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

Form C-101
August 1, 2011

Permit 410039

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	215099
	3. API Number 30-025-56026

4. Property Code	5. Property Name	6. Well No.
338944	SOMBRERO STATE COM	222H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	13	19S	35E	D	380	N	1302	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	25	18S	35E	C	100	N	2242	W	Lea

9. Pool Information

WC-025 G-07 S193513B;BONE SPRING	97926
VACUUM;BONE SPRING, SOUTH	61900

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3746
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
Y	30265	2nd Bone Spring Sand		3/27/2026
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1839	1130	0
Int1	12.25	9.625	36	3123	703	0
Prod	8.5	7	29	9134	324	2923
Prod	8.5	5.5	20	30265	5587	9134

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Pipe	10000	10000	
Double Ram	10000	10000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

OIL CONSERVATION DIVISION

Printed Name:	Electronically filed by Phillip Levasseur	Approved By:	Jeffrey Harrison
Title:	Regulatory Compliance Manager	Title:	Petroleum Specialist III
Email Address:	phillip.levasseur@coterra.com	Approved Date:	3/10/2026 Expiration Date: 3/10/2028
Date:	3/9/2026 Phone: 412-759-4585	Conditions of Approval Attached	

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
30-025-56026	97926	WC-025 G-07 S193513B; BONE SPRING

Property Code	Property Name	Well Number
338944	SOMBRERO STATE COM	222H

OGRID No.	Operator Name	Ground Level Elevation
215099	COTERRA ENERGY OPERATING CO.	3,746.3'

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
D	13	19S	35E		380 NORTH	1,302 WEST	32.666790°	-103.415107°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
C	25	18S	35E		100 NORTH	2,242 WEST	32.725462°	-103.412046°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
319.60	Defining	Pending	N	C

Order Numbers. R-24083 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
N	12	19S	35E		100 SOUTH	2,242 WEST	32.668097°	-103.412061°	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
N	12	19S	35E		100 SOUTH	2,242 WEST	32.668097°	-103.412061°	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
C	25	18S	35E		100 NORTH	2,242 WEST	32.725462°	-103.412046°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
E2W2 Sec 25,36,1,12	☒ Horizontal ☐ Vertical	3746.3

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 3/4/2026

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.

BUCHANAN PAUL NEW MEXICO 23782 PROFESSIONAL SURVEYOR 07-31-25

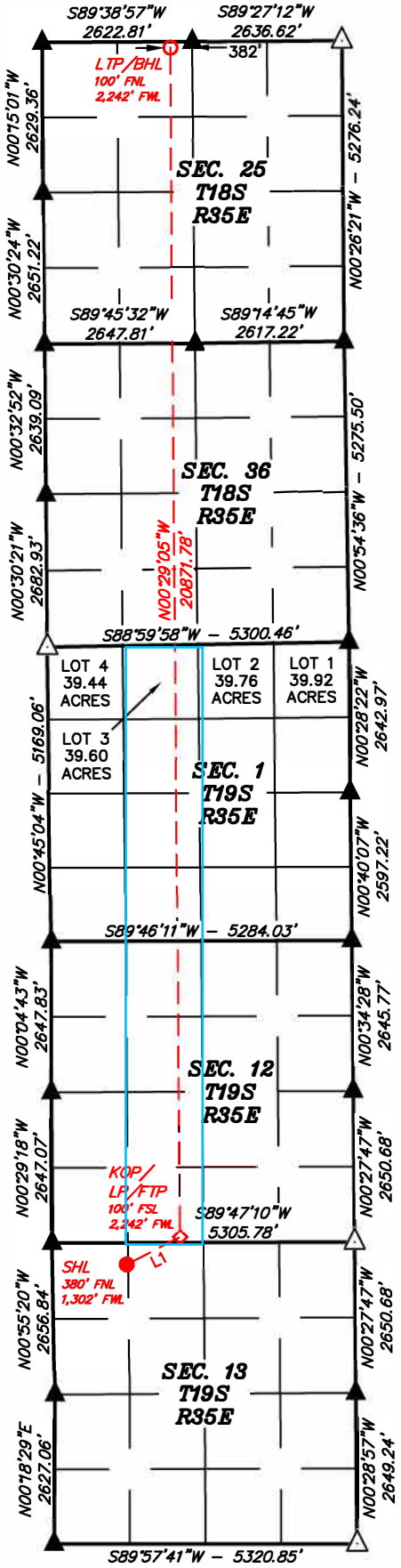
Signature and Seal of Professional Surveyor

23782 July 30, 2025

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
SOMBRERO STATE COM	222H	N.R. 07-31-25	



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

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Bearings, Distances, Coordinates and Areas are based on the New Mexico Coordinate Grid System of 1983, East Zone, in U.S. Feet.
- Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N62°37'01"E	1051.07'

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°40'00.44" (32.666790°)
LONGITUDE = -103°24'54.39" (-103.415107°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°40'00.00" (32.666668°)
LONGITUDE = -103°24'52.63" (-103.414619°)
STATE PLANE NAD 83 (N.M. EAST)
N: 607531.49' E: 823902.48'
STATE PLANE NAD 27 (N.M. EAST)
N: 607468.29' E: 782721.92'

NAD 83 (KOP/LP/FTP)
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LATITUDE = 32°40'04.71" (32.667974°)
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N: 628885.94' E: 824659.20'
STATE PLANE NAD 27 (N.M. EAST)
N: 628822.31' E: 783479.38'

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
30-025-56026	61900	VACUUM; BONE SPRING, SOUTH

Property Code	Property Name	Well Number
338944	SOMBRERO STATE COM	222H

OGRID No.	Operator Name	Ground Level Elevation
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320	Defining	Pending	N	C

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Shelly Bowen 3/4/2026

Signature Date

Shelly Bowen

Printed Name

shelly.bowen@coterra.com

Email Address

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BUCKLEY PAUL NEW MEXICO 23782 PROFESSIONAL SURVEYOR 07-31-25

Signature and Seal of Professional Surveyor

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Certificate Number Date of Survey

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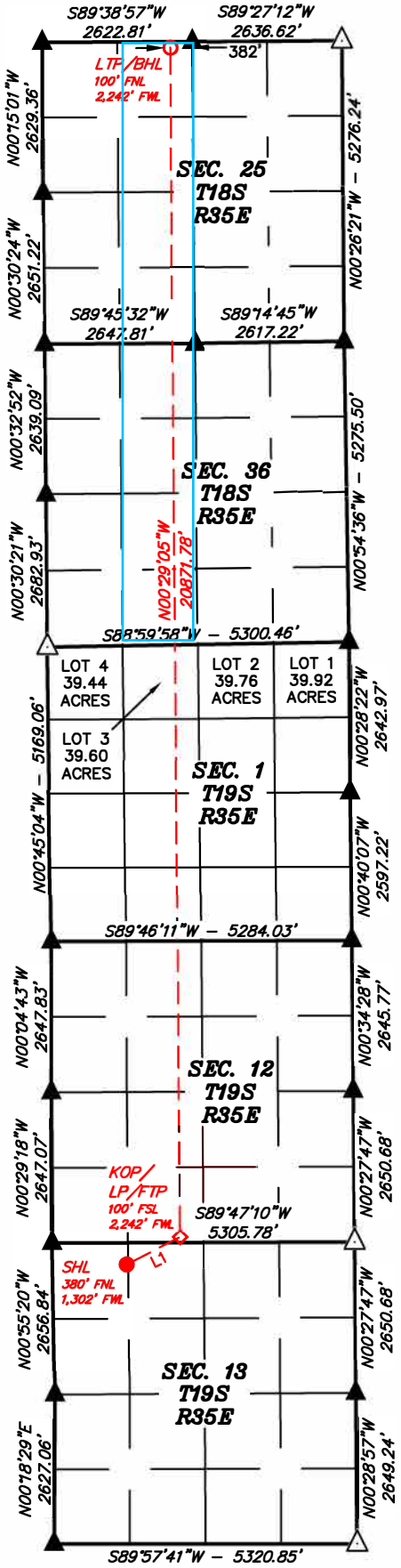

