103.491611	0.00	0.00
91.07	800234.36	623825.81	32.712113	-103.491592	0.00	0.00
96.85	800240.14	623819.29	32.712095	-103.491573	0.00	0.00
102.63	800245.92	623812.77	32.712077	-103.491555	0.00	0.00
108.41	800251.70	623806.25	32.712059	-103.491536	0.00	0.00
114.19	800257.48	623799.73	32.712041	-103.491518	0.00	0.00
119.98	800263.27	623793.21	32.712023	-103.491499	0.00	0.00
125.76	800269.05	623786.69	32.712004	-103.491480	0.00	0.00
131.54	800274.83	623780.17	32.711986	-103.491462	0.00	0.00
137.32	800280.61	623773.65	32.711968	-103.491443	0.00	0.00
143.10	800286.39	623767.13	32.711950	-103.491424	0.00	0.00
148.89	800292.18	623760.61	32.711932	-103.491406	0.00	0.00
154.67	800297.96	623754.09	32.711914	-103.491387	0.00	0.00
160.45	800303.74	623747.56	32.711896	-103.491368	0.00	0.00
166.23	800309.52	623741.04	32.711878	-103.491350	0.00	0.00
172.01	800315.30	623734.52	32.711860	-103.491331	0.00	0.00
177.79	800321.08	623728.00	32.711842	-103.491313	0.00	0.00
183.58	800326.87	623721.48	32.711824	-103.491294	0.00	0.00
189.36	800332.65	623714.96	32.711806	-103.491275	0.00	0.00
195.14	800338.43	623708.44	32.711788	-103.491257	0.00	0.00
200.92	800344.21	623701.92	32.711770	-103.491238	0.00	0.00
203.15	800346.44	623699.41	32.711763	-103.491231	0.00	0.00
206.27	800349.56	623695.89	32.711753	-103.491221	2.00	-2.00
209.47	800352.76	623692.27	32.711743	-103.491211	2.00	-2.00
210.38	800353.67	623691.25	32.711740	-103.491208	2.00	-2.00

210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00

210.38	800353.67	623691.25	32.711740	-103.491208	0.00	0.00
210.36	800353.65	623692.92	32.711745	-103.491208	10.00	10.00
210.30	800353.59	623698.90	32.711761	-103.491208	10.00	10.00
210.19	800353.48	623709.18	32.711790	-103.491208	10.00	10.00
210.03	800353.32	623723.68	32.711829	-103.491208	10.00	10.00
209.83	800353.12	623742.30	32.711881	-103.491208	10.00	10.00
209.58	800352.87	623764.89	32.711943	-103.491208	10.00	10.00
209.30	800352.59	623791.29	32.712015	-103.491209	10.00	10.00
208.97	800352.26	623821.28	32.712098	-103.491209	10.00	10.00
208.61	800351.90	623854.64	32.712189	-103.491209	10.00	10.00
208.22	800351.51	623891.11	32.712290	-103.491209	10.00	10.00
207.79	800351.08	623930.43	32.712398	-103.491210	10.00	10.00
207.34	800350.63	623972.29	32.712513	-103.491210	10.00	10.00
206.86	800350.15	624016.36	32.712634	-103.491211	10.00	10.00
206.36	800349.65	624062.33	32.712760	-103.491211	10.00	10.00
205.85	800349.14	624109.83	32.712891	-103.491212	10.00	10.00
205.79	800349.08	624115.89	32.712908	-103.491212	10.00	10.00
204.80	800348.09	624207.30	32.713159	-103.491212	5.00	5.00
203.73	800347.02	624306.33	32.713431	-103.491213	5.00	5.00
202.65	800345.94	624406.17	32.713705	-103.491214	5.00	5.00
201.56	800344.85	624507.48	32.713984	-103.491215	5.00	5.00
200.51	800343.80	624605.71	32.714254	-103.491216	0.00	0.00
199.44	800342.73	624705.36	32.714528	-103.491217	0.00	0.00
198.37	800341.66	624805.01	32.714802	-103.491218	0.00	0.00
197.30	800340.59	624904.66	32.715076	-103.491219	0.00	0.00
196.22	800339.51	625004.31	32.715349	-103.491220	0.00	0.00
195.15	800338.44	625103.96	32.715623	-103.491221	0.00	0.00
194.08	800337.37	625203.61	32.715897	-103.491222	0.00	0.00
193.01	800336.30	625303.26	32.716171	-103.491222	0.00	0.00
191.94	800335.23	625402.91	32.716445	-103.491223	0.00	0.00
190.87	800334.16	625502.56	32.716719	-103.491224	0.00	0.00
189.80	800333.09	625602.21	32.716993	-103.491225	0.00	0.00
188.73	800332.02	625701.86	32.717267	-103.491226	0.00	0.00
187.66	800330.95	625801.51	32.717541	-103.491227	0.00	0.00
186.59	800329.88	625901.16	32.717815	-103.491228	0.00	0.00
185.52	800328.81	626000.81	32.718088	-103.491229	0.00	0.00
184.45	800327.74	626100.46	32.718362	-103.491230	0.00	0.00
183.38	800326.67	626200.11	32.718636	-103.491231	0.00	0.00
182.30	800325.59	626299.76	32.718910	-103.491232	0.00	0.00
181.23	800324.52	626399.41	32.719184	-103.491232	0.00	0.00
180.16	800323.45	626499.06	32.719458	-103.491233	0.00	0.00
179.09	800322.38	626598.71	32.719732	-103.491234	0.00	0.00
178.02	800321.31	626698.36	32.720006	-103.491235	0.00	0.00
176.95	800320.24	626798.01	32.720280	-103.491236	0.00	0.00

175.88	800319.17	626897.66	32.720554	-103.491237	0.00	0.00
174.81	800318.10	626997.31	32.720827	-103.491238	0.00	0.00
173.74	800317.03	627096.96	32.721101	-103.491239	0.00	0.00
172.67	800315.96	627196.61	32.721375	-103.491240	0.00	0.00
171.60	800314.89	627296.26	32.721649	-103.491241	0.00	0.00
170.53	800313.82	627395.91	32.721923	-103.491242	0.00	0.00
169.46	800312.75	627495.56	32.722197	-103.491242	0.00	0.00
168.39	800311.68	627595.21	32.722471	-103.491243	0.00	0.00
167.31	800310.60	627694.86	32.722745	-103.491244	0.00	0.00
166.24	800309.53	627794.51	32.723019	-103.491245	0.00	0.00
165.17	800308.46	627894.16	32.723293	-103.491246	0.00	0.00
164.10	800307.39	627993.81	32.723566	-103.491247	0.00	0.00
163.03	800306.32	628093.46	32.723840	-103.491248	0.00	0.00
161.96	800305.25	628193.11	32.724114	-103.491249	0.00	0.00
160.89	800304.18	628292.76	32.724388	-103.491250	0.00	0.00
159.82	800303.11	628392.41	32.724662	-103.491251	0.00	0.00
158.75	800302.04	628492.06	32.724936	-103.491251	0.00	0.00
157.68	800300.97	628591.71	32.725210	-103.491252	0.00	0.00
156.61	800299.90	628691.36	32.725484	-103.491253	0.00	0.00
155.54	800298.83	628791.01	32.725758	-103.491254	0.00	0.00
154.47	800297.76	628890.66	32.726032	-103.491255	0.00	0.00
153.39	800296.68	628990.30	32.726305	-103.491256	0.00	0.00
152.32	800295.61	629089.95	32.726579	-103.491257	0.00	0.00
151.25	800294.54	629189.60	32.726853	-103.491258	0.00	0.00
150.18	800293.47	629289.25	32.727127	-103.491259	0.00	0.00
149.11	800292.40	629388.90	32.727401	-103.491260	0.00	0.00
148.04	800291.33	629488.55	32.727675	-103.491261	0.00	0.00
146.97	800290.26	629588.20	32.727949	-103.491261	0.00	0.00
145.90	800289.19	629687.85	32.728223	-103.491262	0.00	0.00
144.83	800288.12	629787.50	32.728497	-103.491263	0.00	0.00
143.76	800287.05	629887.15	32.728771	-103.491264	0.00	0.00
142.69	800285.98	629986.80	32.729044	-103.491265	0.00	0.00
141.62	800284.91	630086.45	32.729318	-103.491266	0.00	0.00
140.55	800283.84	630186.10	32.729592	-103.491267	0.00	0.00
139.48	800282.77	630285.75	32.729866	-103.491268	0.00	0.00
138.40	800281.69	630385.40	32.730140	-103.491269	0.00	0.00
137.33	800280.62	630485.05	32.730414	-103.491270	0.00	0.00
136.26	800279.55	630584.70	32.730688	-103.491271	0.00	0.00
135.19	800278.48	630684.35	32.730962	-103.491271	0.00	0.00
134.12	800277.41	630784.00	32.731236	-103.491272	0.00	0.00
133.05	800276.34	630883.65	32.731510	-103.491273	0.00	0.00
131.98	800275.27	630983.30	32.731783	-103.491274	0.00	0.00
130.91	800274.20	631082.95	32.732057	-103.491275	0.00	0.00
129.84	800273.13	631182.60	32.732331	-103.491276	0.00	0.00

128.77	800272.06	631282.25	32.732605	-103.491277	0.00	0.00
127.70	800270.99	631381.90	32.732879	-103.491278	0.00	0.00
126.63	800269.92	631481.55	32.733153	-103.491279	0.00	0.00
125.56	800268.85	631581.20	32.733427	-103.491280	0.00	0.00
124.48	800267.77	631680.85	32.733701	-103.491280	0.00	0.00
123.41	800266.70	631780.50	32.733975	-103.491281	0.00	0.00
122.34	800265.63	631880.15	32.734249	-103.491282	0.00	0.00
121.27	800264.56	631979.80	32.734522	-103.491283	0.00	0.00
120.20	800263.49	632079.45	32.734796	-103.491284	0.00	0.00
119.13	800262.42	632179.10	32.735070	-103.491285	0.00	0.00
118.06	800261.35	632278.75	32.735344	-103.491286	0.00	0.00
116.99	800260.28	632378.40	32.735618	-103.491287	0.00	0.00
115.92	800259.21	632478.05	32.735892	-103.491288	0.00	0.00
114.85	800258.14	632577.70	32.736166	-103.491289	0.00	0.00
113.78	800257.07	632677.35	32.736440	-103.491290	0.00	0.00
112.71	800256.00	632777.00	32.736714	-103.491290	0.00	0.00
111.64	800254.93	632876.65	32.736988	-103.491291	0.00	0.00
110.56	800253.85	632976.30	32.737261	-103.491292	0.00	0.00
109.49	800252.78	633075.95	32.737535	-103.491293	0.00	0.00
108.42	800251.71	633175.60	32.737809	-103.491294	0.00	0.00
107.35	800250.64	633275.25	32.738083	-103.491295	0.00	0.00
106.28	800249.57	633374.90	32.738357	-103.491296	0.00	0.00
105.21	800248.50	633474.55	32.738631	-103.491297	0.00	0.00
104.14	800247.43	633574.20	32.738905	-103.491298	0.00	0.00
103.07	800246.36	633673.85	32.739179	-103.491299	0.00	0.00
102.00	800245.29	633773.50	32.739453	-103.491300	0.00	0.00
100.93	800244.22	633873.15	32.739727	-103.491300	0.00	0.00
99.86	800243.15	633972.80	32.740000	-103.491301	0.00	0.00
98.79	800242.08	634072.45	32.740274	-103.491302	0.00	0.00
97.72	800241.01	634172.10	32.740548	-103.491303	0.00	0.00
96.65	800239.94	634271.75	32.740822	-103.491304	0.00	0.00
95.57	800238.86	634371.40	32.741096	-103.491305	0.00	0.00
94.50	800237.79	634471.05	32.741370	-103.491306	0.00	0.00
93.43	800236.72	634570.70	32.741644	-103.491307	0.00	0.00
92.36	800235.65	634670.35	32.741918	-103.491308	0.00	0.00
91.29	800234.58	634770.00	32.742192	-103.491309	0.00	0.00
90.22	800233.51	634869.65	32.742466	-103.491309	0.00	0.00
89.15	800232.44	634969.30	32.742739	-103.491310	0.00	0.00
88.08	800231.37	635068.95	32.743013	-103.491311	0.00	0.00
87.01	800230.30	635168.59	32.743287	-103.491312	0.00	0.00
85.94	800229.23	635268.24	32.743561	-103.491313	0.00	0.00
84.87	800228.16	635367.89	32.743835	-103.491314	0.00	0.00
83.80	800227.09	635467.54	32.744109	-103.491315	0.00	0.00
82.73	800226.02	635567.19	32.744383	-103.491316	0.00	0.00

81.65	800224.94	635666.84	32.744657	-103.491317	0.00	0.00
80.58	800223.87	635766.49	32.744931	-103.491318	0.00	0.00
79.51	800222.80	635866.14	32.745205	-103.491319	0.00	0.00
78.44	800221.73	635965.79	32.745478	-103.491319	0.00	0.00
77.37	800220.66	636065.44	32.745752	-103.491320	0.00	0.00
76.30	800219.59	636165.09	32.746026	-103.491321	0.00	0.00
75.23	800218.52	636264.74	32.746300	-103.491322	0.00	0.00
74.16	800217.45	636364.39	32.746574	-103.491323	0.00	0.00
73.09	800216.38	636464.04	32.746848	-103.491324	0.00	0.00
72.02	800215.31	636563.69	32.747122	-103.491325	0.00	0.00
70.95	800214.24	636663.34	32.747396	-103.491326	0.00	0.00
69.88	800213.17	636762.99	32.747670	-103.491327	0.00	0.00
68.81	800212.10	636862.64	32.747944	-103.491328	0.00	0.00
67.74	800211.03	636962.29	32.748217	-103.491329	0.00	0.00
66.66	800209.95	637061.94	32.748491	-103.491329	0.00	0.00
65.59	800208.88	637161.59	32.748765	-103.491330	0.00	0.00
64.52	800207.81	637261.24	32.749039	-103.491331	0.00	0.00
63.45	800206.74	637360.89	32.749313	-103.491332	0.00	0.00
62.38	800205.67	637460.54	32.749587	-103.491333	0.00	0.00
61.31	800204.60	637560.19	32.749861	-103.491334	0.00	0.00
60.24	800203.53	637659.84	32.750135	-103.491335	0.00	0.00
59.17	800202.46	637759.49	32.750409	-103.491336	0.00	0.00
58.10	800201.39	637859.14	32.750682	-103.491337	0.00	0.00
57.03	800200.32	637958.79	32.750956	-103.491338	0.00	0.00
55.96	800199.25	638058.44	32.751230	-103.491338	0.00	0.00
54.89	800198.18	638158.09	32.751504	-103.491339	0.00	0.00
53.82	800197.11	638257.74	32.751778	-103.491340	0.00	0.00
52.74	800196.03	638357.39	32.752052	-103.491341	0.00	0.00
51.67	800194.96	638457.04	32.752326	-103.491342	0.00	0.00
50.60	800193.89	638556.69	32.752600	-103.491343	0.00	0.00
49.53	800192.82	638656.34	32.752874	-103.491344	0.00	0.00
48.46	800191.75	638755.99	32.753148	-103.491345	0.00	0.00
47.39	800190.68	638855.64	32.753421	-103.491346	0.00	0.00
46.32	800189.61	638955.29	32.753695	-103.491347	0.00	0.00
45.25	800188.54	639054.94	32.753969	-103.491348	0.00	0.00
44.18	800187.47	639154.59	32.754243	-103.491348	0.00	0.00
43.11	800186.40	639254.24	32.754517	-103.491349	0.00	0.00
42.04	800185.33	639353.89	32.754791	-103.491350	0.00	0.00
40.97	800184.26	639453.54	32.755065	-103.491351	0.00	0.00
39.90	800183.19	639553.19	32.755339	-103.491352	0.00	0.00
38.83	800182.12	639652.84	32.755613	-103.491353	0.00	0.00
37.75	800181.04	639752.49	32.755887	-103.491354	0.00	0.00
36.68	800179.97	639852.14	32.756160	-103.491355	0.00	0.00
35.61	800178.90	639951.79	32.756434	-103.491356	0.00	0.00

34.54	800177.83	640051.44	32.756708	-103.491357	0.00	0.00
33.47	800176.76	640151.09	32.756982	-103.491357	0.00	0.00
32.40	800175.69	640250.74	32.757256	-103.491358	0.00	0.00
31.33	800174.62	640350.39	32.757530	-103.491359	0.00	0.00
30.26	800173.55	640450.04	32.757804	-103.491360	0.00	0.00
29.19	800172.48	640549.69	32.758078	-103.491361	0.00	0.00
28.12	800171.41	640649.34	32.758352	-103.491362	0.00	0.00
27.05	800170.34	640748.99	32.758626	-103.491363	0.00	0.00
25.98	800169.27	640848.64	32.758899	-103.491364	0.00	0.00
24.91	800168.20	640948.29	32.759173	-103.491365	0.00	0.00
23.83	800167.12	641047.94	32.759447	-103.491366	0.00	0.00
22.76	800166.05	641147.59	32.759721	-103.491367	0.00	0.00
21.69	800164.98	641247.23	32.759995	-103.491367	0.00	0.00
20.62	800163.91	641346.88	32.760269	-103.491368	0.00	0.00
19.55	800162.84	641446.53	32.760543	-103.491369	0.00	0.00
18.48	800161.77	641546.18	32.760817	-103.491370	0.00	0.00
17.41	800160.70	641645.83	32.761091	-103.491371	0.00	0.00
16.34	800159.63	641745.48	32.761365	-103.491372	0.00	0.00
15.27	800158.56	641845.13	32.761638	-103.491373	0.00	0.00
14.20	800157.49	641944.78	32.761912	-103.491374	0.00	0.00
13.52	800156.81	642007.84	32.762086	-103.491374	0.00	0.00

Turn Rate TRN	Vertical Section VS
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

0.00	0.00
0.00	0.00
0.00	0.00
0.00	-1.32
0.00	-5.27
0.00	-8.23
0.00	-11.53
0.00	-18.11
0.00	-24.69
0.00	-31.28
0.00	-37.86
0.00	-44.44
0.00	-51.02
0.00	-57.61
0.00	-64.19
0.00	-70.77
0.00	-77.36
0.00	-83.94
0.00	-90.52
0.00	-97.10
0.00	-103.69
0.00	-110.27
0.00	-116.85
0.00	-123.44
0.00	-130.02
0.00	-136.60
0.00	-143.18
0.00	-149.77
0.00	-156.35
0.00	-162.93
0.00	-169.52
0.00	-176.10
0.00	-182.68
0.00	-189.26
0.00	-195.85
0.00	-202.43
0.00	-209.01
0.00	-215.60
0.00	-222.18
0.00	-228.76
0.00	-231.30
0.00	-234.85
0.00	-238.50
0.00	-239.53

0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53
0.00	-239.53

0.00	-239.53
0.00	-237.87
0.00	-231.89
0.00	-221.60
0.00	-207.10
0.00	-188.48
0.00	-165.88
0.00	-139.49
0.00	-109.50
0.00	-76.14
0.00	-39.66
0.00	-0.34
0.00	41.52
0.00	85.60
0.00	131.57
0.00	179.07
0.00	185.13
0.00	276.54
0.00	375.58
0.00	475.43
0.00	576.74
0.00	674.98
0.00	774.64
0.00	874.29
0.00	973.95
0.00	1073.61
0.00	1173.26
0.00	1272.92
0.00	1372.57
0.00	1472.23
0.00	1571.88
0.00	1671.54
0.00	1771.19
0.00	1870.85
0.00	1970.51
0.00	2070.16
0.00	2169.82
0.00	2269.47
0.00	2369.13
0.00	2468.78
0.00	2568.44
0.00	2668.09
0.00	2767.75
0.00	2867.41

0.00	2967.06
0.00	3066.72
0.00	3166.37
0.00	3266.03
0.00	3365.68
0.00	3465.34
0.00	3564.99
0.00	3664.65
0.00	3764.31
0.00	3863.96
0.00	3963.62
0.00	4063.27
0.00	4162.93
0.00	4262.58
0.00	4362.24
0.00	4461.90
0.00	4561.55
0.00	4661.21
0.00	4760.86
0.00	4860.52
0.00	4960.17
0.00	5059.83
0.00	5159.48
0.00	5259.14
0.00	5358.80
0.00	5458.45
0.00	5558.11
0.00	5657.76
0.00	5757.42
0.00	5857.07
0.00	5956.73
0.00	6056.38
0.00	6156.04
0.00	6255.70
0.00	6355.35
0.00	6455.01
0.00	6554.66
0.00	6654.32
0.00	6753.97
0.00	6853.63
0.00	6953.28
0.00	7052.94
0.00	7152.60
0.00	7252.25

0.00	7351.91
0.00	7451.56
0.00	7551.22
0.00	7650.87
0.00	7750.53
0.00	7850.19
0.00	7949.84
0.00	8049.50
0.00	8149.15
0.00	8248.81
0.00	8348.46
0.00	8448.12
0.00	8547.77
0.00	8647.43
0.00	8747.09
0.00	8846.74
0.00	8946.40
0.00	9046.05
0.00	9145.71
0.00	9245.36
0.00	9345.02
0.00	9444.67
0.00	9544.33
0.00	9643.99
0.00	9743.64
0.00	9843.30
0.00	9942.95
0.00	10042.61
0.00	10142.26
0.00	10241.92
0.00	10341.57
0.00	10441.23
0.00	10540.89
0.00	10640.54
0.00	10740.20
0.00	10839.85
0.00	10939.51
0.00	11039.16
0.00	11138.82
0.00	11238.48
0.00	11338.13
0.00	11437.79
0.00	11537.44
0.00	11637.10

0.00	11736.75
0.00	11836.41
0.00	11936.06
0.00	12035.72
0.00	12135.38
0.00	12235.03
0.00	12334.69
0.00	12434.34
0.00	12534.00
0.00	12633.65
0.00	12733.31
0.00	12832.96
0.00	12932.62
0.00	13032.28
0.00	13131.93
0.00	13231.59
0.00	13331.24
0.00	13430.90
0.00	13530.55
0.00	13630.21
0.00	13729.87
0.00	13829.52
0.00	13929.18
0.00	14028.83
0.00	14128.49
0.00	14228.14
0.00	14327.80
0.00	14427.45
0.00	14527.11
0.00	14626.77
0.00	14726.42
0.00	14826.08
0.00	14925.73
0.00	15025.39
0.00	15125.04
0.00	15224.70
0.00	15324.35
0.00	15424.01
0.00	15523.67
0.00	15623.32
0.00	15722.98
0.00	15822.63
0.00	15922.29
0.00	16021.94

0.00	16121.60
0.00	16221.25
0.00	16320.91
0.00	16420.57
0.00	16520.22
0.00	16619.88
0.00	16719.53
0.00	16819.19
0.00	16918.84
0.00	17018.50
0.00	17118.16
0.00	17217.81
0.00	17317.47
0.00	17417.12
0.00	17516.78
0.00	17616.43
0.00	17716.09
0.00	17815.74
0.00	17915.40
0.00	18015.06
0.00	18078.12

Coterra Energy

Lea County, NM (NAD 83)
Rope State Com Pad
Rope State Com 604H

338' FSL, 1133' FEL

OH
Plan #2

Total Directional
"Driven by TOTAL performance"

Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

18 March, 2026

Total Report Version 1.70

COMPASS 5000.16 Build 97

Click here for our anticollision policy

ATTENTION
All offset data provided was gathered using available software and resources . Total Directional Services cannot guarantee the accuracy of all offset data , which should be verified for accuracy by the Operator.

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,663.40usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Well	Rope State Com 604H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	623,928.52 usft	**Latitude:**	32.7123970	
	+E/-W	0.00 usft	**Easting:**	800,143.29 usft	**Longitude:**	-103.4918854	
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,939.10 usft	
Grid Convergence:		0.45 °					

Survey Tool Program **Date** 3/18/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	28,563.18	Plan #2 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Expierimental: Summary Highlights: Rope State Com 604H

- At 1,600.00 MD, Rope State Com 503H - OH - Plan #2 is 20.00 usft away with a 1.77 SF.
- At 1,700.00 MD, Rope State Com 503H - OH - Plan #2 is 21.19 usft away with a 1.77 SF.
- At 1,855.71 MD, Rope State Com 504H - OH - Plan #2 is 15.50 usft away with a 1.19 SF.
- At 24,525.11 MD, (O) LEO STATE 007 - Verticals - Surveys is 49.60 usft away with a 0.32 SF.
- At 25,503.97 MD, (O) NEW MEXICO BV STATE 001 P & A - Vertical - Surveys is 402.97 usft away with a 1.03 SF.
- At 26,344.57 MD, (O) STATE AN 008 P & A - Vertical - Surveys is 581.15 usft away with a 1.56 SF.
- At 27,021.46 MD, (O) STATE AN 010 P & A - Vertical - Surveys is 142.17 usft away with a 0.48 SF.
- At 27,100.00 MD, (O) STATE AN 010 P & A - Vertical - Surveys is 162.42 usft away with a 0.48 SF.
- At 27,668.77 MD, (O) STATE AN 009 P & A - Vertical - Surveys is 582.66 usft away with a 1.53 SF.
- At 28,336.16 MD, (O) STATE AN 007 P & A - Vertical - Surveys is 77.07 usft away with a 0.19 SF.

Offset Listing

Offset Customer - Project - Site Name / Offset Well	Ground Level	KB Height	Map Coordinates Northing	Map Coordinates Easting	Geographical Coordinates Latitude	Geographical Coordinates Longitude	Surface Uncertainty Site	Surface Uncertainty Well
- - Rope State Com Pad								
(O) AIRSTRIP 31 18 35 RN STATE COM 111H -	3,948.00	3,977.00	618,499.40	796,383.01	32.6975570	-103.5042480	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 114H -	3,931.00	3,960.00	618,609.72	800,455.74	32.6977720	-103.4910070	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 124H -	3,930.00	3,959.00	618,639.91	800,455.51	32.6978550	-103.4910070	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 131H -	3,948.00	3,977.00	618,499.27	796,413.16	32.6975560	-103.5041500	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 132H -	3,937.00	3,955.00	619,144.37	797,713.76	32.6993010	-103.4999060	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 133H -	3,940.00	3,969.00	618,487.04	799,023.98	32.6974660	-103.4956640	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 134H -	3,930.00	3,959.00	618,639.68	800,425.66	32.6978550	-103.4911040	0.00	0.00
(O) AIRSTRIP 31 18 35 RN STATE COM 201H -	3,948.00	3,977.00	618,510.02	796,391.85	32.6975860	-103.5042190	0.00	0.00
(O) AIRSTRIP STATE 001 P & A -	3,951.00	3,966.00	623,270.15	796,335.87	32.7106700	-103.5042800	0.00	0.00
(O) ALBATROSS STATE COM 001H -	3,937.00	3,954.00	628,551.33	800,248.81	32.7251000	-103.4914230	0.00	0.00
(O) ALBATROSS STATE COM 002H -	3,949.00	3,967.00	628,528.18	799,256.51	32.7250580	-103.4946500	0.00	0.00

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Listing

Offset Customer - Project - Site Name / Offset Well	Ground Level	KB Height	Map Coordinates Northing	Map Coordinates Easting	Geographical Coordinates Latitude	Geographical Coordinates Longitude	Surface Uncertainty Site	Surface Uncertainty Well
- - Rope State Com Pad								
(O) B LEE STATE 004 -	3,965.00	3,977.00	641,515.13	796,493.15	32.7608110	-103.5033040	0.00	0.00
(O) B LEE STATE 005 P & A -	3,967.00	3,985.00	640,452.00	796,173.13	32.7578960	-103.5043720	0.00	0.00
(O) B LEE STATE 006 -	3,976.00	3,993.00	641,668.68	796,262.29	32.7612380	-103.5040510	0.00	0.00
(O) BLACK JACK STATE 001 -	3,956.00	3,974.00	636,473.15	800,806.97	32.7468600	-103.4894030	0.00	0.00
(O) BLACK JACK STATE 002 -	3,964.00	3,981.00	636,492.36	798,826.94	32.7469560	-103.4958420	0.00	0.00
(O) BLACK JACK STATE 003 -	3,956.00	3,973.00	635,178.36	800,826.82	32.7433010	-103.4893720	0.00	0.00
(O) BRIDGES STATE 180 P & A -	3,970.00	3,983.00	641,762.44	797,406.13	32.7614710	-103.5003280	0.00	0.00
(O) IRONHOUSE 19 STATE COM 001H -	3,952.00	3,970.00	629,074.37	797,787.93	32.7265910	-103.4994110	0.00	0.00
(O) IRONHOUSE 19 STATE COM 002H -	3,932.00	3,950.00	629,159.32	800,614.89	32.7267630	-103.4902170	0.00	0.00
(O) IRONHOUSE 19 STATE COM 003H -	3,946.00	3,964.00	628,897.40	799,429.51	32.7260690	-103.4940780	0.00	0.00
(O) IRONHOUSE 19 STATE COM 004H -	3,954.00	3,958.00	628,819.14	797,072.11	32.7259050	-103.5017450	0.00	0.00
(O) LEA 30 STATE 001 P & A -	3,966.00	3,979.00	626,904.76	796,631.31	32.7206530	-103.5032270	0.00	0.00
(O) LEA SOUTHEAST STATE 1 P & A -	3,947.00	3,959.00	625,529.41	799,265.47	32.7168160	-103.4946980	0.00	0.00
(O) LEA ZD STATE 001 P & A -	3,971.00	3,984.00	624,591.55	796,323.07	32.7143020	-103.5042880	0.00	0.00
(O) LEO STATE #1 -	3,961.00	3,978.00	639,133.16	800,128.00	32.7541856	-103.4915424	0.00	0.00
(O) LEO STATE 006 TA -	3,963.00	3,981.00	639,316.50	798,957.11	32.7547150	-103.4953460	0.00	0.00
(O) LEO STATE 007 -	3,961.00	3,978.00	637,821.27	800,127.79	32.7505800	-103.4915770	0.00	0.00
(O) MESA MERRITT STATE 001 P & A -	3,959.00	3,976.00	632,198.92	797,903.57	32.7351760	-103.4989550	0.00	0.00
(O) NEW MEXICO BP STATE 002 P & A -	3,972.00	3,986.00	640,373.03	797,562.48	32.7576490	-103.4998550	0.00	0.00
(O) NEW MEXICO BV STATE 001 P & A -	3,945.00	3,968.00	638,963.09	800,592.51	32.7537080	-103.4900360	0.00	0.00
(O) OHIO STATE 001 -	3,969.00	3,985.00	641,739.00	797,802.59	32.7613980	-103.4990390	0.00	0.00
(O) OHIO STATE 002 -	3,969.00	3,988.00	641,112.16	797,488.72	32.7596820	-103.5000760	0.00	0.00
(O) OHIO STATE 005 -	3,969.00	3,986.00	641,383.71	797,964.95	32.7604180	-103.4985200	0.00	0.00
(O) SHETLAND SWD 001 -	3,964.00	3,976.00	636,158.39	797,865.31	32.7460590	-103.4989780	0.00	0.00
(O) STATE AN 005 -	3,977.00	3,995.00	641,777.14	798,761.78	32.7614820	-103.4959180	0.00	0.00
(O) STATE AN 006 TA -	3,966.00	3,972.00	640,457.55	798,774.37	32.7578550	-103.4959110	0.00	0.00
(O) STATE AN 007 P & A -	3,970.00	3,984.00	641,780.69	800,082.17	32.7614630	-103.4916230	0.00	0.00
(O) STATE AN 008 P & A -	3,950.00	3,970.00	639,802.75	800,761.69	32.7560120	-103.4894640	0.00	0.00
(O) STATE AN 009 P & A -	3,955.00	3,976.00	641,122.70	800,749.01	32.7596400	-103.4894710	0.00	0.00
(O) STATE AN 010 P & A -	3,966.00	3,980.00	640,460.74	800,095.13	32.7578350	-103.4916150	0.00	0.00
(O) STATE AN 012 P & A -	3,961.00	3,984.00	641,422.62	800,624.57	32.7604670	-103.4898680	0.00	0.00
Rope State Com 501H -	3,951.90	3,974.90	623,914.59	796,958.97	32.7124278	-103.5022379	0.00	0.00
Rope State Com 502H -	3,951.80	3,974.80	623,914.67	796,998.97	32.7124272	-103.5021079	0.00	0.00
Rope State Com 503H -	3,939.20	3,962.20	623,928.44	800,123.29	32.7123973	-103.4919504	0.00	0.00
Rope State Com 504H -	3,939.00	3,962.00	623,928.60	800,163.28	32.7123968	-103.4918204	0.00	0.00
Rope State Com 601H -	3,952.10	3,975.10	623,914.56	796,938.98	32.7124281	-103.5023029	0.00	0.00
Rope State Com 603H -	3,939.30	3,962.30	623,928.37	800,103.29	32.7123975	-103.4920155	0.00	0.00

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

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

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
Rope State Com Pad						
(O) AIRSTRIP 31 18 35 RN STATE COM 111H - Horizonta						Out of range
(O) AIRSTRIP 31 18 35 RN STATE COM 114H - Horizonta	9,245.34	14,300.00	568.73	453.14	4.92	CC, ES
(O) AIRSTRIP 31 18 35 RN STATE COM 114H - Horizonta	9,300.00	14,300.00	571.35	454.94	4.91	SF
(O) AIRSTRIP 31 18 35 RN STATE COM 124H - Horizont	10,136.66	15,150.00	580.55	469.08	5.21	CC, ES, SF
(O) AIRSTRIP 31 18 35 RN STATE COM 131H - Horizont						Out of range
(O) AIRSTRIP 31 18 35 RN STATE COM 132H - Horizont						Out of range
(O) AIRSTRIP 31 18 35 RN STATE COM 133H - Horizont	10,200.00	15,366.00	1,209.23	1,095.23	10.61	SF
(O) AIRSTRIP 31 18 35 RN STATE COM 133H - Horizont	10,209.20	15,366.00	1,209.17	1,095.21	10.61	CC, ES
(O) AIRSTRIP 31 18 35 RN STATE COM 134H - Horizont	10,229.36	15,475.00	666.22	559.04	6.22	CC, ES
(O) AIRSTRIP 31 18 35 RN STATE COM 134H - Horizont	10,300.00	15,475.00	672.44	563.80	6.19	SF
(O) AIRSTRIP 31 18 35 RN STATE COM 201H - Horizont						Out of range
(O) AIRSTRIP STATE 001 P & A - Vertical - Surveys						Out of range
(O) ALBATROSS STATE COM 001H - Horizontal - PROD	10,068.29	14,469.00	552.47	432.81	4.62	SF
(O) ALBATROSS STATE COM 001H - Horizontal - PROD	14,566.29	10,185.13	285.90	227.04	4.86	CC, ES
(O) ALBATROSS STATE COM 002H - Horizontal - PROD	10,400.00	14,906.11	986.96	873.49	8.70	SF
(O) ALBATROSS STATE COM 002H - Horizontal - PROD	10,462.87	14,838.64	986.48	873.36	8.72	ES
(O) ALBATROSS STATE COM 002H - Horizontal - PROD	10,600.87	14,660.93	986.22	874.76	8.85	CC
(O) B LEE STATE 004 - Verticals - Surveys						Out of range
(O) B LEE STATE 005 P & A - Vertical - Surveys						Out of range
(O) B LEE STATE 006 - Verticals - Surveys						Out of range
(O) BLACK JACK STATE 001 - Verticals - Surveys	23,181.74	9,408.69	682.87	548.64	5.09	CC, ES, SF
(O) BLACK JACK STATE 002 - Verticals - Surveys	23,043.39	9,451.95	1,389.05	1,114.51	5.06	CC, ES, SF
(O) BLACK JACK STATE 003 - Verticals - Surveys	21,792.38	9,540.23	594.70	451.53	4.15	CC
(O) BLACK JACK STATE 003 - Verticals - Surveys	21,800.00	9,539.75	594.75	451.53	4.15	ES, SF
(O) BRIDGES STATE 180 P & A - Vertical - Surveys						Out of range
(O) IRONHOUSE 19 STATE COM 001H - Horizontal - PR						Out of range
(O) IRONHOUSE 19 STATE COM 001H - Pilot - Pilot						Out of range
(O) IRONHOUSE 19 STATE COM 002H - Horizontal - PR	20,265.41	13,836.00	429.61	282.52	2.92	CC, ES, SF
(O) IRONHOUSE 19 STATE COM 003H - Horizontal - PR	16,300.92	10,065.91	802.45	714.61	9.14	CC, ES
(O) IRONHOUSE 19 STATE COM 003H - Horizontal - PR	20,300.00	13,989.55	1,095.29	939.03	7.01	SF
(O) IRONHOUSE 19 STATE COM 004H - Horizontal - PR						Out of range
(O) IRONHOUSE 19 STATE COM 004H - ST01 - ST01						Out of range
(O) LEA 30 STATE 001 P & A - Vertical - Surveys						Out of range
(O) LEA SOUTHEAST STATE 1 P & A - Vertical - Surveys	12,038.45	10,344.68	1,068.33	799.63	3.98	CC, ES, SF
(O) LEA ZD STATE 001 P & A - Vertical - Surveys						Out of range
(O) LEO STATE #1 - OH - OH	25,063.12	9,402.64	574.63	434.09	4.09	CC, ES, SF
(O) LEO STATE 006 TA - Verticals - Surveys	25,683.04	9,291.18	1,343.06	1,204.91	9.72	CC
(O) LEO STATE 006 TA - Verticals - Surveys	25,700.00	9,289.83	1,343.17	1,204.90	9.71	ES, SF
(O) LEO STATE 007 - Verticals - Surveys	24,525.11	9,329.87	49.60	-107.79	0.32	Level 1, CC, ES, SF
(O) MESA MERRITT STATE 001 P & A - Vertical - Surveys						Out of range
(O) NEW MEXICO BP STATE 002 P & A - Vertical - Surve						Out of range
(O) NEW MEXICO BV STATE 001 P & A - Vertical - Surve	25,503.97	9,241.81	402.97	11.28	1.03	Level 2, CC, ES, SF
(O) OHIO STATE 001 - Verticals - Surveys						Out of range
(O) OHIO STATE 002 - Verticals - Surveys						Out of range
(O) OHIO STATE 005 - Verticals - Surveys						Out of range
(O) SHETLAND SWD 001 - Vertical - Surveys						Out of range
(O) STATE AN 005 - Verticals - Surveys	28,563.28	9,462.86	1,344.40	1,191.27	8.78	CC, ES, SF
(O) STATE AN 006 TA - Vertical - Surveys	27,030.98	9,023.00	1,402.62	966.86	3.22	CC, ES, SF
(O) STATE AN 007 P & A - Vertical - Surveys	28,336.16	9,021.68	77.07	-322.94	0.19	Level 1, CC, ES, SF

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

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
Rope State Com Pad						
(O) STATE AN 008 P & A - Vertical - Surveys	26,344.57	9,171.78	581.15	209.30	1.56	CC, ES, SF
(O) STATE AN 009 P & A - Vertical - Surveys	27,668.77	9,068.45	582.66	202.99	1.53	CC, ES, SF
(O) STATE AN 010 P & A - Vertical - Surveys	27,021.46	9,012.00	142.17	-156.87	0.48	Level 1, CC, SF
(O) STATE AN 010 P & A - Vertical - Surveys	27,100.00	9,012.00	162.42	-173.48	0.48	Level 1, ES
(O) STATE AN 012 P & A - OH - Surveys	28,346.64	9,018.88	467.00	294.46	2.71	CC, ES, SF
(O) STATE AN 012 P & A - ST01 - ST01	28,346.64	9,018.88	467.00	294.46	2.71	CC, ES, SF
Rope State Com 501H - OH - Plan #3						Out of range
Rope State Com 502H - OH - Plan #2						Out of range
Rope State Com 503H - OH - Plan #2	1,600.00	1,600.10	20.00	8.69	1.77	CC, ES
Rope State Com 503H - OH - Plan #2	1,700.00	1,700.08	21.19	9.19	1.77	SF
Rope State Com 504H - OH - Plan #2	1,855.71	1,855.10	15.50	2.43	1.19	Level 2, CC, ES, SF
Rope State Com 601H - OH - Plan #2						Out of range
Rope State Com 603H - OH - Plan #2	1,516.60	1,516.80	40.00	29.29	3.74	CC
Rope State Com 603H - OH - Plan #2	1,600.00	1,600.00	40.00	28.69	3.54	ES, SF