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SCALE

Sheet 2 of 2

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

Form APD Comments

Permit 410039

PERMIT COMMENTS

Operator Name and Address:	API Number:
Coterra Energy Operating Co. [215099] 6001 Deauville Blvd Midland, TX 79706	30-025-56026
	Well: SOMBRERO STATE COM #222H

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well.	3/10/2026

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

Form APD Conditions

Permit 410039

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Coterra Energy Operating Co. [215099] 6001 Deauville Blvd Midland, TX 79706	30-025-56026
	Well: SOMBRERO STATE COM #222H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	Cement must be in place for at least 8 hours and achieve a minimum compressive strength of 500 psi before performing further operations on the well.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.

1. Geological Formations

TVD of target 9,570
MD at TD 30,265

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1740	N/A	
Top of Salt	2000	N/A	
Base Salt	3098	N/A	
Yates	3256	N/A	
Seven Rivers	3670	N/A	
Queen	4416	N/A	
Cherry Canyon	5706	N/A	
Brushy Canyon	5920	N/A	
Bone Spring	7310	Hydrocarbons	
1st Bone Spring Sand	9098	Hydrocarbons	
2nd Bone Spring Carbonate	9238	Hydrocarbons	
2nd Bone Spring Sand	9282	Hydrocarbons	
2nd Bone Spring Sand - Target	9570	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	1839	1839	13-3/8"	54.50	J-55	ST&C	1.42	3.44	5.13
12 1/4	0	3123	3123	9-5/8"	36.00	J-55	LT&C	1.21	2.10	4.03
8 1/2	0	9134	9134	7"	29.00	P-110	BT&C	2.00	2.62	4.85
8 1/2	9134	30265	9570	5-1/2"	20.00	P-110	BT&C	2.48	2.76	73.51
					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	891	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	239	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	520	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	183	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	324	10.30	3.64	22.18		Lead: Tuned Light + LCM
	5587	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	61
Production	2923	25

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 1839'	Fresh Water	7.83 - 8.33	28	N/C
1839' to 3123'	Brine Water	9.80 - 10.30	30-32	N/C
3123' to 30265'	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	4478 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.

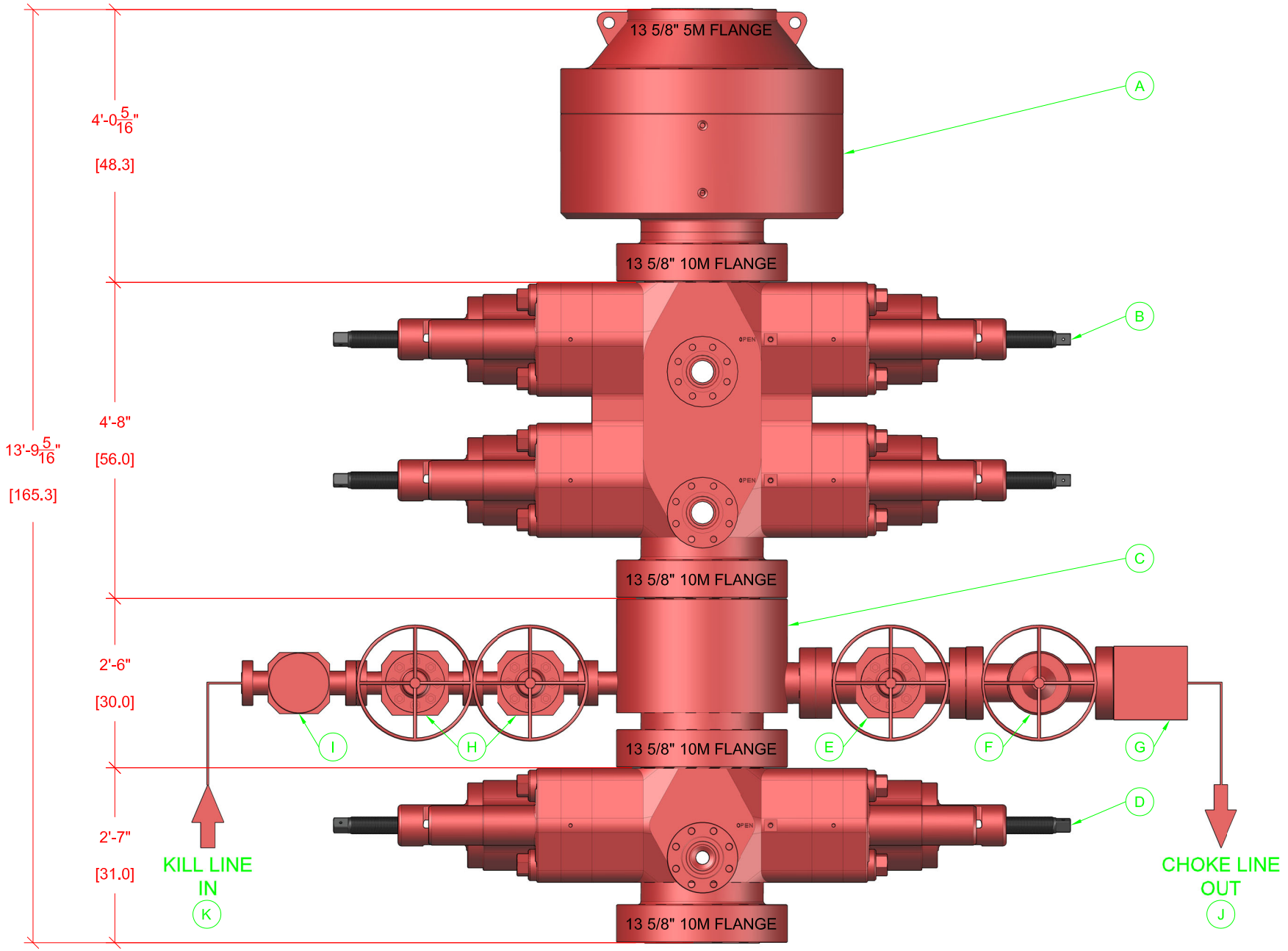
3. A remote kill line is included in the BOPE system

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.

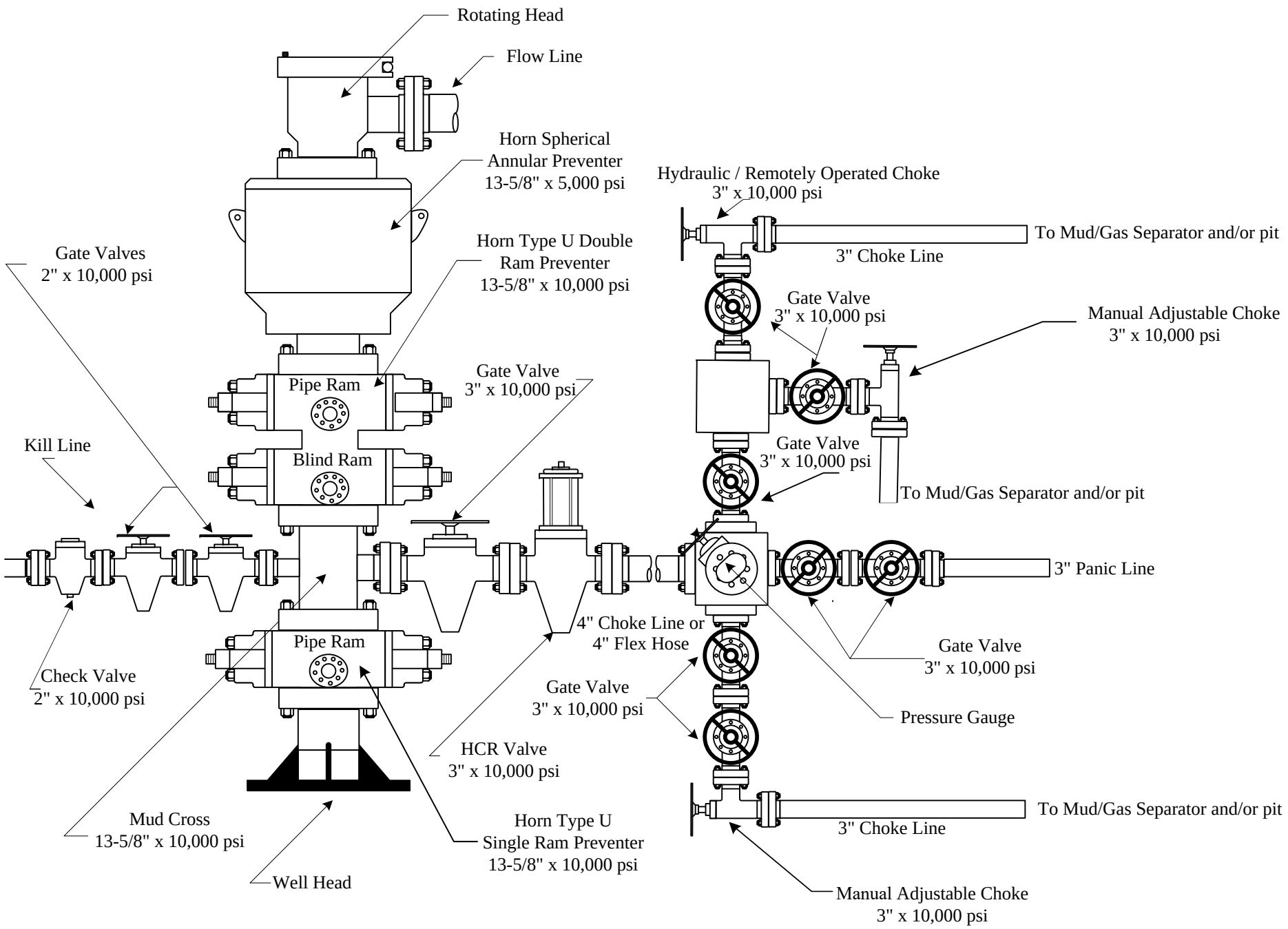


BOP EQUIPMENT INFORMATION

ITEM	DESCRIPTION	MODEL	QTY
A	ANNULAR BOP	13 5/8" 5M	1
B	DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1
C	MUD CROSS	13 5/8" 10M	1
D	SINGLE RAM BOP	13 5/8" 10M TYPE-U	1
E	GATE VALVE	4 1/16" 10M FC MANUAL	1
F	HCR VALVE	4 1/16" 10M HCR	1

ITEM	DESCRIPTION	MODEL	QTY
G	STUDDED BLOCK	4 1/16" 10M	1
H	GATE VALE	2 1/16" 10M FC MANUAL	2
I	CHECK VALVE	2 1/16" 10M	1
J	CHOKE HOSE	4 1/16" 10M	1
K	KILL HOSE	2 1/16" 10M	1
L			

COTERRA



AustinHOSE

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: LT2024-156-001

Customer Name			
Product Name	Choke And Kill Hose		
Product Specification	3″×10000psi×35ft（10.67m）	Quantity	1PCS
Serial Number	VTC-7660257	FSL	FSL3
customer number	PO890145-001	Standard	API Spec 16C 3rd edition
Temperature Range	-29℃～+121℃	Inspection date	2024.09.03

Inspection Items	Inspection results
Appearance Checking	In accordance with API Spec 16C 3rd edition
Size and Lengths	In accordance with API Spec 16C 3rd edition
Dimensions and Tolerances	In accordance with API Spec 16C 3rd edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 6A 21st edition
End Connections: 4-1/16″×10000psi Integral flange for sour gas service	In accordance with API Spec 17D 3rd edition
Hydrostatic Testing	In accordance with API Spec 16C 3rd edition
product Marking	In accordance with API Spec 16C 3rd edition
Inspection conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition
Remarks	16C-0403

Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

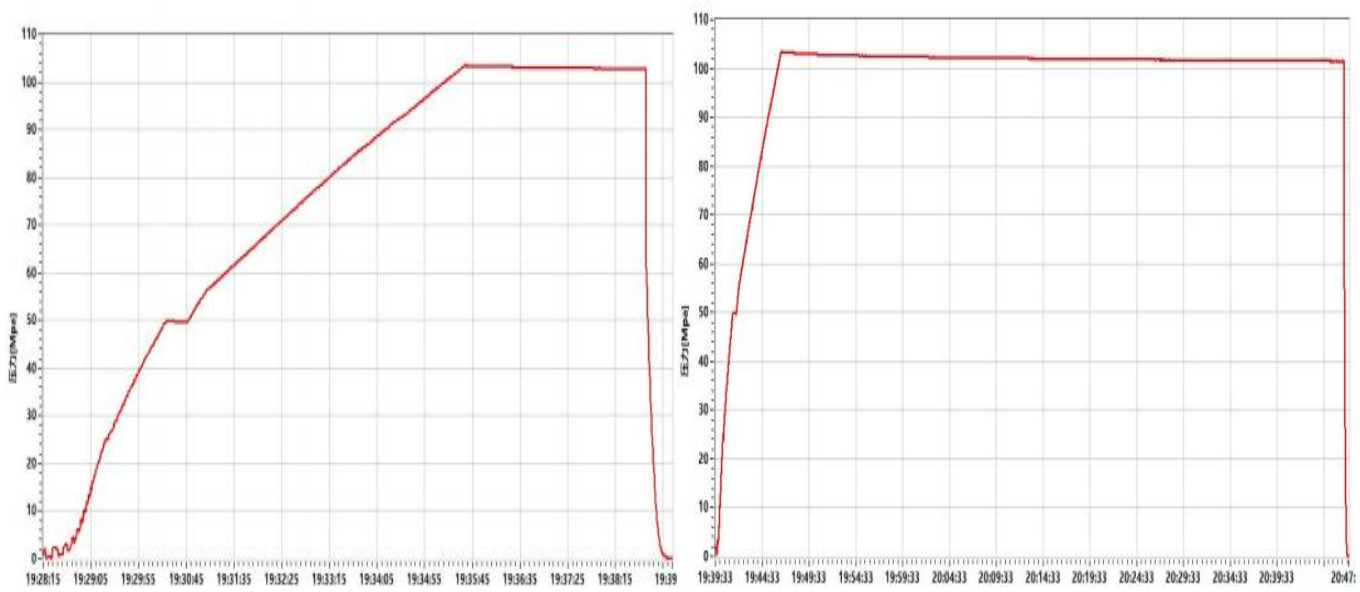
AustinHOSE

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 24090301

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd edition
Product Specification	3″×10000psi×35ft（10.67m）	Serial Number	VTC-7660257
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
customer number	PO890145-001	Inspection Date	2024.08.30
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.6%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leakage.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		

Graph of pressure testing：



Conclusion	The inspected items meet standard requirements of API Spec 16C 3rd edition 16C-0403				
Approver	Jane C	Auditor	Alice D	Inspector	Leo W

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD LETONE

AustinHOSE

CERTIFICATE OF CONFORMANCE

№:LT24090307

Product Name：Choke And Kill Hose

Product Specification：3″×10000psi×35ft（10.67m）

Serial Number：VTC-7660257

customer number：PO890145-001

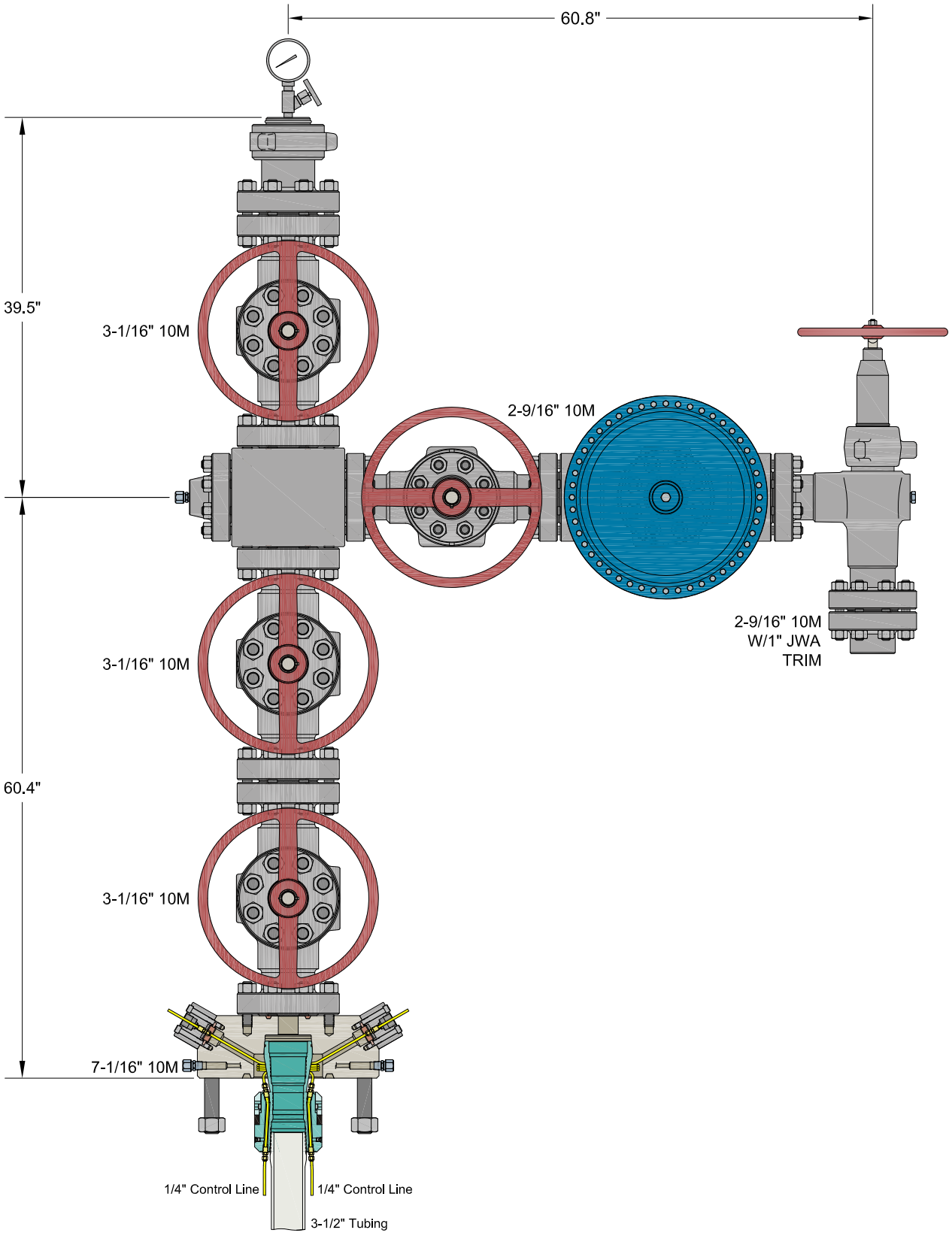
End Connections: 4-1/16″×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD.in Sep,2024, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Sep 3, 2024. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager： Jane C Date:Sep 3, 2024