Offset Design: Rope State Com Pad - (O) AIRSTRIP 31 18 35 RN STATE COM 114H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
7,700.00	7,686.47	14,300.00	9,231.82	26.99	85.77	109.25	-424.78	747.31	1,646.68	1,585.68	61.00	26.996	
7,800.00	7,786.47	14,300.00	9,231.82	27.33	85.77	109.25	-424.78	747.31	1,553.21	1,491.22	61.99	25.056	
7,900.00	7,886.47	14,300.00	9,231.82	27.68	85.77	109.25	-424.78	747.31	1,460.62	1,397.47	63.14	23.131	
8,000.00	7,986.47	14,300.00	9,231.82	28.03	85.77	109.25	-424.78	747.31	1,369.06	1,304.56	64.50	21.225	
8,100.00	8,086.47	14,300.00	9,231.82	28.38	85.77	109.25	-424.78	747.31	1,278.77	1,212.66	66.11	19.342	
8,200.00	8,186.47	14,300.00	9,231.82	28.73	85.77	109.25	-424.78	747.31	1,190.04	1,122.00	68.04	17.490	
8,300.00	8,286.47	14,300.00	9,231.82	29.08	85.77	109.25	-424.78	747.31	1,103.23	1,032.87	70.36	15.680	
8,400.00	8,386.47	14,300.00	9,231.82	29.43	85.77	109.25	-424.78	747.31	1,018.85	945.69	73.17	13.925	
8,500.00	8,486.47	14,300.00	9,231.82	29.78	85.77	109.25	-424.78	747.31	937.54	860.98	76.56	12.246	
8,600.00	8,586.47	14,300.00	9,231.82	30.13	85.77	109.25	-424.78	747.31	860.19	779.53	80.65	10.665	
8,700.00	8,686.47	14,300.00	9,231.82	30.48	85.77	109.25	-424.78	747.31	787.94	702.41	85.53	9.213	
8,800.00	8,786.47	14,300.00	9,231.82	30.84	85.77	109.25	-424.78	747.31	722.35	631.15	91.19	7.921	
8,900.00	8,886.47	14,300.00	9,231.82	31.19	85.77	109.25	-424.78	747.31	665.37	567.88	97.49	6.825	
9,000.00	8,986.47	14,300.00	9,231.82	31.54	85.77	109.25	-424.78	747.31	619.39	515.41	103.98	5.957	
9,100.00	9,086.47	14,300.00	9,231.82	31.89	85.77	109.25	-424.78	747.31	587.01	477.09	109.92	5.340	
9,200.00	9,186.47	14,300.00	9,231.82	32.24	85.77	109.25	-424.78	747.31	570.53	456.21	114.33	4.990	
9,245.34	9,231.81	14,300.00	9,231.82	32.40	85.77	109.25	-424.78	747.31	568.73	453.14	115.59	4.920	CC, ES
9,300.00	9,286.47	14,300.00	9,231.82	32.59	85.77	109.25	-424.78	747.31	571.35	454.94	116.41	4.908	SF
9,400.00	9,386.47	14,300.00	9,231.82	32.95	85.77	109.25	-424.78	747.31	589.38	473.40	115.99	5.081	
9,500.00	9,486.47	14,300.00	9,231.82	33.30	85.77	109.25	-424.78	747.31	623.14	509.61	113.53	5.489	
9,600.00	9,586.47	14,300.00	9,231.82	33.65	85.77	109.25	-424.78	747.31	670.25	560.40	109.85	6.101	
9,700.00	9,686.47	14,300.00	9,231.82	34.00	85.77	109.25	-424.78	747.31	728.12	622.41	105.71	6.888	
9,800.00	9,786.47	14,300.00	9,231.82	34.35	85.77	109.25	-424.78	747.31	794.42	692.79	101.62	7.817	
9,900.00	9,886.43	14,300.00	9,231.82	34.71	85.77	105.12	-424.78	747.31	867.54	769.67	97.87	8.864	
10,000.00	9,984.97	14,300.00	9,231.82	35.05	85.77	91.89	-424.78	747.31	947.60	852.96	94.64	10.013	
10,100.00	10,079.19	14,300.00	9,231.82	35.37	85.77	76.64	-424.78	747.31	1,031.43	939.39	92.04	11.206	
10,200.00	10,166.23	14,300.00	9,231.82	35.65	85.77	61.92	-424.78	747.31	1,115.91	1,025.87	90.04	12.393	
10,300.00	10,243.43	14,300.00	9,231.82	35.91	85.77	49.77	-424.78	747.31	1,198.62	1,110.06	88.56	13.535	
10,400.00	10,308.47	14,300.00	9,231.82	36.13	85.77	40.64	-424.78	747.31	1,277.62	1,190.15	87.48	14.605	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) AIRSTRIP 31 18 35 RN STATE COM 114H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Offset Well Error: 0.00 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
10,500.00	10,359.35	14,300.00	9,231.82	36.31	85.77	34.02	-424.78	747.31	1,351.37	1,264.67	86.70	15.586	
10,600.00	10,394.53	14,300.00	9,231.82	36.45	85.77	29.26	-424.78	747.31	1,418.60	1,332.44	86.16	16.465	
10,700.00	10,416.72	14,300.00	9,231.82	36.57	85.77	27.25	-424.78	747.31	1,480.98	1,395.24	85.74	17.272	
10,800.00	10,430.32	14,300.00	9,231.82	36.67	85.77	25.56	-424.78	747.31	1,541.44	1,456.08	85.36	18.058	
10,900.00	10,435.22	14,300.00	9,231.82	36.76	85.77	24.05	-424.78	747.31	1,599.76	1,514.77	84.99	18.823	
11,000.00	10,431.41	14,300.00	9,231.82	36.87	85.77	22.71	-424.78	747.31	1,655.75	1,571.14	84.60	19.570	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) AIRSTRIP 31 18 35 RN STATE COM 124H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
8,700.00	8,686.47	15,150.00	10,248.68	30.48	87.01	110.01	-421.07	714.98	1,651.94	1,586.95	64.99	25.418	
8,800.00	8,786.47	15,150.00	10,248.68	30.84	87.01	110.01	-421.07	714.98	1,557.71	1,491.84	65.87	23.649	
8,900.00	8,886.47	15,150.00	10,248.68	31.19	87.01	110.01	-421.07	714.98	1,464.25	1,397.36	66.89	21.891	
9,000.00	8,986.47	15,150.00	10,248.68	31.54	87.01	110.01	-421.07	714.98	1,371.70	1,303.62	68.09	20.147	
9,100.00	9,086.47	15,150.00	10,248.68	31.89	87.01	110.01	-421.07	714.98	1,280.29	1,210.78	69.51	18.420	
9,200.00	9,186.47	15,150.00	10,248.68	32.24	87.01	110.01	-421.07	714.98	1,190.25	1,119.04	71.21	16.715	
9,300.00	9,286.47	15,150.00	10,248.68	32.59	87.01	110.01	-421.07	714.98	1,101.93	1,028.65	73.27	15.038	
9,400.00	9,386.47	15,150.00	10,248.68	32.95	87.01	110.01	-421.07	714.98	1,015.78	939.98	75.80	13.401	
9,500.00	9,486.47	15,150.00	10,248.68	33.30	87.01	110.01	-421.07	714.98	932.40	853.51	78.89	11.819	
9,600.00	9,586.47	15,150.00	10,248.68	33.65	87.01	110.01	-421.07	714.98	852.60	769.91	82.69	10.311	
9,700.00	9,686.47	15,150.00	10,248.68	34.00	87.01	110.01	-421.07	714.98	777.49	690.17	87.32	8.904	
9,800.00	9,786.47	15,150.00	10,248.68	34.35	87.01	110.01	-421.07	714.98	708.55	615.70	92.85	7.632	
9,900.00	9,886.43	15,150.00	10,248.68	34.71	87.01	113.45	-421.07	714.98	648.28	549.11	99.17	6.537	
10,000.00	9,984.97	15,150.00	10,248.68	35.05	87.01	117.90	-421.07	714.98	604.20	498.73	105.47	5.729	
10,100.00	10,079.19	15,150.00	10,248.68	35.37	87.01	119.89	-421.07	714.98	582.29	471.96	110.33	5.278	
10,136.66	10,112.08	15,150.00	10,248.68	35.47	87.01	120.04	-421.07	714.98	580.55	469.08	111.47	5.208	CC, ES, SF
10,200.00	10,166.23	15,150.00	10,248.68	35.65	87.01	119.58	-421.07	714.98	585.73	473.27	112.46	5.208	
10,300.00	10,243.43	15,150.00	10,248.68	35.91	87.01	116.97	-421.07	714.98	613.98	502.39	111.59	5.502	
10,400.00	10,308.47	15,150.00	10,248.68	36.13	87.01	111.80	-421.07	714.98	663.12	554.55	108.57	6.108	
10,500.00	10,359.35	15,150.00	10,248.68	36.31	87.01	103.72	-421.07	714.98	727.62	623.07	104.54	6.960	
10,600.00	10,394.53	15,150.00	10,248.68	36.45	87.01	92.65	-421.07	714.98	802.09	701.76	100.33	7.995	
10,700.00	10,416.72	15,150.00	10,248.68	36.57	87.01	85.56	-421.07	714.98	882.22	785.84	96.38	9.154	
10,800.00	10,430.32	15,150.00	10,248.68	36.67	87.01	78.05	-421.07	714.98	965.70	872.85	92.85	10.401	
10,900.00	10,435.22	15,150.00	10,248.68	36.76	87.01	70.14	-421.07	714.98	1,051.18	961.47	89.71	11.717	
11,000.00	10,431.41	15,150.00	10,248.68	36.87	87.01	62.28	-421.07	714.98	1,137.63	1,050.70	86.92	13.088	
11,100.00	10,423.12	15,150.00	10,248.68	37.00	87.01	62.17	-421.07	714.98	1,225.27	1,140.82	84.45	14.509	
11,200.00	10,414.83	15,150.00	10,248.68	37.15	87.01	62.17	-421.07	714.98	1,314.68	1,232.40	82.28	15.979	
11,300.00	10,406.54	15,150.00	10,248.68	37.31	87.01	62.17	-421.07	714.98	1,405.52	1,325.16	80.36	17.490	
11,400.00	10,398.24	15,150.00	10,248.68	37.49	87.01	62.17	-421.07	714.98	1,497.52	1,418.85	78.67	19.036	
11,500.00	10,389.95	15,150.00	10,248.68	37.68	87.01	62.17	-421.07	714.98	1,590.49	1,513.32	77.17	20.611	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) AIRSTRIP 31 18 35 RN STATE COM 133H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,300.00	9,286.47	15,366.00	10,476.59	32.59	86.59	-107.11	-571.57	-875.72	1,645.52	1,549.46	96.06	17.130	
9,400.00	9,386.47	15,366.00	10,476.59	32.95	86.59	-107.11	-571.57	-875.72	1,574.71	1,476.27	98.44	15.997	
9,500.00	9,486.47	15,366.00	10,476.59	33.30	86.59	-107.11	-571.57	-875.72	1,507.22	1,406.30	100.92	14.935	
9,600.00	9,586.47	15,366.00	10,476.59	33.65	86.59	-107.11	-571.57	-875.72	1,443.50	1,340.03	103.46	13.952	
9,700.00	9,686.47	15,366.00	10,476.59	34.00	86.59	-107.11	-571.57	-875.72	1,384.07	1,278.03	106.04	13.052	
9,800.00	9,786.47	15,366.00	10,476.59	34.35	86.59	-107.11	-571.57	-875.72	1,329.52	1,220.94	108.59	12.244	
9,900.00	9,886.43	15,366.00	10,476.59	34.71	86.59	-108.67	-571.57	-875.72	1,280.91	1,169.91	111.00	11.540	
10,000.00	9,984.97	15,366.00	10,476.59	35.05	86.59	-112.52	-571.57	-875.72	1,242.96	1,130.09	112.87	11.012	
10,100.00	10,079.19	15,366.00	10,476.59	35.37	86.59	-114.83	-571.57	-875.72	1,218.54	1,104.62	113.92	10.696	
10,200.00	10,166.23	15,366.00	10,476.59	35.65	86.59	-115.68	-571.57	-875.72	1,209.23	1,095.23	114.00	10.607	SF
10,209.20	10,173.77	15,366.00	10,476.59	35.68	86.59	-115.69	-571.57	-875.72	1,209.17	1,095.21	113.95	10.611	CC, ES
10,300.00	10,243.43	15,366.00	10,476.59	35.91	86.59	-115.10	-571.57	-875.72	1,215.66	1,102.59	113.07	10.751	
10,400.00	10,308.47	15,366.00	10,476.59	36.13	86.59	-113.06	-571.57	-875.72	1,237.40	1,126.14	111.26	11.122	
10,500.00	10,359.35	15,366.00	10,476.59	36.31	86.59	-109.50	-571.57	-875.72	1,273.01	1,164.24	108.77	11.704	
10,600.00	10,394.53	15,366.00	10,476.59	36.45	86.59	-104.35	-571.57	-875.72	1,320.36	1,214.49	105.87	12.471	
10,700.00	10,416.72	15,366.00	10,476.59	36.57	86.59	-100.86	-571.57	-875.72	1,376.30	1,273.47	102.83	13.384	
10,800.00	10,430.32	15,366.00	10,476.59	36.67	86.59	-96.96	-571.57	-875.72	1,438.29	1,338.48	99.82	14.409	
10,900.00	10,435.22	15,366.00	10,476.59	36.76	86.59	-92.47	-571.57	-875.72	1,505.15	1,408.24	96.91	15.531	
11,000.00	10,431.41	15,366.00	10,476.59	36.87	86.59	-87.48	-571.57	-875.72	1,575.78	1,481.61	94.17	16.733	
11,100.00	10,423.12	15,366.00	10,476.59	37.00	86.59	-87.41	-571.57	-875.72	1,649.41	1,557.79	91.62	18.003	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) AIRSTRIP 31 18 35 RN STATE COM 134H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
8,900.00	8,886.47	15,475.00	10,423.03	31.19	87.43	108.49	-419.93	756.49	1,640.92	1,576.95	63.97	25.652	
9,000.00	8,986.47	15,475.00	10,423.03	31.54	87.43	108.49	-419.93	756.49	1,547.68	1,482.68	65.00	23.810	
9,100.00	9,086.47	15,475.00	10,423.03	31.89	87.43	108.49	-419.93	756.49	1,455.33	1,389.13	66.21	21.981	
9,200.00	9,186.47	15,475.00	10,423.03	32.24	87.43	108.49	-419.93	756.49	1,364.07	1,296.43	67.64	20.168	
9,300.00	9,286.47	15,475.00	10,423.03	32.59	87.43	108.49	-419.93	756.49	1,274.12	1,204.78	69.34	18.375	
9,400.00	9,386.47	15,475.00	10,423.03	32.95	87.43	108.49	-419.93	756.49	1,185.77	1,114.39	71.39	16.610	
9,500.00	9,486.47	15,475.00	10,423.03	33.30	87.43	108.49	-419.93	756.49	1,099.43	1,025.56	73.87	14.884	
9,600.00	9,586.47	15,475.00	10,423.03	33.65	87.43	108.49	-419.93	756.49	1,015.60	938.72	76.88	13.211	
9,700.00	9,686.47	15,475.00	10,423.03	34.00	87.43	108.49	-419.93	756.49	934.95	854.41	80.54	11.609	
9,800.00	9,786.47	15,475.00	10,423.03	34.35	87.43	108.49	-419.93	756.49	858.38	773.42	84.96	10.103	
9,900.00	9,886.43	15,475.00	10,423.03	34.71	87.43	112.97	-419.93	756.49	787.51	697.30	90.21	8.730	
10,000.00	9,984.97	15,475.00	10,423.03	35.05	87.43	119.57	-419.93	756.49	728.41	632.39	96.02	7.586	
10,100.00	10,079.19	15,475.00	10,423.03	35.37	87.43	123.50	-419.93	756.49	686.80	585.10	101.70	6.753	
10,200.00	10,166.23	15,475.00	10,423.03	35.65	87.43	125.16	-419.93	756.49	667.30	561.08	106.22	6.282	
10,229.36	10,190.02	15,475.00	10,423.03	35.73	87.43	125.24	-419.93	756.49	666.22	559.04	107.17	6.216	CC, ES
10,300.00	10,243.43	15,475.00	10,423.03	35.91	87.43	124.73	-419.93	756.49	672.44	563.80	108.64	6.190	SF
10,400.00	10,308.47	15,475.00	10,423.03	36.13	87.43	122.17	-419.93	756.49	701.53	592.85	108.68	6.455	
10,500.00	10,359.35	15,475.00	10,423.03	36.31	87.43	117.20	-419.93	756.49	750.99	644.15	106.83	7.030	
10,600.00	10,394.53	15,475.00	10,423.03	36.45	87.43	109.34	-419.93	756.49	815.78	711.91	103.88	7.853	
10,700.00	10,416.72	15,475.00	10,423.03	36.57	87.43	103.67	-419.93	756.49	890.28	789.71	100.57	8.852	
10,800.00	10,430.32	15,475.00	10,423.03	36.67	87.43	97.04	-419.93	756.49	970.56	873.20	97.36	9.969	
10,900.00	10,435.22	15,475.00	10,423.03	36.76	87.43	89.24	-419.93	756.49	1,054.77	960.44	94.33	11.181	
11,000.00	10,431.41	15,475.00	10,423.03	36.87	87.43	80.58	-419.93	756.49	1,141.47	1,049.94	91.53	12.471	
11,100.00	10,423.12	15,475.00	10,423.03	37.00	87.43	80.45	-419.93	756.49	1,229.96	1,140.96	89.00	13.820	
11,200.00	10,414.83	15,475.00	10,423.03	37.15	87.43	80.45	-419.93	756.49	1,320.09	1,233.32	86.77	15.213	
11,300.00	10,406.54	15,475.00	10,423.03	37.31	87.43	80.45	-419.93	756.49	1,411.55	1,326.74	84.81	16.644	
11,400.00	10,398.24	15,475.00	10,423.03	37.49	87.43	80.45	-419.93	756.49	1,504.11	1,421.03	83.08	18.105	
11,500.00	10,389.95	15,475.00	10,423.03	37.68	87.43	80.45	-419.93	756.49	1,597.55	1,516.02	81.54	19.593	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) ALBATROSS STATE COM 001H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-NS-GYRO-MS, 7863-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
8,500.00	8,486.47	14,469.00	10,026.54	29.78	84.49	79.14	-132.21	757.94	1,637.89	1,571.58	66.31	24.701	
8,600.00	8,586.47	14,469.00	10,026.54	30.13	84.49	79.14	-132.21	757.94	1,544.23	1,476.61	67.63	22.835	
8,700.00	8,686.47	14,469.00	10,026.54	30.48	84.49	79.14	-132.21	757.94	1,451.43	1,382.30	69.13	20.997	
8,800.00	8,786.47	14,469.00	10,026.54	30.84	84.49	79.14	-132.21	757.94	1,359.64	1,288.80	70.85	19.191	
8,900.00	8,886.47	14,469.00	10,026.54	31.19	84.49	79.14	-132.21	757.94	1,269.10	1,196.27	72.83	17.425	
9,000.00	8,986.47	14,469.00	10,026.54	31.54	84.49	79.14	-132.21	757.94	1,180.09	1,104.95	75.14	15.705	
9,100.00	9,086.47	14,469.00	10,026.54	31.89	84.49	79.14	-132.21	757.94	1,092.97	1,015.13	77.84	14.041	
9,200.00	9,186.47	14,469.00	10,026.54	32.24	84.49	79.14	-132.21	757.94	1,008.25	927.25	81.01	12.447	
9,300.00	9,286.47	14,469.00	10,026.54	32.59	84.49	79.14	-132.21	757.94	926.59	841.86	84.72	10.936	
9,400.00	9,386.47	14,469.00	10,026.54	32.95	84.49	79.14	-132.21	757.94	848.85	759.78	89.07	9.530	
9,500.00	9,486.47	14,469.00	10,026.54	33.30	84.49	79.14	-132.21	757.94	776.23	682.15	94.08	8.251	
9,600.00	9,586.47	14,469.00	10,026.54	33.65	84.49	79.14	-132.21	757.94	710.29	610.60	99.70	7.125	
9,700.00	9,686.47	14,469.00	10,026.54	34.00	84.49	79.14	-132.21	757.94	653.07	547.39	105.68	6.180	
9,800.00	9,786.47	14,469.00	10,026.54	34.35	84.49	79.14	-132.21	757.94	607.03	495.54	111.50	5.444	
9,900.00	9,886.43	14,469.00	10,026.54	34.71	84.49	81.04	-132.21	757.94	574.60	458.29	116.31	4.940	
10,000.00	9,984.97	14,469.00	10,026.54	35.05	84.49	82.90	-132.21	757.94	556.19	437.00	119.19	4.666	
10,068.29	10,049.96	14,469.00	10,026.54	35.27	84.49	83.27	-132.21	757.94	552.47	432.81	119.66	4.617	SF
10,100.00	10,079.19	14,469.00	10,026.54	35.37	84.49	83.19	-132.21	757.94	553.27	433.84	119.43	4.633	
10,200.00	10,166.23	14,456.71	10,026.05	35.65	84.29	80.83	-119.94	757.42	566.03	449.08	116.95	4.840	
10,300.00	10,243.43	14,398.82	10,023.65	35.91	83.36	73.89	-62.15	755.03	589.08	476.31	112.77	5.224	
10,400.00	10,308.47	14,333.04	10,020.09	36.13	82.29	66.94	3.48	752.54	616.37	508.16	108.21	5.696	
10,500.00	10,359.35	14,256.00	10,014.46	36.31	81.05	60.66	80.27	749.89	643.33	539.39	103.95	6.189	
10,600.00	10,394.53	14,166.19	10,006.88	36.45	79.60	55.71	169.70	746.56	665.42	565.09	100.32	6.633	
10,700.00	10,416.72	14,052.33	9,998.85	36.57	77.76	52.54	283.14	741.06	679.87	582.55	97.31	6.986	
10,800.00	10,430.32	13,956.85	9,993.04	36.67	76.21	50.75	378.31	736.11	688.94	594.01	94.93	7.257	
10,900.00	10,435.22	13,837.62	9,986.54	36.76	74.28	49.57	497.16	729.23	692.08	599.21	92.87	7.452	
11,000.00	10,431.41	13,686.48	9,983.24	36.87	71.78	49.26	647.39	713.32	683.82	593.01	90.81	7.530	
11,100.00	10,423.12	13,585.15	9,982.73	37.00	70.10	49.03	747.69	698.95	668.84	579.39	89.45	7.477	
11,200.00	10,414.83	13,482.67	9,982.04	37.15	68.40	48.72	849.01	683.57	653.37	565.33	88.05	7.421	
11,300.00	10,406.54	13,384.56	9,982.07	37.31	66.77	48.46	946.04	669.07	637.63	550.86	86.77	7.349	
11,400.00	10,398.24	13,290.13	9,980.68	37.49	65.21	48.08	1,039.36	654.73	622.57	537.11	85.47	7.284	
11,500.00	10,389.95	13,182.23	9,978.46	37.68	63.43	47.47	1,145.71	636.62	606.76	522.90	83.86	7.235	
11,600.00	10,381.66	13,087.06	9,977.67	37.89	61.85	47.01	1,239.59	621.02	590.49	507.93	82.56	7.152	
11,700.00	10,373.37	13,001.60	9,975.85	38.12	60.45	46.54	1,323.99	607.79	575.82	494.40	81.42	7.072	
11,800.00	10,365.07	12,919.21	9,971.66	38.35	59.10	45.97	1,405.42	595.95	563.98	483.74	80.24	7.029	
11,900.00	10,356.78	12,823.77	9,965.49	38.60	57.55	45.23	1,499.78	583.08	553.84	474.98	78.86	7.023	
12,000.00	10,348.49	12,738.55	9,958.73	38.87	56.17	44.52	1,584.04	572.31	545.44	467.82	77.62	7.027	
12,100.00	10,340.20	12,624.81	9,950.33	39.15	54.33	43.62	1,696.61	558.36	536.99	460.94	76.05	7.061	
12,200.00	10,331.90	12,523.57	9,944.26	39.44	52.68	42.86	1,796.84	545.44	527.31	452.61	74.71	7.058	
12,300.00	10,323.61	12,416.99	9,938.07	39.74	50.95	41.98	1,902.28	531.21	517.23	443.94	73.29	7.057	
12,400.00	10,315.32	12,304.50	9,935.82	40.06	49.15	41.36	2,013.75	516.37	504.44	432.42	72.02	7.004	
12,500.00	10,307.03	12,202.37	9,935.31	40.39	47.52	40.85	2,114.94	502.57	490.42	419.43	70.99	6.909	
12,600.00	10,298.73	12,105.84	9,935.07	40.73	45.99	40.36	2,210.59	489.54	476.26	406.19	70.07	6.797	
12,700.00	10,290.44	12,010.86	9,934.01	41.08	44.50	39.81	2,304.74	477.02	463.00	393.82	69.18	6.693	
12,800.00	10,282.15	11,914.20	9,932.29	41.45	42.99	39.20	2,400.58	464.59	450.49	382.21	68.28	6.597	
12,900.00	10,273.86	11,811.80	9,930.17	41.82	41.39	38.46	2,502.06	451.09	438.08	370.77	67.31	6.509	
13,000.00	10,265.56	11,711.65	9,928.18	42.21	39.84	37.57	2,601.15	436.68	424.93	358.60	66.33	6.406	
13,100.00	10,257.27	11,620.85	9,925.58	42.61	38.45	36.65	2,690.97	423.69	412.65	347.14	65.51	6.299	
13,200.00	10,248.98	11,527.41	9,920.12	43.01	37.03	35.35	2,783.20	409.73	402.51	337.95	64.56	6.235	
13,300.00	10,240.69	11,425.21	9,912.86	43.43	35.49	33.60	2,883.79	393.21	393.00	329.59	63.41	6.198	
13,400.00	10,232.40	11,314.30	9,906.06	43.85	33.84	31.34	2,992.56	372.60	381.76	319.70	62.06	6.151	
13,500.00	10,224.10	11,214.75	9,901.59	44.29	32.38	29.19	3,090.10	353.23	369.19	308.16	61.03	6.049	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) ALBATROSS STATE COM 001H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-NS-GYRO-MS, 7863-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	10,215.81	11,115.84	9,897.76	44.73	30.96	27.03	3,187.15	334.51	356.87	296.72	60.15	5.933	
13,700.00	10,207.52	11,018.23	9,894.40	45.19	29.58	24.91	3,283.09	316.88	345.06	285.63	59.43	5.806	
13,800.00	10,199.23	10,922.57	9,891.20	45.65	28.27	22.92	3,377.37	301.02	334.25	275.33	58.92	5.673	
13,900.00	10,190.93	10,828.06	9,886.99	46.12	27.02	20.89	3,470.59	286.04	325.17	266.63	58.54	5.555	
14,000.00	10,182.64	10,727.47	9,882.64	46.60	25.73	18.79	3,569.97	271.12	316.77	258.58	58.19	5.443	
14,100.00	10,174.35	10,629.81	9,879.13	47.08	24.53	16.88	3,666.64	257.69	308.44	250.39	58.04	5.314	
14,200.00	10,166.06	10,538.36	9,874.37	47.58	23.47	15.17	3,757.27	246.48	302.38	244.27	58.11	5.204	
14,300.00	10,157.76	10,440.59	9,867.94	48.08	22.39	13.60	3,854.31	236.51	298.45	240.25	58.20	5.128	
14,400.00	10,149.47	10,332.24	9,863.11	48.58	21.27	12.28	3,962.16	227.39	293.06	234.85	58.21	5.035	
14,500.00	10,141.18	10,240.00	9,859.53	49.10	20.42	11.25	4,054.06	220.24	287.41	228.81	58.60	4.905	
14,566.29	10,135.68	10,185.13	9,855.54	49.44	19.96	10.50	4,108.59	215.74	285.90	227.04	58.86	4.857	CC, ES
14,600.00	10,132.89	10,158.01	9,852.60	49.62	19.74	10.06	4,135.44	213.36	286.29	227.29	59.00	4.853	
14,700.00	10,124.59	10,067.69	9,840.07	50.15	19.07	8.61	4,224.57	205.84	290.66	231.24	59.42	4.892	
14,800.00	10,116.30	9,997.96	9,826.71	50.68	18.64	7.69	4,292.83	201.41	301.01	240.92	60.09	5.009	
14,900.00	10,108.01	9,935.81	9,808.41	51.22	18.33	6.82	4,352.09	197.83	322.03	261.38	60.65	5.309	
15,000.00	10,099.72	9,894.00	9,791.21	51.77	18.15	6.04	4,390.03	194.68	355.77	294.82	60.95	5.837	
15,100.00	10,091.42	9,842.13	9,763.86	52.32	17.97	4.91	4,433.79	189.84	401.19	340.12	61.07	6.569	
15,200.00	10,083.13	9,800.00	9,738.16	52.87	17.86	4.04	4,466.92	185.80	455.44	394.39	61.04	7.461	
15,300.00	10,074.84	9,749.61	9,704.53	53.44	17.76	3.06	4,504.08	180.72	515.96	454.88	61.07	8.448	
15,400.00	10,066.55	9,705.00	9,672.41	54.00	17.70	2.33	4,534.73	176.46	581.81	520.76	61.05	9.529	
15,500.00	10,058.26	9,673.00	9,647.99	54.57	17.66	1.92	4,555.25	173.96	652.17	591.27	60.90	10.709	
15,600.00	10,049.96	9,641.00	9,622.38	55.15	17.63	1.61	4,574.33	171.98	726.57	665.79	60.77	11.956	
15,700.00	10,041.67	9,619.56	9,604.62	55.73	17.61	1.45	4,586.28	170.93	804.21	743.67	60.54	13.283	
15,800.00	10,033.38	9,594.11	9,582.97	56.32	17.60	1.29	4,599.64	169.92	884.60	824.20	60.40	14.645	
15,900.00	10,025.09	9,577.00	9,568.15	56.91	17.59	1.20	4,608.15	169.32	967.22	907.03	60.19	16.069	
16,000.00	10,016.79	9,545.00	9,539.85	57.51	17.57	1.06	4,623.06	168.31	1,051.57	991.38	60.19	17.471	
16,100.00	10,008.50	9,528.73	9,525.22	58.10	17.56	0.99	4,630.13	167.80	1,137.53	1,077.50	60.03	18.950	
16,200.00	10,000.21	9,513.00	9,510.90	58.71	17.55	0.92	4,636.64	167.26	1,224.87	1,164.98	59.89	20.452	
16,300.00	9,991.92	9,494.98	9,494.33	59.31	17.55	0.84	4,643.69	166.60	1,313.40	1,253.59	59.80	21.962	
16,400.00	9,983.62	9,482.00	9,482.28	59.92	17.54	0.78	4,648.47	166.11	1,402.99	1,343.30	59.68	23.508	
16,500.00	9,975.33	9,466.79	9,468.04	60.54	17.54	0.71	4,653.78	165.49	1,493.48	1,433.88	59.61	25.056	
16,600.00	9,967.04	9,450.00	9,452.19	61.16	17.53	0.63	4,659.28	164.76	1,584.79	1,525.23	59.56	26.608	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) ALBATROSS STATE COM 002H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 9783-3_MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,200.00	9,186.47	14,962.00	10,460.78	32.24	79.12	-84.76	-148.54	-757.18	1,602.47	1,520.01	82.46	19.433	
9,300.00	9,286.47	14,962.00	10,460.78	32.59	79.12	-84.76	-148.54	-757.18	1,524.15	1,439.34	84.82	17.970	
9,400.00	9,386.47	14,962.00	10,460.78	32.95	79.12	-84.76	-148.54	-757.18	1,448.51	1,361.14	87.37	16.579	
9,500.00	9,486.47	14,962.00	10,460.78	33.30	79.12	-84.76	-148.54	-757.18	1,375.98	1,285.85	90.13	15.266	
9,600.00	9,586.47	14,962.00	10,460.78	33.65	79.12	-84.76	-148.54	-757.18	1,307.08	1,213.99	93.09	14.042	
9,700.00	9,686.47	14,962.00	10,460.78	34.00	79.12	-84.76	-148.54	-757.18	1,242.42	1,146.21	96.21	12.914	
9,800.00	9,786.47	14,962.00	10,460.78	34.35	79.12	-84.76	-148.54	-757.18	1,182.68	1,083.23	99.45	11.892	
9,900.00	9,886.43	14,962.00	10,460.78	34.71	79.12	-86.83	-148.54	-757.18	1,128.54	1,025.79	102.75	10.984	
10,000.00	9,984.97	14,962.00	10,460.78	35.05	79.12	-92.33	-148.54	-757.18	1,080.37	974.38	105.99	10.193	
10,100.00	10,079.19	14,962.00	10,460.78	35.37	79.12	-96.70	-148.54	-757.18	1,040.26	931.29	108.96	9.547	
10,200.00	10,166.23	14,962.00	10,460.78	35.65	79.12	-99.80	-148.54	-757.18	1,010.43	899.02	111.41	9.069	
10,300.00	10,243.43	14,962.00	10,460.78	35.91	79.12	-101.57	-148.54	-757.18	992.76	879.68	113.08	8.779	
10,400.00	10,308.47	14,906.11	10,458.85	36.13	78.38	-100.00	-92.99	-763.01	986.96	873.49	113.47	8.698	SF
10,462.87	10,342.22	14,838.64	10,458.28	36.24	77.49	-97.90	-25.80	-769.08	986.48	873.36	113.12	8.721	ES
10,500.00	10,359.35	14,784.82	10,459.91	36.31	76.78	-96.52	27.87	-772.76	986.60	873.91	112.68	8.755	
10,600.00	10,394.53	14,661.84	10,466.48	36.45	75.19	-94.34	150.58	-777.27	986.22	874.75	111.47	8.847	
10,600.87	10,394.77	14,660.93	10,466.54	36.46	75.18	-94.33	151.49	-777.29	986.22	874.76	111.46	8.848	CC
10,700.00	10,416.72	14,557.30	10,471.30	36.57	73.84	-93.26	254.97	-779.81	986.41	876.08	110.33	8.941	
10,800.00	10,430.32	14,456.69	10,470.22	36.67	72.55	-92.37	355.53	-782.16	986.95	877.76	109.18	9.039	
10,900.00	10,435.22	14,388.37	10,467.23	36.76	71.67	-91.87	423.73	-784.64	989.28	880.90	108.38	9.128	
11,000.00	10,431.41	14,317.25	10,464.84	36.87	70.76	-91.58	494.61	-789.93	995.54	888.05	107.48	9.262	
11,100.00	10,423.12	14,224.24	10,460.35	37.00	69.57	-91.75	587.14	-798.18	1,003.43	897.03	106.39	9.431	
11,200.00	10,414.83	14,126.31	10,452.33	37.15	68.32	-91.74	684.31	-807.39	1,011.77	906.48	105.29	9.610	
11,300.00	10,406.54	14,018.22	10,443.31	37.31	66.95	-91.72	791.57	-817.29	1,019.87	915.75	104.11	9.796	
11,400.00	10,398.24	13,909.66	10,435.01	37.49	65.59	-91.74	899.46	-825.96	1,026.78	923.82	102.96	9.973	
11,500.00	10,389.95	13,811.83	10,427.75	37.68	64.37	-91.78	996.73	-833.53	1,033.48	931.55	101.93	10.139	
11,600.00	10,381.66	13,701.39	10,421.66	37.89	63.01	-91.94	1,106.68	-841.90	1,040.10	939.29	100.80	10.318	
11,700.00	10,373.37	13,569.52	10,415.68	38.12	61.40	-92.20	1,238.22	-848.95	1,044.55	945.06	99.48	10.500	
11,800.00	10,365.07	13,431.62	10,411.46	38.35	59.75	-92.59	1,376.02	-851.37	1,045.41	947.32	98.09	10.658	
11,900.00	10,356.78	13,322.22	10,408.40	38.60	58.46	-92.93	1,485.37	-850.57	1,043.85	946.81	97.04	10.757	
12,000.00	10,348.49	13,231.86	10,404.97	38.87	57.41	-93.15	1,575.67	-850.10	1,042.50	946.25	96.25	10.831	
12,086.63	10,341.31	13,153.20	10,402.65	39.11	56.50	-93.39	1,654.29	-850.44	1,042.21	946.64	95.57	10.905	
12,100.00	10,340.20	13,140.83	10,402.31	39.15	56.36	-93.42	1,666.65	-850.54	1,042.21	946.75	95.46	10.917	
12,200.00	10,331.90	13,037.68	10,398.87	39.44	55.18	-93.71	1,769.74	-851.44	1,042.33	947.76	94.57	11.022	
12,300.00	10,323.61	12,923.00	10,392.29	39.74	53.88	-93.87	1,884.23	-851.48	1,041.46	947.89	93.57	11.130	
12,400.00	10,315.32	12,827.00	10,386.26	40.06	52.82	-93.98	1,980.04	-851.06	1,040.10	947.27	92.83	11.205	
12,435.96	10,312.34	12,803.63	10,384.90	40.18	52.56	-94.02	2,003.37	-851.15	1,039.90	947.21	92.69	11.220	
12,500.00	10,307.03	12,760.13	10,382.29	40.39	52.09	-94.07	2,046.79	-851.98	1,040.53	948.13	92.40	11.261	
12,600.00	10,298.73	12,674.77	10,377.43	40.73	51.16	-94.18	2,131.94	-855.37	1,043.56	951.76	91.80	11.368	
12,700.00	10,290.44	12,566.13	10,373.33	41.08	49.99	-94.44	2,240.41	-859.61	1,046.73	955.75	90.99	11.504	
12,800.00	10,282.15	12,455.74	10,368.83	41.45	48.84	-94.68	2,350.67	-862.65	1,048.74	958.55	90.20	11.627	
12,900.00	10,273.86	12,349.65	10,365.06	41.82	47.75	-94.95	2,456.67	-864.72	1,050.01	960.53	89.48	11.735	
13,000.00	10,265.56	12,248.05	10,363.75	42.21	46.74	-95.34	2,558.24	-866.12	1,050.95	962.12	88.84	11.830	
13,100.00	10,257.27	12,144.36	10,362.89	42.61	45.73	-95.76	2,661.93	-867.28	1,051.72	963.51	88.21	11.923	
13,200.00	10,248.98	12,030.62	10,358.60	43.01	44.66	-96.04	2,775.58	-867.95	1,051.71	964.18	87.53	12.015	
13,300.00	10,240.69	11,905.63	10,351.23	43.43	43.52	-96.22	2,900.34	-866.65	1,049.90	963.09	86.81	12.094	
13,400.00	10,232.40	11,803.34	10,345.95	43.85	42.63	-96.42	3,002.45	-863.78	1,046.37	960.03	86.34	12.120	
13,500.00	10,224.10	11,714.90	10,343.87	44.29	41.89	-96.72	3,090.83	-861.59	1,043.53	957.51	86.02	12.132	
13,600.00	10,215.81	11,637.34	10,342.90	44.73	41.26	-97.03	3,168.38	-860.73	1,042.25	956.44	85.81	12.147	
13,601.76	10,215.66	11,636.06	10,342.89	44.74	41.25	-97.04	3,169.67	-860.74	1,042.25	956.45	85.80	12.147	
13,700.00	10,207.52	11,562.58	10,342.14	45.19	40.66	-97.33	3,243.13	-861.79	1,043.48	957.85	85.63	12.186	
13,800.00	10,199.23	11,480.32	10,340.46	45.65	40.03	-97.59	3,325.31	-864.87	1,046.90	961.48	85.42	12.256	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) ALBATROSS STATE COM 002H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 9783-3_MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,190.93	11,367.90	10,335.37	46.12	39.21	-97.79	3,437.51	-869.61	1,050.54	965.46	85.08	12.347	
14,000.00	10,182.64	11,247.41	10,326.57	46.60	38.40	-97.84	3,557.63	-873.04	1,052.42	967.65	84.77	12.415	
14,100.00	10,174.35	11,143.63	10,318.02	47.08	37.74	-97.84	3,661.04	-874.75	1,053.00	968.38	84.62	12.444	
14,200.00	10,166.06	11,047.30	10,311.90	47.58	37.18	-97.94	3,757.17	-876.27	1,053.76	969.22	84.55	12.464	
14,300.00	10,157.76	10,954.80	10,307.92	48.08	36.69	-98.13	3,849.56	-877.92	1,055.03	970.50	84.53	12.481	
14,400.00	10,149.47	10,858.68	10,304.09	48.58	36.21	-98.34	3,945.57	-880.23	1,056.97	972.41	84.56	12.500	
14,500.00	10,141.18	10,762.59	10,300.50	49.10	35.79	-98.57	4,041.57	-882.75	1,059.17	974.53	84.63	12.515	
14,600.00	10,132.89	10,658.24	10,295.79	49.62	35.39	-98.76	4,145.76	-885.74	1,061.52	976.77	84.75	12.525	
14,700.00	10,124.59	10,512.66	10,283.31	50.15	34.93	-98.74	4,290.62	-887.59	1,061.80	976.94	84.86	12.512	
14,800.00	10,116.30	10,354.10	10,232.19	50.68	34.59	-96.69	4,440.30	-886.43	1,056.45	971.29	85.16	12.405	
14,900.00	10,108.01	10,248.15	10,175.70	51.22	34.48	-94.04	4,529.63	-885.42	1,049.49	963.85	85.65	12.254	
15,000.00	10,099.72	10,174.90	10,126.44	51.77	34.45	-91.61	4,583.79	-885.14	1,044.43	958.27	86.16	12.122	
15,057.28	10,094.97	10,137.20	10,099.10	52.08	34.44	-90.23	4,609.74	-885.44	1,043.64	957.21	86.43	12.075	
15,100.00	10,091.42	10,108.18	10,076.89	52.32	34.43	-89.10	4,628.41	-885.73	1,044.09	957.49	86.60	12.056	
15,200.00	10,083.13	10,035.78	10,017.51	52.87	34.41	-86.04	4,669.74	-886.03	1,048.84	961.95	86.89	12.071	
15,300.00	10,074.84	9,990.70	9,977.87	53.44	34.39	-83.98	4,691.17	-885.50	1,059.48	972.40	87.08	12.167	
15,400.00	10,066.55	9,961.43	9,950.86	54.00	34.39	-82.57	4,702.40	-885.03	1,077.68	990.55	87.13	12.369	
15,500.00	10,058.26	9,943.00	9,933.41	54.57	34.38	-81.66	4,708.31	-884.66	1,103.67	1,016.64	87.03	12.681	
15,600.00	10,049.96	9,920.69	9,911.95	55.15	34.38	-80.53	4,714.39	-884.17	1,137.20	1,050.43	86.77	13.106	
15,700.00	10,041.67	9,909.00	9,900.59	55.73	34.38	-79.93	4,717.14	-883.92	1,177.86	1,091.46	86.40	13.633	
15,800.00	10,033.38	9,892.54	9,884.49	56.32	34.37	-79.09	4,720.50	-883.52	1,224.99	1,139.06	85.93	14.255	
15,900.00	10,025.09	9,878.00	9,870.16	56.91	34.37	-78.34	4,722.99	-883.13	1,277.99	1,192.58	85.41	14.963	
16,000.00	10,016.79	9,878.00	9,870.16	57.51	34.37	-78.34	4,722.99	-883.13	1,336.20	1,251.35	84.86	15.747	
16,100.00	10,008.50	9,861.93	9,854.26	58.10	34.37	-77.51	4,725.28	-882.64	1,398.93	1,314.64	84.29	16.597	
16,200.00	10,000.21	9,846.00	9,838.45	58.71	34.37	-76.69	4,727.12	-882.12	1,465.76	1,382.03	83.73	17.506	
16,300.00	9,991.92	9,846.00	9,838.45	59.31	34.37	-76.69	4,727.12	-882.12	1,536.00	1,452.81	83.18	18.465	
16,400.00	9,983.62	9,846.00	9,838.45	59.92	34.37	-76.69	4,727.12	-882.12	1,609.39	1,526.73	82.66	19.471	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) BLACK JACK STATE 001 - Verticals - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
21,700.00	9,544.13	9,472.50	9,457.45	95.66	34.27	93.02	12,724.64	755.82	1,630.57	1,542.01	88.56	18.413	
21,800.00	9,535.84	9,467.22	9,452.18	96.37	34.26	92.58	12,724.41	755.64	1,540.41	1,450.17	90.24	17.070	
21,900.00	9,527.54	9,462.12	9,447.08	97.09	34.24	92.16	12,724.19	755.45	1,451.52	1,359.37	92.16	15.751	
22,000.00	9,519.25	9,457.17	9,442.15	97.80	34.23	91.74	12,723.97	755.28	1,364.16	1,269.82	94.34	14.460	
22,100.00	9,510.96	9,452.38	9,437.36	98.52	34.22	91.34	12,723.76	755.10	1,278.64	1,181.80	96.83	13.205	
22,200.00	9,502.67	9,447.73	9,432.72	99.23	34.21	90.95	12,723.55	754.93	1,195.35	1,095.68	99.67	11.993	
22,300.00	9,494.37	9,443.23	9,428.23	99.95	34.20	90.58	12,723.34	754.77	1,114.80	1,011.91	102.89	10.835	
22,400.00	9,486.08	9,438.86	9,423.86	100.67	34.19	90.21	12,723.14	754.60	1,037.62	931.11	106.51	9.742	
22,500.00	9,477.79	9,434.61	9,419.63	101.39	34.18	89.86	12,722.94	754.44	964.62	854.09	110.53	8.727	
22,600.00	9,469.50	9,430.49	9,415.51	102.11	34.16	89.51	12,722.74	754.29	896.83	781.92	114.91	7.805	
22,700.00	9,461.20	9,426.49	9,411.51	102.83	34.15	89.18	12,722.55	754.13	835.52	716.01	119.51	6.991	
22,800.00	9,452.91	9,422.59	9,407.63	103.55	34.15	88.85	12,722.36	753.98	782.21	658.10	124.11	6.303	
22,900.00	9,444.62	9,418.81	9,403.85	104.27	34.14	88.53	12,722.17	753.83	738.64	610.31	128.33	5.756	
23,000.00	9,436.33	9,415.13	9,400.18	104.99	34.13	88.22	12,721.99	753.69	706.61	574.90	131.71	5.365	
23,100.00	9,428.04	9,411.55	9,396.60	105.72	34.12	87.92	12,721.81	753.55	687.73	553.97	133.76	5.141	
23,181.74	9,421.26	9,408.69	9,393.75	106.31	34.11	87.68	12,721.67	753.44	682.87	548.64	134.22	5.088	CC, ES, SF
23,200.00	9,419.74	9,408.06	9,393.12	106.44	34.11	87.63	12,721.63	753.41	683.11	548.94	134.17	5.091	
23,300.00	9,411.45	9,408.00	9,393.07	107.17	34.11	87.63	12,721.63	753.41	693.03	560.13	132.90	5.215	
23,400.00	9,403.16	9,401.85	9,386.93	107.89	34.09	87.11	12,721.32	753.17	716.86	586.61	130.26	5.504	
23,500.00	9,394.87	9,398.55	9,383.63	108.62	34.09	86.83	12,721.16	753.04	753.32	626.65	126.67	5.947	
23,600.00	9,386.57	9,395.10	9,380.19	109.34	34.08	86.54	12,721.00	752.91	800.66	678.05	122.62	6.530	
23,700.00	9,378.28	9,391.48	9,376.58	110.07	34.07	86.24	12,720.83	752.77	857.09	738.63	118.46	7.235	
23,800.00	9,369.99	9,387.69	9,372.80	110.80	34.06	85.92	12,720.65	752.63	920.94	806.47	114.46	8.046	
23,900.00	9,361.70	9,383.72	9,368.83	111.53	34.05	85.59	12,720.47	752.48	990.77	880.01	110.75	8.946	
24,000.00	9,353.40	9,379.55	9,364.67	112.26	34.04	85.24	12,720.28	752.33	1,065.40	958.01	107.39	9.921	
24,100.00	9,345.11	9,375.16	9,360.29	112.99	34.03	84.88	12,720.09	752.18	1,143.90	1,039.50	104.40	10.957	
24,200.00	9,336.82	9,370.55	9,355.68	113.72	34.02	84.49	12,719.89	752.02	1,225.52	1,123.77	101.75	12.045	
24,300.00	9,328.53	9,365.68	9,350.82	114.45	34.01	84.08	12,719.69	751.85	1,309.68	1,210.26	99.42	13.173	
24,400.00	9,320.23	9,360.55	9,345.69	115.18	33.99	83.65	12,719.48	751.68	1,395.91	1,298.53	97.38	14.335	
24,500.00	9,311.94	9,355.12	9,340.27	115.91	33.98	83.20	12,719.27	751.51	1,483.85	1,388.26	95.59	15.523	
24,600.00	9,303.65	9,349.37	9,334.53	116.64	33.97	82.72	12,719.05	751.32	1,573.22	1,479.20	94.03	16.732	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) BLACK JACK STATE 002 - Verticals - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,200.00	9,502.67	9,521.89	9,502.67	99.23	171.00	-92.87	12,563.83	-1,316.34	1,623.53	1,364.62	258.91	6.271	
22,300.00	9,494.37	9,513.60	9,494.37	99.95	170.79	-92.53	12,563.83	-1,316.34	1,574.25	1,312.83	261.42	6.022	
22,400.00	9,486.08	9,505.31	9,486.08	100.67	170.58	-92.19	12,563.83	-1,316.34	1,529.89	1,265.99	263.90	5.797	
22,500.00	9,477.79	9,497.01	9,477.79	101.39	170.37	-91.85	12,563.83	-1,316.34	1,490.87	1,224.60	266.26	5.599	
22,600.00	9,469.50	9,488.72	9,469.50	102.11	170.16	-91.51	12,563.83	-1,316.34	1,457.63	1,189.17	268.47	5.429	
22,700.00	9,461.20	9,480.43	9,461.20	102.83	169.95	-91.17	12,563.83	-1,316.34	1,430.58	1,160.14	270.43	5.290	
22,800.00	9,452.91	9,472.14	9,452.91	103.55	169.74	-90.83	12,563.83	-1,316.34	1,410.06	1,137.97	272.10	5.182	
22,900.00	9,444.62	9,463.84	9,444.62	104.27	169.53	-90.49	12,563.83	-1,316.34	1,396.38	1,122.98	273.40	5.107	
23,000.00	9,436.33	9,455.55	9,436.33	104.99	169.32	-90.15	12,563.83	-1,316.34	1,389.72	1,115.43	274.29	5.067	
23,043.39	9,432.73	9,451.95	9,432.73	105.31	169.23	-90.00	12,563.83	-1,316.34	1,389.05	1,114.51	274.53	5.060	CC, ES, SF
23,100.00	9,428.04	9,447.26	9,428.04	105.72	169.11	-89.81	12,563.83	-1,316.34	1,390.19	1,115.46	274.73	5.060	
23,200.00	9,419.74	9,438.97	9,419.74	106.44	168.90	-89.47	12,563.83	-1,316.34	1,397.79	1,123.07	274.72	5.088	
23,300.00	9,411.45	9,430.67	9,411.45	107.17	168.69	-89.13	12,563.83	-1,316.34	1,412.39	1,138.12	274.27	5.150	
23,400.00	9,403.16	9,418.73	9,399.57	107.89	168.42	-88.64	12,563.93	-1,316.34	1,433.77	1,160.42	273.35	5.245	
23,500.00	9,394.87	9,410.17	9,391.01	108.62	168.23	-88.29	12,564.01	-1,316.34	1,461.63	1,189.48	272.15	5.371	
23,600.00	9,386.57	9,401.89	9,382.73	109.34	168.04	-87.95	12,564.07	-1,316.34	1,495.62	1,224.96	270.66	5.526	
23,700.00	9,378.28	9,393.86	9,374.71	110.07	167.87	-87.62	12,564.12	-1,316.34	1,535.34	1,266.41	268.92	5.709	
23,800.00	9,369.99	9,386.09	9,366.93	110.80	167.70	-87.30	12,564.15	-1,316.34	1,580.35	1,313.33	267.01	5.919	
23,900.00	9,361.70	9,378.55	9,359.39	111.53	167.53	-86.99	12,564.18	-1,316.34	1,630.21	1,365.23	264.98	6.152	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) BLACK JACK STATE 003 - Verticals - Surveys