16C-0403

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD	LETONE



ALL DIMENSIONS APPROXIMATE

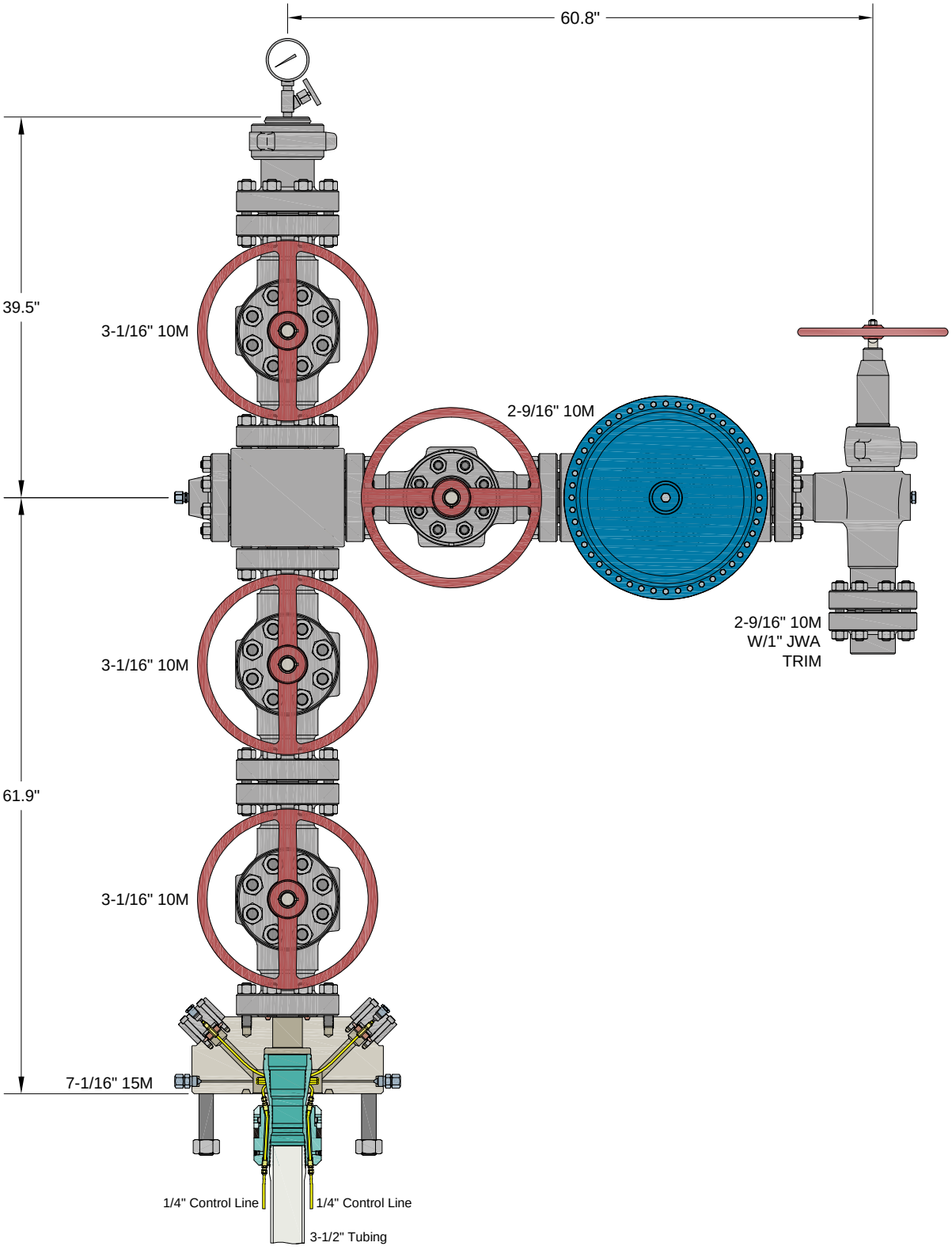
CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

7-1/16" 10M x 3-1/16" x 2-9/16" 10M Production Tree Assembly
With 7-1/16" 10M x 3-1/16" 10M T40-CCL Tubing Head Adapter
And 7-1/16" 3-1/2" T40-CCL Tubing Hanger

DRAWN	VJK	05SEP23
APPRV		

DRAWING NO. HBE0001018



ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM	
7-1/16" 15M x 3-1/16" x 2-9/16" 10M Production Tree Assembly With 7-1/16" 15M x 3-1/16" 10M T40-CCL Tubing Head Adapter And 7-1/16" 3-1/2" T40-CCL Tubing Hanger	DRAWN	VJK 13DEC23
	APPRV	
	DRAWING NO.	HBE0001018

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

Bill To: 7050

CIMAREX
ATTN: DAVID SHAW
202 S CHEYENNE AVENUE SUITE 1000
TULSA OK 74103
US

Ship To: 1016

2023 PRICING REVIEW
202 S Cheyenne Ave Ste 1000
Tulsa OK 74103-3001
US

	Quantity	Price	Ext Price

CIMAREX

HOBBS, NM

PRODUCTION TREE ASSEMBLY
7-1/16" 10M X 3-1/16" 10M X 2-9/16" 10M
OPTIONAL 15M ADAPTER

QUOTATION SUMMARY:

- PRODUCTION TREE ASSEMBLY - $49,338.02

CACTUS CONTACT:
RILEY STAFFORD / MIKE SPINKS
OFFICE: 405.708.7217 (RILEY) / 713.396.5762 (MIKE)
MOBILE: 405.445.2222 (RILEY) / 832.691.7724 (MIKE)
EMAIL: riley.stafford@cactuswellhead.com / mike.spinks@cactuswellhead.com

DUE TO VOLATILITY IN THE STEEL MARKET, PRICING FOR ITEMS MADE FROM NICKEL ALLOYS (EX. 410SS, 17-4PHSS, INCONEL, ETC.) WILL BE VALID FOR TWO WEEKS. CW WILL REVIEW AND ADJUST, IF NECESSARY, AT ORDER PLACEMENT.

PREMIUM THREADED CASING HANGERS/RUNNING TOOLS & CUSTOMER SPECIFIC EQUIPMENT ARE NON-CANCELABLE AND MAY REQUIRE A PURCHASE ORDER (PO) PRIOR TO MANUFACTURING.

SUPPLY CHAIN PRICING IS BASED UPON A 135 DAY DELIVERY ARO. EXPEDITED PRICING CAN BE PROVIDED UPON REQUEST. PRICES ARE F.O.B. CACTUS BOSSIER CITY, LA. THE FOLLOWING QUOTATION DOES NOT INCLUDE APPLICABLE MILEAGE AND SERVICE CHARGES THAT MAY BE CHARGED AT TIME OF INVOICING.