Offset Site Error: 0.00 usft

Survey Program: 243-3_INC-Only, 1797-MWD OWSG Rev5, 4047-INC-ONLY, 4548-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
20,300.00	9,660.22	9,626.94	9,614.05	85.78	47.34	97.40	11,339.56	682.07	1,603.86	1,507.93	95.94	16.718	
20,400.00	9,651.93	9,621.68	9,608.79	86.48	47.34	96.90	11,339.43	681.97	1,511.61	1,414.45	97.16	15.558	
20,500.00	9,643.64	9,616.34	9,603.45	87.17	47.33	96.40	11,339.30	681.88	1,420.38	1,321.80	98.58	14.409	
20,600.00	9,635.34	9,610.92	9,598.04	87.88	47.32	95.88	11,339.18	681.79	1,330.38	1,230.15	100.23	13.273	
20,700.00	9,627.05	9,605.43	9,592.55	88.58	47.32	95.36	11,339.06	681.70	1,241.89	1,139.73	102.17	12.155	
20,800.00	9,618.76	9,599.85	9,586.97	89.28	47.31	94.83	11,338.93	681.60	1,155.26	1,050.81	104.44	11.061	
20,900.00	9,610.47	9,594.19	9,581.32	89.99	47.30	94.29	11,338.81	681.51	1,070.92	963.80	107.11	9.998	
21,000.00	9,602.18	9,588.45	9,575.58	90.69	47.30	93.75	11,338.69	681.41	989.46	879.21	110.25	8.975	
21,100.00	9,593.88	9,582.62	9,569.75	91.40	47.29	93.19	11,338.56	681.31	911.67	797.76	113.91	8.004	
21,200.00	9,585.59	9,576.71	9,563.84	92.11	47.28	92.62	11,338.44	681.21	838.56	720.43	118.12	7.099	
21,300.00	9,577.30	9,570.70	9,557.83	92.81	47.28	92.05	11,338.32	681.12	771.45	648.58	122.87	6.278	
21,400.00	9,569.01	9,564.60	9,551.73	93.52	47.27	91.46	11,338.21	681.02	712.05	584.03	128.01	5.562	
21,500.00	9,560.71	9,558.41	9,545.54	94.23	47.26	90.87	11,338.09	680.91	662.43	529.20	133.23	4.972	
21,600.00	9,552.42	9,554.00	9,541.14	94.95	47.26	90.44	11,338.01	680.84	624.93	486.95	137.98	4.529	
21,700.00	9,544.13	9,546.00	9,533.14	95.66	47.25	89.68	11,337.86	680.72	601.81	460.28	141.53	4.252	
21,792.38	9,536.47	9,540.23	9,527.37	96.32	47.24	89.12	11,337.76	680.63	594.70	451.53	143.17	4.154	CC
21,800.00	9,535.84	9,539.75	9,526.89	96.37	47.24	89.07	11,337.75	680.62	594.75	451.53	143.23	4.153	ES, SF
21,900.00	9,527.54	9,533.42	9,520.56	97.09	47.24	88.47	11,337.65	680.53	604.32	461.55	142.78	4.233	
22,000.00	9,519.25	9,527.00	9,514.15	97.80	47.23	87.85	11,337.54	680.43	629.76	489.34	140.42	4.485	
22,100.00	9,510.96	9,520.50	9,507.65	98.52	47.22	87.22	11,337.43	680.34	669.26	532.50	136.76	4.894	
22,200.00	9,502.67	9,513.92	9,501.06	99.23	47.21	86.59	11,337.33	680.26	720.50	588.03	132.47	5.439	
22,300.00	9,494.37	9,507.24	9,494.39	99.95	47.21	85.95	11,337.23	680.17	781.19	653.10	128.09	6.099	
22,400.00	9,486.08	9,500.48	9,487.63	100.67	47.20	85.31	11,337.13	680.09	849.29	725.35	123.94	6.853	
22,500.00	9,477.79	9,493.62	9,480.78	101.39	47.19	84.65	11,337.03	680.01	923.16	802.98	120.18	7.681	
22,600.00	9,469.50	9,486.68	9,473.83	102.11	47.19	83.99	11,336.93	679.93	1,001.54	884.67	116.87	8.570	
22,700.00	9,461.20	9,479.64	9,466.79	102.83	47.18	83.32	11,336.84	679.85	1,083.44	969.44	113.99	9.505	
22,800.00	9,452.91	9,472.50	9,459.65	103.55	47.17	82.64	11,336.74	679.78	1,168.11	1,056.61	111.51	10.476	
22,900.00	9,444.62	9,465.26	9,452.41	104.27	47.16	81.95	11,336.65	679.71	1,255.00	1,145.64	109.37	11.475	
23,000.00	9,436.33	9,457.92	9,445.08	104.99	47.15	81.26	11,336.56	679.64	1,343.68	1,236.15	107.53	12.496	
23,100.00	9,428.04	9,450.48	9,437.63	105.72	47.15	80.56	11,336.48	679.58	1,433.82	1,327.86	105.95	13.533	
23,200.00	9,419.74	9,442.93	9,430.09	106.44	47.14	79.86	11,336.40	679.52	1,525.14	1,420.55	104.59	14.582	
23,300.00	9,411.45	9,435.28	9,422.43	107.17	47.13	79.14	11,336.32	679.46	1,617.46	1,514.05	103.41	15.641	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) IRONHOUSE 19 STATE COM 002H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 9214-MWD OWSG Rev5

Offset Well Error: 0.00 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	Rule Assigned: Warning
14,500.00	10,141.18	9,402.00	9,396.20	49.10	32.70	38.74	5,467.56	651.77	1,661.07	1,593.75	67.33	24.671	
14,600.00	10,132.89	9,402.00	9,396.20	49.62	32.70	38.74	5,467.56	651.77	1,574.29	1,506.84	67.45	23.339	
14,700.00	10,124.59	9,414.40	9,407.04	50.15	32.71	39.29	5,473.56	652.33	1,488.94	1,421.23	67.71	21.989	
14,800.00	10,116.30	9,433.00	9,422.95	50.68	32.72	40.11	5,483.16	653.08	1,405.34	1,337.26	68.08	20.643	
14,900.00	10,108.01	9,433.00	9,422.95	51.22	32.72	40.11	5,483.16	653.08	1,323.45	1,255.08	68.37	19.357	
15,000.00	10,099.72	9,450.14	9,437.23	51.77	32.74	40.86	5,492.62	653.69	1,243.80	1,174.93	68.88	18.059	
15,100.00	10,091.42	9,465.00	9,449.30	52.32	32.75	41.52	5,501.27	654.15	1,166.71	1,097.24	69.47	16.795	
15,200.00	10,083.13	9,481.01	9,461.94	52.87	32.76	42.23	5,511.09	654.58	1,092.58	1,022.40	70.19	15.567	
15,300.00	10,074.84	9,496.00	9,473.40	53.44	32.77	42.89	5,520.74	654.89	1,021.95	950.91	71.04	14.386	
15,400.00	10,066.55	9,528.00	9,496.53	54.00	32.79	44.25	5,542.84	655.13	955.41	883.25	72.16	13.240	
15,500.00	10,058.26	9,544.63	9,507.79	54.57	32.81	44.93	5,555.08	655.01	893.29	819.94	73.35	12.179	
15,600.00	10,049.96	9,575.84	9,527.55	55.15	32.83	46.16	5,579.22	654.39	836.38	761.61	74.78	11.185	
15,700.00	10,041.67	9,611.10	9,548.05	55.73	32.85	47.49	5,607.88	653.28	784.83	708.46	76.38	10.276	
15,800.00	10,033.38	9,654.00	9,570.32	56.32	32.87	49.05	5,644.52	652.40	739.72	661.58	78.14	9.467	
15,900.00	10,025.09	9,686.00	9,585.21	56.91	32.89	50.20	5,672.84	652.36	701.34	621.35	80.00	8.767	
16,000.00	10,016.79	9,754.97	9,613.02	57.51	32.92	52.44	5,735.91	651.04	668.56	586.65	81.91	8.162	
16,100.00	10,008.50	9,812.00	9,631.29	58.10	33.03	54.00	5,789.87	648.83	641.17	557.40	83.77	7.654	
16,200.00	10,000.21	9,875.00	9,647.16	58.71	33.23	55.53	5,850.81	647.09	619.84	534.28	85.56	7.245	
16,300.00	9,991.92	9,957.63	9,662.81	59.31	33.56	57.19	5,931.86	644.14	602.44	515.22	87.22	6.907	
16,400.00	9,983.62	10,025.43	9,669.89	59.92	33.86	58.10	5,999.20	641.03	589.37	500.60	88.77	6.639	
16,500.00	9,975.33	10,096.27	9,670.96	60.54	34.22	58.57	6,069.95	638.14	581.59	491.45	90.14	6.452	
16,600.00	9,967.04	10,189.11	9,667.71	61.16	34.76	58.82	6,162.66	634.69	576.84	485.46	91.37	6.313	
16,700.00	9,958.75	10,296.07	9,661.63	61.78	35.46	58.83	6,269.30	629.06	571.90	479.32	92.58	6.178	
16,800.00	9,950.45	10,398.22	9,654.80	62.40	36.19	58.68	6,371.00	622.47	566.46	472.67	93.80	6.039	
16,900.00	9,942.16	10,503.96	9,646.43	63.03	37.02	58.29	6,476.01	613.28	559.76	464.77	94.99	5.893	
17,000.00	9,933.87	10,599.97	9,637.67	63.66	37.82	57.78	6,571.19	604.37	553.24	457.02	96.21	5.750	
17,100.00	9,925.58	10,695.86	9,628.39	64.30	38.68	57.25	6,666.26	595.87	547.42	449.95	97.46	5.617	
17,200.00	9,917.29	10,791.34	9,618.84	64.93	39.58	56.71	6,760.94	588.05	542.38	443.64	98.75	5.493	
17,300.00	9,908.99	10,886.93	9,609.09	65.57	40.52	56.19	6,855.77	581.02	538.20	438.13	100.07	5.378	
17,400.00	9,900.70	10,984.81	9,598.85	66.22	41.52	55.67	6,952.88	574.42	534.72	433.30	101.42	5.273	
17,500.00	9,892.41	11,082.69	9,588.40	66.86	42.56	55.12	7,049.98	567.85	531.44	428.66	102.78	5.171	
17,600.00	9,884.12	11,183.41	9,577.58	67.51	43.67	54.58	7,149.92	561.57	528.64	424.47	104.17	5.075	
17,700.00	9,875.82	11,282.50	9,568.35	68.16	44.80	54.19	7,248.42	555.86	525.42	419.77	105.65	4.973	
17,800.00	9,867.53	11,376.63	9,559.55	68.81	45.90	53.88	7,342.03	551.34	523.02	415.86	107.16	4.881	
17,900.00	9,859.24	11,479.07	9,549.80	69.47	47.12	53.57	7,443.92	547.16	521.33	412.61	108.72	4.795	
18,000.00	9,850.95	11,589.95	9,540.16	70.13	48.49	53.21	7,554.21	541.17	518.11	407.81	110.30	4.697	
18,100.00	9,842.65	11,688.49	9,532.28	70.79	49.73	52.89	7,652.24	534.97	513.76	401.87	111.89	4.592	
18,200.00	9,834.36	11,788.88	9,524.35	71.45	51.01	52.60	7,752.14	529.04	509.68	396.17	113.51	4.490	
18,300.00	9,826.07	11,886.00	9,516.83	72.11	52.28	52.34	7,848.81	523.55	505.72	390.56	115.15	4.392	
18,400.00	9,817.78	11,984.95	9,509.48	72.78	53.59	52.15	7,947.37	518.73	502.18	385.33	116.85	4.298	
18,500.00	9,809.48	12,090.96	9,501.35	73.45	55.02	51.85	8,052.88	512.47	497.98	379.46	118.52	4.202	
18,600.00	9,801.19	12,186.15	9,493.16	74.12	56.31	51.45	8,147.51	506.27	493.91	373.79	120.12	4.112	
18,700.00	9,792.90	12,284.70	9,483.93	74.79	57.67	50.97	8,245.43	499.96	490.43	368.73	121.70	4.030	
18,800.00	9,784.61	12,383.63	9,475.06	75.47	59.05	50.56	8,343.79	494.19	487.17	363.86	123.31	3.951	
18,900.00	9,776.31	12,481.35	9,465.89	76.14	60.42	50.11	8,440.91	488.56	484.26	359.36	124.90	3.877	
19,000.00	9,768.02	12,578.91	9,455.83	76.82	61.80	49.57	8,537.78	482.83	481.90	355.46	126.44	3.811	
19,100.00	9,759.73	12,679.34	9,444.76	77.50	63.24	48.93	8,637.41	476.70	479.87	351.95	127.92	3.751	
19,200.00	9,751.44	12,778.20	9,435.51	78.18	64.66	48.51	8,735.70	471.58	477.50	347.97	129.53	3.686	
19,300.00	9,743.15	12,879.94	9,425.12	78.86	66.14	48.03	8,836.79	466.62	475.96	344.85	131.11	3.630	
19,400.00	9,734.85	12,986.10	9,416.64	79.55	67.69	47.70	8,942.46	461.05	472.63	339.83	132.80	3.559	
19,500.00	9,726.56	13,094.01	9,409.07	80.23	69.28	47.42	9,049.93	455.05	468.48	333.97	134.51	3.483	
19,600.00	9,718.27	13,197.91	9,403.93	80.92	70.82	47.31	9,153.52	448.82	462.59	326.27	136.32	3.393	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) IRONHOUSE 19 STATE COM 002H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 9214-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
19,700.00	9,709.98	13,296.71	9,399.06	81.61	72.30	47.18	9,252.00	442.64	456.50	318.36	138.13	3.305	
19,800.00	9,701.68	13,396.94	9,393.56	82.30	73.81	46.96	9,351.86	436.00	450.53	310.65	139.88	3.221	
19,900.00	9,693.39	13,493.52	9,387.61	82.99	75.27	46.66	9,448.03	429.38	444.85	303.26	141.59	3.142	
20,000.00	9,685.10	13,589.34	9,380.70	83.69	76.73	46.28	9,543.40	423.00	440.06	296.83	143.23	3.072	
20,100.00	9,676.81	13,689.54	9,372.57	84.38	78.25	45.74	9,643.01	415.87	435.60	290.85	144.75	3.009	
20,200.00	9,668.51	13,785.92	9,363.95	85.08	79.73	45.13	9,738.74	408.90	431.66	285.47	146.19	2.953	
20,265.41	9,663.09	13,836.00	9,359.31	85.54	80.49	44.80	9,788.48	405.35	429.61	282.52	147.09	2.921	CC, ES, SF
20,300.00	9,660.22	13,836.00	9,359.31	85.78	80.49	44.80	9,788.48	405.35	431.00	283.97	147.03	2.931	
20,400.00	9,651.93	13,836.00	9,359.31	86.48	80.49	44.80	9,788.48	405.35	450.20	307.05	143.14	3.145	
20,500.00	9,643.64	13,836.00	9,359.31	87.17	80.49	44.80	9,788.48	405.35	489.49	353.97	135.51	3.612	
20,600.00	9,635.34	13,836.00	9,359.31	87.88	80.49	44.80	9,788.48	405.35	544.53	417.87	126.66	4.299	
20,700.00	9,627.05	13,836.00	9,359.31	88.58	80.49	44.80	9,788.48	405.35	611.09	492.80	118.29	5.166	
20,800.00	9,618.76	13,836.00	9,359.31	89.28	80.49	44.80	9,788.48	405.35	685.82	574.72	111.10	6.173	
20,900.00	9,610.47	13,836.00	9,359.31	89.99	80.49	44.80	9,788.48	405.35	766.34	661.14	105.20	7.285	
21,000.00	9,602.18	13,836.00	9,359.31	90.69	80.49	44.80	9,788.48	405.35	850.99	750.56	100.43	8.473	
21,100.00	9,593.88	13,836.00	9,359.31	91.40	80.49	44.80	9,788.48	405.35	938.67	842.06	96.61	9.716	
21,200.00	9,585.59	13,836.00	9,359.31	92.11	80.49	44.80	9,788.48	405.35	1,028.60	935.06	93.54	10.996	
21,300.00	9,577.30	13,836.00	9,359.31	92.81	80.49	44.80	9,788.48	405.35	1,120.24	1,029.18	91.06	12.302	
21,400.00	9,569.01	13,836.00	9,359.31	93.52	80.49	44.80	9,788.48	405.35	1,213.20	1,124.16	89.04	13.625	
21,500.00	9,560.71	13,836.00	9,359.31	94.23	80.49	44.80	9,788.48	405.35	1,307.20	1,219.82	87.38	14.959	
21,600.00	9,552.42	13,836.00	9,359.31	94.95	80.49	44.80	9,788.48	405.35	1,402.03	1,316.02	86.02	16.300	
21,700.00	9,544.13	13,836.00	9,359.31	95.66	80.49	44.80	9,788.48	405.35	1,497.54	1,412.66	84.88	17.643	
21,800.00	9,535.84	13,836.00	9,359.31	96.37	80.49	44.80	9,788.48	405.35	1,593.59	1,509.66	83.93	18.988	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) IRONHOUSE 19 STATE COM 003H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 8272-3_MWD+HRGM

Offset Well Error: 0.00 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
14,500.00	10,141.18	9,405.84	9,380.09	49.10	29.59	-47.67	5,304.82	-568.50	1,628.62	1,563.21	65.42	24.897	
14,600.00	10,132.89	9,422.00	9,394.03	49.62	29.60	-48.36	5,312.90	-569.74	1,549.41	1,483.55	65.86	23.526	
14,700.00	10,124.59	9,433.36	9,403.70	50.15	29.61	-48.84	5,318.81	-570.58	1,472.30	1,405.96	66.34	22.193	
14,800.00	10,116.30	9,453.00	9,420.14	50.68	29.62	-49.68	5,329.46	-571.94	1,397.62	1,330.65	66.97	20.870	
14,900.00	10,108.01	9,471.29	9,435.17	51.22	29.63	-50.46	5,339.83	-573.10	1,325.58	1,257.89	67.69	19.584	
15,000.00	10,099.72	9,485.00	9,446.28	51.77	29.65	-51.04	5,347.81	-573.90	1,256.52	1,188.04	68.48	18.350	
15,100.00	10,091.42	9,517.00	9,471.52	52.32	29.67	-52.40	5,367.40	-575.55	1,190.72	1,121.19	69.52	17.127	
15,200.00	10,083.13	9,548.00	9,494.94	52.87	29.70	-53.71	5,387.65	-577.01	1,128.96	1,058.28	70.68	15.973	
15,300.00	10,074.84	9,569.02	9,510.30	53.44	29.73	-54.60	5,401.97	-578.01	1,071.37	999.47	71.91	14.900	
15,400.00	10,066.55	9,611.00	9,540.21	54.00	29.78	-56.38	5,431.35	-580.13	1,018.25	944.85	73.40	13.872	
15,500.00	10,058.26	9,644.00	9,563.45	54.57	29.83	-57.84	5,454.69	-582.22	969.71	894.73	74.98	12.933	
15,600.00	10,049.96	9,675.00	9,584.53	55.15	29.88	-59.22	5,477.26	-584.73	927.16	850.50	76.65	12.096	
15,700.00	10,041.67	9,707.00	9,604.74	55.73	29.94	-60.61	5,501.87	-587.84	891.71	813.34	78.37	11.378	
15,800.00	10,033.38	9,757.21	9,633.45	56.32	30.05	-62.68	5,542.75	-592.88	863.25	783.06	80.20	10.764	
15,900.00	10,025.09	9,828.50	9,670.11	56.91	30.22	-65.41	5,603.65	-597.91	839.39	757.32	82.07	10.228	
16,000.00	10,016.79	9,874.92	9,690.41	57.51	30.35	-66.99	5,645.28	-600.77	821.28	737.59	83.69	9.813	
16,100.00	10,008.50	9,929.00	9,708.26	58.10	30.52	-68.52	5,696.16	-604.42	809.98	724.81	85.17	9.510	
16,200.00	10,000.21	9,992.00	9,723.72	58.71	30.75	-69.99	5,757.03	-609.24	804.17	717.64	86.53	9.293	
16,300.00	9,991.92	10,055.00	9,734.38	59.31	31.00	-71.15	5,818.91	-614.20	802.53	714.77	87.76	9.145	
16,300.92	9,991.84	10,065.91	9,735.75	59.32	31.05	-71.32	5,829.70	-615.07	802.45	714.61	87.83	9.136	CC, ES
16,400.00	9,983.62	10,149.00	9,741.44	59.92	31.42	-72.29	5,912.30	-621.64	804.13	715.09	89.04	9.031	
16,500.00	9,975.33	10,234.06	9,742.41	60.54	31.86	-72.96	5,997.08	-628.41	807.83	717.59	90.23	8.953	
16,600.00	9,967.04	10,314.89	9,740.99	61.16	32.31	-73.44	6,077.59	-635.26	813.08	721.69	91.38	8.898	
16,700.00	9,958.75	10,398.09	9,735.49	61.78	32.81	-73.67	6,160.24	-643.16	820.68	728.16	92.52	8.871	
16,800.00	9,950.45	10,490.42	9,727.19	62.40	33.42	-73.80	6,251.68	-652.78	829.86	736.12	93.74	8.853	
16,900.00	9,942.16	10,588.68	9,717.81	63.03	34.11	-73.89	6,348.94	-663.18	839.36	744.31	95.06	8.830	
17,000.00	9,933.87	10,687.71	9,708.42	63.66	34.86	-73.99	6,446.95	-673.80	848.98	752.55	96.43	8.804	
17,100.00	9,925.58	10,805.26	9,696.31	64.30	35.79	-74.02	6,563.30	-685.20	857.90	759.86	98.03	8.751	
17,200.00	9,917.29	10,910.50	9,683.04	64.93	36.68	-73.85	6,667.43	-692.83	865.05	765.54	99.51	8.693	
17,300.00	9,908.99	11,010.75	9,669.47	65.57	37.56	-73.62	6,766.51	-699.66	872.05	771.09	100.96	8.637	
17,400.00	9,900.70	11,128.69	9,654.26	66.22	38.64	-73.37	6,883.29	-705.98	877.42	774.80	102.62	8.550	
17,500.00	9,892.41	11,238.85	9,639.77	66.86	39.68	-73.11	6,992.38	-711.02	882.25	778.02	104.23	8.465	
17,600.00	9,884.12	11,356.82	9,627.92	67.51	40.83	-73.02	7,109.70	-714.43	884.44	778.48	105.96	8.347	
17,700.00	9,875.82	11,451.02	9,620.36	68.16	41.78	-73.07	7,203.56	-717.27	886.23	778.67	107.56	8.239	
17,800.00	9,867.53	11,535.93	9,612.57	68.81	42.66	-73.07	7,288.04	-720.63	889.26	780.18	109.08	8.152	
17,900.00	9,859.24	11,640.43	9,602.40	69.47	43.77	-73.05	7,391.91	-725.83	893.45	782.64	110.81	8.063	
18,000.00	9,850.95	11,744.71	9,593.88	70.13	44.90	-73.12	7,495.74	-730.31	896.50	783.91	112.59	7.963	
18,100.00	9,842.65	11,848.16	9,584.90	70.79	46.03	-73.15	7,598.72	-734.32	899.29	784.93	114.36	7.864	
18,200.00	9,834.36	11,954.42	9,576.93	71.45	47.23	-73.25	7,704.61	-738.16	901.50	785.30	116.20	7.758	
18,300.00	9,826.07	12,043.00	9,572.07	72.11	48.24	-73.45	7,792.99	-741.68	903.54	785.62	117.92	7.663	
18,400.00	9,817.78	12,138.00	9,567.70	72.78	49.34	-73.74	7,887.74	-746.95	906.80	787.07	119.73	7.573	
18,500.00	9,809.48	12,214.26	9,564.00	73.45	50.24	-73.99	7,963.68	-752.79	912.10	790.78	121.32	7.518	
18,600.00	9,801.19	12,316.08	9,557.77	74.12	51.46	-74.25	8,064.95	-761.32	918.55	795.30	123.24	7.453	
18,700.00	9,792.90	12,416.10	9,550.38	74.79	52.67	-74.41	8,164.41	-768.92	924.60	799.46	125.14	7.389	
18,800.00	9,784.61	12,499.98	9,543.91	75.47	53.70	-74.54	8,247.74	-775.95	931.50	804.70	126.80	7.346	
18,900.00	9,776.31	12,574.19	9,539.12	76.14	54.62	-74.74	8,321.35	-784.05	940.56	812.27	128.29	7.332	
19,000.00	9,768.02	12,651.29	9,535.19	76.82	55.59	-75.04	8,397.56	-794.97	952.38	822.57	129.81	7.337	
19,100.00	9,759.73	12,736.59	9,529.84	77.50	56.67	-75.33	8,481.64	-808.36	966.04	834.56	131.48	7.348	
19,200.00	9,751.44	12,828.81	9,522.81	78.18	57.86	-75.57	8,572.33	-823.47	980.74	847.45	133.29	7.358	
19,300.00	9,743.15	12,922.56	9,514.82	78.86	59.07	-75.76	8,664.44	-839.01	995.87	860.72	135.15	7.369	
19,400.00	9,734.85	13,011.94	9,506.36	79.55	60.23	-75.90	8,752.07	-854.45	1,011.91	875.03	136.89	7.392	
19,500.00	9,726.56	13,128.42	9,494.43	80.23	61.76	-76.03	8,866.19	-874.45	1,028.16	888.85	139.31	7.381	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) IRONHOUSE 19 STATE COM 003H - Horizontal - PRODUCING - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 8272-3_MWD+HRGM

Rule Assigned:

Offset Well Error: 0.00 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
19,600.00	9,718.27	13,273.91	9,480.03	80.92	63.67	-76.14	9,009.68	-893.71	1,040.26	897.97	142.29	7.311	
19,700.00	9,709.98	13,394.98	9,470.26	81.61	65.27	-76.30	9,129.69	-906.23	1,049.18	904.48	144.70	7.251	
19,800.00	9,701.68	13,490.15	9,461.46	82.30	66.53	-76.35	9,224.02	-915.21	1,057.54	910.93	146.61	7.213	
19,900.00	9,693.39	13,595.30	9,449.27	82.99	67.92	-76.28	9,328.00	-925.09	1,066.46	917.78	148.68	7.173	
20,000.00	9,685.10	13,715.76	9,435.19	83.69	69.51	-76.15	9,447.32	-933.64	1,073.04	922.07	150.97	7.108	
20,100.00	9,676.81	13,806.76	9,422.69	84.38	70.71	-75.96	9,537.27	-939.42	1,079.51	926.74	152.77	7.066	
20,200.00	9,668.51	13,897.17	9,408.17	85.08	71.91	-75.66	9,626.29	-945.60	1,087.04	932.52	154.52	7.035	
20,300.00	9,660.22	13,989.55	9,391.03	85.78	73.14	-75.24	9,716.85	-951.93	1,095.29	939.03	156.26	7.009	SF
20,400.00	9,651.93	14,036.00	9,381.86	86.48	73.75	-75.01	9,762.27	-955.11	1,105.18	948.10	157.07	7.036	
20,500.00	9,643.64	14,036.00	9,381.86	87.17	73.75	-75.01	9,762.27	-955.11	1,122.95	966.70	156.25	7.187	
20,600.00	9,635.34	14,036.00	9,381.86	87.88	73.75	-75.01	9,762.27	-955.11	1,149.18	994.64	154.54	7.436	
20,700.00	9,627.05	14,036.00	9,381.86	88.58	73.75	-75.01	9,762.27	-955.11	1,183.31	1,031.20	152.11	7.779	
20,800.00	9,618.76	14,036.00	9,381.86	89.28	73.75	-75.01	9,762.27	-955.11	1,224.67	1,075.53	149.14	8.211	
20,900.00	9,610.47	14,036.00	9,381.86	89.99	73.75	-75.01	9,762.27	-955.11	1,272.57	1,126.75	145.81	8.727	
21,000.00	9,602.18	14,036.00	9,381.86	90.69	73.75	-75.01	9,762.27	-955.11	1,326.29	1,184.01	142.28	9.322	
21,100.00	9,593.88	14,036.00	9,381.86	91.40	73.75	-75.01	9,762.27	-955.11	1,385.15	1,246.49	138.66	9.989	
21,200.00	9,585.59	14,036.00	9,381.86	92.11	73.75	-75.01	9,762.27	-955.11	1,448.53	1,313.46	135.07	10.724	
21,300.00	9,577.30	14,036.00	9,381.86	92.81	73.75	-75.01	9,762.27	-955.11	1,515.86	1,384.29	131.58	11.521	
21,400.00	9,569.01	14,036.00	9,381.86	93.52	73.75	-75.01	9,762.27	-955.11	1,586.65	1,458.43	128.22	12.374	
21,500.00	9,560.71	14,036.00	9,381.86	94.23	73.75	-75.01	9,762.27	-955.11	1,660.44	1,535.40	125.04	13.279	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) LEA SOUTHEAST STATE 1 P & A - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Offset Well Error: 0.00 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
10,800.00	10,430.32	10,429.70	10,430.32	36.67	232.10	-83.89	1,600.88	-877.81	1,632.68	1,364.24	268.44	6.082	
10,900.00	10,435.22	10,434.61	10,435.22	36.76	232.23	-89.67	1,600.88	-877.81	1,558.54	1,289.90	268.65	5.801	
11,000.00	10,431.41	10,430.79	10,431.41	36.87	232.13	-94.52	1,600.88	-877.81	1,487.38	1,218.75	268.63	5.537	
11,100.00	10,423.12	10,422.50	10,423.12	37.00	231.90	-94.15	1,600.88	-877.81	1,419.85	1,151.34	268.52	5.288	
11,200.00	10,414.83	10,414.21	10,414.83	37.15	231.67	-93.71	1,600.88	-877.81	1,356.29	1,087.85	268.43	5.053	
11,300.00	10,406.54	10,405.92	10,406.54	37.31	231.44	-93.27	1,600.88	-877.81	1,297.27	1,028.89	268.38	4.834	
11,400.00	10,398.24	10,397.62	10,398.24	37.49	231.20	-92.83	1,600.88	-877.81	1,243.45	975.09	268.35	4.634	
11,500.00	10,389.95	10,389.33	10,389.95	37.68	230.97	-92.39	1,600.88	-877.81	1,195.52	927.16	268.36	4.455	
11,600.00	10,381.66	10,381.04	10,381.66	37.89	230.74	-91.94	1,600.88	-877.81	1,154.23	885.83	268.40	4.300	
11,700.00	10,373.37	10,372.75	10,373.37	38.12	230.51	-91.50	1,600.88	-877.81	1,120.31	851.85	268.46	4.173	
11,800.00	10,365.07	10,364.45	10,365.07	38.35	230.28	-91.06	1,600.88	-877.81	1,094.44	825.90	268.54	4.076	
11,900.00	10,356.78	10,356.16	10,356.78	38.60	230.05	-90.61	1,600.88	-877.81	1,077.21	808.59	268.62	4.010	
12,000.00	10,348.49	10,347.87	10,348.49	38.87	229.82	-90.17	1,600.88	-877.81	1,069.02	800.34	268.69	3.979	
12,038.45	10,345.30	10,344.68	10,345.30	38.98	229.73	-90.00	1,600.88	-877.81	1,068.33	799.63	268.70	3.976	CC, ES, SF
12,100.00	10,340.20	10,339.58	10,340.20	39.15	229.59	-89.73	1,600.88	-877.81	1,070.09	801.37	268.72	3.982	
12,200.00	10,331.90	10,331.29	10,331.90	39.44	229.36	-89.28	1,600.88	-877.81	1,080.40	811.68	268.72	4.021	
12,300.00	10,323.61	10,322.99	10,323.61	39.74	229.12	-88.84	1,600.88	-877.81	1,099.67	831.00	268.67	4.093	
12,400.00	10,315.32	10,314.70	10,315.32	40.06	228.89	-88.40	1,600.88	-877.81	1,127.45	858.89	268.56	4.198	
12,500.00	10,307.03	10,306.41	10,307.03	40.39	228.66	-87.96	1,600.88	-877.81	1,163.14	894.73	268.41	4.333	
12,600.00	10,298.73	10,298.12	10,298.73	40.73	228.43	-87.51	1,600.88	-877.81	1,206.03	937.81	268.22	4.496	
12,700.00	10,290.44	10,289.82	10,290.44	41.08	228.20	-87.07	1,600.88	-877.81	1,255.38	987.38	267.99	4.684	
12,800.00	10,282.15	10,281.53	10,282.15	41.45	227.97	-86.63	1,600.88	-877.81	1,310.46	1,042.72	267.74	4.894	
12,900.00	10,273.86	10,273.24	10,273.86	41.82	227.74	-86.19	1,600.88	-877.81	1,370.58	1,103.11	267.47	5.124	
13,000.00	10,265.56	10,264.95	10,265.56	42.21	227.51	-85.75	1,600.88	-877.81	1,435.11	1,167.93	267.18	5.371	
13,100.00	10,257.27	10,256.65	10,257.27	42.61	227.27	-85.31	1,600.88	-877.81	1,503.49	1,236.59	266.89	5.633	
13,200.00	10,248.98	10,248.36	10,248.98	43.01	227.04	-84.87	1,600.88	-877.81	1,575.20	1,308.60	266.60	5.909	
13,300.00	10,240.69	10,240.07	10,240.69	43.43	226.81	-84.43	1,600.88	-877.81	1,649.82	1,383.51	266.30	6.195	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) LEO STATE #1 - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 34-MWD OWSG Rev5

Offset Well Error: 0.00 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
23,500.00	9,394.87	9,520.66	9,389.74	108.62	22.69	102.18	14,598.91	626.19	1,661.79	1,585.60	76.19	21.812	
23,600.00	9,386.57	9,512.46	9,381.55	109.34	22.69	101.40	14,598.86	626.23	1,568.65	1,490.98	77.67	20.197	
23,700.00	9,378.28	9,503.97	9,373.05	110.07	22.69	100.59	14,598.83	626.24	1,476.36	1,397.00	79.37	18.602	
23,800.00	9,369.99	9,495.16	9,364.25	110.80	22.69	99.74	14,598.81	626.20	1,385.10	1,303.76	81.33	17.030	
23,900.00	9,361.70	9,486.02	9,355.11	111.53	22.69	98.86	14,598.80	626.12	1,295.07	1,211.45	83.62	15.488	
24,000.00	9,353.40	9,476.54	9,345.62	112.26	22.69	97.94	14,598.80	625.99	1,206.54	1,120.26	86.28	13.984	
24,100.00	9,345.11	9,466.70	9,335.78	112.99	22.69	96.98	14,598.82	625.81	1,119.88	1,030.48	89.40	12.527	
24,200.00	9,336.82	9,457.56	9,326.65	113.72	22.69	96.09	14,598.83	625.64	1,035.54	942.48	93.06	11.127	
24,300.00	9,328.53	9,449.21	9,318.30	114.45	22.69	95.27	14,598.81	625.52	954.17	856.79	97.38	9.799	
24,400.00	9,320.23	9,441.55	9,310.64	115.18	22.69	94.51	14,598.76	625.44	876.58	774.16	102.41	8.559	
24,500.00	9,311.94	9,434.49	9,303.58	115.91	22.70	93.81	14,598.69	625.40	803.88	695.67	108.21	7.429	
24,600.00	9,303.65	9,427.98	9,297.07	116.64	22.70	93.17	14,598.61	625.39	737.54	622.83	114.72	6.429	
24,700.00	9,295.36	9,421.94	9,291.03	117.37	22.70	92.57	14,598.53	625.40	679.43	557.72	121.72	5.582	
24,800.00	9,287.07	9,416.33	9,285.43	118.11	22.70	92.01	14,598.43	625.42	631.83	503.12	128.72	4.909	
24,900.00	9,278.77	9,411.11	9,280.20	118.84	22.70	91.49	14,598.33	625.46	597.26	462.38	134.88	4.428	
25,000.00	9,270.48	9,406.68	9,275.78	119.57	22.70	91.05	14,598.23	625.50	578.07	438.89	139.18	4.153	
25,063.12	9,265.25	9,402.64	9,271.74	120.04	22.70	90.65	14,598.14	625.55	574.63	434.09	140.54	4.089	CC, ES, SF
25,100.00	9,262.19	9,400.25	9,269.34	120.31	22.71	90.41	14,598.08	625.58	575.80	435.03	140.78	4.090	
25,200.00	9,253.90	9,393.63	9,262.72	121.04	22.72	89.75	14,597.94	625.65	590.64	451.23	139.41	4.237	
25,300.00	9,245.60	9,386.81	9,255.91	121.78	22.73	89.07	14,597.79	625.72	621.35	485.76	135.59	4.583	
25,400.00	9,237.31	9,379.78	9,248.88	122.51	22.75	88.38	14,597.65	625.78	665.75	535.49	130.25	5.111	
25,500.00	9,229.02	9,372.54	9,241.64	123.25	22.76	87.66	14,597.51	625.84	721.29	596.98	124.31	5.802	
25,600.00	9,220.73	9,365.07	9,234.18	123.99	22.78	86.92	14,597.37	625.90	785.63	667.22	118.42	6.634	
25,700.00	9,212.43	9,357.37	9,226.48	124.72	22.79	86.15	14,597.24	625.94	856.78	743.84	112.94	7.586	
25,800.00	9,204.14	9,349.43	9,218.54	125.46	22.81	85.37	14,597.11	625.99	933.18	825.14	108.04	8.637	
25,900.00	9,195.85	9,341.23	9,210.34	126.20	22.82	84.56	14,596.99	626.02	1,013.64	909.89	103.75	9.770	
26,000.00	9,187.56	9,332.78	9,201.89	126.94	22.83	83.73	14,596.87	626.06	1,097.27	997.24	100.03	10.969	
26,100.00	9,179.26	9,323.89	9,193.00	127.68	22.85	82.86	14,596.76	626.09	1,183.39	1,086.55	96.84	12.221	
26,200.00	9,170.97	9,314.51	9,183.62	128.42	22.86	81.94	14,596.67	626.13	1,271.49	1,177.39	94.09	13.513	
26,300.00	9,162.68	9,304.61	9,173.73	129.15	22.87	80.98	14,596.59	626.17	1,361.18	1,269.43	91.75	14.836	
26,400.00	9,154.39	9,294.15	9,163.26	129.89	22.89	79.97	14,596.53	626.21	1,452.17	1,362.43	89.74	16.182	
26,500.00	9,146.09	9,283.07	9,152.18	130.63	22.91	78.91	14,596.48	626.26	1,544.22	1,456.20	88.02	17.545	
26,600.00	9,137.80	9,280.00	9,149.11	131.38	22.91	78.62	14,596.48	626.27	1,637.16	1,550.77	86.39	18.952	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) LEO STATE 006 TA - Verticals - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
24,700.00	9,295.36	9,373.57	9,339.61	117.37	13.54	-95.36	15,199.19	-1,295.03	1,662.64	1,550.46	112.18	14.821	
24,800.00	9,287.07	9,364.85	9,330.90	118.11	13.54	-94.99	15,199.11	-1,295.36	1,605.90	1,490.35	115.55	13.898	
24,900.00	9,278.77	9,356.21	9,322.27	118.84	13.54	-94.63	15,199.03	-1,295.69	1,553.49	1,434.54	118.95	13.060	
25,000.00	9,270.48	9,347.65	9,313.71	119.57	13.54	-94.26	15,198.95	-1,296.01	1,505.85	1,383.54	122.31	12.312	
25,100.00	9,262.19	9,339.17	9,305.24	120.31	13.55	-93.90	15,198.87	-1,296.32	1,463.47	1,337.90	125.57	11.654	
25,200.00	9,253.90	9,330.76	9,296.83	121.04	13.55	-93.54	15,198.79	-1,296.62	1,426.81	1,298.15	128.66	11.090	
25,300.00	9,245.60	9,322.42	9,288.51	121.78	13.55	-93.19	15,198.70	-1,296.91	1,396.31	1,264.84	131.46	10.621	
25,400.00	9,237.31	9,314.17	9,280.25	122.51	13.55	-92.84	15,198.61	-1,297.19	1,372.39	1,238.48	133.91	10.249	
25,500.00	9,229.02	9,305.98	9,272.07	123.25	13.55	-92.49	15,198.52	-1,297.47	1,355.41	1,219.51	135.90	9.973	
25,600.00	9,220.73	9,297.87	9,263.96	123.99	13.55	-92.14	15,198.43	-1,297.74	1,345.61	1,208.24	137.37	9.795	
25,683.04	9,213.84	9,291.18	9,257.29	124.60	13.56	-91.86	15,198.36	-1,297.96	1,343.06	1,204.91	138.16	9.721	CC
25,700.00	9,212.43	9,289.83	9,255.93	124.72	13.56	-91.80	15,198.34	-1,298.00	1,343.17	1,204.90	138.27	9.714	ES, SF
25,800.00	9,204.14	9,281.87	9,247.98	125.46	13.56	-91.46	15,198.25	-1,298.25	1,348.12	1,209.55	138.57	9.729	
25,900.00	9,195.85	9,273.79	9,239.91	126.20	13.56	-91.12	15,198.15	-1,298.50	1,360.38	1,222.09	138.28	9.838	
26,000.00	9,187.56	9,265.79	9,231.91	126.94	13.56	-90.78	15,198.05	-1,298.75	1,379.75	1,242.30	137.45	10.039	
26,100.00	9,179.26	9,257.87	9,223.99	127.68	13.56	-90.44	15,197.94	-1,298.98	1,405.95	1,269.83	136.12	10.329	
26,200.00	9,170.97	9,250.03	9,216.15	128.42	13.57	-90.11	15,197.84	-1,299.21	1,438.59	1,304.22	134.38	10.706	
26,300.00	9,162.68	9,242.26	9,208.39	129.15	13.57	-89.78	15,197.73	-1,299.43	1,477.26	1,344.96	132.30	11.166	
26,400.00	9,154.39	9,234.57	9,200.70	129.89	13.57	-89.45	15,197.63	-1,299.64	1,521.50	1,391.52	129.98	11.705	
26,500.00	9,146.09	9,226.95	9,193.08	130.63	13.57	-89.13	15,197.52	-1,299.84	1,570.83	1,443.33	127.49	12.321	
26,600.00	9,137.80	9,219.40	9,185.54	131.38	13.58	-88.81	15,197.41	-1,300.04	1,624.79	1,499.88	124.90	13.008	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) LEO STATE 007 - Verticals - Surveys

Offset Site Error: 0.00 usft

Survey Program: 305-3_INC-Only, 1741-OWSG (Rev2) MWD

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,900.00	9,444.62	9,413.10	9,394.57	104.27	41.44	-151.12	14,057.46	10.05	1,623.62	1,540.06	83.57	19.429	
23,000.00	9,436.33	9,408.21	9,389.69	104.99	41.43	-149.56	14,057.30	9.87	1,523.80	1,440.14	83.66	18.214	
23,100.00	9,428.04	9,403.29	9,384.78	105.72	41.42	-147.85	14,057.14	9.69	1,423.99	1,340.24	83.76	17.001	
23,200.00	9,419.74	9,398.35	9,379.83	106.44	41.41	-145.96	14,056.98	9.51	1,324.19	1,240.33	83.86	15.790	
23,300.00	9,411.45	9,393.37	9,374.86	107.17	41.40	-143.87	14,056.83	9.33	1,224.40	1,140.43	83.97	14.581	
23,400.00	9,403.16	9,388.36	9,369.86	107.89	41.39	-141.55	14,056.67	9.15	1,124.62	1,040.53	84.09	13.374	
23,500.00	9,394.87	9,383.32	9,364.83	108.62	41.37	-138.98	14,056.51	8.97	1,024.87	940.64	84.22	12.168	
23,600.00	9,386.57	9,378.25	9,359.76	109.34	41.36	-136.12	14,056.35	8.79	925.13	840.76	84.38	10.964	
23,700.00	9,378.28	9,373.16	9,354.67	110.07	41.35	-132.93	14,056.19	8.61	825.43	740.87	84.56	9.762	
23,800.00	9,369.99	9,368.02	9,349.55	110.80	41.34	-129.38	14,056.03	8.44	725.77	640.99	84.78	8.561	
23,900.00	9,361.70	9,362.86	9,344.39	111.53	41.33	-125.43	14,055.87	8.26	626.18	541.10	85.08	7.360	
24,000.00	9,353.40	9,357.67	9,339.20	112.26	41.31	-121.07	14,055.72	8.09	526.69	441.19	85.50	6.160	
24,100.00	9,345.11	9,352.44	9,333.98	112.99	41.30	-116.27	14,055.56	7.92	427.38	341.19	86.19	4.958	
24,200.00	9,336.82	9,347.19	9,328.73	113.72	41.29	-111.04	14,055.40	7.74	328.40	240.92	87.48	3.754	
24,300.00	9,328.53	9,341.90	9,323.44	114.45	41.28	-105.43	14,055.24	7.57	230.18	139.72	90.46	2.545	
24,400.00	9,320.23	9,336.58	9,318.13	115.18	41.26	-99.51	14,055.08	7.40	134.40	34.19	100.21	1.341	Level 3
24,500.00	9,311.94	9,331.22	9,312.78	115.91	41.25	-93.37	14,054.92	7.23	55.57	-91.27	146.84	0.378	Level 1
24,525.11	9,309.86	9,329.87	9,311.43	116.09	41.25	-91.82	14,054.88	7.19	49.60	-107.79	157.38	0.315	Level 1, CC, ES, SF
24,600.00	9,303.65	9,325.83	9,307.39	116.64	41.24	-87.17	14,054.76	7.06	89.74	-25.03	114.77	0.782	Level 1
24,700.00	9,295.36	9,320.41	9,301.97	117.37	41.22	-81.03	14,054.60	6.90	181.55	87.88	93.68	1.938	
24,800.00	9,287.07	9,314.95	9,296.52	118.11	41.21	-75.09	14,054.44	6.73	278.95	190.13	88.81	3.141	
24,900.00	9,278.77	9,309.46	9,291.04	118.84	41.20	-69.47	14,054.28	6.57	377.63	290.49	87.14	4.334	
25,000.00	9,270.48	9,303.93	9,285.51	119.57	41.19	-64.23	14,054.12	6.40	476.79	390.38	86.41	5.518	
25,100.00	9,262.19	9,298.37	9,279.96	120.31	41.17	-59.42	14,053.96	6.24	576.20	490.13	86.07	6.695	
25,200.00	9,253.90	9,292.78	9,274.37	121.04	41.16	-55.04	14,053.80	6.08	675.73	589.84	85.89	7.867	
25,300.00	9,245.60	9,287.14	9,268.74	121.78	41.15	-51.08	14,053.64	5.92	775.34	689.53	85.81	9.035	
25,400.00	9,237.31	9,281.48	9,263.08	122.51	41.13	-47.51	14,053.48	5.76	875.01	789.22	85.79	10.200	
25,500.00	9,229.02	9,275.77	9,257.38	123.25	41.12	-44.31	14,053.32	5.60	974.71	888.92	85.79	11.361	
25,600.00	9,220.73	9,270.03	9,251.64	123.99	41.11	-41.44	14,053.16	5.44	1,074.44	988.62	85.82	12.520	
25,700.00	9,212.43	9,264.25	9,245.87	124.72	41.09	-38.85	14,053.00	5.29	1,174.19	1,088.33	85.86	13.675	
25,800.00	9,204.14	9,258.44	9,240.05	125.46	41.08	-36.53	14,052.84	5.13	1,273.95	1,188.04	85.91	14.828	
25,900.00	9,195.85	9,252.58	9,234.20	126.20	41.07	-34.43	14,052.68	4.98	1,373.72	1,287.75	85.97	15.979	
26,000.00	9,187.56	9,246.69	9,228.32	126.94	41.05	-32.53	14,052.52	4.83	1,473.51	1,387.47	86.04	17.127	
26,100.00	9,179.26	9,240.76	9,222.39	127.68	41.04	-30.81	14,052.36	4.68	1,573.29	1,487.19	86.10	18.272	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) NEW MEXICO BV STATE 001 P & A - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Rule Assigned:

Offset Well Error: 0.00 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
23,900.00	9,361.70	9,375.11	9,361.70	111.53	274.84	108.20	15,034.56	449.22	1,647.98	1,323.14	324.85	5.073	
24,000.00	9,353.40	9,366.82	9,353.40	112.26	274.43	107.14	15,034.56	449.22	1,551.54	1,226.14	325.40	4.768	
24,100.00	9,345.11	9,358.52	9,345.11	112.99	274.02	106.06	15,034.56	449.22	1,455.54	1,129.42	326.12	4.463	
24,200.00	9,336.82	9,357.00	9,343.59	113.72	273.94	105.86	15,034.56	449.22	1,360.07	1,032.60	327.47	4.153	
24,300.00	9,328.53	9,357.00	9,343.59	114.45	273.94	105.86	15,034.56	449.22	1,265.31	936.13	329.18	3.844	
24,400.00	9,320.23	9,333.48	9,320.23	115.18	272.81	102.75	15,034.56	449.22	1,171.18	841.45	329.73	3.552	
24,500.00	9,311.94	9,361.38	9,348.11	115.91	274.15	106.45	15,034.41	449.22	1,078.62	744.70	333.92	3.230	
24,600.00	9,303.65	9,327.75	9,314.51	116.64	272.53	101.98	15,035.21	449.22	987.08	652.32	334.76	2.949	
24,700.00	9,295.36	9,308.56	9,295.36	117.37	271.60	99.36	15,034.56	449.22	896.39	559.21	337.19	2.658	
24,800.00	9,287.07	9,300.27	9,287.07	118.11	271.20	98.21	15,034.56	449.22	808.62	467.47	341.15	2.370	
24,900.00	9,278.77	9,291.97	9,278.77	118.84	270.80	97.05	15,034.56	449.22	723.92	377.73	346.19	2.091	
25,000.00	9,270.48	9,283.68	9,270.48	119.57	270.40	95.89	15,034.56	449.22	643.53	290.95	352.57	1.825	
25,100.00	9,262.19	9,275.39	9,262.19	120.31	270.00	94.73	15,034.56	449.22	569.26	208.79	360.47	1.579	
25,200.00	9,253.90	9,267.10	9,253.90	121.04	269.60	93.56	15,034.56	449.22	503.83	134.07	369.76	1.363	Level 3
25,300.00	9,245.60	9,265.72	9,252.61	121.78	269.54	93.38	15,034.54	449.22	451.15	71.20	379.95	1.187	Level 2
25,400.00	9,237.31	9,252.62	9,239.53	122.51	268.92	91.53	15,034.89	449.22	416.04	28.07	387.97	1.072	Level 2
25,500.00	9,229.02	9,242.18	9,229.10	123.25	268.43	90.06	15,035.05	449.22	402.99	11.32	391.67	1.029	Level 2
25,503.97	9,228.69	9,241.81	9,228.73	123.28	268.41	90.01	15,035.05	449.22	402.97	11.28	391.69	1.029	Level 2, CC, ES, SF
25,600.00	9,220.73	9,233.68	9,220.60	123.99	268.03	88.85	15,035.09	449.22	414.17	24.92	389.25	1.064	Level 2
25,700.00	9,212.43	9,225.50	9,212.43	124.72	267.65	87.69	15,034.56	449.22	448.03	66.23	381.81	1.173	Level 2
25,800.00	9,204.14	9,217.20	9,204.14	125.46	267.26	86.52	15,034.56	449.22	499.70	127.44	372.26	1.342	Level 3
25,900.00	9,195.85	9,208.91	9,195.85	126.20	266.87	85.35	15,034.56	449.22	564.38	201.56	362.83	1.556	
26,000.00	9,187.56	9,200.62	9,187.56	126.94	266.48	84.19	15,034.56	449.22	638.14	283.63	354.51	1.800	
26,100.00	9,179.26	9,183.39	9,170.43	127.68	265.65	81.80	15,034.98	449.22	717.89	370.57	347.32	2.067	
26,200.00	9,170.97	9,178.03	9,165.08	128.42	265.39	81.06	15,035.04	449.22	802.23	460.56	341.66	2.348	
26,300.00	9,162.68	9,173.33	9,160.39	129.15	265.16	80.41	15,035.07	449.22	889.76	552.71	337.05	2.640	
26,400.00	9,154.39	9,167.32	9,154.39	129.89	264.87	79.58	15,034.56	449.22	980.10	646.88	333.22	2.941	
26,500.00	9,146.09	9,159.02	9,146.09	130.63	264.47	78.45	15,034.56	449.22	1,071.73	741.72	330.01	3.248	
26,600.00	9,137.80	9,150.73	9,137.80	131.38	264.08	77.33	15,034.56	449.22	1,164.68	837.36	327.32	3.558	
26,700.00	9,129.51	9,142.44	9,129.51	132.12	263.68	76.21	15,034.56	449.22	1,258.65	933.61	325.04	3.872	
26,800.00	9,121.22	9,120.92	9,108.11	132.86	262.64	73.39	15,035.01	449.22	1,353.07	1,030.36	322.71	4.193	
26,900.00	9,112.93	9,117.17	9,104.36	133.60	262.46	72.91	15,035.04	449.22	1,448.44	1,127.30	321.14	4.510	
27,000.00	9,104.63	9,113.74	9,100.93	134.34	262.30	72.47	15,035.06	449.22	1,544.38	1,224.58	319.80	4.829	
27,100.00	9,096.34	9,109.13	9,096.34	135.08	262.07	71.87	15,034.56	449.22	1,641.26	1,322.67	318.59	5.152	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 005 - Verticals - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 8478-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
28,000.00	9,021.71	8,864.58	8,548.09	141.78	30.71	-73.39	18,346.97	-1,337.47	1,659.21	1,507.43	151.78	10.932	
28,100.00	9,013.42	8,963.76	8,515.45	142.52	31.09	-71.62	18,420.96	-1,280.07	1,606.08	1,453.77	152.31	10.545	
28,200.00	9,005.12	9,005.50	8,500.98	143.27	31.28	-70.81	18,451.68	-1,255.80	1,553.87	1,398.91	154.96	10.027	
28,300.00	8,996.83	9,241.00	8,456.49	144.01	32.71	-67.40	18,637.08	-1,120.52	1,502.33	1,352.01	150.32	9.994	
28,400.00	8,988.54	9,382.85	8,469.39	144.76	33.83	-66.86	18,753.05	-1,040.10	1,443.24	1,294.43	148.81	9.699	
28,500.00	8,980.25	9,440.90	8,478.61	145.50	34.34	-66.81	18,800.14	-1,007.42	1,381.95	1,230.96	151.00	9.152	
28,563.28	8,975.00	9,462.86	8,481.86	145.98	34.53	-66.79	18,818.30	-995.51	1,344.40	1,191.27	153.13	8.779	CC, ES, SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 006 TA - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Rule Assigned:

Offset Well Error: 0.00 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
26,200.00	9,170.97	9,023.00	9,001.89	128.42	302.11	-85.89	16,529.03	-1,368.92	1,630.30	1,217.07	413.23	3.945	
26,300.00	9,162.68	9,023.00	9,001.89	129.15	302.11	-85.89	16,529.03	-1,368.92	1,581.67	1,164.80	416.87	3.794	
26,400.00	9,154.39	9,023.00	9,001.89	129.89	302.11	-85.89	16,529.03	-1,368.92	1,538.01	1,117.58	420.44	3.658	
26,500.00	9,146.09	9,023.00	9,001.89	130.63	302.11	-85.89	16,529.03	-1,368.92	1,499.76	1,075.92	423.84	3.539	
26,600.00	9,137.80	9,023.00	9,001.89	131.38	302.11	-85.89	16,529.03	-1,368.92	1,467.34	1,040.34	427.00	3.436	
26,700.00	9,129.51	9,023.00	9,001.89	132.12	302.11	-85.89	16,529.03	-1,368.92	1,441.14	1,011.31	429.83	3.353	
26,800.00	9,121.22	9,023.00	9,001.89	132.86	302.11	-85.89	16,529.03	-1,368.92	1,421.51	989.28	432.23	3.289	
26,900.00	9,112.93	9,023.00	9,001.89	133.60	302.11	-85.89	16,529.03	-1,368.92	1,408.72	974.59	434.13	3.245	
27,000.00	9,104.63	9,023.00	9,001.89	134.34	302.11	-85.89	16,529.03	-1,368.92	1,402.96	967.49	435.47	3.222	
27,030.98	9,102.06	9,023.00	9,001.89	134.57	302.11	-85.89	16,529.03	-1,368.92	1,402.62	966.86	435.76	3.219	CC, ES, SF
27,100.00	9,096.34	9,023.00	9,001.89	135.08	302.11	-85.89	16,529.03	-1,368.92	1,404.32	968.11	436.20	3.219	
27,200.00	9,088.05	9,023.00	9,001.89	135.82	302.11	-85.89	16,529.03	-1,368.92	1,412.77	976.44	436.33	3.238	
27,300.00	9,079.76	9,023.00	9,001.89	136.57	302.11	-85.89	16,529.03	-1,368.92	1,428.18	992.32	435.86	3.277	
27,400.00	9,071.46	9,023.00	9,001.89	137.31	302.11	-85.89	16,529.03	-1,368.92	1,450.35	1,015.50	434.85	3.335	
27,500.00	9,063.17	9,023.00	9,001.89	138.05	302.11	-85.89	16,529.03	-1,368.92	1,478.96	1,045.61	433.35	3.413	
27,600.00	9,054.88	9,023.00	9,001.89	138.80	302.11	-85.89	16,529.03	-1,368.92	1,513.64	1,082.20	431.44	3.508	
27,700.00	9,046.59	9,023.00	9,001.89	139.54	302.11	-85.89	16,529.03	-1,368.92	1,554.00	1,124.79	429.21	3.621	
27,800.00	9,038.29	9,023.00	9,001.89	140.29	302.11	-85.89	16,529.03	-1,368.92	1,599.60	1,172.86	426.74	3.748	
27,900.00	9,030.00	9,023.00	9,001.89	141.03	302.11	-85.89	16,529.03	-1,368.92	1,650.01	1,225.91	424.10	3.891	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 007 P & A - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Rule Assigned:

Offset Well Error: 0.00 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
26,700.00	9,129.51	9,022.00	8,994.01	132.12	255.74	-90.13	17,852.17	-61.11	1,637.96	1,338.03	299.94	5.461	
26,800.00	9,121.22	9,022.00	8,994.01	132.86	255.74	-90.13	17,852.17	-61.11	1,538.08	1,237.99	300.08	5.125	
26,900.00	9,112.93	9,022.00	8,994.01	133.60	255.74	-90.13	17,852.17	-61.11	1,438.21	1,137.96	300.25	4.790	
27,000.00	9,104.63	9,022.00	8,994.01	134.34	255.74	-90.13	17,852.17	-61.11	1,338.37	1,037.94	300.43	4.455	
27,100.00	9,096.34	9,022.00	8,994.01	135.08	255.74	-90.13	17,852.17	-61.11	1,238.55	937.92	300.63	4.120	
27,200.00	9,088.05	9,022.00	8,994.01	135.82	255.74	-90.13	17,852.17	-61.11	1,138.76	837.89	300.86	3.785	
27,300.00	9,079.76	9,022.00	8,994.01	136.57	255.74	-90.13	17,852.17	-61.11	1,039.01	737.87	301.14	3.450	
27,400.00	9,071.46	9,022.00	8,994.01	137.31	255.74	-90.13	17,852.17	-61.11	939.31	637.84	301.47	3.116	
27,500.00	9,063.17	9,022.00	8,994.01	138.05	255.74	-90.13	17,852.17	-61.11	839.69	537.79	301.90	2.781	
27,600.00	9,054.88	9,022.00	8,994.01	138.80	255.74	-90.13	17,852.17	-61.11	740.17	437.71	302.46	2.447	
27,700.00	9,046.59	9,022.00	8,994.01	139.54	255.74	-90.13	17,852.17	-61.11	640.80	337.55	303.25	2.113	
27,800.00	9,038.29	9,022.00	8,994.01	140.29	255.74	-90.13	17,852.17	-61.11	541.66	237.22	304.44	1.779	
27,900.00	9,030.00	9,022.00	8,994.01	141.03	255.74	-90.13	17,852.17	-61.11	442.90	136.52	306.38	1.446	Level 3
28,000.00	9,021.71	9,022.00	8,994.01	141.78	255.74	-90.13	17,852.17	-61.11	344.87	34.95	309.92	1.113	Level 2
28,100.00	9,013.42	9,022.00	8,994.01	142.52	255.74	-90.13	17,852.17	-61.11	248.40	-68.98	317.38	0.783	Level 1
28,200.00	9,005.12	9,022.00	8,994.01	143.27	255.74	-90.13	17,852.17	-61.11	156.45	-180.12	336.56	0.465	Level 1
28,300.00	8,996.83	9,022.00	8,994.01	144.01	255.74	-90.13	17,852.17	-61.11	85.12	-302.50	387.63	0.220	Level 1
28,336.16	8,993.83	9,021.68	8,993.83	144.28	255.73	-90.00	17,852.17	-61.11	77.07	-322.94	400.01	0.193	Level 1, CC, ES, SF
28,400.00	8,988.54	9,016.39	8,988.54	144.76	255.53	-86.08	17,852.17	-61.11	99.94	-271.00	370.94	0.269	Level 1
28,500.00	8,980.25	9,008.10	8,980.25	145.50	255.22	-80.04	17,852.17	-61.11	180.55	-150.15	330.70	0.546	Level 1
28,563.28	8,975.00	9,002.85	8,975.00	145.98	255.03	-76.31	17,852.17	-61.11	239.10	-81.16	320.26	0.747	Level 1

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 008 P & A - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Rule Assigned:

Offset Well Error: 0.00 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
24,800.00	9,287.07	9,299.85	9,287.07	118.11	246.84	102.38	15,874.23	618.40	1,644.93	1,339.55	305.38	5.387	
24,900.00	9,278.77	9,291.56	9,278.77	118.84	246.55	101.60	15,874.23	618.40	1,552.10	1,245.21	306.89	5.058	
25,000.00	9,270.48	9,322.18	9,309.37	119.57	247.61	104.46	15,873.90	618.40	1,460.39	1,149.95	310.44	4.704	
25,100.00	9,262.19	9,300.01	9,287.23	120.31	246.84	102.40	15,874.44	618.40	1,369.75	1,057.84	311.91	4.392	
25,200.00	9,253.90	9,281.08	9,268.30	121.04	246.19	100.62	15,874.75	618.40	1,280.34	966.45	313.90	4.079	
25,300.00	9,245.60	9,264.71	9,251.94	121.78	245.63	99.06	15,874.90	618.40	1,192.47	876.03	316.45	3.768	
25,400.00	9,237.31	9,250.43	9,237.67	122.51	245.14	97.69	15,874.95	618.40	1,106.54	786.92	319.62	3.462	
25,500.00	9,229.02	9,241.77	9,229.02	123.25	244.84	96.84	15,874.23	618.40	1,022.48	698.76	323.72	3.159	
25,600.00	9,220.73	9,233.47	9,220.73	123.99	244.56	96.04	15,874.23	618.40	942.19	613.68	328.51	2.868	
25,700.00	9,212.43	9,225.18	9,212.43	124.72	244.27	95.23	15,874.23	618.40	865.93	531.85	334.08	2.592	
25,800.00	9,204.14	9,216.89	9,204.14	125.46	243.98	94.42	15,874.23	618.40	794.87	454.43	340.44	2.335	
25,900.00	9,195.85	9,208.60	9,195.85	126.20	243.70	93.61	15,874.23	618.40	730.52	383.04	347.48	2.102	
26,000.00	9,187.56	9,200.30	9,187.56	126.94	243.41	92.80	15,874.23	618.40	674.81	319.93	354.88	1.902	
26,100.00	9,179.26	9,192.01	9,179.26	127.68	243.13	91.99	15,874.23	618.40	630.04	268.04	362.00	1.740	
26,200.00	9,170.97	9,187.56	9,174.99	128.42	242.97	91.57	15,874.26	618.40	598.67	230.69	367.98	1.627	
26,300.00	9,162.68	9,176.53	9,163.96	129.15	242.55	90.49	15,874.53	618.40	582.84	211.51	371.33	1.570	
26,344.57	9,158.98	9,171.78	9,159.22	129.48	242.37	90.02	15,874.64	618.40	581.15	209.30	371.86	1.563	CC, ES, SF
26,400.00	9,154.39	9,166.03	9,153.47	129.89	242.16	89.46	15,874.76	618.40	583.76	212.16	371.60	1.571	
26,500.00	9,146.09	9,156.02	9,143.47	130.63	241.78	88.48	15,874.95	618.40	601.37	232.62	368.75	1.631	
26,600.00	9,137.80	9,146.48	9,133.93	131.38	241.42	87.54	15,875.11	618.40	634.28	270.80	363.48	1.745	
26,700.00	9,129.51	9,137.36	9,124.83	132.12	241.07	86.65	15,875.25	618.40	680.29	323.45	356.84	1.906	
26,800.00	9,121.22	9,128.65	9,116.12	132.86	240.74	85.80	15,875.36	618.40	736.96	387.20	349.76	2.107	
26,900.00	9,112.93	9,120.32	9,107.79	133.60	240.43	84.99	15,875.44	618.40	802.03	459.15	342.88	2.339	
27,000.00	9,104.63	9,112.33	9,099.81	134.34	240.13	84.21	15,875.51	618.40	873.64	537.11	336.53	2.596	
27,100.00	9,096.34	9,104.68	9,092.16	135.08	239.84	83.47	15,875.56	618.40	950.32	619.47	330.85	2.872	
27,200.00	9,088.05	9,097.34	9,084.82	135.82	239.56	82.76	15,875.59	618.40	1,030.94	705.09	325.85	3.164	
27,300.00	9,079.76	9,090.29	9,077.78	136.57	239.29	82.08	15,875.62	618.40	1,114.65	793.17	321.48	3.467	
27,400.00	9,071.46	9,083.52	9,071.01	137.31	239.04	81.43	15,875.62	618.40	1,200.80	883.13	317.68	3.780	
27,500.00	9,063.17	9,075.65	9,063.17	138.05	238.74	80.67	15,874.23	618.40	1,290.15	975.86	314.29	4.105	
27,600.00	9,054.88	9,067.36	9,054.88	138.80	238.43	79.88	15,874.23	618.40	1,379.86	1,068.49	311.37	4.432	
27,700.00	9,046.59	9,059.06	9,046.59	139.54	238.11	79.09	15,874.23	618.40	1,470.84	1,162.04	308.80	4.763	
27,800.00	9,038.29	9,050.77	9,038.29	140.29	237.80	78.30	15,874.23	618.40	1,562.88	1,256.35	306.53	5.099	
27,900.00	9,030.00	9,042.48	9,030.00	141.03	237.49	77.53	15,874.23	618.40	1,655.81	1,351.29	304.52	5.437	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 009 P & A - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Offset Well Error: 0.00 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)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
26,200.00	9,170.97	9,190.25	9,170.97	128.42	245.25	101.77	17,194.18	605.73	1,575.39	1,266.74	308.65	5.104	
26,300.00	9,162.68	9,181.95	9,162.68	129.15	244.94	100.99	17,194.18	605.73	1,483.26	1,172.70	310.56	4.776	
26,400.00	9,154.39	9,173.66	9,154.39	129.89	244.62	100.20	17,194.18	605.73	1,392.17	1,079.37	312.80	4.451	
26,500.00	9,146.09	9,165.37	9,146.09	130.63	244.31	99.41	17,194.18	605.73	1,302.33	986.89	315.44	4.129	
26,600.00	9,137.80	9,157.08	9,137.80	131.38	243.99	98.62	17,194.18	605.73	1,214.02	895.47	318.55	3.811	
26,700.00	9,129.51	9,148.78	9,129.51	132.12	243.68	97.82	17,194.18	605.73	1,127.61	805.39	322.22	3.500	
26,800.00	9,121.22	9,140.41	9,121.22	132.86	243.34	97.02	17,194.18	605.73	1,043.56	717.05	326.51	3.196	
26,900.00	9,112.93	9,132.11	9,112.93	133.60	242.99	96.22	17,194.18	605.73	962.49	630.96	331.54	2.903	
27,000.00	9,104.63	9,140.48	9,121.29	134.34	243.34	97.03	17,194.38	605.73	885.54	547.30	338.25	2.618	
27,100.00	9,096.34	9,120.87	9,101.70	135.08	242.53	95.14	17,194.72	605.73	813.26	468.92	344.34	2.362	
27,200.00	9,088.05	9,107.20	9,088.05	135.82	241.96	93.80	17,194.18	605.73	746.80	395.23	351.57	2.124	
27,300.00	9,079.76	9,098.90	9,079.76	136.57	241.62	92.99	17,194.18	605.73	688.86	329.34	359.52	1.916	
27,400.00	9,071.46	9,090.61	9,071.46	137.31	241.28	92.18	17,194.18	605.73	641.26	273.93	367.34	1.746	
27,500.00	9,063.17	9,082.32	9,063.17	138.05	240.94	91.37	17,194.18	605.73	606.44	232.39	374.06	1.621	
27,600.00	9,054.88	9,074.03	9,054.88	138.80	240.59	90.56	17,194.18	605.73	586.67	208.19	378.48	1.550	
27,668.77	9,049.18	9,068.45	9,049.44	139.31	240.36	90.03	17,194.22	605.73	582.66	202.99	379.67	1.535	CC, ES, SF
27,700.00	9,046.59	9,065.03	9,046.02	139.54	240.22	89.69	17,194.31	605.73	583.49	203.87	379.62	1.537	
27,800.00	9,038.29	9,054.77	9,035.77	140.29	239.78	88.69	17,194.55	605.73	597.09	219.88	377.22	1.583	
27,900.00	9,030.00	9,045.45	9,026.45	141.03	239.39	87.78	17,194.72	605.73	626.40	254.42	371.98	1.684	
28,000.00	9,021.71	9,036.93	9,017.95	141.78	239.02	86.95	17,194.84	605.73	669.37	304.39	364.98	1.834	
28,100.00	9,013.42	9,029.13	9,010.15	142.52	238.69	86.19	17,194.91	605.73	723.59	366.30	357.30	2.025	
28,200.00	9,005.12	9,021.96	9,002.98	143.27	238.39	85.49	17,194.95	605.73	786.75	437.07	349.69	2.250	
28,300.00	8,996.83	9,015.34	8,996.36	144.01	238.11	84.84	17,194.97	605.73	856.89	514.29	342.59	2.501	
28,400.00	8,988.54	9,007.49	8,988.54	144.76	237.78	84.08	17,194.18	605.73	933.03	596.92	336.11	2.776	
28,500.00	8,980.25	8,999.20	8,980.25	145.50	237.43	83.28	17,194.18	605.73	1,012.78	682.37	330.41	3.065	
28,563.28	8,975.00	8,993.95	8,975.00	145.98	237.20	82.77	17,194.18	605.73	1,064.98	737.81	327.17	3.255	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 010 P & A - Vertical - Surveys

Offset Site Error: 0.00 usft

Survey Program: 0-3_INC-Only

Rule Assigned:

Offset Well Error: 0.00 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
25,400.00	9,237.31	9,012.00	8,984.59	122.51	297.39	-33.42	16,532.22	-48.16	1,627.68	1,289.80	337.89	4.817	
25,500.00	9,229.02	9,012.00	8,984.59	123.25	297.39	-33.42	16,532.22	-48.16	1,528.09	1,190.21	337.88	4.523	
25,600.00	9,220.73	9,012.00	8,984.59	123.99	297.39	-33.42	16,532.22	-48.16	1,428.55	1,090.69	337.87	4.228	
25,700.00	9,212.43	9,012.00	8,984.59	124.72	297.39	-33.42	16,532.22	-48.16	1,329.09	991.24	337.84	3.934	
25,800.00	9,204.14	9,012.00	8,984.59	125.46	297.39	-33.42	16,532.22	-48.16	1,229.71	891.90	337.81	3.640	
25,900.00	9,195.85	9,012.00	8,984.59	126.20	297.39	-33.42	16,532.22	-48.16	1,130.44	792.67	337.77	3.347	
26,000.00	9,187.56	9,012.00	8,984.59	126.94	297.39	-33.42	16,532.22	-48.16	1,031.31	693.59	337.72	3.054	
26,100.00	9,179.26	9,012.00	8,984.59	127.68	297.39	-33.42	16,532.22	-48.16	932.36	594.71	337.66	2.761	
26,200.00	9,170.97	9,012.00	8,984.59	128.42	297.39	-33.42	16,532.22	-48.16	833.67	496.09	337.59	2.470	
26,300.00	9,162.68	9,012.00	8,984.59	129.15	297.39	-33.42	16,532.22	-48.16	735.34	397.83	337.50	2.179	
26,400.00	9,154.39	9,012.00	8,984.59	129.89	297.39	-33.42	16,532.22	-48.16	637.52	300.11	337.41	1.889	
26,500.00	9,146.09	9,012.00	8,984.59	130.63	297.39	-33.42	16,532.22	-48.16	540.49	203.21	337.28	1.603	
26,600.00	9,137.80	9,012.00	8,984.59	131.38	297.39	-33.42	16,532.22	-48.16	444.79	107.77	337.02	1.320	Level 3
26,700.00	9,129.51	9,012.00	8,984.59	132.12	297.39	-33.42	16,532.22	-48.16	351.50	15.27	336.22	1.045	Level 2
26,800.00	9,121.22	9,012.00	8,984.59	132.86	297.39	-33.42	16,532.22	-48.16	263.17	-69.87	333.04	0.790	Level 1
26,900.00	9,112.93	9,012.00	8,984.59	133.60	297.39	-33.42	16,532.22	-48.16	186.99	-132.94	319.93	0.584	Level 1
27,000.00	9,104.63	9,012.00	8,984.59	134.34	297.39	-33.42	16,532.22	-48.16	143.78	-152.15	295.93	0.486	Level 1
27,021.46	9,102.85	9,012.00	8,984.59	134.50	297.39	-33.42	16,532.22	-48.16	142.17	-156.87	299.04	0.475	Level 1, CC, SF
27,100.00	9,096.34	9,012.00	8,984.59	135.08	297.39	-33.42	16,532.22	-48.16	162.42	-173.48	335.90	0.484	Level 1, ES
27,200.00	9,088.05	9,012.00	8,984.59	135.82	297.39	-33.42	16,532.22	-48.16	228.23	-128.90	357.13	0.639	Level 1
27,300.00	9,079.76	9,012.00	8,984.59	136.57	297.39	-33.42	16,532.22	-48.16	312.72	-45.23	357.95	0.874	Level 1
27,400.00	9,071.46	9,012.00	8,984.59	137.31	297.39	-33.42	16,532.22	-48.16	404.36	48.88	355.48	1.138	Level 2
27,500.00	9,063.17	9,012.00	8,984.59	138.05	297.39	-33.42	16,532.22	-48.16	499.21	146.10	353.11	1.414	Level 3
27,600.00	9,054.88	9,012.00	8,984.59	138.80	297.39	-33.42	16,532.22	-48.16	595.75	244.47	351.29	1.696	
27,700.00	9,046.59	9,012.00	8,984.59	139.54	297.39	-33.42	16,532.22	-48.16	693.27	343.36	349.92	1.981	
27,800.00	9,038.29	9,012.00	8,984.59	140.29	297.39	-33.42	16,532.22	-48.16	791.41	442.52	348.89	2.268	
27,900.00	9,030.00	9,012.00	8,984.59	141.03	297.39	-33.42	16,532.22	-48.16	889.97	541.85	348.11	2.557	
28,000.00	9,021.71	9,012.00	8,984.59	141.78	297.39	-33.42	16,532.22	-48.16	988.81	641.30	347.52	2.845	
28,100.00	9,013.42	9,012.00	8,984.59	142.52	297.39	-33.42	16,532.22	-48.16	1,087.87	740.82	347.05	3.135	
28,200.00	9,005.12	9,012.00	8,984.59	143.27	297.39	-33.42	16,532.22	-48.16	1,187.08	840.40	346.69	3.424	
28,300.00	8,996.83	9,012.00	8,984.59	144.01	297.39	-33.42	16,532.22	-48.16	1,286.42	940.02	346.40	3.714	
28,400.00	8,988.54	9,012.00	8,984.59	144.76	297.39	-33.42	16,532.22	-48.16	1,385.85	1,039.68	346.17	4.003	
28,500.00	8,980.25	9,007.38	8,980.25	145.50	297.15	-32.48	16,532.22	-48.16	1,485.35	1,139.49	345.86	4.295	
28,563.28	8,975.00	9,002.14	8,975.00	145.98	296.89	-31.41	16,532.22	-48.16	1,548.33	1,202.70	345.63	4.480	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 012 P & A - OH - Surveys

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 7960-MWD OWSG Rev5

Rule Assigned:

Offset Well Error: 0.00 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
26,800.00	9,121.22	9,294.81	9,257.99	132.86	28.22	119.15	17,851.20	486.94	1,600.97	1,511.14	89.83	17.823	
26,900.00	9,112.93	9,251.83	9,215.17	133.60	28.21	115.09	17,854.90	486.55	1,507.07	1,416.36	90.71	16.614	
27,000.00	9,104.63	9,249.53	9,212.89	134.34	28.21	114.87	17,855.26	486.50	1,413.78	1,320.88	92.90	15.218	
27,100.00	9,096.34	9,216.80	9,180.27	135.08	28.21	111.55	17,857.79	486.23	1,321.05	1,226.46	94.59	13.966	
27,200.00	9,088.05	9,188.98	9,152.50	135.82	28.20	108.60	17,859.59	486.04	1,229.09	1,132.29	96.80	12.698	
27,300.00	9,079.76	9,170.42	9,133.97	136.57	28.20	106.57	17,860.65	485.91	1,138.19	1,038.46	99.73	11.413	
27,400.00	9,071.46	9,153.82	9,117.39	137.31	28.20	104.72	17,861.57	485.73	1,048.72	945.42	103.30	10.152	
27,500.00	9,063.17	9,127.46	9,091.07	138.05	28.21	101.71	17,862.86	485.32	961.03	853.67	107.35	8.952	
27,600.00	9,054.88	9,110.37	9,074.00	138.80	28.21	99.72	17,863.56	484.97	875.65	763.10	112.55	7.780	
27,700.00	9,046.59	9,096.05	9,059.70	139.54	28.21	98.03	17,864.11	484.63	793.46	674.56	118.90	6.674	
27,800.00	9,038.29	9,083.73	9,047.39	140.29	28.21	96.56	17,864.57	484.32	715.59	589.04	126.55	5.655	
27,900.00	9,030.00	9,072.80	9,036.47	141.03	28.21	95.26	17,865.01	484.03	643.65	508.08	135.57	4.748	
28,000.00	9,021.71	9,061.34	9,025.03	141.78	28.21	93.88	17,865.50	483.73	579.85	434.14	145.71	3.980	
28,100.00	9,013.42	9,049.70	9,013.40	142.52	28.21	92.47	17,866.04	483.43	527.14	370.90	156.24	3.374	
28,200.00	9,005.12	9,037.70	9,001.42	143.27	28.21	91.01	17,866.62	483.14	489.09	323.51	165.59	2.954	
28,300.00	8,996.83	9,025.13	8,988.87	144.01	28.21	89.49	17,867.27	482.84	469.28	297.77	171.51	2.736	
28,346.64	8,992.96	9,018.88	8,982.63	144.36	28.21	88.73	17,867.60	482.70	467.00	294.46	172.54	2.707	CC, ES, SF
28,400.00	8,988.54	9,011.67	8,975.43	144.76	28.21	87.85	17,867.99	482.54	469.98	297.77	172.21	2.729	
28,500.00	8,980.25	8,998.03	8,961.81	145.50	28.22	86.20	17,868.73	482.24	491.09	323.44	167.65	2.929	
28,563.28	8,975.00	8,990.45	8,954.25	145.98	28.22	85.28	17,869.15	482.08	513.95	351.18	162.78	3.157	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - (O) STATE AN 012 P & A - ST01 - ST01