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

		Quantity	Price	Ext Price
	PRODUCTION TREE ASSEMBLY			
1	124314P2	1.00	4,830.00	4,830.00
	ADPT,TBGHD,CW,T40-CCL,7-1/16 10M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 LP INLETS,10000 PSI MAX WP,TEMP PU,MATL EE,PSL2,PR2			
2	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
3	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
4	128365	1.00	2,650.00	2,650.00
	CRSS,STD,AOZE,3-1/16 10M X 2-9/16 10M,6A-LU-EE-3			
5	120242MV	1.00	4,343.00	4,343.00
	VLV,CW,SB100,3-1/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL3 PR1) QPQ TRIM, API 6A PR1 SECTION 10.5.2 (BORE VENT HOLE)			
6	142800	1.00	1,270.00	1,270.00
	TREECAP,NEWAY,BHTA,B15A,3-1/16 10M X 3-1/2 EU ILT,W/1/2 NPT & 3.06 MIN BORE,MONOGRAMMED,TEMP PU,MATL EE,PSL2			
7	BX154	5.00	10.44	52.20
	RING GASKET,BX154,3-1/16 10/15/20M			
8	780077-20E1	16.00	19.83	317.28
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,1-8UNC X 7,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING			
9	132879	1.00	495.00	495.00
	FLG,BLIND,AOZE,3-1/16 10M X 1/2 NPT,W/HUB,TEMP LU,MATL EE,PSL3			
10	100048	1.00	59.74	59.74
	FTG,GRS,VENTED CAP,1/2 NPT,4140 -50F W/ELECTROLESS NICKEL COATING NACE,K-MONEL BALL,INCONEL X-750 SPRING			
11	115900MV	1.00	3,285.00	3,285.00
	VLV,CW,SB100,2-9/16 10M FE BB/EE-0,5 (API 6A LU BB/EE-0,5 PSL2 PR2) QPQ TRIM, API 6A PR2 ANNEX F (BORE VENT HOLE)			
12	128567	1.00	8,292.00	8,292.00
	VLV/ACT,OMNI,FS-R,2-9/16 10M FE EE HF C/W MODEL DX-18 DIAPHRAGM PNEUMATIC ACTUATOR, FORGED BODY, REVERSE ACTING SLAB GATE, FLOATING SEATS & DIRECTIONAL FLOW BODY BUSHING (FLOW FROM RIGHT TO LEFT): MAT'L CLASS EE, HARDFACE TRIM, TEMP PU (-20 TO 250 F), PSL-2, PR-2; ACTUATOR: MATERIAL CLASS BB, TEMP P (-20F TO 180F) PR-2 (FC TYPE) W/MANUAL OVERRIDE,ACTUATOR REQUIRES 112 PSI TO OPEN AT FULL 10,000 PSI			
13	130652	1.00	7,500.00	7,500.00
	CHOKE,ADJ,HOE,H2,2-9/16 10M FE X FE ALLOY BDY,3" NOMINAL,W/ 2" SSTC TRIM,H2S SERVICE,API MONOGRAMMED,PSL-2 PR-2 TEMP-PU MATL-EE-1.5			
14	120734	1.00	399.00	399.00
	FLG,COMP,AOZE,2-9/16 10M X 2-7/8 EU,5000 PSI MAX WP,TEMP LU,PSL3,PR1			

Cactus

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Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

			Quantity	Price	Ext Price
15	BX153		5.00	11.54	57.70
	RING GASKET,BX153,2-9/16 10/15/20M				
16	780067-20E1		24.00	14.70	352.80
	STUD,ALL-THD W/2 HVY HEX NUTS,BLK,7/8-9UNC X 6-1/2,API 20E BSL-1 ASTM A193 GR B7 ALL THREAD STUD W/2 API 20E BSL-1 ASTM A194 GR 2H HEAVY HEX NUTS,NO PLATING				
17	135166		1.00	4,490.00	4,490.00
	TBGHGR,CW,T40-CCL,7-1/16 X 3-1/2 EU API MOD BOX BTM X 3-1/2 EU BOX TOP,W/3 HBPV THD,W/ TWO 1/4 CCL & DOVETAIL SEAL,CF 124316P2,10000 PSI MAX WP,17-4PH SS,TEMP PU,MATL FF-0,5,PSL2,PR2				
18	BX156		1.00	62.48	62.48
	RING GASKET,BX156,7-1/16 10/15/20M				
19	NVS		1.00	61.16	61.16
	NEEDLE VALVE,MFS,1/2 NPT MXF,10M PSI WP,CARBON STEEL BODY, 304/316SS STEM, TFE PACKING (NON-NACE)				
20	PG10M		1.00	58.24	58.24
	PRESSURE GAUGE,10M,4-1/2 FACE, LIQUID FILLED,1/2 NPT				
21	PRO	Prorata Freight	0.75	2,768.56	2,076.42
					49,338.02

OPTIONAL 15M ADAPTER

22	124999P2		0.00	7,423.00	0.00
	ADPT,TBGHD,CW,T40-CCL,7-1/16 15M STD X 3-1/16 10M STD,W/TWO #14 DHCV W/1/4 NPT INLET,10000 PSI MAX WP,TEMP PU,MAT'L EE,PSL2,PR2				
					0.00

For Acceptance of this Quotation
Please Contact Ph: 713-626-8800
sales@cactuswellhead.com

Matl:	47,261.60
Labor:	0.00
Misc:	2,076.42
Sales Tax:	0.00
Total:	49,338.02

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

CACTUS WELLHEAD, LLC PURCHASE TERMS AND CONDITIONS

1. **ACCEPTANCE**: Acceptance of Cactus Wellhead, LLC (herein: Company) Purchase Terms and Conditions (herein: CACTUS Purchase Terms) shall be deemed effective upon shipment of the Products and/or rendering of Services which are the subject of an order by Customer (defined as the party purchasing CACTUS Products and or Services referred on the invoice). Any proposal made by Customer for additional or different terms and conditions or any attempt by Customer to vary in any degree any of the terms and conditions of CACTUS Purchase Terms is hereby rejected.

2. **PRICING**. Each Product and Service shall be invoiced at (and Customer shall pay) the respective price shown on the reverse side hereof, or if no price is shown on the reverse side hereof, at the price shown in the current price list of Company. In addition, Customer shall pay any and all additional charges for mileage, transportation, freight, packing and other related charges, as well as any federal, state or local tax, excise, or charge applicable on the sale, transportation, or use of Products and Services, unless otherwise specified.

3. **TERMS OF PAYMENT**. Customer agrees to pay Company any and all payments due on or before thirty (30) days from invoice date at the designated address of Company. Amounts unpaid after such thirty (30) day period shall bear interest at the lesser of (i) one and one-half percent (1½%) per month or (ii) the maximum rate allowed by law. Customer shall also pay any and all of Company's attorney's fees and court costs if any amounts hereunder are collected by an attorney or through legal proceedings. Company reserves the right, among other remedies, either to terminate this agreement or to suspend further deliveries upon failure of Customer to make any payment as provided herein.

4. **LIMITED WARRANTY**. COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS FOR PURPOSE, DESCRIPTION, QUALITY, PRODUCTIVENESS, ACCURACY OR ANY OTHER MATTER WITH RESPECT TO PRODUCTS OR SERVICES, ALL SUCH WARRANTIES BEING HEREBY SPECIFICALLY AND EXPRESSLY DISCLAIMED BY COMPANY. COMPANY MAY OFFER TECHNICAL ADVICE OR ASSISTANCE WITH REGARD TO THE PRODUCTS AND SERVICES BASED ON LABORATORY AND/OR FIELD EXPERIENCE AND CUSTOMER UNDERSTANDS AND AGREES THAT SUCH ADVICE REPRESENTS ONLY GOOD FAITH OPINIONS AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE SOLE AND EXPRESS WARRANTY PROVIDED BY COMPANY IS TO WARRANT THAT THE PRODUCTS SOLD AS LISTED ON THE REVERSE SIDE HEREOF COMPLY WITH COMPANY'S SOLE SPECIFICATION AT THE DATE AND TIME OF MANUFACTURE. COMPANY MAKES NO WARRANTY THAT SUCH PRODUCTS SHALL MEET SUCH SPECIFICATION AT ANY TIME AFTER SHIPMENT OF PRODUCTS. USE OF SUCH PRODUCTS IS SPECIFICALLY NOT WARRANTED.

5. **REMEDY**. The exclusive remedy for this warranty for Products shall be limited to, in Company's sole discretion and judgment, the replacement of defective part(s), F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer), or repair of defective part(s). . The exclusive remedy for this warranty for Services shall be limited to the repeat of Services performed F.O.B. Company's plant (transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Customer). Any such repeat of Services or replacement or repair of Products shall not include any materials not sold by Company hereunder, and specifically excludes any obligation by Company related to other property of the Customer or any property of third parties. Provided, however, Company may in its sole discretion, decide to instead give Customer credit memorandum for the amounts already paid by Customer to Company for such Product or Service. IN ANY EVENT AND NOTWITHSTANDING THE LANGUAGE TO THE CONTRARY HEREIN, CUSTOMER ACKNOWLEDGES THAT ANY CLAIM IT MAY HAVE ARISING OUT OF OR IN CONNECTION WITH ANY ORIGINAL PRODUCTS AND SERVICES, ANY REPLACEMENT PRODUCTS OR REPEAT OF SERVICES AND THESE CACTUS PURCHASE TERMS SHALL BE LIMITED TO AND NOT EXCEED THE AMOUNT CUSTOMER HAS ACTUALLY PAID TO COMPANY FOR SUCH PRODUCTS AND/OR SERVICES PURSUANT HERETO. If Customer fails to make any such claim within thirty (30) days after completion of Service or delivery of Products, Customer hereby waives (to the extent permitted by applicable law) any and all claims it may or does have with respect to such Products and Services. Unless Customer is an authorized reseller of Company, Company's liability in connection with Products and Services shall extend only to Customer. CUSTOMER HEREBY INDEMNIFIES AND HOLDS COMPANY (AND ITS AGENTS, REPRESENTATIVES, OFFICERS DIRECTORS AND EMPLOYEES) HARMLESS FOR ANY LOSS, EXPENSE OR DAMAGE (WHETHER OF CUSTOMER OR OF ANY THIRD PARTY) ARISING FROM OR IN CONNECTION WITH PRODUCTS AND SERVICES, INCLUDING WITHOUT LIMITATION ANY FAILURE OF SUCH PRODUCTS AND SERVICES TO CONFORM TO CUSTOMER'S ORDER OR SPECIFICATION OR ANY OTHER STANDARD, OR ANY NEGLIGENCE OR BREACH OF WARRANTY BY COMPANY WITH RESPECT TO ANYTHING DONE OR FAILED TO HAVE BEEN DONE BY COMPANY, IF AND TO THE EXTENT THAT SUCH LOSS, EXPENSE OR DAMAGE EXCEEDS THE AMOUNT CUSTOMER HAS ACTUALLY PAID COMPANY PURSUANT HERETO FOR SUCH PRODUCTS OR SERVICES.

6. **INSPECTION**. The results of any inspection or testing reported by the Company to Customer represents only good faith opinions and are not to be construed as warranties or guarantees of the quality, classification, merchantability, fitness for purpose, condition, or liability of any equipment or material that has been inspected or tested by the Company.

7. **INSURANCE**. Each party agrees to maintain comprehensive general liability insurance in the amount of $1,000,000 each occurrence, $2,000,000 general aggregate, and Workers Compensation insurance per statutory requirements providing coverage for the indemnity obligations in this agreement. The Company (and such of its affiliates as it shall designate) including their officers, directors, members, shareholders, partners, joint ventures, employees, agents and representatives shall be named as additional insureds under the policies of Customer on a primary basis to the extent of its indemnification obligations set forth in these CACTUS Purchase Terms, and the policies shall also provide a waiver of subrogation rights in favor of the Company (and such of its affiliates as it shall designate) and their officers, directors, members, shareholders, employees, agents and representatives. The provisions of this Section 7 shall apply and the obligation to maintain insurance of each party in the coverages and amounts set forth herein shall remain in force regardless and independent of the validity or enforceability of the indemnity provisions of Section 8, below; the obligation to obtain insurance is a separate and independent obligation. If the insurance required herein is more or less than allowed by prevailing law, the indemnity obligations in Section 8 below shall be effective only to the maximum extent permitted under applicable law.

8. **INDEMNIFICATION**. The following indemnifications and releases of liability will apply to any Products or Services provided under this contract. COMPANY AND CUSTOMER EXPRESSLY AGREE THAT, TO THE EXTENT REQUIRED BY APPLICABLE LAW TO BE EFFECTIVE, THE INDEMNITIES AND DISCLAIMERS OF WARRANTIES CONTAINED HEREIN ARE "CONSPICUOUS."

A. **Customer Indemnity Obligations**. Customer hereby releases Company from any liability for, and shall protect, defend, indemnify, and hold harmless Company, its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, insurers, and consultants (specifically excluding any member of Customer Group) of all of the foregoing, and its and their respective successors, heirs and assigns ("Company Group") from and against all costs (including the payment of reasonable attorneys' fees), losses, liabilities, demands, causes of action, damages, or claims of every type and character ("Claims"), arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of Customer its parents, affiliates, subsidiaries, partners, joint owners, joint ventures, and its contractors and subcontractors of any tier, and the officers, directors, agents, representatives, employees, customers, insurers, invitees and consultants of all of the foregoing, and its and their respective successors, heirs and assigns ("Customer Group"), or (ii) loss of or damage to any property of any member of Customer Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.

B. **Company Indemnity Obligations**. Company hereby releases Customer from any liability for, and shall protect, defend, indemnify, and hold harmless Customer from and against all Claims arising out of or resulting from or related, directly or indirectly, to (i) injury to, illness or death of any member of Company Group, or (ii) loss of or damage to any property of any member of Company Group, REGARDLESS OF THE CAUSE OF SUCH CLAIMS, INCLUDING THE NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF CUSTOMER GROUP, BUT NOT IN THE CASE OF GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ANY MEMBER OF COMPANY GROUP.

C. **Third Party Claims**. Notwithstanding the foregoing, to the extent of its negligence, Company and Customer shall each indemnify, defend and hold harmless from and against all Claims, of every type and character, which are asserted by third parties for bodily injury, death or loss or destruction of property or interests in property in any manner caused by, directly or indirectly resulting from, incident to, connected with or arising out of the work to be performed, Services to be rendered or Products or materials furnished to Customer. When personal injury, death or loss of or damage to property is the result of joint or concurrent negligence of Customer and Company, the indemnitor's duty of indemnification shall be in proportion to its allocable share of such negligence.

D. **Pollution**. Company agrees that it shall be totally responsible for, and shall protect, defend and indemnify, Customer for all losses, damages, claims, demands, costs, charges, and other expenses, including attorneys' fees, for any and all waste and/or hazardous substances which are in Company Group's exclusive possession and control and directly associated with Company Group's equipment and facilities, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF CUSTOMER GROUP. Customer shall assume all responsibility for, including control and removal of, and shall protect, defend and indemnify Company Group from and against all Claims arising directly or indirectly from all other pollution or contamination which may occur during the conduct of operations hereunder, including, but not limited to, that which may result from fire, blowout, cratering, seepage or any other uncontrolled flow of oil, gas, water or other substance, EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED BY OR CONTRIBUTED TO BY THE NEGLIGENCE OF COMPANY GROUP.