Offset Site Error: 0.00 usft

Survey Program: 100-r.5 GYRO-NS, 7960-MWD OWSG Rev5, 11516-MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.00 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
26,800.00	9,121.22	9,294.81	9,257.99	132.86	28.22	119.15	17,851.20	486.94	1,600.97	1,511.14	89.83	17.823	
26,900.00	9,112.93	9,251.83	9,215.17	133.60	28.21	115.09	17,854.90	486.55	1,507.07	1,416.36	90.71	16.614	
27,000.00	9,104.63	9,249.53	9,212.89	134.34	28.21	114.87	17,855.26	486.50	1,413.78	1,320.88	92.90	15.218	
27,100.00	9,096.34	9,216.80	9,180.27	135.08	28.21	111.55	17,857.79	486.23	1,321.05	1,226.46	94.59	13.966	
27,200.00	9,088.05	9,188.98	9,152.50	135.82	28.20	108.60	17,859.59	486.04	1,229.09	1,132.29	96.80	12.698	
27,300.00	9,079.76	9,170.42	9,133.97	136.57	28.20	106.57	17,860.65	485.91	1,138.19	1,038.46	99.73	11.413	
27,400.00	9,071.46	9,153.82	9,117.39	137.31	28.20	104.72	17,861.57	485.73	1,048.72	945.42	103.30	10.152	
27,500.00	9,063.17	9,127.46	9,091.07	138.05	28.21	101.71	17,862.86	485.32	961.03	853.67	107.35	8.952	
27,600.00	9,054.88	9,110.37	9,074.00	138.80	28.21	99.72	17,863.56	484.97	875.65	763.10	112.55	7.780	
27,700.00	9,046.59	9,096.05	9,059.70	139.54	28.21	98.03	17,864.11	484.63	793.46	674.56	118.90	6.674	
27,800.00	9,038.29	9,083.73	9,047.39	140.29	28.21	96.56	17,864.57	484.32	715.59	589.04	126.55	5.655	
27,900.00	9,030.00	9,072.80	9,036.47	141.03	28.21	95.26	17,865.01	484.03	643.65	508.08	135.57	4.748	
28,000.00	9,021.71	9,061.34	9,025.03	141.78	28.21	93.88	17,865.50	483.73	579.85	434.14	145.71	3.980	
28,100.00	9,013.42	9,049.70	9,013.40	142.52	28.21	92.47	17,866.04	483.43	527.14	370.90	156.24	3.374	
28,200.00	9,005.12	9,037.70	9,001.42	143.27	28.21	91.01	17,866.62	483.14	489.09	323.51	165.59	2.954	
28,300.00	8,996.83	9,025.13	8,988.87	144.01	28.21	89.49	17,867.27	482.84	469.28	297.77	171.51	2.736	
28,346.64	8,992.96	9,018.88	8,982.63	144.36	28.21	88.73	17,867.60	482.70	467.00	294.46	172.54	2.707	CC, ES, SF
28,400.00	8,988.54	9,011.67	8,975.43	144.76	28.21	87.85	17,867.99	482.54	469.98	297.77	172.21	2.729	
28,500.00	8,980.25	8,998.03	8,961.81	145.50	28.22	86.20	17,868.73	482.24	491.09	323.44	167.65	2.929	
28,563.28	8,975.00	8,990.45	8,954.25	145.98	28.22	85.28	17,869.15	482.08	513.95	351.18	162.78	3.157	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 503H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
0.00	0.00	0.10	0.00	0.00	0.00	-90.23	-0.08	-20.00	20.00				
100.00	100.00	100.10	100.00	0.28	0.28	-90.23	-0.08	-20.00	20.00	19.45	0.55	36.206	
200.00	200.00	200.10	200.00	0.63	0.63	-90.23	-0.08	-20.00	20.00	18.73	1.27	15.756	
300.00	300.00	300.10	300.00	0.99	0.99	-90.23	-0.08	-20.00	20.00	18.01	1.99	10.069	
400.00	400.00	400.10	400.00	1.35	1.35	-90.23	-0.08	-20.00	20.00	17.30	2.70	7.399	
500.00	500.00	500.10	500.00	1.71	1.71	-90.23	-0.08	-20.00	20.00	16.58	3.42	5.848	
600.00	600.00	600.10	600.00	2.07	2.07	-90.23	-0.08	-20.00	20.00	15.86	4.14	4.834	
700.00	700.00	700.10	700.00	2.43	2.43	-90.23	-0.08	-20.00	20.00	15.15	4.85	4.120	
800.00	800.00	800.10	800.00	2.79	2.79	-90.23	-0.08	-20.00	20.00	14.43	5.57	3.590	
900.00	900.00	900.10	900.00	3.14	3.14	-90.23	-0.08	-20.00	20.00	13.71	6.29	3.181	
1,000.00	1,000.00	1,000.10	1,000.00	3.50	3.50	-90.23	-0.08	-20.00	20.00	13.00	7.00	2.855	
1,100.00	1,100.00	1,100.10	1,100.00	3.86	3.86	-90.23	-0.08	-20.00	20.00	12.28	7.72	2.590	
1,200.00	1,200.00	1,200.10	1,200.00	4.22	4.22	-90.23	-0.08	-20.00	20.00	11.56	8.44	2.370	
1,300.00	1,300.00	1,300.10	1,300.00	4.58	4.58	-90.23	-0.08	-20.00	20.00	10.84	9.16	2.184	
1,400.00	1,400.00	1,400.10	1,400.00	4.94	4.94	-90.23	-0.08	-20.00	20.00	10.13	9.87	2.026	
1,500.00	1,500.00	1,500.10	1,500.00	5.29	5.29	-90.23	-0.08	-20.00	20.00	9.41	10.59	1.889	
1,600.00	1,600.00	1,600.10	1,600.00	5.65	5.65	-90.23	-0.08	-20.00	20.00	8.69	11.31	1.769	CC, ES
1,700.00	1,699.98	1,700.08	1,699.98	6.00	6.01	134.86	-0.08	-20.00	21.19	9.19	12.01	1.765	SF
1,800.00	1,799.84	1,799.94	1,799.84	6.33	6.37	143.29	-0.08	-20.00	25.16	12.47	12.69	1.982	
1,900.00	1,899.49	1,898.93	1,898.81	6.66	6.71	149.59	-1.07	-21.39	33.18	19.81	13.37	2.482	
2,000.00	1,999.11	1,997.59	1,997.34	7.00	7.04	149.91	-4.03	-25.55	43.76	29.74	14.02	3.121	
2,100.00	2,098.73	2,095.72	2,095.10	7.33	7.37	147.30	-8.93	-32.42	56.41	41.74	14.67	3.846	
2,200.00	2,198.35	2,194.65	2,193.49	7.68	7.70	144.49	-14.92	-40.84	70.33	55.00	15.33	4.588	
2,300.00	2,297.97	2,293.63	2,291.92	8.02	8.04	142.60	-20.92	-49.26	84.37	68.37	16.00	5.273	
2,400.00	2,397.59	2,392.61	2,390.36	8.36	8.38	141.25	-26.93	-57.68	98.48	81.80	16.68	5.904	
2,500.00	2,497.21	2,491.58	2,488.79	8.71	8.72	140.24	-32.93	-66.10	112.62	95.26	17.36	6.487	
2,600.00	2,596.83	2,590.56	2,587.23	9.06	9.06	139.45	-38.93	-74.53	126.79	108.75	18.05	7.026	
2,700.00	2,696.45	2,689.54	2,685.66	9.41	9.41	138.83	-44.93	-82.95	140.98	122.25	18.73	7.526	
2,800.00	2,796.07	2,788.52	2,784.10	9.76	9.75	138.32	-50.93	-91.37	155.19	135.76	19.42	7.989	
2,900.00	2,895.69	2,887.49	2,882.54	10.11	10.10	137.89	-56.93	-99.80	169.40	149.28	20.12	8.420	
3,000.00	2,995.31	2,986.47	2,980.97	10.46	10.45	137.53	-62.93	-108.22	183.62	162.81	20.81	8.822	
3,100.00	3,094.93	3,085.45	3,079.41	10.81	10.80	137.22	-68.93	-116.64	197.85	176.34	21.51	9.197	
3,200.00	3,194.55	3,184.43	3,177.84	11.17	11.14	136.95	-74.93	-125.06	212.08	189.87	22.21	9.548	
3,300.00	3,294.17	3,283.40	3,276.28	11.52	11.50	136.72	-80.93	-133.49	226.32	203.40	22.91	9.877	
3,400.00	3,393.79	3,382.38	3,374.72	11.88	11.85	136.51	-86.93	-141.91	240.55	216.94	23.62	10.186	
3,500.00	3,493.41	3,481.36	3,473.15	12.23	12.20	136.33	-92.93	-150.33	254.80	230.48	24.32	10.477	
3,600.00	3,593.02	3,580.34	3,571.59	12.59	12.55	136.17	-98.93	-158.75	269.04	244.01	25.03	10.751	
3,700.00	3,692.64	3,679.32	3,670.02	12.95	12.91	136.02	-104.93	-167.18	283.29	257.55	25.73	11.009	
3,800.00	3,792.26	3,778.29	3,768.46	13.30	13.26	135.89	-110.93	-175.60	297.53	271.09	26.44	11.253	
3,900.00	3,891.88	3,877.27	3,866.89	13.66	13.61	135.77	-116.93	-184.02	311.78	284.63	27.15	11.484	
4,000.00	3,991.50	3,976.25	3,965.33	14.02	13.97	135.66	-122.93	-192.45	326.03	298.17	27.86	11.703	
4,100.00	4,091.12	4,075.23	4,063.77	14.38	14.32	135.56	-128.93	-200.87	340.28	311.71	28.57	11.911	
4,200.00	4,190.74	4,174.20	4,162.20	14.74	14.68	135.46	-134.93	-209.29	354.54	325.26	29.28	12.108	
4,300.00	4,290.36	4,273.18	4,260.64	15.10	15.04	135.38	-140.94	-217.71	368.79	338.80	29.99	12.296	
4,400.00	4,389.98	4,372.16	4,359.07	15.45	15.39	135.30	-146.94	-226.14	383.04	352.34	30.71	12.474	
4,500.00	4,489.60	4,471.14	4,457.51	15.81	15.75	135.23	-152.94	-234.56	397.30	365.88	31.42	12.645	
4,600.00	4,589.22	4,570.11	4,555.95	16.17	16.11	135.16	-158.94	-242.98	411.55	379.42	32.13	12.807	
4,700.00	4,688.84	4,669.09	4,654.38	16.53	16.47	135.09	-164.94	-251.41	425.81	392.96	32.85	12.963	
4,800.00	4,788.46	4,768.07	4,752.82	16.90	16.82	135.03	-170.94	-259.83	440.07	406.50	33.56	13.111	
4,900.00	4,888.08	4,867.05	4,851.25	17.26	17.18	134.98	-176.94	-268.25	454.32	420.04	34.28	13.253	
5,000.00	4,987.70	4,966.02	4,949.69	17.62	17.54	134.92	-182.94	-276.67	468.58	433.58	35.00	13.390	
5,100.00	5,087.32	5,065.00	5,048.12	17.98	17.90	134.87	-188.94	-285.10	482.84	447.12	35.71	13.520	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 503H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
5,200.00	5,186.94	5,163.98	5,146.56	18.34	18.26	134.83	-194.94	-293.52	497.09	460.66	36.43	13.645	
5,300.00	5,286.61	5,263.02	5,245.06	18.70	18.62	134.85	-200.94	-301.95	510.89	473.75	37.15	13.753	
5,400.00	5,386.49	5,362.29	5,343.79	19.06	18.98	134.67	-206.96	-310.39	522.44	484.58	37.86	13.799	
5,500.00	5,486.47	5,461.72	5,442.67	19.40	19.34	-87.37	-212.99	-318.86	531.60	493.03	38.57	13.784	
5,600.00	5,586.47	5,561.17	5,541.58	19.74	19.70	-88.06	-219.02	-327.32	539.88	500.61	39.26	13.750	
5,700.00	5,686.47	5,660.62	5,640.49	20.08	20.06	-88.72	-225.05	-335.78	548.23	508.27	39.96	13.718	
5,800.00	5,786.47	5,765.48	5,744.79	20.42	20.44	-89.38	-231.29	-344.54	556.51	515.81	40.71	13.672	
5,900.00	5,886.47	5,884.02	5,863.01	20.77	20.87	-89.89	-236.23	-351.48	562.35	520.82	41.53	13.542	
6,000.00	5,986.47	6,003.05	5,981.98	21.11	21.29	-90.11	-238.34	-354.44	564.84	522.53	42.31	13.350	
6,100.00	6,086.47	6,107.54	6,086.47	21.45	21.65	-90.12	-238.42	-354.55	564.93	521.93	43.01	13.136	
6,200.00	6,186.47	6,207.54	6,186.47	21.79	21.99	-90.12	-238.42	-354.55	564.93	521.24	43.69	12.931	
6,300.00	6,286.47	6,307.54	6,286.47	22.14	22.33	-90.12	-238.42	-354.55	564.93	520.56	44.37	12.732	
6,400.00	6,386.47	6,407.54	6,386.47	22.48	22.67	-90.12	-238.42	-354.55	564.93	519.88	45.05	12.539	
6,500.00	6,486.47	6,507.54	6,486.47	22.82	23.01	-90.12	-238.42	-354.55	564.93	519.19	45.74	12.351	
6,600.00	6,586.47	6,607.54	6,586.47	23.17	23.36	-90.12	-238.42	-354.55	564.93	518.51	46.42	12.169	
6,700.00	6,686.47	6,707.54	6,686.47	23.51	23.70	-90.12	-238.42	-354.55	564.93	517.82	47.11	11.991	
6,800.00	6,786.47	6,807.54	6,786.47	23.86	24.04	-90.12	-238.42	-354.55	564.93	517.13	47.80	11.819	
6,900.00	6,886.47	6,907.54	6,886.47	24.21	24.39	-90.12	-238.42	-354.55	564.93	516.44	48.49	11.651	
7,000.00	6,986.47	7,007.54	6,986.47	24.55	24.73	-90.12	-238.42	-354.55	564.93	515.75	49.18	11.488	
7,100.00	7,086.47	7,107.54	7,086.47	24.90	25.08	-90.12	-238.42	-354.55	564.93	515.06	49.87	11.329	
7,200.00	7,186.47	7,207.54	7,186.47	25.25	25.42	-90.12	-238.42	-354.55	564.93	514.37	50.56	11.174	
7,300.00	7,286.47	7,307.54	7,286.47	25.59	25.77	-90.12	-238.42	-354.55	564.93	513.68	51.25	11.023	
7,400.00	7,386.47	7,407.54	7,386.47	25.94	26.11	-90.12	-238.42	-354.55	564.93	512.99	51.94	10.876	
7,500.00	7,486.47	7,507.54	7,486.47	26.29	26.46	-90.12	-238.42	-354.55	564.93	512.30	52.63	10.733	
7,600.00	7,586.47	7,607.54	7,586.47	26.64	26.80	-90.12	-238.42	-354.55	564.93	511.60	53.33	10.594	
7,700.00	7,686.47	7,707.54	7,686.47	26.99	27.15	-90.12	-238.42	-354.55	564.93	510.91	54.02	10.457	
7,800.00	7,786.47	7,807.54	7,786.47	27.33	27.50	-90.12	-238.42	-354.55	564.93	510.21	54.72	10.325	
7,900.00	7,886.47	7,907.54	7,886.47	27.68	27.85	-90.12	-238.42	-354.55	564.93	509.52	55.41	10.195	
8,000.00	7,986.47	8,007.54	7,986.47	28.03	28.19	-90.12	-238.42	-354.55	564.93	508.82	56.11	10.069	
8,100.00	8,086.47	8,107.54	8,086.47	28.38	28.54	-90.12	-238.42	-354.55	564.93	508.13	56.80	9.945	
8,200.00	8,186.47	8,207.54	8,186.47	28.73	28.89	-90.12	-238.42	-354.55	564.93	507.43	57.50	9.825	
8,300.00	8,286.47	8,307.54	8,286.47	29.08	29.24	-90.12	-238.42	-354.55	564.93	506.73	58.20	9.707	
8,400.00	8,386.47	8,407.54	8,386.47	29.43	29.59	-90.12	-238.42	-354.55	564.93	506.03	58.90	9.592	
8,500.00	8,486.47	8,507.54	8,486.47	29.78	29.94	-90.12	-238.42	-354.55	564.93	505.34	59.59	9.480	
8,600.00	8,586.47	8,607.54	8,586.47	30.13	30.29	-90.12	-238.42	-354.55	564.93	504.64	60.29	9.370	
8,700.00	8,686.47	8,707.54	8,686.47	30.48	30.64	-90.12	-238.42	-354.55	564.93	503.94	60.99	9.262	
8,800.00	8,786.47	8,807.54	8,786.47	30.84	30.99	-90.12	-238.42	-354.55	564.93	503.24	61.69	9.157	
8,900.00	8,886.47	8,907.54	8,886.47	31.19	31.34	-90.12	-238.42	-354.55	564.93	502.54	62.39	9.054	
9,000.00	8,986.47	9,007.54	8,986.47	31.54	31.69	-90.12	-238.42	-354.55	564.93	501.84	63.09	8.954	
9,100.00	9,086.47	9,107.54	9,086.47	31.89	32.04	-90.12	-238.42	-354.55	564.93	501.14	63.79	8.856	
9,200.00	9,186.47	9,207.54	9,186.47	32.24	32.39	-90.12	-238.42	-354.55	564.93	500.44	64.49	8.759	
9,300.00	9,286.47	9,307.54	9,286.47	32.59	32.74	-90.12	-238.42	-354.55	564.93	499.74	65.20	8.665	
9,400.00	9,386.47	9,407.54	9,386.47	32.95	33.09	-90.12	-238.42	-354.55	564.93	499.03	65.90	8.573	
9,410.78	9,397.26	9,418.33	9,397.26	32.98	33.13	-90.12	-238.42	-354.55	564.93	498.96	65.97	8.563	
9,500.00	9,486.47	9,507.41	9,486.34	33.30	33.44	-90.10	-238.22	-354.55	564.93	498.33	66.60	8.483	
9,600.00	9,586.47	9,605.07	9,583.27	33.65	33.78	-88.99	-227.35	-354.67	565.15	497.86	67.29	8.399	
9,700.00	9,686.47	9,696.57	9,671.19	34.00	34.07	-86.47	-202.37	-354.94	566.60	498.67	67.93	8.341	
9,800.00	9,786.47	9,778.40	9,745.58	34.35	34.32	-83.06	-168.44	-355.31	571.33	502.89	68.44	8.348	
9,900.00	9,886.43	9,850.00	9,806.13	34.71	34.51	-78.28	-130.31	-355.72	581.36	512.70	68.66	8.467	
10,000.00	9,984.97	9,917.61	9,858.53	35.05	34.68	-73.73	-87.65	-356.18	595.07	526.53	68.54	8.683	
10,100.00	10,079.19	9,983.14	9,904.18	35.37	34.82	-69.58	-40.69	-356.69	610.53	542.45	68.08	8.967	
10,200.00	10,166.23	10,050.00	9,944.92	35.65	34.95	-65.84	12.27	-357.26	626.36	558.93	67.43	9.289	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 503H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
10,300.00	10,243.43	10,109.99	9,976.00	35.91	35.06	-62.86	63.54	-357.82	641.29	574.76	66.53	9.639	
10,400.00	10,308.47	10,171.98	10,002.31	36.13	35.15	-60.39	119.64	-358.42	654.37	588.70	65.67	9.965	
10,500.00	10,359.35	10,233.37	10,022.24	36.31	35.24	-58.55	177.67	-359.05	664.81	599.89	64.92	10.240	
10,600.00	10,394.53	10,300.00	10,038.14	36.45	35.31	-57.40	242.36	-359.75	671.30	606.82	64.49	10.410	
10,700.00	10,416.72	10,382.65	10,052.56	36.57	35.40	-56.96	323.72	-360.63	674.05	609.61	64.44	10.460	
10,800.00	10,430.32	10,458.24	10,060.57	36.67	35.47	-56.73	398.87	-361.44	675.70	611.25	64.45	10.484	
10,900.00	10,435.22	10,533.77	10,063.62	36.76	35.54	-56.66	474.32	-362.25	676.18	611.59	64.59	10.469	
11,000.00	10,431.41	10,609.30	10,061.69	36.87	35.62	-56.76	549.81	-363.07	675.49	610.60	64.89	10.410	
11,100.00	10,423.12	10,701.00	10,054.56	37.00	35.74	-56.79	641.22	-364.05	675.17	609.95	65.22	10.352	
11,200.00	10,414.83	10,801.00	10,046.48	37.15	35.88	-56.81	740.89	-365.12	675.05	609.49	65.56	10.296	
11,300.00	10,406.54	10,901.00	10,038.39	37.31	36.05	-56.82	840.56	-366.19	674.94	609.00	65.94	10.236	
11,400.00	10,398.24	11,001.00	10,030.30	37.49	36.22	-56.84	940.22	-367.26	674.83	608.48	66.35	10.171	
11,500.00	10,389.95	11,101.00	10,022.22	37.68	36.42	-56.85	1,039.89	-368.33	674.71	607.92	66.79	10.101	
11,600.00	10,381.66	11,201.00	10,014.13	37.89	36.63	-56.87	1,139.56	-369.40	674.60	607.33	67.27	10.028	
11,700.00	10,373.37	11,301.00	10,006.05	38.12	36.85	-56.88	1,239.22	-370.47	674.49	606.71	67.78	9.951	
11,800.00	10,365.07	11,401.00	9,997.96	38.35	37.09	-56.90	1,338.89	-371.55	674.37	606.06	68.32	9.871	
11,900.00	10,356.78	11,501.00	9,989.88	38.60	37.34	-56.91	1,438.56	-372.62	674.26	605.37	68.89	9.788	
12,000.00	10,348.49	11,601.00	9,981.79	38.87	37.61	-56.93	1,538.22	-373.69	674.15	604.66	69.49	9.701	
12,100.00	10,340.20	11,701.00	9,973.70	39.15	37.89	-56.94	1,637.89	-374.76	674.04	603.92	70.12	9.613	
12,200.00	10,331.90	11,801.00	9,965.62	39.44	38.19	-56.96	1,737.56	-375.83	673.92	603.15	70.78	9.522	
12,300.00	10,323.61	11,901.00	9,957.53	39.74	38.50	-56.97	1,837.22	-376.90	673.81	602.35	71.46	9.429	
12,400.00	10,315.32	12,001.00	9,949.45	40.06	38.82	-56.98	1,936.89	-377.97	673.70	601.52	72.17	9.334	
12,500.00	10,307.03	12,101.00	9,941.36	40.39	39.15	-57.00	2,036.56	-379.04	673.58	600.67	72.91	9.238	
12,600.00	10,298.73	12,201.00	9,933.28	40.73	39.50	-57.01	2,136.22	-380.11	673.47	599.80	73.67	9.141	
12,700.00	10,290.44	12,301.00	9,925.19	41.08	39.86	-57.03	2,235.89	-381.18	673.36	598.90	74.46	9.043	
12,800.00	10,282.15	12,401.00	9,917.10	41.45	40.22	-57.04	2,335.56	-382.26	673.24	597.97	75.27	8.944	
12,900.00	10,273.86	12,501.00	9,909.02	41.82	40.61	-57.06	2,435.22	-383.33	673.13	597.03	76.10	8.845	
13,000.00	10,265.56	12,601.00	9,900.93	42.21	41.00	-57.07	2,534.89	-384.40	673.02	596.06	76.96	8.745	
13,100.00	10,257.27	12,701.00	9,892.85	42.61	41.40	-57.09	2,634.56	-385.47	672.91	595.07	77.84	8.645	
13,200.00	10,248.98	12,801.00	9,884.76	43.01	41.81	-57.10	2,734.22	-386.54	672.79	594.06	78.73	8.545	
13,300.00	10,240.69	12,901.00	9,876.68	43.43	42.23	-57.12	2,833.89	-387.61	672.68	593.03	79.65	8.445	
13,400.00	10,232.40	13,001.00	9,868.59	43.85	42.67	-57.13	2,933.56	-388.68	672.57	591.98	80.59	8.346	
13,500.00	10,224.10	13,101.00	9,860.50	44.29	43.11	-57.15	3,033.22	-389.75	672.46	590.92	81.54	8.247	
13,600.00	10,215.81	13,201.00	9,852.42	44.73	43.56	-57.16	3,132.89	-390.82	672.34	589.83	82.51	8.148	
13,700.00	10,207.52	13,301.00	9,844.33	45.19	44.02	-57.18	3,232.56	-391.89	672.23	588.73	83.51	8.050	
13,800.00	10,199.23	13,401.00	9,836.25	45.65	44.49	-57.19	3,332.22	-392.96	672.12	587.61	84.51	7.953	
13,900.00	10,190.93	13,501.00	9,828.16	46.12	44.96	-57.21	3,431.89	-394.04	672.01	586.47	85.54	7.856	
14,000.00	10,182.64	13,601.00	9,820.08	46.60	45.45	-57.22	3,531.56	-395.11	671.90	585.32	86.57	7.761	
14,100.00	10,174.35	13,701.00	9,811.99	47.08	45.94	-57.24	3,631.22	-396.18	671.78	584.16	87.63	7.666	
14,200.00	10,166.06	13,801.00	9,803.90	47.58	46.44	-57.25	3,730.89	-397.25	671.67	582.97	88.70	7.573	
14,300.00	10,157.76	13,901.00	9,795.82	48.08	46.95	-57.27	3,830.56	-398.32	671.56	581.78	89.78	7.480	
14,400.00	10,149.47	14,001.00	9,787.73	48.58	47.46	-57.28	3,930.22	-399.39	671.45	580.57	90.87	7.389	
14,500.00	10,141.18	14,101.00	9,779.65	49.10	47.98	-57.30	4,029.89	-400.46	671.33	579.35	91.98	7.299	
14,600.00	10,132.89	14,201.00	9,771.56	49.62	48.51	-57.31	4,129.56	-401.53	671.22	578.12	93.10	7.209	
14,700.00	10,124.59	14,301.00	9,763.47	50.15	49.04	-57.33	4,229.22	-402.60	671.11	576.87	94.24	7.122	
14,800.00	10,116.30	14,401.00	9,755.39	50.68	49.59	-57.34	4,328.89	-403.67	671.00	575.62	95.38	7.035	
14,900.00	10,108.01	14,501.00	9,747.30	51.22	50.13	-57.36	4,428.56	-404.75	670.89	574.35	96.54	6.950	
15,000.00	10,099.72	14,601.00	9,739.22	51.77	50.68	-57.37	4,528.22	-405.82	670.78	573.07	97.70	6.865	
15,100.00	10,091.42	14,701.00	9,731.13	52.32	51.24	-57.39	4,627.89	-406.89	670.66	571.78	98.88	6.783	
15,200.00	10,083.13	14,800.99	9,723.05	52.87	51.81	-57.40	4,727.56	-407.96	670.55	570.48	100.07	6.701	
15,300.00	10,074.84	14,900.99	9,714.96	53.44	52.37	-57.42	4,827.22	-409.03	670.44	569.17	101.27	6.621	
15,400.00	10,066.55	15,000.99	9,706.87	54.00	52.95	-57.43	4,926.89	-410.10	670.33	567.86	102.47	6.542	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 503H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
15,500.00	10,058.26	15,100.99	9,698.79	54.57	53.53	-57.45	5,026.56	-411.17	670.22	566.53	103.69	6.464	
15,600.00	10,049.96	15,200.99	9,690.70	55.15	54.11	-57.46	5,126.22	-412.24	670.11	565.19	104.91	6.387	
15,700.00	10,041.67	15,300.99	9,682.62	55.73	54.70	-57.48	5,225.89	-413.31	669.99	563.85	106.14	6.312	
15,800.00	10,033.38	15,400.99	9,674.53	56.32	55.29	-57.49	5,325.56	-414.38	669.88	562.50	107.38	6.238	
15,900.00	10,025.09	15,500.99	9,666.45	56.91	55.89	-57.51	5,425.22	-415.45	669.77	561.14	108.63	6.165	
16,000.00	10,016.79	15,600.99	9,658.36	57.51	56.49	-57.52	5,524.89	-416.53	669.66	559.77	109.89	6.094	
16,100.00	10,008.50	15,700.99	9,650.27	58.10	57.10	-57.54	5,624.55	-417.60	669.55	558.40	111.15	6.024	
16,200.00	10,000.21	15,800.99	9,642.19	58.71	57.70	-57.55	5,724.22	-418.67	669.44	557.01	112.42	5.955	
16,300.00	9,991.92	15,900.99	9,634.10	59.31	58.32	-57.56	5,823.89	-419.74	669.33	555.63	113.70	5.887	
16,400.00	9,983.62	16,000.99	9,626.02	59.92	58.93	-57.58	5,923.55	-420.81	669.22	554.23	114.98	5.820	
16,500.00	9,975.33	16,100.99	9,617.93	60.54	59.55	-57.59	6,023.22	-421.88	669.10	552.83	116.27	5.755	
16,600.00	9,967.04	16,200.99	9,609.85	61.16	60.18	-57.61	6,122.89	-422.95	668.99	551.42	117.57	5.690	
16,700.00	9,958.75	16,300.99	9,601.76	61.78	60.81	-57.62	6,222.55	-424.02	668.88	550.01	118.87	5.627	
16,800.00	9,950.45	16,400.99	9,593.67	62.40	61.44	-57.64	6,322.22	-425.09	668.77	548.59	120.18	5.565	
16,900.00	9,942.16	16,500.99	9,585.59	63.03	62.07	-57.65	6,421.89	-426.16	668.66	547.16	121.50	5.504	
17,000.00	9,933.87	16,600.99	9,577.50	63.66	62.71	-57.67	6,521.55	-427.24	668.55	545.73	122.81	5.444	
17,100.00	9,925.58	16,700.99	9,569.42	64.30	63.35	-57.68	6,621.22	-428.31	668.44	544.30	124.14	5.385	
17,200.00	9,917.29	16,800.99	9,561.33	64.93	63.99	-57.70	6,720.89	-429.38	668.33	542.86	125.47	5.327	
17,300.00	9,908.99	16,900.99	9,553.25	65.57	64.63	-57.71	6,820.55	-430.45	668.22	541.41	126.80	5.270	
17,400.00	9,900.70	17,000.99	9,545.16	66.22	65.28	-57.73	6,920.22	-431.52	668.11	539.96	128.14	5.214	
17,500.00	9,892.41	17,100.99	9,537.07	66.86	65.93	-57.75	7,019.89	-432.59	668.00	538.51	129.49	5.159	
17,600.00	9,884.12	17,200.99	9,528.99	67.51	66.59	-57.76	7,119.55	-433.66	667.89	537.05	130.84	5.105	
17,700.00	9,875.82	17,300.99	9,520.90	68.16	67.24	-57.78	7,219.22	-434.73	667.77	535.59	132.19	5.052	
17,800.00	9,867.53	17,400.99	9,512.82	68.81	67.90	-57.79	7,318.89	-435.80	667.66	534.12	133.54	5.000	
17,900.00	9,859.24	17,500.99	9,504.73	69.47	68.56	-57.81	7,418.55	-436.87	667.55	532.65	134.91	4.948	
18,000.00	9,850.95	17,600.99	9,496.65	70.13	69.22	-57.82	7,518.22	-437.94	667.44	531.17	136.27	4.898	
18,100.00	9,842.65	17,700.99	9,488.56	70.79	69.89	-57.84	7,617.89	-439.02	667.33	529.69	137.64	4.848	
18,200.00	9,834.36	17,800.99	9,480.47	71.45	70.56	-57.85	7,717.55	-440.09	667.22	528.21	139.01	4.800	
18,300.00	9,826.07	17,900.99	9,472.39	72.11	71.23	-57.87	7,817.22	-441.16	667.11	526.72	140.39	4.752	
18,400.00	9,817.78	18,000.99	9,464.30	72.78	71.90	-57.88	7,916.89	-442.23	667.00	525.23	141.77	4.705	
18,500.00	9,809.48	18,100.99	9,456.22	73.45	72.57	-57.90	8,016.55	-443.30	666.89	523.74	143.15	4.659	
18,600.00	9,801.19	18,200.99	9,448.13	74.12	73.25	-57.91	8,116.22	-444.37	666.78	522.24	144.54	4.613	
18,700.00	9,792.90	18,300.99	9,440.04	74.79	73.92	-57.93	8,215.89	-445.44	666.67	520.75	145.93	4.569	
18,800.00	9,784.61	18,400.99	9,431.96	75.47	74.60	-57.94	8,315.55	-446.51	666.56	519.24	147.32	4.525	
18,900.00	9,776.31	18,500.99	9,423.87	76.14	75.28	-57.96	8,415.22	-447.58	666.45	517.74	148.71	4.481	
19,000.00	9,768.02	18,600.99	9,415.79	76.82	75.96	-57.97	8,514.89	-448.65	666.34	516.23	150.11	4.439	
19,100.00	9,759.73	18,700.99	9,407.70	77.50	76.65	-57.99	8,614.55	-449.73	666.23	514.72	151.52	4.397	
19,200.00	9,751.44	18,800.99	9,399.62	78.18	77.33	-58.00	8,714.22	-450.80	666.12	513.20	152.92	4.356	
19,300.00	9,743.15	18,900.99	9,391.53	78.86	78.02	-58.02	8,813.89	-451.87	666.01	511.69	154.33	4.316	
19,400.00	9,734.85	19,000.99	9,383.44	79.55	78.71	-58.03	8,913.55	-452.94	665.90	510.17	155.74	4.276	
19,500.00	9,726.56	19,100.99	9,375.36	80.23	79.40	-58.05	9,013.22	-454.01	665.79	508.64	157.15	4.237	
19,600.00	9,718.27	19,200.99	9,367.27	80.92	80.09	-58.06	9,112.89	-455.08	665.68	507.12	158.56	4.198	
19,700.00	9,709.98	19,300.99	9,359.19	81.61	80.79	-58.08	9,212.55	-456.15	665.57	505.59	159.98	4.160	
19,800.00	9,701.68	19,400.99	9,351.10	82.30	81.48	-58.09	9,312.22	-457.22	665.46	504.06	161.40	4.123	
19,900.00	9,693.39	19,500.99	9,343.02	82.99	82.18	-58.11	9,411.89	-458.29	665.35	502.53	162.82	4.086	
20,000.00	9,685.10	19,600.98	9,334.93	83.69	82.87	-58.12	9,511.55	-459.36	665.25	501.00	164.25	4.050	
20,100.00	9,676.81	19,700.98	9,326.84	84.38	83.57	-58.14	9,611.22	-460.43	665.14	499.46	165.67	4.015	
20,200.00	9,668.51	19,800.98	9,318.76	85.08	84.27	-58.15	9,710.89	-461.51	665.03	497.93	167.10	3.980	
20,300.00	9,660.22	19,900.98	9,310.67	85.78	84.97	-58.17	9,810.55	-462.58	664.92	496.39	168.53	3.945	
20,400.00	9,651.93	20,000.98	9,302.59	86.48	85.68	-58.18	9,910.22	-463.65	664.81	494.84	169.96	3.911	
20,500.00	9,643.64	20,100.98	9,294.50	87.17	86.38	-58.20	10,009.89	-464.72	664.70	493.30	171.40	3.878	
20,600.00	9,635.34	20,200.98	9,286.42	87.88	87.08	-58.21	10,109.55	-465.79	664.59	491.76	172.83	3.845	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 503H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
20,700.00	9,627.05	20,300.98	9,278.33	88.58	87.79	-58.23	10,209.22	-466.86	664.48	490.21	174.27	3.813	
20,800.00	9,618.76	20,400.98	9,270.24	89.28	88.50	-58.24	10,308.89	-467.93	664.37	488.66	175.71	3.781	
20,900.00	9,610.47	20,500.98	9,262.16	89.99	89.20	-58.26	10,408.55	-469.00	664.26	487.11	177.15	3.750	
21,000.00	9,602.18	20,600.98	9,254.07	90.69	89.91	-58.27	10,508.22	-470.07	664.15	485.56	178.60	3.719	
21,100.00	9,593.88	20,700.98	9,245.99	91.40	90.62	-58.29	10,607.88	-471.14	664.04	484.00	180.04	3.688	
21,200.00	9,585.59	20,800.98	9,237.90	92.11	91.33	-58.30	10,707.55	-472.22	663.94	482.45	181.49	3.658	
21,300.00	9,577.30	20,900.98	9,229.82	92.81	92.05	-58.32	10,807.22	-473.29	663.83	480.89	182.94	3.629	
21,400.00	9,569.01	21,000.98	9,221.73	93.52	92.76	-58.34	10,906.88	-474.36	663.72	479.33	184.39	3.600	
21,500.00	9,560.71	21,100.98	9,213.64	94.23	93.47	-58.35	11,006.55	-475.43	663.61	477.77	185.84	3.571	
21,600.00	9,552.42	21,200.98	9,205.56	94.95	94.19	-58.37	11,106.22	-476.50	663.50	476.21	187.29	3.543	
21,700.00	9,544.13	21,300.98	9,197.47	95.66	94.90	-58.38	11,205.88	-477.57	663.39	474.64	188.75	3.515	
21,800.00	9,535.84	21,400.98	9,189.39	96.37	95.62	-58.40	11,305.55	-478.64	663.28	473.08	190.20	3.487	
21,900.00	9,527.54	21,500.98	9,181.30	97.09	96.34	-58.41	11,405.22	-479.71	663.17	471.51	191.66	3.460	
22,000.00	9,519.25	21,600.98	9,173.22	97.80	97.05	-58.43	11,504.88	-480.78	663.07	469.95	193.12	3.433	
22,100.00	9,510.96	21,700.98	9,165.13	98.52	97.77	-58.44	11,604.55	-481.85	662.96	468.38	194.58	3.407	
22,200.00	9,502.67	21,800.98	9,157.04	99.23	98.49	-58.46	11,704.22	-482.92	662.85	466.81	196.04	3.381	
22,300.00	9,494.37	21,900.98	9,148.96	99.95	99.21	-58.47	11,803.88	-484.00	662.74	465.24	197.50	3.356	
22,400.00	9,486.08	22,000.98	9,140.87	100.67	99.93	-58.49	11,903.55	-485.07	662.63	463.66	198.97	3.330	
22,500.00	9,477.79	22,100.98	9,132.79	101.39	100.66	-58.50	12,003.22	-486.14	662.52	462.09	200.43	3.305	
22,600.00	9,469.50	22,200.98	9,124.70	102.11	101.38	-58.52	12,102.88	-487.21	662.42	460.51	201.90	3.281	
22,700.00	9,461.20	22,300.98	9,116.61	102.83	102.10	-58.53	12,202.55	-488.28	662.31	458.94	203.37	3.257	
22,800.00	9,452.91	22,400.98	9,108.53	103.55	102.83	-58.55	12,302.22	-489.35	662.20	457.36	204.84	3.233	
22,900.00	9,444.62	22,500.98	9,100.44	104.27	103.55	-58.56	12,401.88	-490.42	662.09	455.78	206.31	3.209	
23,000.00	9,436.33	22,600.98	9,092.36	104.99	104.28	-58.58	12,501.55	-491.49	661.98	454.21	207.78	3.186	
23,100.00	9,428.04	22,700.98	9,084.27	105.72	105.00	-58.59	12,601.22	-492.56	661.87	452.62	209.25	3.163	
23,200.00	9,419.74	22,800.98	9,076.19	106.44	105.73	-58.61	12,700.88	-493.63	661.77	451.04	210.72	3.140	
23,300.00	9,411.45	22,900.98	9,068.10	107.17	106.46	-58.63	12,800.55	-494.71	661.66	449.46	212.20	3.118	
23,400.00	9,403.16	23,000.98	9,060.01	107.89	107.18	-58.64	12,900.22	-495.78	661.55	447.88	213.67	3.096	
23,500.00	9,394.87	23,100.98	9,051.93	108.62	107.91	-58.66	12,999.88	-496.85	661.44	446.29	215.15	3.074	
23,600.00	9,386.57	23,200.98	9,043.84	109.34	108.64	-58.67	13,099.55	-497.92	661.34	444.71	216.63	3.053	
23,700.00	9,378.28	23,300.98	9,035.76	110.07	109.37	-58.69	13,199.22	-498.99	661.23	443.12	218.10	3.032	
23,800.00	9,369.99	23,400.98	9,027.67	110.80	110.10	-58.70	13,298.88	-500.06	661.12	441.54	219.58	3.011	
23,900.00	9,361.70	23,500.98	9,019.59	111.53	110.83	-58.72	13,398.55	-501.13	661.01	439.95	221.06	2.990	
24,000.00	9,353.40	23,600.98	9,011.50	112.26	111.56	-58.73	13,498.22	-502.20	660.90	438.36	222.54	2.970	
24,100.00	9,345.11	23,700.98	9,003.41	112.99	112.29	-58.75	13,597.88	-503.27	660.80	436.77	224.02	2.950	
24,200.00	9,336.82	23,800.98	8,995.33	113.72	113.03	-58.76	13,697.55	-504.34	660.69	435.18	225.51	2.930	
24,300.00	9,328.53	23,900.98	8,987.24	114.45	113.76	-58.78	13,797.22	-505.41	660.58	433.59	226.99	2.910	
24,400.00	9,320.23	24,000.98	8,979.16	115.18	114.49	-58.79	13,896.88	-506.49	660.47	432.00	228.47	2.891	
24,500.00	9,311.94	24,100.98	8,971.07	115.91	115.23	-58.81	13,996.55	-507.56	660.37	430.41	229.96	2.872	
24,600.00	9,303.65	24,200.98	8,962.99	116.64	115.96	-58.83	14,096.22	-508.63	660.26	428.81	231.45	2.853	
24,700.00	9,295.36	24,300.97	8,954.90	117.37	116.70	-58.84	14,195.88	-509.70	660.15	427.22	232.93	2.834	
24,800.00	9,287.07	24,400.97	8,946.81	118.11	117.43	-58.86	14,295.55	-510.77	660.05	425.63	234.42	2.816	
24,900.00	9,278.77	24,500.97	8,938.73	118.84	118.17	-58.87	14,395.22	-511.84	659.94	424.03	235.91	2.797	
25,000.00	9,270.48	24,600.97	8,930.64	119.57	118.90	-58.89	14,494.88	-512.91	659.83	422.44	237.40	2.779	
25,100.00	9,262.19	24,700.97	8,922.56	120.31	119.64	-58.90	14,594.55	-513.98	659.72	420.84	238.89	2.762	
25,200.00	9,253.90	24,800.97	8,914.47	121.04	120.38	-58.92	14,694.22	-515.05	659.62	419.24	240.38	2.744	
25,300.00	9,245.60	24,900.97	8,906.39	121.78	121.11	-58.93	14,793.88	-516.12	659.51	417.64	241.87	2.727	
25,400.00	9,237.31	25,000.97	8,898.30	122.51	121.85	-58.95	14,893.55	-517.20	659.40	416.05	243.36	2.710	
25,500.00	9,229.02	25,100.97	8,890.21	123.25	122.59	-58.96	14,993.22	-518.27	659.30	414.45	244.85	2.693	
25,600.00	9,220.73	25,200.97	8,882.13	123.99	123.33	-58.98	15,092.88	-519.34	659.19	412.85	246.34	2.676	
25,700.00	9,212.43	25,300.97	8,874.04	124.72	124.07	-58.99	15,192.55	-520.41	659.08	411.25	247.84	2.659	
25,800.00	9,204.14	25,400.97	8,865.96	125.46	124.81	-59.01	15,292.22	-521.48	658.98	409.65	249.33	2.643	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 503H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

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
25,900.00	9,195.85	25,500.97	8,857.87	126.20	125.55	-59.03	15,391.88	-522.55	658.87	408.04	250.82	2.627	
26,000.00	9,187.56	25,600.97	8,849.78	126.94	126.29	-59.04	15,491.55	-523.62	658.76	406.44	252.32	2.611	
26,100.00	9,179.26	25,700.97	8,841.70	127.68	127.03	-59.06	15,591.21	-524.69	658.66	404.84	253.82	2.595	
26,200.00	9,170.97	25,800.97	8,833.61	128.42	127.77	-59.07	15,690.88	-525.76	658.55	403.24	255.31	2.579	
26,300.00	9,162.68	25,900.97	8,825.53	129.15	128.51	-59.09	15,790.55	-526.83	658.44	401.63	256.81	2.564	
26,400.00	9,154.39	26,000.97	8,817.44	129.89	129.25	-59.10	15,890.21	-527.90	658.34	400.03	258.31	2.549	
26,500.00	9,146.09	26,100.97	8,809.36	130.63	129.99	-59.12	15,989.88	-528.98	658.23	398.42	259.81	2.534	
26,600.00	9,137.80	26,200.97	8,801.27	131.38	130.73	-59.13	16,089.55	-530.05	658.12	396.82	261.30	2.519	
26,700.00	9,129.51	26,300.97	8,793.18	132.12	131.48	-59.15	16,189.21	-531.12	658.02	395.21	262.80	2.504	
26,800.00	9,121.22	26,400.97	8,785.10	132.86	132.22	-59.17	16,288.88	-532.19	657.91	393.61	264.30	2.489	
26,900.00	9,112.93	26,500.97	8,777.01	133.60	132.96	-59.18	16,388.55	-533.26	657.81	392.00	265.80	2.475	
27,000.00	9,104.63	26,600.97	8,768.93	134.34	133.71	-59.20	16,488.21	-534.33	657.70	390.39	267.30	2.460	
27,100.00	9,096.34	26,700.97	8,760.84	135.08	134.45	-59.21	16,587.88	-535.40	657.59	388.79	268.81	2.446	
27,200.00	9,088.05	26,800.97	8,752.76	135.82	135.19	-59.23	16,687.55	-536.47	657.49	387.18	270.31	2.432	
27,300.00	9,079.76	26,900.97	8,744.67	136.57	135.94	-59.24	16,787.21	-537.54	657.38	385.57	271.81	2.419	
27,400.00	9,071.46	27,000.97	8,736.58	137.31	136.68	-59.26	16,886.88	-538.61	657.27	383.96	273.31	2.405	
27,500.00	9,063.17	27,100.97	8,728.50	138.05	137.43	-59.27	16,986.55	-539.69	657.17	382.35	274.82	2.391	
27,600.00	9,054.88	27,200.97	8,720.41	138.80	138.17	-59.29	17,086.21	-540.76	657.06	380.74	276.32	2.378	
27,700.00	9,046.59	27,300.97	8,712.33	139.54	138.92	-59.30	17,185.88	-541.83	656.96	379.13	277.82	2.365	
27,800.00	9,038.29	27,400.97	8,704.24	140.29	139.66	-59.32	17,285.55	-542.90	656.85	377.52	279.33	2.352	
27,900.00	9,030.00	27,500.97	8,696.16	141.03	140.41	-59.34	17,385.21	-543.97	656.75	375.91	280.83	2.339	
28,000.00	9,021.71	27,600.97	8,688.07	141.78	141.16	-59.35	17,484.88	-545.04	656.64	374.30	282.34	2.326	
28,100.00	9,013.42	27,700.97	8,679.98	142.52	141.90	-59.37	17,584.55	-546.11	656.53	372.69	283.84	2.313	
28,200.00	9,005.12	27,800.97	8,671.90	143.27	142.65	-59.38	17,684.21	-547.18	656.43	371.08	285.35	2.300	
28,300.00	8,996.83	27,900.97	8,663.81	144.01	143.40	-59.40	17,783.88	-548.25	656.32	369.47	286.86	2.288	
28,400.00	8,988.54	28,000.97	8,655.73	144.76	144.15	-59.41	17,883.55	-549.32	656.22	367.85	288.36	2.276	
28,500.00	8,980.25	28,100.97	8,647.64	145.50	144.89	-59.43	17,983.21	-550.39	656.11	366.24	289.87	2.263	
28,563.28	8,975.00	28,164.24	8,642.52	145.98	145.37	-59.44	18,046.28	-551.07	656.05	365.22	290.83	2.256	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 504H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 usft

Rule Assigned:

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
0.00	0.00	0.00	0.10	0.00	0.00	89.77	0.08	19.99	19.99				
100.00	100.00	99.90	100.00	0.28	0.28	89.77	0.08	19.99	19.99	19.44	0.55	36.229	
200.00	200.00	199.90	200.00	0.63	0.63	89.77	0.08	19.99	19.99	18.72	1.27	15.757	
300.00	300.00	299.90	300.00	0.99	0.99	89.77	0.08	19.99	19.99	18.00	1.99	10.068	
400.00	400.00	399.90	400.00	1.35	1.35	89.77	0.08	19.99	19.99	17.29	2.70	7.397	
500.00	500.00	499.90	500.00	1.71	1.71	89.77	0.08	19.99	19.99	16.57	3.42	5.846	
600.00	600.00	599.90	600.00	2.07	2.07	89.77	0.08	19.99	19.99	15.85	4.14	4.833	
700.00	700.00	699.90	700.00	2.43	2.43	89.77	0.08	19.99	19.99	15.14	4.85	4.119	
800.00	800.00	799.90	800.00	2.79	2.78	89.77	0.08	19.99	19.99	14.42	5.57	3.589	
900.00	900.00	899.90	900.00	3.14	3.14	89.77	0.08	19.99	19.99	13.70	6.29	3.179	
1,000.00	1,000.00	999.90	1,000.00	3.50	3.50	89.77	0.08	19.99	19.99	12.99	7.00	2.854	
1,100.00	1,100.00	1,099.90	1,100.00	3.86	3.86	89.77	0.08	19.99	19.99	12.27	7.72	2.589	
1,200.00	1,200.00	1,199.90	1,200.00	4.22	4.22	89.77	0.08	19.99	19.99	11.55	8.44	2.369	
1,300.00	1,300.00	1,299.90	1,300.00	4.58	4.58	89.77	0.08	19.99	19.99	10.84	9.16	2.184	
1,400.00	1,400.00	1,399.90	1,400.00	4.94	4.94	89.77	0.08	19.99	19.99	10.12	9.87	2.025	
1,500.00	1,500.00	1,499.90	1,500.00	5.29	5.29	89.77	0.08	19.99	19.99	9.40	10.59	1.888	
1,600.00	1,600.00	1,599.90	1,600.00	5.65	5.65	89.77	0.08	19.99	19.99	8.68	11.31	1.768	
1,700.00	1,699.98	1,699.88	1,699.98	6.00	6.01	-52.66	0.08	19.99	18.88	6.88	12.01	1.573	
1,800.00	1,799.84	1,799.74	1,799.84	6.33	6.37	-67.53	0.08	19.99	16.25	3.56	12.69	1.280	Level 3
1,855.71	1,855.39	1,855.10	1,855.19	6.51	6.56	-80.64	-0.06	20.50	15.50	2.43	13.07	1.186	Level 2, CC, ES, SF
1,900.00	1,899.49	1,899.13	1,899.21	6.66	6.71	-92.11	-0.38	21.64	15.95	2.58	13.37	1.193	Level 2
2,000.00	1,999.11	1,998.76	1,998.70	7.00	7.05	-104.71	-1.79	26.62	19.39	5.35	14.04	1.381	Level 3
2,100.00	2,098.73	2,098.41	2,097.97	7.33	7.39	-105.14	-4.13	34.94	24.28	9.56	14.72	1.650	
2,200.00	2,198.35	2,197.86	2,196.68	7.68	7.73	-99.17	-7.39	46.54	30.38	14.99	15.39	1.974	
2,300.00	2,297.97	2,296.85	2,294.46	8.02	8.08	-90.67	-11.56	61.36	38.41	22.37	16.04	2.395	
2,400.00	2,397.59	2,395.16	2,390.99	8.36	8.42	-82.05	-16.61	79.29	49.15	32.49	16.66	2.951	
2,500.00	2,497.21	2,493.67	2,487.20	8.71	8.77	-74.91	-22.34	99.67	62.48	45.19	17.29	3.613	
2,600.00	2,596.83	2,592.52	2,583.70	9.06	9.12	-70.23	-28.14	120.26	76.57	58.60	17.96	4.263	
2,700.00	2,696.45	2,691.36	2,680.20	9.41	9.47	-67.02	-33.94	140.86	90.99	72.35	18.64	4.881	
2,800.00	2,796.07	2,790.21	2,776.70	9.76	9.83	-64.68	-39.73	161.45	105.63	86.29	19.33	5.464	
2,900.00	2,895.69	2,889.05	2,873.20	10.11	10.18	-62.92	-45.53	182.05	120.39	100.36	20.03	6.011	
3,000.00	2,995.31	2,987.90	2,969.70	10.46	10.54	-61.54	-51.33	202.64	135.24	114.51	20.73	6.524	
3,100.00	3,094.93	3,086.74	3,066.21	10.81	10.91	-60.44	-57.12	223.24	150.15	128.71	21.43	7.005	
3,200.00	3,194.55	3,185.59	3,162.71	11.17	11.27	-59.54	-62.92	243.83	165.10	142.96	22.14	7.457	
3,300.00	3,294.17	3,284.43	3,259.21	11.52	11.63	-58.78	-68.71	264.43	180.09	157.24	22.85	7.880	
3,400.00	3,393.79	3,383.27	3,355.71	11.88	12.00	-58.14	-74.51	285.02	195.10	171.53	23.57	8.278	
3,500.00	3,493.41	3,482.12	3,452.21	12.23	12.37	-57.60	-80.31	305.62	210.14	185.85	24.28	8.653	
3,600.00	3,593.02	3,580.96	3,548.71	12.59	12.74	-57.12	-86.10	326.22	225.19	200.18	25.00	9.006	
3,700.00	3,692.64	3,679.81	3,645.21	12.95	13.11	-56.71	-91.90	346.81	240.25	214.53	25.72	9.339	
3,800.00	3,792.26	3,778.65	3,741.72	13.30	13.48	-56.34	-97.70	367.41	255.33	228.88	26.45	9.654	
3,900.00	3,891.88	3,877.50	3,838.22	13.66	13.85	-56.02	-103.49	388.00	270.41	243.24	27.17	9.952	
4,000.00	3,991.50	3,976.34	3,934.72	14.02	14.22	-55.73	-109.29	408.60	285.50	257.60	27.90	10.234	
4,100.00	4,091.12	4,075.19	4,031.22	14.38	14.59	-55.46	-115.08	429.19	300.60	271.97	28.62	10.501	
4,200.00	4,190.74	4,174.03	4,127.72	14.74	14.97	-55.23	-120.88	449.79	315.70	286.35	29.35	10.755	
4,300.00	4,290.36	4,272.88	4,224.22	15.10	15.34	-55.01	-126.68	470.38	330.81	300.73	30.08	10.997	
4,400.00	4,389.98	4,371.72	4,320.73	15.45	15.72	-54.82	-132.47	490.98	345.92	315.11	30.81	11.226	
4,500.00	4,489.60	4,470.57	4,417.23	15.81	16.09	-54.64	-138.27	511.57	361.04	329.49	31.54	11.445	
4,600.00	4,589.22	4,569.41	4,513.73	16.17	16.47	-54.47	-144.07	532.17	376.16	343.88	32.28	11.654	
4,700.00	4,688.84	4,668.26	4,610.23	16.53	16.84	-54.32	-149.86	552.76	391.28	358.27	33.01	11.853	
4,800.00	4,788.46	4,767.10	4,706.73	16.90	17.22	-54.18	-155.66	573.36	406.41	372.66	33.74	12.044	
4,900.00	4,888.08	4,865.95	4,803.23	17.26	17.60	-54.05	-161.46	593.96	421.53	387.05	34.48	12.226	
5,000.00	4,987.70	4,964.79	4,899.73	17.62	17.97	-53.93	-167.25	614.55	436.66	401.45	35.21	12.400	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 504H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
5,100.00	5,087.32	5,063.64	4,996.24	17.98	18.35	-53.81	-173.05	635.15	451.79	415.84	35.95	12.567	
5,200.00	5,186.94	5,162.48	5,092.74	18.34	18.73	-53.70	-178.84	655.74	466.92	430.24	36.69	12.727	
5,300.00	5,286.61	5,261.26	5,189.17	18.70	19.11	-53.70	-184.64	676.32	482.44	445.02	37.42	12.892	
5,400.00	5,386.49	5,359.65	5,285.23	19.06	19.49	-53.53	-190.41	696.82	499.87	461.71	38.15	13.102	
5,500.00	5,486.47	5,457.51	5,380.77	19.40	19.86	85.36	-196.14	717.21	519.37	480.50	38.87	13.363	
5,600.00	5,586.47	5,555.14	5,476.09	19.74	20.24	86.16	-201.87	737.56	539.77	500.20	39.57	13.641	
5,700.00	5,686.47	5,652.77	5,571.40	20.08	20.61	86.90	-207.60	757.90	560.27	519.99	40.28	13.911	
5,800.00	5,786.47	5,750.40	5,666.72	20.42	20.99	87.58	-213.32	778.24	580.85	539.86	40.98	14.173	
5,900.00	5,886.47	5,858.83	5,772.69	20.77	21.40	88.28	-219.54	800.36	601.11	559.31	41.80	14.382	
6,000.00	5,986.47	5,982.43	5,894.33	21.11	21.87	88.89	-225.47	821.40	618.04	575.33	42.72	14.468	
6,100.00	6,086.47	6,107.73	6,018.49	21.45	22.33	89.34	-230.01	837.56	630.89	587.32	43.58	14.478	
6,200.00	6,186.47	6,234.28	6,144.51	21.79	22.78	89.63	-233.11	848.56	639.57	595.20	44.37	14.415	
6,300.00	6,286.47	6,361.60	6,271.69	22.14	23.23	89.77	-234.70	854.20	644.00	598.91	45.09	14.283	
6,400.00	6,386.47	6,476.40	6,386.47	22.48	23.62	89.79	-234.92	854.99	644.61	598.86	45.75	14.089	
6,500.00	6,486.47	6,576.40	6,486.47	22.82	23.95	89.79	-234.92	854.99	644.61	598.19	46.43	13.884	
6,600.00	6,586.47	6,676.40	6,586.47	23.17	24.29	89.79	-234.92	854.99	644.61	597.51	47.10	13.685	
6,700.00	6,686.47	6,776.40	6,686.47	23.51	24.62	89.79	-234.92	854.99	644.61	596.83	47.78	13.491	
6,800.00	6,786.47	6,876.40	6,786.47	23.86	24.96	89.79	-234.92	854.99	644.61	596.16	48.46	13.302	
6,900.00	6,886.47	6,976.40	6,886.47	24.21	25.29	89.79	-234.92	854.99	644.61	595.48	49.14	13.119	
7,000.00	6,986.47	7,076.40	6,986.47	24.55	25.63	89.79	-234.92	854.99	644.61	594.80	49.82	12.940	
7,100.00	7,086.47	7,176.40	7,086.47	24.90	25.97	89.79	-234.92	854.99	644.61	594.12	50.50	12.765	
7,200.00	7,186.47	7,276.40	7,186.47	25.25	26.31	89.79	-234.92	854.99	644.61	593.43	51.18	12.595	
7,300.00	7,286.47	7,376.40	7,286.47	25.59	26.65	89.79	-234.92	854.99	644.61	592.75	51.86	12.429	
7,400.00	7,386.47	7,476.40	7,386.47	25.94	26.98	89.79	-234.92	854.99	644.61	592.07	52.55	12.267	
7,500.00	7,486.47	7,576.40	7,486.47	26.29	27.32	89.79	-234.92	854.99	644.61	591.38	53.23	12.109	
7,600.00	7,586.47	7,676.40	7,586.47	26.64	27.66	89.79	-234.92	854.99	644.61	590.70	53.92	11.956	
7,700.00	7,686.47	7,776.40	7,686.47	26.99	28.01	89.79	-234.92	854.99	644.61	590.01	54.60	11.805	
7,800.00	7,786.47	7,876.40	7,786.47	27.33	28.35	89.79	-234.92	854.99	644.61	589.32	55.29	11.659	
7,900.00	7,886.47	7,976.40	7,886.47	27.68	28.69	89.79	-234.92	854.99	644.61	588.64	55.98	11.515	
8,000.00	7,986.47	8,076.40	7,986.47	28.03	29.03	89.79	-234.92	854.99	644.61	587.95	56.67	11.375	
8,100.00	8,086.47	8,176.40	8,086.47	28.38	29.37	89.79	-234.92	854.99	644.61	587.26	57.36	11.239	
8,200.00	8,186.47	8,276.40	8,186.47	28.73	29.72	89.79	-234.92	854.99	644.61	586.57	58.05	11.105	
8,300.00	8,286.47	8,376.40	8,286.47	29.08	30.06	89.79	-234.92	854.99	644.61	585.88	58.74	10.974	
8,400.00	8,386.47	8,476.40	8,386.47	29.43	30.40	89.79	-234.92	854.99	644.61	585.19	59.43	10.847	
8,500.00	8,486.47	8,576.40	8,486.47	29.78	30.75	89.79	-234.92	854.99	644.61	584.49	60.12	10.722	
8,600.00	8,586.47	8,676.40	8,586.47	30.13	31.09	89.79	-234.92	854.99	644.61	583.80	60.81	10.600	
8,700.00	8,686.47	8,776.40	8,686.47	30.48	31.43	89.79	-234.92	854.99	644.61	583.11	61.51	10.481	
8,800.00	8,786.47	8,876.40	8,786.47	30.84	31.78	89.79	-234.92	854.99	644.61	582.41	62.20	10.364	
8,900.00	8,886.47	8,976.40	8,886.47	31.19	32.12	89.79	-234.92	854.99	644.61	581.72	62.89	10.249	
9,000.00	8,986.47	9,076.40	8,986.47	31.54	32.47	89.79	-234.92	854.99	644.61	581.03	63.59	10.137	
9,100.00	9,086.47	9,176.40	9,086.47	31.89	32.82	89.79	-234.92	854.99	644.61	580.33	64.28	10.028	
9,200.00	9,186.47	9,276.40	9,186.47	32.24	33.16	89.79	-234.92	854.99	644.61	579.64	64.98	9.920	
9,300.00	9,286.47	9,376.40	9,286.47	32.59	33.51	89.79	-234.92	854.99	644.61	578.94	65.67	9.815	
9,400.00	9,386.47	9,476.40	9,386.47	32.95	33.85	89.79	-234.92	854.99	644.61	578.24	66.37	9.712	
9,500.00	9,486.47	9,577.13	9,487.21	33.30	34.20	89.77	-234.70	854.98	644.61	577.54	67.07	9.611	
9,600.00	9,586.47	9,680.32	9,589.55	33.65	34.56	88.70	-222.63	854.43	644.23	576.46	67.76	9.507	
9,658.46	9,644.93	9,737.62	9,644.93	33.86	34.74	87.40	-208.06	853.77	644.05	575.88	68.18	9.447	
9,700.00	9,686.47	9,776.31	9,681.38	34.00	34.86	86.25	-195.12	853.18	644.20	575.73	68.47	9.408	
9,800.00	9,786.47	9,861.18	9,757.76	34.35	35.11	82.98	-158.34	851.51	646.61	577.45	69.16	9.349	
9,900.00	9,886.43	9,934.55	9,818.80	34.71	35.30	79.76	-117.75	849.67	653.59	583.90	69.69	9.379	
10,000.00	9,984.97	10,000.00	9,868.47	35.05	35.45	75.79	-75.24	847.74	663.94	594.03	69.91	9.497	
10,100.00	10,079.19	10,069.73	9,915.69	35.37	35.58	71.85	-24.04	845.41	676.02	606.14	69.89	9.673	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 504H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
10,200.00	10,166.23	10,134.35	9,953.59	35.65	35.68	68.45	28.21	843.04	688.63	619.07	69.57	9.899	
10,300.00	10,243.43	10,200.00	9,985.82	35.91	35.76	65.48	85.30	840.45	700.66	631.57	69.09	10.141	
10,400.00	10,308.47	10,259.95	10,009.37	36.13	35.82	63.15	140.34	837.95	711.14	642.66	68.48	10.385	
10,500.00	10,359.35	10,323.87	10,028.06	36.31	35.86	61.29	201.38	835.18	719.32	651.37	67.95	10.586	
10,600.00	10,394.53	10,400.00	10,044.50	36.45	35.90	60.09	275.62	831.81	723.35	655.64	67.71	10.683	
10,700.00	10,416.72	10,475.51	10,055.89	36.57	35.94	59.58	350.17	828.42	724.01	656.39	67.63	10.706	
10,800.00	10,430.32	10,551.17	10,062.36	36.67	35.97	59.23	425.46	824.99	723.62	655.99	67.63	10.699	
10,900.00	10,435.22	10,626.69	10,063.84	36.76	36.01	59.04	500.87	821.56	722.16	654.42	67.74	10.661	
11,000.00	10,431.41	10,705.24	10,060.10	36.87	36.07	58.99	579.24	817.99	719.61	651.63	67.98	10.586	
11,100.00	10,423.12	10,801.08	10,052.26	37.00	36.18	58.86	674.66	813.64	716.57	648.27	68.30	10.492	
11,200.00	10,414.83	10,901.02	10,044.08	37.15	36.32	58.73	774.16	809.10	713.55	644.90	68.65	10.394	
11,300.00	10,406.54	11,000.96	10,035.91	37.31	36.48	58.59	873.66	804.57	710.53	641.50	69.03	10.292	
11,400.00	10,398.24	11,100.90	10,027.73	37.49	36.66	58.45	973.16	800.04	707.52	638.07	69.45	10.187	
11,500.00	10,389.95	11,200.84	10,019.55	37.68	36.86	58.31	1,072.66	795.50	704.51	634.61	69.90	10.079	
11,600.00	10,381.66	11,300.78	10,011.38	37.89	37.07	58.17	1,172.17	790.97	701.51	631.13	70.38	9.968	
11,700.00	10,373.37	11,400.72	10,003.20	38.12	37.29	58.03	1,271.67	786.43	698.51	627.62	70.89	9.854	
11,800.00	10,365.07	11,500.66	9,995.02	38.35	37.54	57.88	1,371.17	781.90	695.51	624.08	71.43	9.737	
11,900.00	10,356.78	11,600.60	9,986.85	38.60	37.79	57.74	1,470.67	777.36	692.52	620.52	72.00	9.619	
12,000.00	10,348.49	11,700.54	9,978.67	38.87	38.06	57.59	1,570.17	772.83	689.53	616.94	72.59	9.498	
12,100.00	10,340.20	11,800.48	9,970.49	39.15	38.34	57.44	1,669.67	768.29	686.55	613.33	73.22	9.377	
12,200.00	10,331.90	11,900.42	9,962.32	39.44	38.64	57.30	1,769.17	763.76	683.57	609.70	73.87	9.253	
12,300.00	10,323.61	12,000.36	9,954.14	39.74	38.95	57.15	1,868.68	759.23	680.60	606.05	74.55	9.129	
12,400.00	10,315.32	12,100.30	9,945.96	40.06	39.27	56.99	1,968.18	754.69	677.63	602.38	75.26	9.004	
12,500.00	10,307.03	12,190.40	9,938.59	40.39	39.57	56.88	2,057.91	751.04	675.10	599.10	76.01	8.882	
12,600.00	10,298.73	12,280.69	9,931.21	40.73	39.88	56.86	2,147.88	749.65	674.61	597.80	76.82	8.782	
12,700.00	10,290.44	12,380.69	9,923.04	41.08	40.23	56.87	2,247.54	748.58	674.54	596.90	77.64	8.688	
12,800.00	10,282.15	12,480.69	9,914.87	41.45	40.60	56.88	2,347.20	747.50	674.48	595.99	78.49	8.593	
12,900.00	10,273.86	12,580.69	9,906.70	41.82	40.98	56.89	2,446.86	746.43	674.41	595.05	79.36	8.498	
13,000.00	10,265.56	12,680.69	9,898.53	42.21	41.36	56.90	2,546.52	745.36	674.34	594.09	80.25	8.403	
13,100.00	10,257.27	12,780.69	9,890.36	42.61	41.76	56.91	2,646.18	744.29	674.28	593.11	81.16	8.308	
13,200.00	10,248.98	12,880.69	9,882.19	43.01	42.17	56.92	2,745.84	743.22	674.21	592.12	82.09	8.213	
13,300.00	10,240.69	12,980.69	9,874.02	43.43	42.59	56.93	2,845.50	742.15	674.14	591.10	83.04	8.118	
13,400.00	10,232.40	13,080.69	9,865.85	43.85	43.02	56.93	2,945.16	741.08	674.08	590.07	84.01	8.024	
13,500.00	10,224.10	13,180.69	9,857.68	44.29	43.45	56.94	3,044.82	740.01	674.01	589.02	84.99	7.930	
13,600.00	10,215.81	13,280.69	9,849.51	44.73	43.90	56.95	3,144.48	738.94	673.94	587.95	85.99	7.837	
13,700.00	10,207.52	13,380.69	9,841.34	45.19	44.35	56.96	3,244.14	737.87	673.88	586.87	87.01	7.745	
13,800.00	10,199.23	13,480.69	9,833.17	45.65	44.82	56.97	3,343.80	736.80	673.81	585.77	88.04	7.654	
13,900.00	10,190.93	13,580.69	9,825.00	46.12	45.29	56.98	3,443.46	735.73	673.74	584.66	89.08	7.563	
14,000.00	10,182.64	13,680.69	9,816.83	46.60	45.77	56.99	3,543.12	734.66	673.68	583.53	90.14	7.473	
14,100.00	10,174.35	13,780.69	9,808.66	47.08	46.26	57.00	3,642.78	733.58	673.61	582.39	91.22	7.384	
14,200.00	10,166.06	13,880.69	9,800.49	47.58	46.75	57.00	3,742.44	732.51	673.54	581.23	92.31	7.297	
14,300.00	10,157.76	13,980.69	9,792.32	48.08	47.26	57.01	3,842.10	731.44	673.48	580.07	93.41	7.210	
14,400.00	10,149.47	14,080.69	9,784.15	48.58	47.77	57.02	3,941.76	730.37	673.41	578.89	94.52	7.124	
14,500.00	10,141.18	14,180.69	9,775.98	49.10	48.28	57.03	4,041.42	729.30	673.34	577.69	95.65	7.040	
14,600.00	10,132.89	14,280.69	9,767.81	49.62	48.81	57.04	4,141.08	728.23	673.28	576.49	96.79	6.956	
14,700.00	10,124.59	14,380.69	9,759.64	50.15	49.34	57.05	4,240.74	727.16	673.21	575.27	97.94	6.874	
14,800.00	10,116.30	14,480.69	9,751.47	50.68	49.87	57.06	4,340.40	726.09	673.14	574.05	99.10	6.793	
14,900.00	10,108.01	14,580.69	9,743.30	51.22	50.42	57.07	4,440.06	725.02	673.08	572.81	100.27	6.713	
15,000.00	10,099.72	14,680.69	9,735.13	51.77	50.96	57.07	4,539.72	723.95	673.01	571.56	101.45	6.634	
15,100.00	10,091.42	14,780.69	9,726.96	52.32	51.52	57.08	4,639.38	722.88	672.94	570.30	102.64	6.556	
15,200.00	10,083.13	14,880.69	9,718.79	52.87	52.08	57.09	4,739.04	721.81	672.88	569.04	103.84	6.480	
15,300.00	10,074.84	14,980.69	9,710.62	53.44	52.64	57.10	4,838.70	720.74	672.81	567.76	105.05	6.405	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 504H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
15,400.00	10,066.55	15,080.69	9,702.45	54.00	53.21	57.11	4,938.36	719.66	672.74	566.48	106.27	6.331	
15,500.00	10,058.26	15,180.69	9,694.28	54.57	53.79	57.12	5,038.02	718.59	672.68	565.18	107.49	6.258	
15,600.00	10,049.96	15,280.69	9,686.11	55.15	54.36	57.13	5,137.68	717.52	672.61	563.88	108.73	6.186	
15,700.00	10,041.67	15,380.69	9,677.94	55.73	54.95	57.14	5,237.34	716.45	672.54	562.57	109.97	6.116	
15,800.00	10,033.38	15,480.69	9,669.77	56.32	55.54	57.15	5,337.00	715.38	672.48	561.26	111.22	6.046	
15,900.00	10,025.09	15,580.69	9,661.60	56.91	56.13	57.15	5,436.66	714.31	672.41	559.93	112.48	5.978	
16,000.00	10,016.79	15,680.69	9,653.43	57.51	56.73	57.16	5,536.32	713.24	672.34	558.60	113.74	5.911	
16,100.00	10,008.50	15,780.69	9,645.26	58.10	57.33	57.17	5,635.98	712.17	672.28	557.26	115.02	5.845	
16,200.00	10,000.21	15,880.69	9,637.09	58.71	57.94	57.18	5,735.64	711.10	672.21	555.92	116.30	5.780	
16,300.00	9,991.92	15,980.69	9,628.92	59.31	58.54	57.19	5,835.30	710.03	672.14	554.56	117.58	5.716	
16,400.00	9,983.62	16,080.69	9,620.75	59.92	59.16	57.20	5,934.96	708.96	672.08	553.21	118.87	5.654	
16,500.00	9,975.33	16,180.69	9,612.58	60.54	59.77	57.21	6,034.62	707.89	672.01	551.84	120.17	5.592	
16,600.00	9,967.04	16,280.69	9,604.41	61.16	60.39	57.22	6,134.28	706.82	671.95	550.47	121.47	5.532	
16,700.00	9,958.75	16,380.69	9,596.24	61.78	61.02	57.22	6,233.94	705.74	671.88	549.10	122.78	5.472	
16,800.00	9,950.45	16,480.69	9,588.07	62.40	61.65	57.23	6,333.60	704.67	671.81	547.72	124.10	5.414	
16,900.00	9,942.16	16,580.69	9,579.90	63.03	62.28	57.24	6,433.26	703.60	671.75	546.33	125.42	5.356	
17,000.00	9,933.87	16,680.69	9,571.73	63.66	62.91	57.25	6,532.92	702.53	671.68	544.94	126.74	5.300	
17,100.00	9,925.58	16,780.69	9,563.56	64.30	63.54	57.26	6,632.58	701.46	671.61	543.54	128.07	5.244	
17,200.00	9,917.29	16,880.69	9,555.39	64.93	64.18	57.27	6,732.24	700.39	671.55	542.14	129.41	5.189	
17,300.00	9,908.99	16,980.69	9,547.22	65.57	64.83	57.28	6,831.90	699.32	671.48	540.73	130.75	5.136	
17,400.00	9,900.70	17,080.69	9,539.05	66.22	65.47	57.29	6,931.56	698.25	671.42	539.32	132.09	5.083	
17,500.00	9,892.41	17,180.69	9,530.88	66.86	66.12	57.29	7,031.22	697.18	671.35	537.91	133.44	5.031	
17,600.00	9,884.12	17,280.69	9,522.71	67.51	66.77	57.30	7,130.88	696.11	671.28	536.49	134.80	4.980	
17,700.00	9,875.82	17,380.69	9,514.54	68.16	67.42	57.31	7,230.54	695.04	671.22	535.06	136.15	4.930	
17,800.00	9,867.53	17,480.69	9,506.37	68.81	68.08	57.32	7,330.20	693.97	671.15	533.64	137.51	4.881	
17,900.00	9,859.24	17,580.69	9,498.20	69.47	68.73	57.33	7,429.86	692.90	671.08	532.20	138.88	4.832	
18,000.00	9,850.95	17,680.69	9,490.03	70.13	69.39	57.34	7,529.52	691.83	671.02	530.77	140.25	4.784	
18,100.00	9,842.65	17,780.69	9,481.86	70.79	70.06	57.35	7,629.17	690.75	670.95	529.33	141.62	4.738	
18,200.00	9,834.36	17,880.69	9,473.69	71.45	70.72	57.36	7,728.83	689.68	670.89	527.89	143.00	4.692	
18,300.00	9,826.07	17,980.69	9,465.52	72.11	71.39	57.37	7,828.49	688.61	670.82	526.44	144.38	4.646	
18,400.00	9,817.78	18,080.69	9,457.35	72.78	72.06	57.37	7,928.15	687.54	670.75	524.99	145.76	4.602	
18,500.00	9,809.48	18,180.69	9,449.18	73.45	72.73	57.38	8,027.81	686.47	670.69	523.54	147.15	4.558	
18,600.00	9,801.19	18,280.69	9,441.01	74.12	73.40	57.39	8,127.47	685.40	670.62	522.08	148.54	4.515	
18,700.00	9,792.90	18,380.69	9,432.84	74.79	74.07	57.40	8,227.13	684.33	670.56	520.62	149.93	4.472	
18,800.00	9,784.61	18,480.69	9,424.67	75.47	74.75	57.41	8,326.79	683.26	670.49	519.16	151.33	4.431	
18,900.00	9,776.31	18,580.69	9,416.50	76.14	75.43	57.42	8,426.45	682.19	670.42	517.70	152.73	4.390	
19,000.00	9,768.02	18,680.69	9,408.33	76.82	76.11	57.43	8,526.11	681.12	670.36	516.23	154.13	4.349	
19,100.00	9,759.73	18,780.69	9,400.16	77.50	76.79	57.44	8,625.77	680.05	670.29	514.76	155.53	4.310	
19,200.00	9,751.44	18,880.69	9,391.99	78.18	77.47	57.44	8,725.43	678.98	670.23	513.29	156.94	4.271	
19,300.00	9,743.15	18,980.69	9,383.82	78.86	78.16	57.45	8,825.09	677.91	670.16	511.81	158.35	4.232	
19,400.00	9,734.85	19,080.69	9,375.65	79.55	78.84	57.46	8,924.75	676.83	670.09	510.33	159.76	4.194	
19,500.00	9,726.56	19,180.69	9,367.48	80.23	79.53	57.47	9,024.41	675.76	670.03	508.85	161.18	4.157	
19,600.00	9,718.27	19,280.69	9,359.31	80.92	80.22	57.48	9,124.07	674.69	669.96	507.37	162.60	4.120	
19,700.00	9,709.98	19,380.69	9,351.14	81.61	80.91	57.49	9,223.73	673.62	669.90	505.88	164.02	4.084	
19,800.00	9,701.68	19,480.69	9,342.97	82.30	81.60	57.50	9,323.39	672.55	669.83	504.39	165.44	4.049	
19,900.00	9,693.39	19,580.69	9,334.80	82.99	82.30	57.51	9,423.05	671.48	669.76	502.90	166.86	4.014	
20,000.00	9,685.10	19,680.69	9,326.63	83.69	82.99	57.52	9,522.71	670.41	669.70	501.41	168.29	3.979	
20,100.00	9,676.81	19,780.69	9,318.46	84.38	83.69	57.52	9,622.37	669.34	669.63	499.92	169.72	3.946	
20,200.00	9,668.51	19,880.69	9,310.29	85.08	84.39	57.53	9,722.03	668.27	669.57	498.42	171.15	3.912	
20,300.00	9,660.22	19,980.69	9,302.12	85.78	85.09	57.54	9,821.69	667.20	669.50	496.92	172.58	3.879	
20,400.00	9,651.93	20,080.69	9,293.95	86.48	85.79	57.55	9,921.35	666.13	669.44	495.42	174.02	3.847	
20,500.00	9,643.64	20,180.69	9,285.78	87.17	86.49	57.56	10,021.01	665.06	669.37	493.92	175.45	3.815	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 504H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
20,600.00	9,635.34	20,280.69	9,277.61	87.88	87.19	57.57	10,120.67	663.99	669.30	492.41	176.89	3.784	
20,700.00	9,627.05	20,380.69	9,269.44	88.58	87.89	57.58	10,220.33	662.91	669.24	490.91	178.33	3.753	
20,800.00	9,618.76	20,480.69	9,261.26	89.28	88.60	57.59	10,319.99	661.84	669.17	489.40	179.78	3.722	
20,900.00	9,610.47	20,580.69	9,253.09	89.99	89.31	57.60	10,419.65	660.77	669.11	487.89	181.22	3.692	
21,000.00	9,602.18	20,680.69	9,244.92	90.69	90.01	57.60	10,519.31	659.70	669.04	486.38	182.67	3.663	
21,100.00	9,593.88	20,780.69	9,236.75	91.40	90.72	57.61	10,618.97	658.63	668.98	484.86	184.11	3.634	
21,200.00	9,585.59	20,880.69	9,228.58	92.11	91.43	57.62	10,718.63	657.56	668.91	483.35	185.56	3.605	
21,300.00	9,577.30	20,980.69	9,220.41	92.81	92.14	57.63	10,818.29	656.49	668.85	481.83	187.01	3.576	
21,400.00	9,569.01	21,080.69	9,212.24	93.52	92.85	57.64	10,917.95	655.42	668.78	480.31	188.47	3.549	
21,500.00	9,560.71	21,180.69	9,204.07	94.23	93.56	57.65	11,017.61	654.35	668.71	478.79	189.92	3.521	
21,600.00	9,552.42	21,280.69	9,195.90	94.95	94.28	57.66	11,117.27	653.28	668.65	477.27	191.37	3.494	
21,700.00	9,544.13	21,380.69	9,187.73	95.66	94.99	57.67	11,216.93	652.21	668.58	475.75	192.83	3.467	
21,800.00	9,535.84	21,480.69	9,179.56	96.37	95.70	57.68	11,316.59	651.14	668.52	474.23	194.29	3.441	
21,900.00	9,527.54	21,580.69	9,171.39	97.09	96.42	57.68	11,416.25	650.07	668.45	472.70	195.75	3.415	
22,000.00	9,519.25	21,680.69	9,163.22	97.80	97.14	57.69	11,515.91	649.00	668.39	471.18	197.21	3.389	
22,100.00	9,510.96	21,780.69	9,155.05	98.52	97.85	57.70	11,615.57	647.92	668.32	469.65	198.67	3.364	
22,200.00	9,502.67	21,880.69	9,146.88	99.23	98.57	57.71	11,715.23	646.85	668.26	468.12	200.14	3.339	
22,300.00	9,494.37	21,980.69	9,138.71	99.95	99.29	57.72	11,814.89	645.78	668.19	466.59	201.60	3.314	
22,400.00	9,486.08	22,080.69	9,130.54	100.67	100.01	57.73	11,914.55	644.71	668.12	465.06	203.07	3.290	
22,500.00	9,477.79	22,180.69	9,122.37	101.39	100.73	57.74	12,014.21	643.64	668.06	463.53	204.53	3.266	
22,600.00	9,469.50	22,280.69	9,114.20	102.11	101.45	57.75	12,113.87	642.57	667.99	461.99	206.00	3.243	
22,700.00	9,461.20	22,380.69	9,106.03	102.83	102.17	57.76	12,213.53	641.50	667.93	460.46	207.47	3.219	
22,800.00	9,452.91	22,480.69	9,097.86	103.55	102.89	57.76	12,313.19	640.43	667.86	458.92	208.94	3.196	
22,900.00	9,444.62	22,580.69	9,089.69	104.27	103.62	57.77	12,412.85	639.36	667.80	457.38	210.41	3.174	
23,000.00	9,436.33	22,680.68	9,081.52	104.99	104.34	57.78	12,512.51	638.29	667.73	455.84	211.89	3.151	
23,100.00	9,428.04	22,780.68	9,073.35	105.72	105.07	57.79	12,612.17	637.22	667.67	454.31	213.36	3.129	
23,200.00	9,419.74	22,880.68	9,065.18	106.44	105.79	57.80	12,711.83	636.15	667.60	452.77	214.84	3.107	
23,300.00	9,411.45	22,980.68	9,057.01	107.17	106.52	57.81	12,811.49	635.08	667.54	451.22	216.31	3.086	
23,400.00	9,403.16	23,080.68	9,048.84	107.89	107.24	57.82	12,911.15	634.00	667.47	449.68	217.79	3.065	
23,500.00	9,394.87	23,180.68	9,040.67	108.62	107.97	57.83	13,010.81	632.93	667.41	448.14	219.27	3.044	
23,600.00	9,386.57	23,280.68	9,032.50	109.34	108.70	57.84	13,110.47	631.86	667.34	446.59	220.75	3.023	
23,700.00	9,378.28	23,380.68	9,024.33	110.07	109.43	57.84	13,210.13	630.79	667.28	445.05	222.23	3.003	
23,800.00	9,369.99	23,480.68	9,016.16	110.80	110.16	57.85	13,309.79	629.72	667.21	443.50	223.71	2.983	
23,900.00	9,361.70	23,580.68	9,007.99	111.53	110.89	57.86	13,409.45	628.65	667.15	441.96	225.19	2.963	
24,000.00	9,353.40	23,680.68	8,999.82	112.26	111.61	57.87	13,509.11	627.58	667.08	440.41	226.67	2.943	
24,100.00	9,345.11	23,780.68	8,991.65	112.99	112.35	57.88	13,608.77	626.51	667.01	438.86	228.16	2.924	
24,200.00	9,336.82	23,880.68	8,983.48	113.72	113.08	57.89	13,708.43	625.44	666.95	437.31	229.64	2.904	
24,300.00	9,328.53	23,980.68	8,975.31	114.45	113.81	57.90	13,808.09	624.37	666.88	435.76	231.13	2.885	
24,400.00	9,320.23	24,080.68	8,967.14	115.18	114.54	57.91	13,907.75	623.30	666.82	434.21	232.61	2.867	
24,500.00	9,311.94	24,180.68	8,958.97	115.91	115.27	57.92	14,007.41	622.23	666.75	432.66	234.10	2.848	
24,600.00	9,303.65	24,280.68	8,950.80	116.64	116.01	57.92	14,107.07	621.16	666.69	431.10	235.59	2.830	
24,700.00	9,295.36	24,380.68	8,942.63	117.37	116.74	57.93	14,206.73	620.08	666.62	429.55	237.07	2.812	
24,800.00	9,287.07	24,480.68	8,934.46	118.11	117.47	57.94	14,306.39	619.01	666.56	428.00	238.56	2.794	
24,900.00	9,278.77	24,580.68	8,926.29	118.84	118.21	57.95	14,406.05	617.94	666.49	426.44	240.05	2.776	
25,000.00	9,270.48	24,680.68	8,918.12	119.57	118.94	57.96	14,505.71	616.87	666.43	424.88	241.54	2.759	
25,100.00	9,262.19	24,780.68	8,909.95	120.31	119.68	57.97	14,605.37	615.80	666.36	423.33	243.04	2.742	
25,200.00	9,253.90	24,880.68	8,901.78	121.04	120.41	57.98	14,705.03	614.73	666.30	421.77	244.53	2.725	
25,300.00	9,245.60	24,980.68	8,893.61	121.78	121.15	57.99	14,804.69	613.66	666.23	420.21	246.02	2.708	
25,400.00	9,237.31	25,080.68	8,885.44	122.51	121.89	58.00	14,904.34	612.59	666.17	418.66	247.51	2.691	
25,500.00	9,229.02	25,180.68	8,877.27	123.25	122.62	58.01	15,004.00	611.52	666.10	417.10	249.01	2.675	
25,600.00	9,220.73	25,280.68	8,869.10	123.99	123.36	58.01	15,103.66	610.45	666.04	415.54	250.50	2.659	
25,700.00	9,212.43	25,380.68	8,860.93	124.72	124.10	58.02	15,203.32	609.38	665.97	413.98	252.00	2.643	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 504H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
25,800.00	9,204.14	25,480.68	8,852.76	125.46	124.84	58.03	15,302.98	608.31	665.91	412.42	253.49	2.627	
25,900.00	9,195.85	25,580.68	8,844.59	126.20	125.58	58.04	15,402.64	607.24	665.84	410.85	254.99	2.611	
26,000.00	9,187.56	25,680.68	8,836.42	126.94	126.32	58.05	15,502.30	606.16	665.78	409.29	256.49	2.596	
26,100.00	9,179.26	25,780.68	8,828.25	127.68	127.06	58.06	15,601.96	605.09	665.72	407.73	257.99	2.580	
26,200.00	9,170.97	25,880.68	8,820.08	128.42	127.80	58.07	15,701.62	604.02	665.65	406.17	259.49	2.565	
26,300.00	9,162.68	25,980.68	8,811.91	129.15	128.54	58.08	15,801.28	602.95	665.59	404.60	260.98	2.550	
26,400.00	9,154.39	26,080.68	8,803.74	129.89	129.28	58.09	15,900.94	601.88	665.52	403.04	262.48	2.535	
26,500.00	9,146.09	26,180.68	8,795.57	130.63	130.02	58.10	16,000.60	600.81	665.46	401.47	263.98	2.521	
26,600.00	9,137.80	26,280.68	8,787.40	131.38	130.76	58.10	16,100.26	599.74	665.39	399.91	265.48	2.506	
26,700.00	9,129.51	26,380.68	8,779.23	132.12	131.50	58.11	16,199.92	598.67	665.33	398.34	266.99	2.492	
26,800.00	9,121.22	26,480.68	8,771.06	132.86	132.24	58.12	16,299.58	597.60	665.26	396.77	268.49	2.478	
26,900.00	9,112.93	26,580.68	8,762.89	133.60	132.98	58.13	16,399.24	596.53	665.20	395.21	269.99	2.464	
27,000.00	9,104.63	26,680.68	8,754.72	134.34	133.73	58.14	16,498.90	595.46	665.13	393.64	271.49	2.450	
27,100.00	9,096.34	26,780.68	8,746.55	135.08	134.47	58.15	16,598.56	594.39	665.07	392.07	273.00	2.436	
27,200.00	9,088.05	26,880.68	8,738.38	135.82	135.21	58.16	16,698.22	593.32	665.00	390.50	274.50	2.423	
27,300.00	9,079.76	26,980.68	8,730.21	136.57	135.96	58.17	16,797.88	592.25	664.94	388.93	276.00	2.409	
27,400.00	9,071.46	27,080.68	8,722.04	137.31	136.70	58.18	16,897.54	591.17	664.87	387.36	277.51	2.396	
27,500.00	9,063.17	27,180.68	8,713.87	138.05	137.44	58.18	16,997.20	590.10	664.81	385.79	279.01	2.383	
27,600.00	9,054.88	27,280.68	8,705.70	138.80	138.19	58.19	17,096.86	589.03	664.74	384.22	280.52	2.370	
27,700.00	9,046.59	27,380.68	8,697.53	139.54	138.93	58.20	17,196.52	587.96	664.68	382.65	282.03	2.357	
27,800.00	9,038.29	27,480.68	8,689.36	140.29	139.68	58.21	17,296.18	586.89	664.62	381.08	283.53	2.344	
27,900.00	9,030.00	27,580.68	8,681.19	141.03	140.42	58.22	17,395.84	585.82	664.55	379.51	285.04	2.331	
28,000.00	9,021.71	27,680.68	8,673.02	141.78	141.17	58.23	17,495.50	584.75	664.49	377.94	286.55	2.319	
28,100.00	9,013.42	27,780.68	8,664.85	142.52	141.91	58.24	17,595.16	583.68	664.42	376.37	288.06	2.307	
28,200.00	9,005.12	27,880.68	8,656.68	143.27	142.66	58.25	17,694.82	582.61	664.36	374.79	289.56	2.294	
28,300.00	8,996.83	27,980.68	8,648.51	144.01	143.41	58.26	17,794.48	581.54	664.29	373.22	291.07	2.282	
28,400.00	8,988.54	28,080.68	8,640.34	144.76	144.15	58.27	17,894.14	580.47	664.23	371.65	292.58	2.270	
28,500.00	8,980.25	28,180.68	8,632.17	145.50	144.90	58.27	17,993.80	579.40	664.16	370.07	294.09	2.258	
28,563.28	8,975.00	28,243.96	8,627.00	145.98	145.30	58.28	18,056.86	578.72	664.12	369.18	294.94	2.252	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 603H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
0.00	0.00	0.20	0.00	0.00	0.00	-90.21	-0.15	-40.00	40.00				
100.00	100.00	100.20	100.00	0.28	0.28	-90.21	-0.15	-40.00	40.00	39.45	0.55	72.364	
200.00	200.00	200.20	200.00	0.63	0.64	-90.21	-0.15	-40.00	40.00	38.73	1.27	31.504	
300.00	300.00	300.20	300.00	0.99	0.99	-90.21	-0.15	-40.00	40.00	38.01	1.99	20.135	
400.00	400.00	400.20	400.00	1.35	1.35	-90.21	-0.15	-40.00	40.00	37.30	2.70	14.795	
500.00	500.00	500.20	500.00	1.71	1.71	-90.21	-0.15	-40.00	40.00	36.58	3.42	11.694	
600.00	600.00	600.20	600.00	2.07	2.07	-90.21	-0.15	-40.00	40.00	35.86	4.14	9.668	
700.00	700.00	700.20	700.00	2.43	2.43	-90.21	-0.15	-40.00	40.00	35.15	4.85	8.240	
800.00	800.00	800.20	800.00	2.79	2.79	-90.21	-0.15	-40.00	40.00	34.43	5.57	7.180	
900.00	900.00	900.20	900.00	3.14	3.14	-90.21	-0.15	-40.00	40.00	33.71	6.29	6.361	
1,000.00	1,000.00	1,000.20	1,000.00	3.50	3.50	-90.21	-0.15	-40.00	40.00	33.00	7.01	5.710	
1,100.00	1,100.00	1,100.20	1,100.00	3.86	3.86	-90.21	-0.15	-40.00	40.00	32.28	7.72	5.180	
1,200.00	1,200.00	1,200.20	1,200.00	4.22	4.22	-90.21	-0.15	-40.00	40.00	31.56	8.44	4.740	
1,300.00	1,300.00	1,300.20	1,300.00	4.58	4.58	-90.21	-0.15	-40.00	40.00	30.84	9.16	4.369	
1,400.00	1,400.00	1,400.20	1,400.00	4.94	4.94	-90.21	-0.15	-40.00	40.00	30.13	9.87	4.051	
1,500.00	1,500.00	1,500.20	1,500.00	5.29	5.30	-90.21	-0.15	-40.00	40.00	29.41	10.59	3.777	
1,516.60	1,516.60	1,516.80	1,516.60	5.35	5.35	-90.21	-0.15	-40.00	40.00	29.29	10.71	3.735	CC
1,600.00	1,600.00	1,600.00	1,599.80	5.65	5.65	-90.21	-0.15	-40.00	40.00	28.69	11.31	3.538	ES, SF
1,700.00	1,699.98	1,698.76	1,698.54	6.00	6.00	132.55	-0.52	-41.66	42.85	30.86	11.99	3.575	
1,800.00	1,799.84	1,796.80	1,796.45	6.33	6.33	135.34	-1.61	-46.60	51.47	38.84	12.63	4.074	
1,900.00	1,899.49	1,893.87	1,893.15	6.66	6.66	138.18	-3.40	-54.71	65.63	52.36	13.27	4.947	
2,000.00	1,999.11	1,989.93	1,988.53	7.00	6.99	139.44	-5.86	-65.87	83.34	69.45	13.89	6.000	
2,100.00	2,098.73	2,087.70	2,085.35	7.33	7.33	139.86	-8.79	-79.16	102.93	88.38	14.55	7.073	
2,200.00	2,198.35	2,185.76	2,182.45	7.68	7.68	140.15	-11.74	-92.50	122.54	107.31	15.23	8.048	
2,300.00	2,297.97	2,283.82	2,279.55	8.02	8.02	140.35	-14.68	-105.84	142.15	126.25	15.90	8.938	
2,400.00	2,397.59	2,381.88	2,376.65	8.36	8.37	140.51	-17.63	-119.18	161.76	145.18	16.59	9.752	
2,500.00	2,497.21	2,479.93	2,473.75	8.71	8.71	140.63	-20.57	-132.53	181.38	164.10	17.27	10.501	
2,600.00	2,596.83	2,577.99	2,570.85	9.06	9.06	140.73	-23.52	-145.87	200.99	183.03	17.96	11.190	
2,700.00	2,696.45	2,676.05	2,667.95	9.41	9.41	140.81	-26.46	-159.21	220.61	201.95	18.65	11.826	
2,800.00	2,796.07	2,774.10	2,765.05	9.76	9.77	140.88	-29.41	-172.55	240.22	220.88	19.35	12.416	
2,900.00	2,895.69	2,872.16	2,862.15	10.11	10.12	140.94	-32.35	-185.89	259.84	239.79	20.04	12.963	
3,000.00	2,995.31	2,970.22	2,959.25	10.46	10.47	140.99	-35.29	-199.24	279.46	258.71	20.74	13.472	
3,100.00	3,094.93	3,068.27	3,056.35	10.81	10.83	141.03	-38.24	-212.58	299.07	277.63	21.44	13.947	
3,200.00	3,194.55	3,166.33	3,153.45	11.17	11.18	141.07	-41.18	-225.92	318.69	296.54	22.15	14.391	
3,300.00	3,294.17	3,264.39	3,250.55	11.52	11.54	141.10	-44.13	-239.26	338.31	315.46	22.85	14.806	
3,400.00	3,393.79	3,362.44	3,347.65	11.88	11.89	141.13	-47.07	-252.60	357.92	334.37	23.55	15.196	
3,500.00	3,493.41	3,460.50	3,444.75	12.23	12.25	141.16	-50.02	-265.94	377.54	353.28	24.26	15.563	
3,600.00	3,593.02	3,558.56	3,541.86	12.59	12.61	141.18	-52.96	-279.29	397.16	372.19	24.97	15.908	
3,700.00	3,692.64	3,656.61	3,638.96	12.95	12.96	141.21	-55.91	-292.63	416.77	391.10	25.67	16.233	
3,800.00	3,792.26	3,754.67	3,736.06	13.30	13.32	141.23	-58.85	-305.97	436.39	410.01	26.38	16.540	
3,900.00	3,891.88	3,852.73	3,833.16	13.66	13.68	141.24	-61.80	-319.31	456.01	428.91	27.09	16.831	
4,000.00	3,991.50	3,950.79	3,930.26	14.02	14.04	141.26	-64.74	-332.65	475.62	447.82	27.80	17.106	
4,100.00	4,091.12	4,048.84	4,027.36	14.38	14.40	141.28	-67.69	-346.00	495.24	466.72	28.52	17.367	
4,200.00	4,190.74	4,146.90	4,124.46	14.74	14.76	141.29	-70.63	-359.34	514.86	485.63	29.23	17.615	
4,300.00	4,290.36	4,244.96	4,221.56	15.10	15.12	141.30	-73.58	-372.68	534.48	504.53	29.94	17.850	
4,400.00	4,389.98	4,343.01	4,318.66	15.45	15.48	141.31	-76.52	-386.02	554.09	523.44	30.66	18.075	
4,500.00	4,489.60	4,441.07	4,415.76	15.81	15.84	141.33	-79.47	-399.36	573.71	542.34	31.37	18.289	
4,600.00	4,589.22	4,539.13	4,512.86	16.17	16.20	141.34	-82.41	-412.71	593.33	561.24	32.08	18.493	
4,700.00	4,688.84	4,637.18	4,609.96	16.53	16.56	141.35	-85.35	-426.05	612.94	580.14	32.80	18.687	
4,800.00	4,788.46	4,735.24	4,707.06	16.90	16.92	141.36	-88.30	-439.39	632.56	599.05	33.52	18.874	
4,900.00	4,888.08	4,833.30	4,804.16	17.26	17.28	141.36	-91.24	-452.73	652.18	617.95	34.23	19.052	
5,000.00	4,987.70	4,931.35	4,901.26	17.62	17.64	141.37	-94.19	-466.07	671.80	636.85	34.95	19.222	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 603H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
5,100.00	5,087.32	5,029.41	4,998.36	17.98	18.00	141.38	-97.13	-479.42	691.41	655.75	35.67	19.386	
5,200.00	5,186.94	5,127.47	5,095.46	18.34	18.37	141.39	-100.08	-492.76	711.03	674.65	36.38	19.543	
5,300.00	5,286.61	5,225.62	5,192.66	18.70	18.73	141.51	-103.03	-506.11	730.14	693.04	37.10	19.680	
5,400.00	5,386.49	5,324.20	5,290.27	19.06	19.09	141.54	-105.99	-519.53	746.77	708.95	37.82	19.747	
5,500.00	5,486.47	5,423.12	5,388.22	19.40	19.46	-80.21	-108.96	-532.98	760.73	722.20	38.52	19.746	
5,600.00	5,586.47	5,522.14	5,486.28	19.74	19.82	-80.60	-111.93	-546.46	773.66	734.43	39.23	19.723	
5,700.00	5,686.47	5,621.16	5,584.34	20.08	20.19	-80.97	-114.90	-559.93	786.63	746.70	39.93	19.700	
5,800.00	5,786.47	5,720.19	5,682.40	20.42	20.56	-81.34	-117.88	-573.41	799.63	758.99	40.63	19.679	
5,900.00	5,886.47	5,819.21	5,780.46	20.77	20.92	-81.69	-120.85	-586.88	812.66	771.32	41.34	19.659	
6,000.00	5,986.47	5,918.24	5,878.52	21.11	21.29	-82.03	-123.82	-600.35	825.72	783.68	42.04	19.640	
6,100.00	6,086.47	6,017.26	5,976.58	21.45	21.65	-82.37	-126.80	-613.83	838.81	796.06	42.75	19.622	
6,200.00	6,186.47	6,116.29	6,074.63	21.79	22.02	-82.69	-129.77	-627.30	851.92	808.47	43.45	19.605	
6,300.00	6,286.47	6,215.31	6,172.69	22.14	22.39	-83.00	-132.75	-640.77	865.06	820.90	44.16	19.589	
6,400.00	6,386.47	6,314.34	6,270.75	22.48	22.75	-83.30	-135.72	-654.25	878.23	833.36	44.87	19.573	
6,500.00	6,486.47	6,413.36	6,368.81	22.82	23.12	-83.59	-138.69	-667.72	891.42	845.84	45.58	19.558	
6,600.00	6,586.47	6,512.38	6,466.87	23.17	23.49	-83.88	-141.67	-681.19	904.63	858.34	46.29	19.544	
6,700.00	6,686.47	6,611.41	6,564.93	23.51	23.85	-84.16	-144.64	-694.67	917.86	870.86	47.00	19.531	
6,800.00	6,786.47	6,710.43	6,662.98	23.86	24.22	-84.43	-147.61	-708.14	931.11	883.41	47.70	19.518	
6,900.00	6,886.47	6,809.46	6,761.04	24.21	24.59	-84.69	-150.59	-721.61	944.38	895.97	48.41	19.506	
7,000.00	6,986.47	6,908.48	6,859.10	24.55	24.96	-84.94	-153.56	-735.09	957.67	908.55	49.13	19.495	
7,100.00	7,086.47	7,007.51	6,957.16	24.90	25.32	-85.19	-156.54	-748.56	970.98	921.15	49.84	19.483	
7,200.00	7,186.47	7,106.53	7,055.22	25.25	25.69	-85.43	-159.51	-762.04	984.31	933.76	50.55	19.473	
7,300.00	7,286.47	7,205.56	7,153.28	25.59	26.06	-85.66	-162.48	-775.51	997.65	946.39	51.26	19.463	
7,400.00	7,386.47	7,304.58	7,251.34	25.94	26.43	-85.89	-165.46	-788.98	1,011.01	959.04	51.97	19.453	
7,500.00	7,486.47	7,403.61	7,349.39	26.29	26.79	-86.11	-168.43	-802.46	1,024.39	971.70	52.68	19.444	
7,600.00	7,586.47	7,502.63	7,447.45	26.64	27.16	-86.33	-171.40	-815.93	1,037.77	984.38	53.40	19.435	
7,700.00	7,686.47	7,601.65	7,545.51	26.99	27.53	-86.54	-174.38	-829.40	1,051.18	997.07	54.11	19.427	
7,800.00	7,786.47	7,700.68	7,643.57	27.33	27.90	-86.74	-177.35	-842.88	1,064.59	1,009.77	54.82	19.418	
7,900.00	7,886.47	7,799.70	7,741.63	27.68	28.26	-86.94	-180.33	-856.35	1,078.02	1,022.49	55.54	19.411	
8,000.00	7,986.47	7,898.73	7,839.69	28.03	28.63	-87.14	-183.30	-869.82	1,091.47	1,035.21	56.25	19.403	
8,100.00	8,086.47	7,997.75	7,937.75	28.38	29.00	-87.33	-186.27	-883.30	1,104.92	1,047.95	56.97	19.396	
8,200.00	8,186.47	8,096.78	8,035.80	28.73	29.37	-87.52	-189.25	-896.77	1,118.39	1,060.71	57.68	19.389	
8,300.00	8,286.47	8,195.80	8,133.86	29.08	29.74	-87.70	-192.22	-910.24	1,131.87	1,073.47	58.40	19.382	
8,400.00	8,386.47	8,294.83	8,231.92	29.43	30.10	-87.88	-195.19	-923.72	1,145.35	1,086.24	59.11	19.376	
8,500.00	8,486.47	8,393.85	8,329.98	29.78	30.47	-88.05	-198.17	-937.19	1,158.85	1,099.03	59.83	19.370	
8,600.00	8,586.47	8,492.87	8,428.04	30.13	30.84	-88.22	-201.14	-950.67	1,172.36	1,111.82	60.54	19.364	
8,700.00	8,686.47	8,591.90	8,526.10	30.48	31.21	-88.38	-204.12	-964.14	1,185.88	1,124.62	61.26	19.358	
8,800.00	8,786.47	8,690.92	8,624.15	30.84	31.58	-88.54	-207.09	-977.61	1,199.41	1,137.43	61.98	19.353	
8,900.00	8,886.47	8,789.95	8,722.21	31.19	31.94	-88.70	-210.06	-991.09	1,212.95	1,150.26	62.69	19.348	
9,000.00	8,986.47	8,888.97	8,820.27	31.54	32.31	-88.86	-213.04	-1,004.56	1,226.49	1,163.08	63.41	19.342	
9,100.00	9,086.47	8,988.00	8,918.33	31.89	32.68	-89.01	-216.01	-1,018.03	1,240.05	1,175.92	64.13	19.338	
9,200.00	9,186.47	9,087.02	9,016.39	32.24	33.05	-89.16	-218.98	-1,031.51	1,253.61	1,188.77	64.84	19.333	
9,300.00	9,286.47	9,186.05	9,114.45	32.59	33.42	-89.30	-221.96	-1,044.98	1,267.18	1,201.62	65.56	19.328	
9,400.00	9,386.47	9,285.07	9,212.51	32.95	33.79	-89.44	-224.93	-1,058.45	1,280.76	1,214.49	66.28	19.324	
9,500.00	9,486.47	9,384.09	9,310.56	33.30	34.15	-89.58	-227.91	-1,071.93	1,294.35	1,227.35	67.00	19.320	
9,600.00	9,586.47	9,483.12	9,408.62	33.65	34.52	-89.72	-230.88	-1,085.40	1,307.95	1,240.23	67.72	19.315	
9,700.00	9,686.47	9,582.14	9,506.68	34.00	34.89	-89.85	-233.85	-1,098.87	1,321.55	1,253.11	68.43	19.311	
9,800.00	9,786.47	9,681.17	9,604.74	34.35	35.26	-89.98	-236.83	-1,112.35	1,335.15	1,266.00	69.15	19.308	
9,900.00	9,886.43	9,857.70	9,780.02	34.71	35.91	-89.11	-237.31	-1,132.59	1,347.16	1,276.84	70.33	19.155	
10,000.00	9,984.97	10,060.83	9,981.82	35.05	36.60	-89.27	-217.04	-1,139.79	1,349.99	1,278.65	71.34	18.923	
10,100.00	10,079.19	10,158.25	10,075.62	35.37	36.91	-89.56	-191.18	-1,140.07	1,349.92	1,277.95	71.97	18.758	
10,200.00	10,166.23	10,256.84	10,164.71	35.65	37.20	-89.87	-149.22	-1,140.53	1,349.88	1,277.34	72.54	18.608	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 603H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
10,241.00	10,199.21	10,297.62	10,199.21	35.76	37.31	-90.00	-127.51	-1,140.76	1,349.88	1,277.12	72.76	18.552	
10,300.00	10,243.43	10,356.68	10,246.25	35.91	37.46	-90.18	-91.83	-1,141.15	1,349.88	1,276.82	73.06	18.476	
10,400.00	10,308.47	10,457.84	10,317.44	36.13	37.68	-90.49	-20.16	-1,141.92	1,349.93	1,276.41	73.51	18.363	
10,500.00	10,359.35	10,560.31	10,375.60	36.31	37.85	-90.79	64.04	-1,142.84	1,350.01	1,276.12	73.89	18.271	
10,600.00	10,394.53	10,664.08	10,418.27	36.45	37.97	-91.06	158.47	-1,143.86	1,350.11	1,275.93	74.18	18.201	
10,700.00	10,416.72	10,767.42	10,444.81	36.57	38.05	-91.22	258.27	-1,144.94	1,350.18	1,275.77	74.41	18.145	
10,800.00	10,430.32	10,870.11	10,461.45	36.67	38.11	-91.33	359.56	-1,146.03	1,350.24	1,275.62	74.62	18.095	
10,900.00	10,435.22	10,973.03	10,468.96	36.76	38.18	-91.43	462.16	-1,147.14	1,350.30	1,275.50	74.80	18.052	
11,000.00	10,431.41	11,076.17	10,467.23	36.87	38.26	-91.52	565.25	-1,148.25	1,350.36	1,275.35	75.01	18.003	
11,100.00	10,423.12	11,177.19	10,458.62	37.00	38.38	-91.51	665.89	-1,149.33	1,350.35	1,275.08	75.27	17.940	
11,200.00	10,414.83	11,277.19	10,449.65	37.15	38.53	-91.48	765.48	-1,150.40	1,350.33	1,274.76	75.57	17.869	
11,300.00	10,406.54	11,377.18	10,440.67	37.31	38.70	-91.45	865.07	-1,151.47	1,350.31	1,274.42	75.90	17.792	
11,400.00	10,398.24	11,477.18	10,431.70	37.49	38.89	-91.43	964.66	-1,152.54	1,350.30	1,274.04	76.26	17.708	
11,500.00	10,389.95	11,577.18	10,422.73	37.68	39.09	-91.40	1,064.24	-1,153.61	1,350.28	1,273.63	76.64	17.618	
11,600.00	10,381.66	11,677.18	10,413.75	37.89	39.31	-91.37	1,163.83	-1,154.68	1,350.26	1,273.20	77.06	17.522	
11,700.00	10,373.37	11,777.17	10,404.78	38.12	39.54	-91.34	1,263.42	-1,155.75	1,350.24	1,272.74	77.51	17.421	
11,800.00	10,365.07	11,877.17	10,395.81	38.35	39.78	-91.31	1,363.01	-1,156.82	1,350.23	1,272.25	77.98	17.315	
11,900.00	10,356.78	11,977.17	10,386.84	38.60	40.04	-91.28	1,462.60	-1,157.89	1,350.21	1,271.73	78.48	17.204	
12,000.00	10,348.49	12,077.17	10,377.86	38.87	40.31	-91.25	1,562.19	-1,158.96	1,350.20	1,271.19	79.01	17.089	
12,100.00	10,340.20	12,177.16	10,368.89	39.15	40.60	-91.22	1,661.78	-1,160.03	1,350.18	1,270.62	79.57	16.969	
12,200.00	10,331.90	12,277.16	10,359.92	39.44	40.89	-91.19	1,761.36	-1,161.10	1,350.17	1,270.02	80.15	16.846	
12,300.00	10,323.61	12,377.16	10,350.94	39.74	41.20	-91.16	1,860.95	-1,162.17	1,350.15	1,269.40	80.75	16.719	
12,400.00	10,315.32	12,477.16	10,341.97	40.06	41.52	-91.14	1,960.54	-1,163.23	1,350.14	1,268.75	81.39	16.590	
12,500.00	10,307.03	12,577.15	10,333.00	40.39	41.85	-91.11	2,060.13	-1,164.30	1,350.13	1,268.09	82.04	16.457	
12,600.00	10,298.73	12,677.15	10,324.03	40.73	42.20	-91.08	2,159.72	-1,165.37	1,350.11	1,267.39	82.72	16.322	
12,700.00	10,290.44	12,777.15	10,315.05	41.08	42.55	-91.05	2,259.31	-1,166.44	1,350.10	1,266.68	83.42	16.184	
12,800.00	10,282.15	12,877.15	10,306.08	41.45	42.91	-91.02	2,358.90	-1,167.51	1,350.09	1,265.94	84.15	16.044	
12,900.00	10,273.86	12,977.15	10,297.11	41.82	43.29	-90.99	2,458.48	-1,168.58	1,350.07	1,265.18	84.89	15.903	
13,000.00	10,265.56	13,077.14	10,288.13	42.21	43.67	-90.96	2,558.07	-1,169.65	1,350.06	1,264.40	85.66	15.761	
13,100.00	10,257.27	13,177.14	10,279.16	42.61	44.07	-90.93	2,657.66	-1,170.72	1,350.05	1,263.60	86.45	15.617	
13,200.00	10,248.98	13,277.14	10,270.19	43.01	44.47	-90.90	2,757.25	-1,171.79	1,350.04	1,262.78	87.26	15.472	
13,300.00	10,240.69	13,377.14	10,261.22	43.43	44.88	-90.87	2,856.84	-1,172.86	1,350.03	1,261.94	88.09	15.326	
13,400.00	10,232.40	13,477.13	10,252.24	43.85	45.31	-90.85	2,956.43	-1,173.93	1,350.02	1,261.08	88.94	15.180	
13,500.00	10,224.10	13,577.13	10,243.27	44.29	45.74	-90.82	3,056.01	-1,175.00	1,350.01	1,260.21	89.80	15.033	
13,600.00	10,215.81	13,677.13	10,234.30	44.73	46.18	-90.79	3,155.60	-1,176.07	1,350.00	1,259.31	90.69	14.887	
13,700.00	10,207.52	13,777.13	10,225.32	45.19	46.63	-90.76	3,255.19	-1,177.14	1,349.99	1,258.40	91.59	14.740	
13,800.00	10,199.23	13,877.12	10,216.35	45.65	47.08	-90.73	3,354.78	-1,178.21	1,349.98	1,257.47	92.51	14.593	
13,900.00	10,190.93	13,977.12	10,207.38	46.12	47.55	-90.70	3,454.37	-1,179.28	1,349.97	1,256.53	93.44	14.447	
14,000.00	10,182.64	14,077.12	10,198.41	46.60	48.02	-90.67	3,553.96	-1,180.35	1,349.96	1,255.57	94.39	14.301	
14,100.00	10,174.35	14,177.12	10,189.43	47.08	48.50	-90.64	3,653.55	-1,181.42	1,349.95	1,254.59	95.36	14.156	
14,200.00	10,166.06	14,277.12	10,180.46	47.58	48.99	-90.61	3,753.13	-1,182.49	1,349.95	1,253.60	96.34	14.012	
14,300.00	10,157.76	14,377.11	10,171.49	48.08	49.48	-90.58	3,852.72	-1,183.56	1,349.94	1,252.60	97.34	13.868	
14,400.00	10,149.47	14,477.11	10,162.51	48.58	49.98	-90.56	3,952.31	-1,184.63	1,349.93	1,251.58	98.35	13.726	
14,500.00	10,141.18	14,577.11	10,153.54	49.10	50.49	-90.53	4,051.90	-1,185.70	1,349.93	1,250.55	99.37	13.584	
14,600.00	10,132.89	14,677.11	10,144.57	49.62	51.01	-90.50	4,151.49	-1,186.77	1,349.92	1,249.51	100.41	13.444	
14,700.00	10,124.59	14,777.10	10,135.59	50.15	51.53	-90.47	4,251.08	-1,187.84	1,349.91	1,248.45	101.46	13.304	
14,800.00	10,116.30	14,877.10	10,126.62	50.68	52.05	-90.44	4,350.67	-1,188.91	1,349.91	1,247.38	102.53	13.166	
14,900.00	10,108.01	14,977.10	10,117.65	51.22	52.59	-90.41	4,450.25	-1,189.98	1,349.90	1,246.30	103.60	13.030	
15,000.00	10,099.72	15,077.10	10,108.68	51.77	53.13	-90.38	4,549.84	-1,191.05	1,349.90	1,245.21	104.69	12.894	
15,100.00	10,091.42	15,177.09	10,099.70	52.32	53.67	-90.35	4,649.43	-1,192.12	1,349.89	1,244.10	105.79	12.760	
15,200.00	10,083.13	15,277.09	10,090.73	52.87	54.22	-90.32	4,749.02	-1,193.19	1,349.89	1,242.99	106.90	12.628	
15,300.00	10,074.84	15,377.09	10,081.76	53.44	54.77	-90.29	4,848.61	-1,194.26	1,349.88	1,241.87	108.02	12.497	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 603H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
15,400.00	10,066.55	15,477.09	10,072.78	54.00	55.33	-90.27	4,948.20	-1,195.33	1,349.88	1,240.73	109.15	12.368	
15,500.00	10,058.26	15,577.08	10,063.81	54.57	55.90	-90.24	5,047.79	-1,196.40	1,349.88	1,239.59	110.29	12.240	
15,600.00	10,049.96	15,677.08	10,054.84	55.15	56.47	-90.21	5,147.37	-1,197.47	1,349.87	1,238.44	111.44	12.113	
15,700.00	10,041.67	15,777.08	10,045.87	55.73	57.04	-90.18	5,246.96	-1,198.54	1,349.87	1,237.27	112.60	11.988	
15,800.00	10,033.38	15,877.08	10,036.89	56.32	57.62	-90.15	5,346.55	-1,199.61	1,349.87	1,236.10	113.77	11.865	
15,900.00	10,025.09	15,977.08	10,027.92	56.91	58.21	-90.12	5,446.14	-1,200.68	1,349.87	1,234.92	114.94	11.744	
16,000.00	10,016.79	16,077.07	10,018.95	57.51	58.79	-90.09	5,545.73	-1,201.75	1,349.87	1,233.73	116.13	11.624	
16,100.00	10,008.50	16,177.07	10,009.97	58.10	59.39	-90.06	5,645.32	-1,202.82	1,349.86	1,232.54	117.33	11.505	
16,200.00	10,000.21	16,277.07	10,001.00	58.71	59.98	-90.03	5,744.91	-1,203.89	1,349.86	1,231.33	118.53	11.388	
16,300.00	9,991.92	16,377.07	9,992.03	59.31	60.58	-90.00	5,844.49	-1,204.96	1,349.86	1,230.12	119.74	11.273	
16,400.00	9,983.62	16,477.06	9,983.06	59.92	61.19	-89.98	5,944.08	-1,206.03	1,349.86	1,228.91	120.96	11.160	
16,401.32	9,983.52	16,478.38	9,982.94	59.93	61.19	-89.98	5,945.39	-1,206.04	1,349.86	1,228.89	120.97	11.158	
16,500.00	9,975.33	16,577.06	9,974.08	60.54	61.79	-89.95	6,043.67	-1,207.10	1,349.86	1,227.68	122.18	11.048	
16,600.00	9,967.04	16,677.06	9,965.11	61.16	62.40	-89.92	6,143.26	-1,208.17	1,349.86	1,226.45	123.42	10.938	
16,700.00	9,958.75	16,777.06	9,956.14	61.78	63.02	-89.89	6,242.85	-1,209.24	1,349.86	1,225.21	124.66	10.829	
16,800.00	9,950.45	16,877.05	9,947.16	62.40	63.64	-89.86	6,342.44	-1,210.31	1,349.87	1,223.96	125.90	10.722	
16,900.00	9,942.16	16,977.05	9,938.19	63.03	64.26	-89.83	6,442.03	-1,211.38	1,349.87	1,222.71	127.16	10.616	
17,000.00	9,933.87	17,077.05	9,929.22	63.66	64.88	-89.80	6,541.61	-1,212.45	1,349.87	1,221.45	128.41	10.512	
17,100.00	9,925.58	17,177.05	9,920.25	64.30	65.51	-89.77	6,641.20	-1,213.52	1,349.87	1,220.19	129.68	10.409	
17,200.00	9,917.29	17,277.05	9,911.27	64.93	66.14	-89.74	6,740.79	-1,214.58	1,349.87	1,218.92	130.95	10.308	
17,300.00	9,908.99	17,377.04	9,902.30	65.57	66.77	-89.71	6,840.38	-1,215.65	1,349.88	1,217.65	132.23	10.209	
17,400.00	9,900.70	17,477.04	9,893.33	66.22	67.41	-89.69	6,939.97	-1,216.72	1,349.88	1,216.37	133.51	10.111	
17,500.00	9,892.41	17,577.04	9,884.35	66.86	68.05	-89.66	7,039.56	-1,217.79	1,349.88	1,215.08	134.80	10.014	
17,600.00	9,884.12	17,677.04	9,875.38	67.51	68.69	-89.63	7,139.14	-1,218.86	1,349.89	1,213.79	136.09	9.919	
17,700.00	9,875.82	17,777.03	9,866.41	68.16	69.33	-89.60	7,238.73	-1,219.93	1,349.89	1,212.50	137.39	9.825	
17,800.00	9,867.53	17,877.03	9,857.44	68.81	69.98	-89.57	7,338.32	-1,221.00	1,349.90	1,211.20	138.70	9.733	
17,900.00	9,859.24	17,977.03	9,848.46	69.47	70.63	-89.54	7,437.91	-1,222.07	1,349.90	1,209.90	140.01	9.642	
18,000.00	9,850.95	18,077.03	9,839.49	70.13	71.28	-89.51	7,537.50	-1,223.14	1,349.91	1,208.59	141.32	9.552	
18,100.00	9,842.65	18,177.02	9,830.52	70.79	71.93	-89.48	7,637.09	-1,224.21	1,349.91	1,207.27	142.64	9.464	
18,200.00	9,834.36	18,277.02	9,821.54	71.45	72.59	-89.45	7,736.68	-1,225.28	1,349.92	1,205.96	143.96	9.377	
18,300.00	9,826.07	18,377.02	9,812.57	72.11	73.25	-89.42	7,836.26	-1,226.35	1,349.92	1,204.64	145.29	9.291	
18,400.00	9,817.78	18,477.02	9,803.60	72.78	73.91	-89.40	7,935.85	-1,227.42	1,349.93	1,203.31	146.62	9.207	
18,500.00	9,809.48	18,577.01	9,794.63	73.45	74.57	-89.37	8,035.44	-1,228.49	1,349.94	1,201.98	147.96	9.124	
18,600.00	9,801.19	18,677.01	9,785.65	74.12	75.23	-89.34	8,135.03	-1,229.56	1,349.95	1,200.65	149.29	9.042	
18,700.00	9,792.90	18,777.01	9,776.68	74.79	75.90	-89.31	8,234.62	-1,230.63	1,349.95	1,199.32	150.64	8.962	
18,800.00	9,784.61	18,877.01	9,767.71	75.47	76.57	-89.28	8,334.21	-1,231.70	1,349.96	1,197.98	151.99	8.882	
18,900.00	9,776.31	18,977.01	9,758.73	76.14	77.24	-89.25	8,433.80	-1,232.77	1,349.97	1,196.63	153.34	8.804	
19,000.00	9,768.02	19,077.00	9,749.76	76.82	77.91	-89.22	8,533.38	-1,233.84	1,349.98	1,195.29	154.69	8.727	
19,100.00	9,759.73	19,177.00	9,740.79	77.50	78.59	-89.19	8,632.97	-1,234.91	1,349.99	1,193.94	156.05	8.651	
19,200.00	9,751.44	19,277.00	9,731.82	78.18	79.26	-89.16	8,732.56	-1,235.98	1,350.00	1,192.59	157.41	8.576	
19,300.00	9,743.15	19,377.00	9,722.84	78.86	79.94	-89.13	8,832.15	-1,237.05	1,350.01	1,191.23	158.78	8.503	
19,400.00	9,734.85	19,476.99	9,713.87	79.55	80.62	-89.11	8,931.74	-1,238.12	1,350.02	1,189.87	160.14	8.430	
19,500.00	9,726.56	19,576.99	9,704.90	80.23	81.30	-89.08	9,031.33	-1,239.19	1,350.03	1,188.51	161.52	8.358	
19,600.00	9,718.27	19,676.99	9,695.92	80.92	81.98	-89.05	9,130.92	-1,240.26	1,350.04	1,187.15	162.89	8.288	
19,700.00	9,709.98	19,776.99	9,686.95	81.61	82.67	-89.02	9,230.50	-1,241.33	1,350.05	1,185.78	164.27	8.219	
19,800.00	9,701.68	19,876.98	9,677.98	82.30	83.35	-88.99	9,330.09	-1,242.40	1,350.06	1,184.41	165.65	8.150	
19,900.00	9,693.39	19,976.98	9,669.01	82.99	84.04	-88.96	9,429.68	-1,243.47	1,350.07	1,183.04	167.03	8.083	
20,000.00	9,685.10	20,076.98	9,660.03	83.69	84.73	-88.93	9,529.27	-1,244.54	1,350.09	1,181.67	168.42	8.016	
20,100.00	9,676.81	20,176.98	9,651.06	84.38	85.42	-88.90	9,628.86	-1,245.61	1,350.10	1,180.29	169.81	7.951	
20,200.00	9,668.51	20,276.98	9,642.09	85.08	86.11	-88.87	9,728.45	-1,246.68	1,350.11	1,178.91	171.20	7.886	
20,300.00	9,660.22	20,376.97	9,633.11	85.78	86.80	-88.84	9,828.04	-1,247.75	1,350.13	1,177.53	172.59	7.823	
20,400.00	9,651.93	20,476.97	9,624.14	86.48	87.50	-88.82	9,927.62	-1,248.82	1,350.14	1,176.15	173.99	7.760	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 603H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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
20,500.00	9,643.64	20,576.97	9,615.17	87.17	88.19	-88.79	10,027.21	-1,249.89	1,350.15	1,174.76	175.39	7.698	
20,600.00	9,635.34	20,676.97	9,606.20	87.88	88.89	-88.76	10,126.80	-1,250.96	1,350.17	1,173.38	176.79	7.637	
20,700.00	9,627.05	20,776.96	9,597.22	88.58	89.58	-88.73	10,226.39	-1,252.03	1,350.18	1,171.99	178.19	7.577	
20,800.00	9,618.76	20,876.96	9,588.25	89.28	90.28	-88.70	10,325.98	-1,253.10	1,350.20	1,170.60	179.60	7.518	
20,900.00	9,610.47	20,976.96	9,579.28	89.99	90.98	-88.67	10,425.57	-1,254.17	1,350.21	1,169.20	181.01	7.459	
21,000.00	9,602.18	21,076.96	9,570.30	90.69	91.68	-88.64	10,525.16	-1,255.24	1,350.23	1,167.81	182.42	7.402	
21,100.00	9,593.88	21,176.95	9,561.33	91.40	92.39	-88.61	10,624.74	-1,256.31	1,350.24	1,166.41	183.83	7.345	
21,200.00	9,585.59	21,276.95	9,552.36	92.11	93.09	-88.58	10,724.33	-1,257.38	1,350.26	1,165.01	185.25	7.289	
21,300.00	9,577.30	21,376.95	9,543.39	92.81	93.79	-88.56	10,823.92	-1,258.45	1,350.28	1,163.61	186.67	7.234	
21,400.00	9,569.01	21,476.95	9,534.41	93.52	94.50	-88.53	10,923.51	-1,259.52	1,350.29	1,162.21	188.08	7.179	
21,500.00	9,560.71	21,576.94	9,525.44	94.23	95.20	-88.50	11,023.10	-1,260.59	1,350.31	1,160.81	189.51	7.125	
21,600.00	9,552.42	21,676.94	9,516.47	94.95	95.91	-88.47	11,122.69	-1,261.66	1,350.33	1,159.40	190.93	7.072	
21,700.00	9,544.13	21,776.94	9,507.49	95.66	96.62	-88.44	11,222.27	-1,262.73	1,350.35	1,158.00	192.35	7.020	
21,800.00	9,535.84	21,876.94	9,498.52	96.37	97.33	-88.41	11,321.86	-1,263.80	1,350.37	1,156.59	193.78	6.969	
21,900.00	9,527.54	21,976.94	9,489.55	97.09	98.04	-88.38	11,421.45	-1,264.87	1,350.39	1,155.18	195.21	6.918	
22,000.00	9,519.25	22,076.93	9,480.58	97.80	98.75	-88.35	11,521.04	-1,265.93	1,350.40	1,153.77	196.64	6.867	
22,100.00	9,510.96	22,176.93	9,471.60	98.52	99.46	-88.32	11,620.63	-1,267.00	1,350.42	1,152.35	198.07	6.818	
22,200.00	9,502.67	22,276.93	9,462.63	99.23	100.17	-88.29	11,720.22	-1,268.07	1,350.44	1,150.94	199.50	6.769	
22,300.00	9,494.37	22,376.93	9,453.66	99.95	100.89	-88.27	11,819.81	-1,269.14	1,350.46	1,149.53	200.94	6.721	
22,400.00	9,486.08	22,476.92	9,444.68	100.67	101.60	-88.24	11,919.39	-1,270.21	1,350.48	1,148.11	202.38	6.673	
22,500.00	9,477.79	22,576.92	9,435.71	101.39	102.32	-88.21	12,018.98	-1,271.28	1,350.51	1,146.69	203.81	6.626	
22,600.00	9,469.50	22,676.92	9,426.74	102.11	103.03	-88.18	12,118.57	-1,272.35	1,350.53	1,145.27	205.25	6.580	
22,700.00	9,461.20	22,776.92	9,417.77	102.83	103.75	-88.15	12,218.16	-1,273.42	1,350.55	1,143.85	206.70	6.534	
22,800.00	9,452.91	22,876.91	9,408.79	103.55	104.47	-88.12	12,317.75	-1,274.49	1,350.57	1,142.43	208.14	6.489	
22,900.00	9,444.62	22,976.91	9,399.82	104.27	105.19	-88.09	12,417.34	-1,275.56	1,350.59	1,141.01	209.58	6.444	
23,000.00	9,436.33	23,076.91	9,390.85	104.99	105.91	-88.06	12,516.93	-1,276.63	1,350.62	1,139.59	211.03	6.400	
23,100.00	9,428.04	23,176.91	9,381.87	105.72	106.63	-88.03	12,616.51	-1,277.70	1,350.64	1,138.16	212.48	6.357	
23,200.00	9,419.74	23,276.91	9,372.90	106.44	107.35	-88.00	12,716.10	-1,278.77	1,350.66	1,136.74	213.92	6.314	
23,300.00	9,411.45	23,376.90	9,363.93	107.17	108.07	-87.98	12,815.69	-1,279.84	1,350.69	1,135.31	215.37	6.271	
23,400.00	9,403.16	23,476.90	9,354.95	107.89	108.79	-87.95	12,915.28	-1,280.91	1,350.71	1,133.88	216.83	6.229	
23,500.00	9,394.87	23,576.90	9,345.98	108.62	109.51	-87.92	13,014.87	-1,281.98	1,350.73	1,132.46	218.28	6.188	
23,600.00	9,386.57	23,676.90	9,337.01	109.34	110.23	-87.89	13,114.46	-1,283.05	1,350.76	1,131.03	219.73	6.147	
23,700.00	9,378.28	23,776.89	9,328.04	110.07	110.96	-87.86	13,214.05	-1,284.12	1,350.78	1,129.60	221.19	6.107	
23,800.00	9,369.99	23,876.89	9,319.06	110.80	111.68	-87.83	13,313.63	-1,285.19	1,350.81	1,128.17	222.64	6.067	
23,900.00	9,361.70	23,976.89	9,310.09	111.53	112.41	-87.80	13,413.22	-1,286.26	1,350.83	1,126.73	224.10	6.028	
24,000.00	9,353.40	24,076.89	9,301.12	112.26	113.13	-87.77	13,512.81	-1,287.33	1,350.86	1,125.30	225.56	5.989	
24,100.00	9,345.11	24,176.88	9,292.14	112.99	113.86	-87.74	13,612.40	-1,288.40	1,350.89	1,123.87	227.02	5.951	
24,200.00	9,336.82	24,276.88	9,283.17	113.72	114.59	-87.71	13,711.99	-1,289.47	1,350.91	1,122.43	228.48	5.913	
24,300.00	9,328.53	24,376.88	9,274.20	114.45	115.31	-87.69	13,811.58	-1,290.54	1,350.94	1,121.00	229.94	5.875	
24,400.00	9,320.23	24,476.88	9,265.23	115.18	116.04	-87.66	13,911.17	-1,291.61	1,350.97	1,119.56	231.40	5.838	
24,500.00	9,311.94	24,576.88	9,256.25	115.91	116.77	-87.63	14,010.75	-1,292.68	1,351.00	1,118.13	232.87	5.802	
24,600.00	9,303.65	24,676.87	9,247.28	116.64	117.50	-87.60	14,110.34	-1,293.75	1,351.02	1,116.69	234.33	5.765	
24,700.00	9,295.36	24,776.87	9,238.31	117.37	118.23	-87.57	14,209.93	-1,294.82	1,351.05	1,115.25	235.80	5.730	
24,800.00	9,287.07	24,876.87	9,229.33	118.11	118.96	-87.54	14,309.52	-1,295.89	1,351.08	1,113.82	237.27	5.694	
24,900.00	9,278.77	24,976.87	9,220.36	118.84	119.69	-87.51	14,409.11	-1,296.96	1,351.11	1,112.38	238.73	5.659	
25,000.00	9,270.48	25,076.86	9,211.39	119.57	120.42	-87.48	14,508.70	-1,298.03	1,351.14	1,110.94	240.20	5.625	
25,100.00	9,262.19	25,176.86	9,202.42	120.31	121.15	-87.45	14,608.29	-1,299.10	1,351.17	1,109.50	241.67	5.591	
25,200.00	9,253.90	25,276.86	9,193.44	121.04	121.88	-87.43	14,707.87	-1,300.17	1,351.20	1,108.06	243.14	5.557	
25,300.00	9,245.60	25,376.86	9,184.47	121.78	122.62	-87.40	14,807.46	-1,301.24	1,351.23	1,106.62	244.62	5.524	
25,400.00	9,237.31	25,476.85	9,175.50	122.51	123.35	-87.37	14,907.05	-1,302.31	1,351.26	1,105.17	246.09	5.491	
25,500.00	9,229.02	25,576.85	9,166.52	123.25	124.08	-87.34	15,006.64	-1,303.38	1,351.29	1,103.73	247.56	5.458	
25,600.00	9,220.73	25,676.85	9,157.55	123.99	124.82	-87.31	15,106.23	-1,304.45	1,351.32	1,102.29	249.04	5.426	

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

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Offset Design: Rope State Com Pad - Rope State Com 603H - OH - Plan #2

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+MS

Offset Well Error: 0.00 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)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
25,700.00	9,212.43	25,776.85	9,148.58	124.72	125.55	-87.28	15,205.82	-1,305.52	1,351.36	1,100.85	250.51	5.394	
25,800.00	9,204.14	25,876.84	9,139.61	125.46	126.29	-87.25	15,305.40	-1,306.59	1,351.39	1,099.40	251.99	5.363	
25,900.00	9,195.85	25,976.84	9,130.63	126.20	127.02	-87.22	15,404.99	-1,307.66	1,351.42	1,097.96	253.46	5.332	
26,000.00	9,187.56	26,076.84	9,121.66	126.94	127.76	-87.19	15,504.58	-1,308.73	1,351.45	1,096.51	254.94	5.301	
26,100.00	9,179.26	26,176.84	9,112.69	127.68	128.49	-87.16	15,604.17	-1,309.80	1,351.49	1,095.07	256.42	5.271	
26,200.00	9,170.97	26,276.84	9,103.71	128.42	129.23	-87.14	15,703.76	-1,310.87	1,351.52	1,093.62	257.90	5.240	
26,300.00	9,162.68	26,376.83	9,094.74	129.15	129.96	-87.11	15,803.35	-1,311.94	1,351.56	1,092.18	259.38	5.211	
26,400.00	9,154.39	26,476.83	9,085.77	129.89	130.70	-87.08	15,902.94	-1,313.01	1,351.59	1,090.73	260.86	5.181	
26,500.00	9,146.09	26,576.83	9,076.80	130.63	131.44	-87.05	16,002.52	-1,314.08	1,351.62	1,089.28	262.34	5.152	
26,600.00	9,137.80	26,676.83	9,067.82	131.38	132.18	-87.02	16,102.11	-1,315.15	1,351.66	1,087.84	263.82	5.123	
26,700.00	9,129.51	26,776.82	9,058.85	132.12	132.92	-86.99	16,201.70	-1,316.22	1,351.70	1,086.39	265.31	5.095	
26,800.00	9,121.22	26,876.82	9,049.88	132.86	133.65	-86.96	16,301.29	-1,317.28	1,351.73	1,084.94	266.79	5.067	
26,900.00	9,112.93	26,976.82	9,040.90	133.60	134.39	-86.93	16,400.88	-1,318.35	1,351.77	1,083.49	268.27	5.039	
27,000.00	9,104.63	27,076.82	9,031.93	134.34	135.13	-86.90	16,500.47	-1,319.42	1,351.80	1,082.04	269.76	5.011	
27,100.00	9,096.34	27,176.81	9,022.96	135.08	135.87	-86.88	16,600.06	-1,320.49	1,351.84	1,080.59	271.25	4.984	
27,200.00	9,088.05	27,276.81	9,013.99	135.82	136.61	-86.85	16,699.64	-1,321.56	1,351.88	1,079.15	272.73	4.957	
27,300.00	9,079.76	27,376.81	9,005.01	136.57	137.35	-86.82	16,799.23	-1,322.63	1,351.91	1,077.70	274.22	4.930	
27,400.00	9,071.46	27,476.81	8,996.04	137.31	138.09	-86.79	16,898.82	-1,323.70	1,351.95	1,076.25	275.71	4.904	
27,500.00	9,063.17	27,576.81	8,987.07	138.05	138.83	-86.76	16,998.41	-1,324.77	1,351.99	1,074.80	277.19	4.877	
27,600.00	9,054.88	27,676.80	8,978.09	138.80	139.58	-86.73	17,098.00	-1,325.84	1,352.03	1,073.35	278.68	4.851	
27,700.00	9,046.59	27,776.80	8,969.12	139.54	140.32	-86.70	17,197.59	-1,326.91	1,352.07	1,071.90	280.17	4.826	
27,800.00	9,038.29	27,876.80	8,960.15	140.29	141.06	-86.67	17,297.18	-1,327.98	1,352.11	1,070.44	281.66	4.800	
27,900.00	9,030.00	27,976.80	8,951.18	141.03	141.80	-86.64	17,396.76	-1,329.05	1,352.15	1,068.99	283.15	4.775	
28,000.00	9,021.71	28,076.79	8,942.20	141.78	142.54	-86.62	17,496.35	-1,330.12	1,352.19	1,067.54	284.64	4.750	
28,100.00	9,013.42	28,176.79	8,933.23	142.52	143.29	-86.59	17,595.94	-1,331.19	1,352.23	1,066.09	286.14	4.726	
28,200.00	9,005.12	28,276.79	8,924.26	143.27	144.03	-86.56	17,695.53	-1,332.26	1,352.27	1,064.64	287.63	4.701	
28,300.00	8,996.83	28,376.79	8,915.28	144.01	144.77	-86.53	17,795.12	-1,333.33	1,352.31	1,063.19	289.12	4.677	
28,400.00	8,988.54	28,476.78	8,906.31	144.76	145.52	-86.50	17,894.71	-1,334.40	1,352.35	1,061.73	290.61	4.653	
28,500.00	8,980.25	28,576.78	8,897.34	145.50	146.26	-86.47	17,994.30	-1,335.47	1,352.39	1,060.28	292.11	4.630	
28,563.28	8,975.00	28,640.06	8,891.66	145.98	146.73	-86.45	18,057.31	-1,336.15	1,352.42	1,059.36	293.05	4.615	

Total Directional

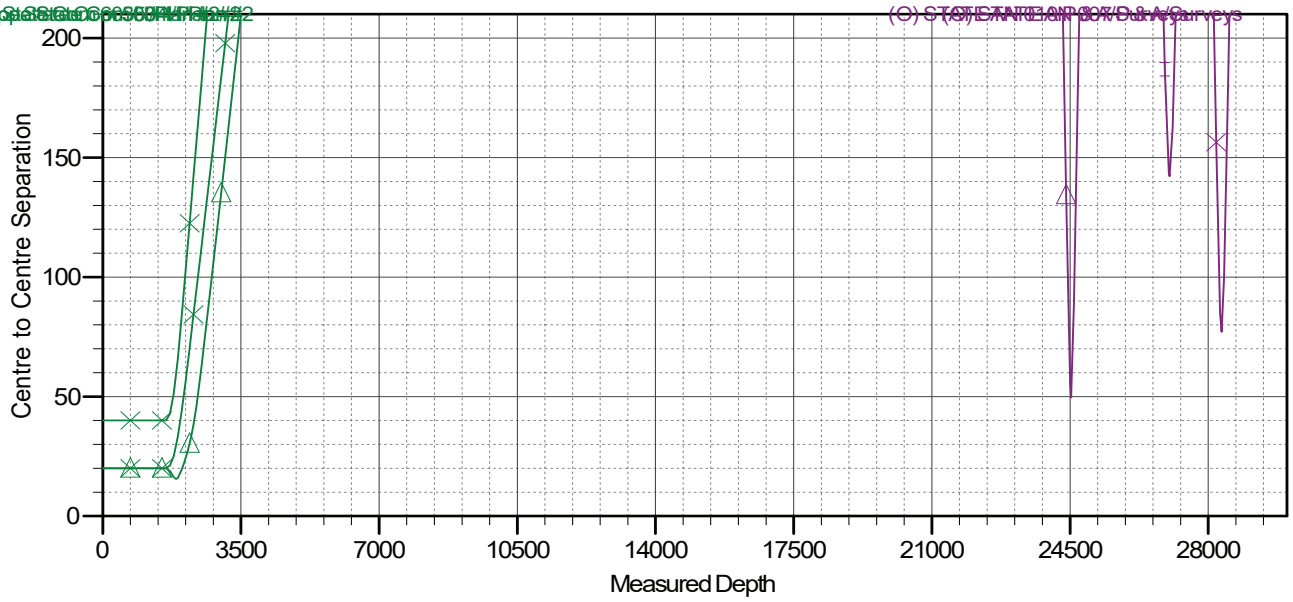
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3939.1' + KB 23' @ 3962.10usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Rope State Com 604H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

STATE COM 134H, Horizontal - PRODUCING, Surveys V0
STATE COM 133H, Horizontal - PRODUCING, Surveys V0
STATE COM 114H, Horizontal - PRODUCING, Surveys V0
ls, Surveys V0
STATE COM 124H, Horizontal - PRODUCING, Surveys V0
, Plan #2 V0
, Plan #2 V0
/ertical, Surveys V0
, Plan #2 V0

(O) NEW MEXICO BV STATE 001 P & A, Vertical, Surveys V0
(O) BLACK JACK STATE 001, Verticals, Surveys V0
(O) STATE AN 007 P & A, Vertical, Surveys V0
(O) LEO STATE 006 TA, Verticals, Surveys V0
(O) IRONHOUSE 19 STATE COM 002H, Horizontal - PRODUCING, Surveys V0
(O) LEA SOUTHEAST STATE 1 P & A, Vertical, Surveys V0
(O) LEO STATE #1, OH, OH V0
(O) STATE AN 006 TA, Vertical, Surveys V0
(O) ALBATROSS STATE COM 002H, Horizontal - PRODUCING, Surveys V0

(O) BLACK JACK STATE 002, Verticals, Surveys
(O) STATE AN 009 P & A, Vertical, Surveys V0
(O) ALBATROSS STATE COM 001H, Horizontal - PR
(O) STATE AN 012 P & A, ST01, ST01 V0
(O) STATE AN 012 P & A, OH, Surveys V0
(O) BLACK JACK STATE 003, Verticals, Surveys
(O) LEO STATE 007, Verticals, Surveys V0
(O) IRONHOUSE 19 STATE COM 003H, Horizontal -
(O) STATE AN 008 P & A, Vertical, Surveys V0

Total Directional

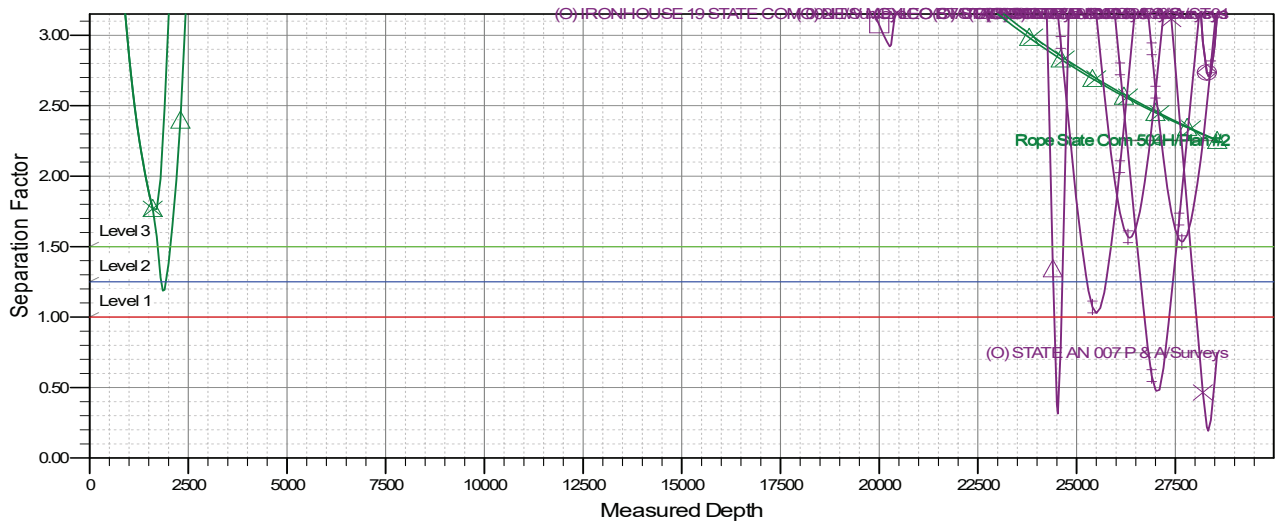
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Rope State Com 604H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Reference Site:	Rope State Com Pad	**MD Reference:**	GE 3939.1' + KB 23' @ 3962.10usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Rope State Com 604H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	.Total Directional Production DB
Reference Design:	Plan #2	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3939.1' + KB 23' @ 3962.10usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Rope State Com 604H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

STATE COM 134H, Horizontal - PRODUCING, Surveys V0
STATE COM 133H, Horizontal - PRODUCING, Surveys V0
STATE COM 114H, Horizontal - PRODUCING, Surveys V0
ls, Surveys V0
STATE COM 124H, Horizontal - PRODUCING, Surveys V0
, Plan #2 V0
, Plan #2 V0
/ertical, Surveys V0
, Plan #2 V0

(O) NEW MEXICO BV STATE 001 P & A, Vertical, Surveys V0
(O) BLACK JACK STATE 001, Verticals, Surveys V0
(O) STATE AN 007 P & A, Vertical, Surveys V0
(O) LEO STATE 006 TA, Verticals, Surveys V0
(O) IRONHOUSE 19 STATE COM 002H, Horizontal - PRODUCING, Surveys V0
(O) LEA SOUTHEAST STATE 1 P & A, Vertical, Surveys V0
(O) LEO STATE #1, OH, OH V0
(O) STATE AN 006 TA, Vertical, Surveys V0
(O) ALBATROSS STATE COM 002H, Horizontal - PRODUCING, Surveys V0

(O) BLACK JACK STATE 002, Verticals, Surveys
(O) STATE AN 009 P & A, Vertical, Surveys V0
(O) ALBATROSS STATE COM 001H, Horizontal - P
(O) STATE AN 012 P & A, ST01, ST01 V0
(O) STATE AN 012 P & A, OH, Surveys V0
(O) BLACK JACK STATE 003, Verticals, Surveys
(O) LEO STATE 007, Verticals, Surveys V0
(O) IRONHOUSE 19 STATE COM 003H, Horizontal -
(O) STATE AN 008 P & A, Vertical, Surveys V0

COTERRA

Coterra Energy Inc.
Permian Business Unit
6001 Deauville Blvd.
Suite 300N
Midland, TX 79706

T 432.571.7800
coterra.com

April 24, 2026

State of New Mexico
Energy, Minerals, and Natural
Resources Department
Attn: Matthew Gomez

Via E-Mail

Re: Rope State 503H, 504H, 603H, 604H
Mack Energy Corporation's Consent to Overlap (Case No. 24459)

Dear Mr. Gomez,

On November 13, 2024, Mack Energy Corporation, operator of their vertical wells located in Section 18, Township 18 South, Range 35 East, waived their objection of the overlapping spacing units of Case No. 24459. Case No. 24459 covered the Bone Spring Formation in the E/2 of Sections 18, 19, and 30, Township 18 South, Range 35 East, Lea County, New Mexico and included the application of Rope State Com 303H, Rope State Com 304H, and Rope State Com 604H.

Coterra is requesting sundries on all three wells listed in Case No. 24459:
Rope State Com 504H (FKA Rope State Com 304H)
Rope State Com 603H (FKA Rope State Com 603H)
Rope State Com 604H

including an additional well, **Rope State Com 503H,** all within the proposed unit of SE/4 of Section 7 and the E/2 of Sections 18, 19, and 30, Township 18 South, Range 35 East, Lea County, New Mexico, which includes all lands and the Bone Spring Formation under Case No. 24459.

Dated this 24th day of April, 2026.

Signature: _____

Name: Phillip G. Levasseur

Title: Regulatory Compliance Manager, Attorney-in-Fact

Coterra Energy Inc.
Permian Business Unit
6001 Deauville Blvd.
Suite 300N
Midland, TX 79706

T 432.571.7800
coterra.com

April 24, 2026

State of New Mexico
Energy, Minerals, and Natural
Resources Department
Attn: Matthew Gomez

Via E-Mail

Re: Rope State 503H, 504H, 603H, 604H
Rope State JOA Statement
Consent to Overlap

Dear Mr. Gomez,

MorningStar Operating LLC ("MorningStar"), operator of the State AN 005 (API No. 30-025-03105), located in the NW/4 SE/4 of Section 7, Township 18 South, Range 35 East, Lea County, New Mexico, hereby waived any objection to the drilling of the **Rope State Com 503H**, **Rope State Com 504H**, **Rope State Com 603H**, and the **Rope State Com 604H**, within the proposed unit (SE/4 of Section 7 and the E/2 of Sections 18, 19, and 30, Township 18 South, Range 35 East, Lea County, New Mexico, whose completed interval will partially overlap the existing spacing unit of the State AN 005, when MorningStar executed the Rope State JOA covering the Bone Spring Formation on February 20, 2026 as a participating partner in the aforementioned Rope State wells.

Dated this 24th day of April, 2026.

Signature: _____

Name: Phillip G. Levasseur

Title: Regulatory Compliance Manager, Attorney-in-Fact

WAIVER OF OBJECTION AND CONSENT TO OVERLAP

The undersigned, as authorized representative of **Matador Production Company**, operator of the **Albatross State Com 001H** (API No. 30-025-41809), located in the **E/2 E/2 of Section 30, Township 18 South, Range 35 East, N.M.P.M., Lea County, New Mexico,** and the **Albatross State Com 002H** (API No. 30-025-41544), located in the **W/2 E/2 of Section 30, Township 18 South, Range 35 East, N.M.P.M., Lea County, New Mexico**, hereby acknowledges receipt of the foregoing Notice and, pursuant to 19.15.16.15(B)(9)(b) NMAC, WAIVES any objection to the drilling of the **Rope State Com 503H, Rope State Com 504H, Rope State Com 603H, and the Rope State Com 604H**, within the proposed unit (SE/4 of Section 7 and the E/2 of Sections 18, 19, and 30, Township 18 South, Range 35 East, N.M.P.M., Lea County, New Mexico), whose completed interval will partially overlap the existing spacing unit of the above-referenced well.

This waiver is executed voluntarily and with knowledge of the applicant's proposed operations.

Signature: _____ KP SE

Printed Name: Jonathan J. Filbert

Title: Executive Vice President of Land

Company: **Matador Production Company**

Date: 4/17/26

Return executed waiver to:
Coterra Energy Operating Co.
Land Dept c/o Blair Nutter
6001 Deauville Blvd.
Midland, Texas 79706

WAIVER

Mack Energy Corporation, operator of certain existing vertical wells located in Section 18, Township 18 South, Range 35 East, hereby waives any requirement to receive notice by certified mail of Franklin Mountain Energy 3's application seeking approval, to the extent necessary, of overlapping spacing units in Case No. 24459. Mack Energy Corporation also does not object to Franklin Mountain Energy 3's application in Case No. 24459.

.

Dated: 11/13/2024

Staci D. Sanders
(signature)

Name: Staci D. Sanders
Title: Vice President

COTERRA

Coterra Energy Inc.
Permian Business Unit
6001 Deauville Blvd.
Suite 300N
Midland, TX 79706

T 432.571.7800
coterra.com

February 12, 2026

MorningStar Operating, LLC
400 W 7th Street
Fort Worth, TX 76102

Re: **Revised Exhibit "A"**
Rope State Com 501H, 502H & 604H
Sections 7, 18 19 & 30-T18S-R35E
Lea County, New Mexico

To Whom It May Concern,

Enclosed for your execution are signature pages for the above-referenced Operating Agreement associated with the above described lands and wells.

We have revised the Rope State JOA's Exhibit A to include the below OGL which was unintentionally left off the original Exhibit A:

2. Lessor: State of New Mexico VB-1313
Lessee: Chase Oil Corporation
Date: January 1, 2008
Description: T18S, R35E, N.M.P.M., Lea County, NM
Section 18: SE4
Recorded: Book 2232, Page 544

Please review and execute the enclosed signature pages at your convenience. Should you have any questions, please contact Landman Blair Nutter at blair.nutter@coterra.com

Respectfully,

Gena Hale

Gena Hale
Coterra Energy Inc.
Land Department
Gena.Hale@Coterra.com

A.A.P.L. FORM 610-E - GAS BALANCING AGREEMENT - 1992

15. COUNTERPARTS

This Agreement may be executed in counterparts, each of which when taken with all other counterparts shall constitute a binding agreement between the Parties hereto; ~~provided, however, that if a Party or Parties owning a Percentage Interest in the Balancing Area equal to or greater than a one hundred percent (100 %) therein fail(s) to execute this Agreement on or before , this Agreement shall not be binding upon any Party and shall be of no further force and effect.~~

IN WITNESS WHEREOF, this Agreement shall be effective as of the 1st day of January, 2026.

ATTEST OR WITNESS:

OPERATOR

Coterra Energy Operating Co.

By _____

Bradley Cantrell
Type or print name

Title Attorney-In-Fact

Date _____

Tax ID or S.S. No. _____

NON-OPERATORS

MRC Permian Company

By _____

Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

Axis Energy Corporation

By _____

Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

MorningStar Operating LLC

By _____

Allen L. Armstrong, Jr.
Type or print name

Title Vice President - Land

Date 2-20-2026

Tax ID or S.S. No. _____

A.A.P.L. FORM 610-E - GAS BALANCING AGREEMENT - 1992 AMERICAN ASSOCIATION OF PETROLEUM LANDMEN APPROVED FORM A.A.P.L. NO. 610-E

ACKNOWLEDGMENTS

Acknowledgment in representative capacity:

State of TEXAS §

§ ss.

County of TARRANT §

This instrument was acknowledged before me on 20TH DAY OF FEBRUARY, 2026

by ALLEN L. ARMSTRONG, JR AS VICE PRESIDENT-LAND, OF MORNING STAR OPERATING LLC

(Seal, if any)

IVY LARISSA KIRBY
Notary Public, State of Texas
Comm. Expires 01-30-2027
Notary ID 126259467

Title (and Rank) _____

My commission expires: 1.30.2027

State of _____ §

§ ss.

County of _____ §

This instrument was acknowledged before me on _____

by _____

(Seal, if any)

_____

Title (and Rank) _____

My commission expires: _____

State of _____ §

§ ss.

County of _____ §

This instrument was acknowledged before me on _____

by _____

(Seal, if any)

_____

Title (and Rank) _____

My commission expires: _____

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1989

IN WITNESS WHEREOF, this agreement shall be effective as of the 1 day of January, 2026.

~~_____, who has prepared and circulated this form for execution, represents and warrants that the form was printed from and, with the exception(s) listed below, is identical to the AAPL Form 610-1989 Model Form Operating Agreement, as published in computerized form by Forms On A Disk, Inc. No changes, alterations, or modifications, other than those made by strikethrough and/or insertion and that are clearly recognizable as changes in Articles _____, have been made to the form.~~

ATTEST OR WITNESS:

_____

_____

OPERATOR

Coterra Energy Operating Co.

By: _____

Bradley Cantrell
Type or print name

Title Attorney-in-Fact

Date _____

Tax ID or S.S. No. _____

NON-OPERATORS

MRC Permian Company

_____ By: _____

_____
Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

Axis Energy Corporation

_____ By: _____

_____
Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

MorningStar Operating LLC

_____ By: _____

_____
Allen L. Armstrong, Jr.
Type or print name

Title Vice President - Land

Date 2-20-2026

Tax ID or S.S. No. _____

ACKNOWLEDGMENTS

Note: The following forms of acknowledgment are the short forms approved by the Uniform Law on Notarial Acts. The validity and effect of these forms in any state will depend upon the statutes of that state.

~~Individual acknowledgment:~~

~~State of _____)~~

~~_____) ss.~~

~~County of _____)~~

~~This instrument was acknowledged before me on~~

~~_____ by _____~~

~~(Seal, if any)~~ _____

~~_____ Title (and Rank) _____~~

~~_____ My commission expires: _____~~

Acknowledgment in representative capacity:

STATE OF TEXAS §
§
COUNTY OF MIDLAND §

This instrument was acknowledged before me on this _____ day of _____, 2026, by Bradley Cantrell, acting as Attorney-in-Fact for **Coterra Energy Operating Co.**, a Delaware corporation, on behalf of said corporation.

_____
Notary Public in and for the State of Texas

My Commission Expires:_____

STATE OF TEXAS §
§
COUNTY OF TARRANT §

This instrument was acknowledged before me on this 20TH day of FEBRUARY, 2026 by ALLENE L. ARMSTRONG, JR., as VICE PRESIDENT - LAND of MARATHON OIL PERMIAN LLC, a DELAWARE LLC, on behalf of said company.

IVY LARISSA KIRBY
Notary Public, State of Texas
Comm. Expires 01-30-2027
Notary ID 126259467

_____
Notary Public in and for the State of TX

My Commission Expires: 1.30.2027

Axis Energy Corporation

By: _____
Name

Print Name: KENNETH BARBE JR

Title: PRESIDENT

Date: 2/3/2026

Tax ID or S.S. NO. 76-0359826

MorningStar Operating LLC

By: _____
Name

Print Name: _____

Title: _____

Date: _____

Tax ID or S.S. NO. _____

ACKNOWLEDGEMENTS

STATE OF _____)

COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 2025, by Brad Cantrell as Attorney-in-Fact of Coterra Energy Operating Co. on behalf of said corporations.

_____
Notary Public in and for the State of Texas

_____
My commission expires:

State of _____)
) ss.
County of _____)

This instrument was acknowledged before me on _____ day of _____, 2025 by _____ as _____ of **MRC Permian Company**, a _____.

(Seal, if any)

_____
Notary Public in and for the State of Texas

My commission expires: _____

State of New Mexico)
) ss.
County of Chaves)

This instrument was acknowledged before me on 3rd day of February, 2026 by Kenneth Barbe, JR as President of **Axis Energy Corporation**, a Texas Corp.

(Seal, if any)

BRADEN LEIGH WIDENER
Notary Public
State of New Mexico
Comm. # 2001640
My Comm. Exp. Dec 27, 2027

Braden Widener
Notary Public in and for the State of ~~Texas~~ New Mexico

My commission expires: 12-27-2027

State of _____)
) ss.
County of _____)

This instrument was acknowledged before me on _____ day of _____, 2025 by _____ as _____ of **MorningStar Operating LLC**, a _____.

(Seal, if any)

_____
Notary Public in and for the State of Texas

My commission expires: _____

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1989

IN WITNESS WHEREOF, this agreement shall be effective as of the 1 day of January, 2026.

~~_____, who has prepared and circulated this form for execution, represents and warrants that the form was printed from and, with the exception(s) listed below, is identical to the AAPL Form 610-1989 Model Form Operating Agreement, as published in computerized form by Forms On A Disk, Inc. No changes, alterations, or modifications, other than those made by strikethrough and/or insertion and that are clearly recognizable as changes in Articles _____, have been made to the form.~~

ATTEST OR WITNESS:

OPERATOR

Coterra Energy Operating Co.

_____

By: _____

_____

Bradley Cantrell
Type or print name

Title Attorney-in-Fact

Date _____

Tax ID or S.S. No. _____

NON-OPERATORS

MRC Permian Company

_____

By: _____

_____
Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

Axis Energy Corporation

_____

By: [signature]

KENNETH BARBE JR
Type or print name

Title PRESIDENT

Date 2/3/2026

Tax ID or S.S. No. 76-0359826

MorningStar Operating LLC

_____

By: _____

_____
Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

services necessary to secure regulatory permits and approvals for drilling wells, laying pipelines, collecting and discharging water and any other matters related to the Contract Area

W. PRODUCED WATER

It is hereby expressly agreed that, for the disposal of produced water from the Contract Area, the Parties shall be charged a rate at or below the then currently prevailing rate in the area.

X. FORCE MAJEURE (NM)

The Parties recognize that due to environmental concerns relating to the Contract Area, there may be limited drilling windows during which Operator will be permitted to drill, and that consequently a force majeure preventing drilling during one window may require that Operator defer drilling until the next available window, even though the force majeure that originally prevented the drilling terminates earlier. In that event, the force majeure shall be considered to continue until Operator, with reasonable diligence, is able to commence or resume drilling in the next available drilling window. If the force majeure ends while the drilling window is open but without sufficient time within that window to allow the well to be drilled to the authorized depth. Operator may defer commencement or resumption of drilling until the next available window.

Y. DE-SPACED AND RE-SPACED UNIT(S)

If a proration or spacing unit comprising all or part of the Contract Area is reduced in size by a governmental agency, or by court order, or by the terms of the applicable Oil and Gas Lease(s) which have been contributed to the unit, or by agreement of the parties hereto, or by completion of a unit well in a formation different than that originally contemplated by the Consenting Parties when the well was commenced, then the parties' interests in the Contract Area, as shown on Exhibit "A", will remain unchanged, subject to the payment of royalties as follows: The parties agree to pay their share of all royalties, overriding royalties, production payments and all other burdens not excepted by Article III.C herein, in proportion to their interests as shown in Exhibit "A", regardless of which party(s) contributed the Oil and Gas Lease(s) on which the royalty and other burdens are due.

Z. MISCELLANEOUS

Conflict of Terms. In the event of a conflict between the typewritten portions and printed portions of this agreement, the typewritten portions shall prevail. In the event of a conflict between the terms of this Article XVI and any other portion of this agreement, the terms of Article XVI shall govern, control and prevail.

Invalid Provisions. In the event any provision contained in this agreement is contrary to any law, rule, regulation or order and is held to be invalid, void, illegal or unenforceable in any respect, the parties shall either modify the provision to properly conform with such law, rule, regulation or order or delete such provision from this agreement, and in either case the remaining provisions hereof shall remain unaffected and will continue in full force and effect. Furthermore, in lieu of such invalid, void, illegal or unenforceable provision there automatically shall be added as part of this agreement a provision as closely resembling such provision as shall then be valid, legal and enforceable so long as such provision does not have a material adverse effect on the rights of any party to this agreement.

COPAS Interpretation. The provisions of Exhibit "C" attached hereto shall be interpreted as recommended by the Council of Petroleum Accountants Societies of North America, Accounting Procedure for Joint Operations, after giving effect to special changes and provisions noted herein and in the provisions of Exhibit "C", if any.

JOA Preparation. Each party acknowledges and agrees that such party has been represented or had the opportunity to be represented by attorneys of its own choosing and therefore, for the purposes of construing this agreement, each party shall be deemed to have participated equally in the preparation and drafting of this agreement. If any ambiguity is contained in this agreement, no weight shall be given in favor or against any party in resolving that ambiguity on account of that party's drafting of this agreement.

AA. ~~PRODUCTION SHARING AGREEMENT~~

~~This JOA is being executed concurrently with two Production Sharing Agreements, both dated April 1, 2021, with Cimarex Energy Co. as Operator. Non-Operator(s) acknowledge that they have reviewed the terms of such Production Sharing Agreements, and in the event of a conflict of the provisions of this Operating Agreement and the Production Sharing Agreements, the provisions of the Production Sharing Agreements shall control and prevail. Furthermore, additional Production Sharing Agreements, containing substantially the same terms, may be executed in the future covering alternative depths and Sharing Areas located within the Contract Area.~~

BB. RENEWAL OR EXTENSION OF LEASES

Notwithstanding anything herein to the contrary, each party committing any Lease or Leases or any undivided interest therein or portion thereof to this agreement shall have the sole option prior to the expiration of each such Lease to renew or extend such Lease with respect to all of such party's interest therein and to bear the renewal or extension costs and expenses incurred in connection therewith and thereby retain its interest and title in said Lease. If any such party does not timely exercise its option and procure a renewal or extension of its interest in such Lease, then any replacement Lease taken covering such interest will thereafter be subject to the terms of Article VIII.B. The provisions of this section shall only apply to Leases or portions of Leases located in the Contract Area.

CC. HEADINGS

All headings in this agreement are for reference purposes only and have no binding effect on the terms, conditions, or provisions of this agreement.

DD. ADDITIONAL LANGUAGE TO ARTICLE V.A – OPERATOR

THE FOLLOWING PROVISIONS SHALL BE DEEMED CLEAR AND CONSPICUOUS AND SATISFY THE EXPRESS NEGLIGENCE RULE. ANYTHING TO THE CONTRARY NOTWITHSTANDING, OPERATOR SHALL HAVE NO LIABILITY FOR ORDINARY NEGLIGENCE ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT (INCLUDING WITHOUT LIMITATION THE ADMINISTRATION OF THIS AGREEMENT OR OPERATIONS HEREUNDER), EXCEPT FOR THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF OPERATOR.

EE. ADDITIONAL LANGUAGE TO ARTICLE VII.A - LIABILITIES OF PARTIES

NO PARTY SHALL BE LIABLE TO ANY OTHER PARTY HERETO FOR ANY LOST OR PROSPECTIVE PROFITS OR ANY OTHER SPECIAL, PUNITIVE, EXEMPLARY, CONSEQUENTIAL, INCIDENTAL OR INDIRECT LOSSES OR DAMAGES (IN TORT, CONTRACT OR OTHERWISE) UNDER OR IN RESPECT OF THIS AGREEMENT OR FOR ANY FAILURE OF PERFORMANCE RELATED HERETO HOWSOEVER CAUSED, WHETHER OR NOT ARISING FROM SUCH PARTY'S SOLE, JOINT OR CONCURRENT NEGLIGENCE, STRICT LIABILITY, BREACH OF CONTRACT OR OTHER FAULT OR RESPONSIBILITY. For purposes of the foregoing, actual damages may, however, include indirect, special, consequential, incidental or indirect losses or exemplary or punitive damages to the extent (i) the injuries or losses resulting in or giving rise to such damages are incurred or suffered by a third party which is not a party to this agreement and (ii) such damages are recovered against such party by a third party which is not a party hereto. This Article XVI.I shall operate only to limit a party's liability and shall not operate to increase or expand any contractual obligation of a party hereunder.

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1989

IN WITNESS WHEREOF, this agreement shall be effective as of the 1 day of January, 2026.

~~_____, who has prepared and circulated this form for execution, represents and warrants that the form was printed from and, with the exception(s) listed below, is identical to the A.A.P.L. Form 610-1989 Model Form Operating Agreement, as published in computerized form by Forms On-A-Disk, Inc. No changes, alterations, or modifications, other than those made by strikethrough and/or insertion and that are clearly recognizable as changes in Articles _____ have been made to the form.~~

ATTEST OR WITNESS:

_____

_____

OPERATOR

Coterra Energy Operating Co.

By: _____

Bradley Cantrell
Type or print name

Title Attorney-in-Fact

Date _____

Tax ID or S.S. No. _____

NON-OPERATORS

MRC Permian Company

By: _____

Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

Axis Energy Corporation

By: [signature]

KENNETH BARBER JR
Type or print name

Title PRESIDENT

Date 2/3/2026

Tax ID or S.S. No. 76-0359826

MorningStar Operating LLC

By: _____

Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

ACKNOWLEDGMENTS

Note: The following forms of acknowledgment are the short forms approved by the Uniform Law on Notarial Acts. The validity and effect of these forms in any state will depend upon the statutes of that state.

~~Individual acknowledgment:~~

~~State of _____)~~

~~_____) ss.~~

~~County of _____)~~

~~This instrument was acknowledged before me on~~

~~_____ by _____~~

~~(Seal, if any) _____~~

~~_____ Title (and Rank) _____~~

~~_____ My commission expires: _____~~

Acknowledgment in representative capacity:

STATE OF TEXAS §
§
COUNTY OF MIDLAND §

This instrument was acknowledged before me on this _____ day of _____, 2026, by Bradley Cantrell, acting as Attorney-in-Fact for **Coterra Energy Operating Co.**, a Delaware corporation, on behalf of said corporation.

_____
Notary Public in and for the State of Texas

My Commission Expires: _____

STATE OF New Mexico §
§
COUNTY OF Chaves §

This instrument was acknowledged before me on this 3rd day of February 2026, by Kenneth Burke, IV., as President of Axis Energy Corporation, _____, on behalf of said company.

BRADEN LEIGH WIDENER
Notary Public
State of New Mexico
Comm. # 2001640
My Comm. Exp. Dec 27, 2027

Braden Widener
Notary Public in and for the State of New Mexico

My Commission Expires: 12-27-2027

A.A.P.L. FORM 610-E - GAS BALANCING AGREEMENT - 1992

15. COUNTERPARTS

This Agreement may be executed in counterparts, each of which when taken with all other counterparts shall constitute a binding agreement between the Parties hereto; ~~provided, however, that if a Party or Parties owning a Percentage Interest in the Balancing Area equal to or greater than a one hundred percent (100 %) therein fail(s) to execute this Agreement on or before , this Agreement shall not be binding upon any Party and shall be of no further force and effect.~~

IN WITNESS WHEREOF, this Agreement shall be effective as of the 1st day of January, 2026.

ATTEST OR WITNESS:

OPERATOR

Coterra Energy Operating Co.

By _____

Bradley Cantrell
Type or print name

Title Attorney-In-Fact

Date _____

Tax ID or S.S. No. _____

NON-OPERATORS

MRC Permian Company

By _____

Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

Axis Energy Corporation

By _____

KENNETH BARBE JR
Type or print name

Title PRESIDENT

Date 2/3/2026

Tax ID or S.S. No. 76-0359826

MorningStar Operating LLC

By _____

Type or print name

Title _____

Date _____

Tax ID or S.S. No. _____

A.A.P.L. FORM 610-E - GAS BALANCING AGREEMENT - 1992

AMERICAN ASSOCIATION OF PETROLEUM LANDMEN
APPROVED FORM
A.A.P.L. NO. 610-E

ACKNOWLEDGMENTS

Acknowledgment in representative capacity:

State of _____ §

§ ss.

County of _____ §

This instrument was acknowledged before me on _____

by _____

(Seal, if any)

_____

Title (and Rank) _____

My commission expires: _____

State of New Mexico §

§ ss.

County of Chaves §

This instrument was acknowledged before me on February 3, 2026

by Kenneth Barbe, III, President Axis Energy Corporation

(Seal, if any)

BRADEN LEIGH WIDENER
Notary Public
State of New Mexico
Comm. # 2001640
My Comm. Exp. Dec 27, 2027

Braden Widener

Title (and Rank) Notary Public

My commission expires: 12-27-2027

State of _____ §

§ ss.

County of _____ §

This instrument was acknowledged before me on _____

by _____

(Seal, if any)

_____

Title (and Rank) _____

My commission expires: _____

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

COMMENTS

Action 578269

COMMENTS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 578269
	Action Type: [C-103A] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Infill to well API 30-025-53337.	4/27/2026

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	215099
	Action Number: 578269
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	4/27/2026
jeffrey.harrison	All previous COA's not addressed within the updated COA's still apply.	4/27/2026
jeffrey.harrison	All conducted logs must be submitted to the OCD.	4/27/2026
jeffrey.harrison	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If strata isolation is not achieved, remediation will be required before further operations may commence.	4/27/2026
jeffrey.harrison	Cement must be in place for at least eight hours AND achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	4/27/2026