E. **Wild Well**. Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group for any damages, expenses, losses, fines, penalties, costs, expert fees and attorneys' fees arising out of a fire, blow out, cratering, seepage or wild well, including regaining control thereof, debris removal and property restoration and remediation. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.

F. **Underground Damage**. Customer shall release Company Group of any liability for, and shall protect, defend and indemnify Company Group from and against any and all claims, liability and expenses resulting from operations related to the work under this agreement on account of injury to, destruction of, or loss or impairment of any property right in or to oil, gas or other mineral substance or water, if at the time of the act or omission causing such injury, destruction, loss or impairment said substance and not been reduced to physical possession above the surface of the earth, and for any loss or damage to any formation, strata, or reservoir beneath the surface of the earth. THIS INDEMNITY APPLIES EVEN IF THE LOSSES, DAMAGES, CLAIMS, DEMANDS, COSTS, FEES, AND EXPENSES ARE CAUSED NEGLIGENCE (WHETHER SOLE, JOINT OR CONCURRENT, ACTIVE OR PASSIVE, ORDINARY OR GROSS) STRICT LIABILITY, OR ANY OTHER LEGAL FAULT OR RESPONSIBILITY OF ANY MEMBER OF COMPANY GROUP.

G. The foregoing indemnities set forth in these CACTUS Purchase Terms are intended to be enforceable against the parties hereto in accordance with the express terms and scope hereof notwithstanding Texas' Express Negligence Rule or any similar directive that would prohibit or otherwise limit indemnities because of the negligence (whether sole, concurrent, active or passive, ordinary or gross) or other fault or strict liability of Company or Customer.

H. If a claim is asserted against one of the parties to this agreement which may give rise to a claim for indemnity against the other party hereto, the party against whom the claim is first asserted must notify the potential indemnitor in writing and give the potential indemnitor the right to defend or assist in the defense of the claim.

9. **RISK OF LOSS**.

A. Title and risk of loss shall pass to Customer upon delivery as specified in Article 11. Customer's receipt of any material delivered hereunder shall be an unqualified acceptance of, and a waiver by Customer of any and all claims with respect to, such material unless Customer gives Company written notice of claim within thirty (30) days after such receipt. Notwithstanding the foregoing, installation or use of materials or equipment shall unequivocally constitute irrevocable acceptance of said materials. Customer assumes all risk and liability for the results obtained by the use of any material or Products delivered hereunder in work performed by on behalf of Customer or in combination with other or substances. No claim of any kind, whether as to material delivered or for non-delivery of material, and whether or not based on negligence, shall be greater in amount than the purchase price of the

Cactus

Quotation

Hobbs, NM
4120 W Carlsbad Hwy
Hobbs NM 88240
Phone: 817-682-8336

Quote Number : HBE0001018

Date: 09/08/2023

Valid For 30 Days

material in respect of which such claim is made.

B. For Services, Company shall not be liable for loss or deterioration of any equipment and material of Customer under Company's control or stored on Company's premises after Company has completed its work if such loss or deterioration results from atmospheric condition, Act of God or other occurrence not within the reasonable control of Company.

10. **TERMINATION**. Company reserves the right to terminate the order at issue, or any part hereof, solely for its convenience at any time without cause with notice to Customer. Company shall have the right to cancel any unfilled order without notice to Customer in the event that Customer becomes insolvent, adjudicated bankrupt, petitions for or consents to any relief under any bankruptcy reorganization statute, violates a term of these CACTUS Purchase Terms, or is unable to meet its financial obligations in the normal course of business. In the event of such termination, Company shall immediately stop all work hereunder. Prior to delivery, Customer may terminate this order without cause upon thirty (30) day notice in writing to Company. In the event of such termination, Company at its sole option shall cease work up to thirty (30) days after such notice. Upon the cessation of work, Customer agrees to pay Company a reasonable termination charge consisting of a percentage of the Invoice price, such percentage to reflect the value of the Products, Services or work in progress completed upon the cessation of work. Customer shall also pay promptly to Company any costs incurred due to paying and settling claims of Company's vendors or subcontractors arising out of the termination of the order by Customer.

11. **DELIVERY**. Unless different terms are provided on the face of this order, all items are sold FOB Company's manufacturing facility in Bossier City, LA., and Customer shall bear the cost of transportation to any other named destination. Upon notification of Company of delivery, Customer shall become liable and shall bear all risk of loss associated with the Products at issues regardless of whether the Products are at a location controlled by Company and whether or not caused by the negligence of Company. In the case of Customer pick-up, the truck furnished by Customer is the destination and Company's obligations regarding shipments are fulfilled when the Products are loaded on the truck. Items to be shipped to any other destination outside of the United States are sold FOB port of shipment (Customer will deliver and bear the cost of transportation to the named port and will bear the cost of transportation thereafter to the final destination). The means of shipment and carrier to the point at which Company's liability for transportation costs ceases shall be chosen by Company. Excess packing, marking, shipping, and transportation charges resulting from compliance with Customer's request shall be for Customer's account. Unless otherwise agreed in writing, delivery time is not of the essence.

12. **RETURNS/REFUND**. Within ninety (90) days of delivery, Customer has the option to return any non-defective Products (any Products found to be defective will be subject to the warranty and remedies expressed in paragraphs four (4) and five (5) above). Customer shall bear all costs of shipment and/or transportation for such return and risk of loss for the returned Products shall remain with Customer until re-delivered to Company's Yard. Customer shall receive a full refund for any returns, less a twenty percent (20%) restocking fee. Company at all times reserves the right to designate certain Products as non-refundable in Company's Sales Quote or Sales Order. In addition, any made-to-order , special order, and/or Product manufactured to Customer specifications are NOT returnable.

13. **DELAYS**. If a specific shipping date is either not given or is estimated only, and is not promised on the face of this order or in a separate writing signed by Company, Company will not be responsible for delays in filling this order nor liable for any loss or damages resulting from such delays. If a specific shipping date is promised, Company will not be liable for delays resulting from causes beyond Company's control, including without limitation accidents to machinery, fire, flood, act of God or other casualty, vendor delays, labor disputes, labor shortages, lack of transportation facilities, priorities required by, requested by, or granted for the benefit of any governmental agency, or restrictions imposed by law or governmental regulation.

14. **LIMITATION OF DAMAGES**. Notwithstanding any other provision contained herein, Company shall not be liable to Customer Group or any third party for consequential (whether direct or indirect damages), indirect, incidental, special or punitive damages, howsoever arising, including, but not limited to loss of profits (whether direct or indirect damages), revenues, production or business opportunities, WHETHER OR NOT SUCH LOSSES ARE THE RESULT IN WHOLE OR IN PART FROM THE NEGLIGENCE (WHETHER SOLE, JOINT, CONCURRENT OR COMPARATIVE, ACTIVE OR PASSIVE, ORDINARY OR GROSS) OF COMPANY GROUP, OR ANY DEFECT IN THE PREMISES, PRE-EXISTING CONDITIONS, PATENT OR LATENT, BREACH OF STATUTORY DUTY, STRICT LIABILITY OR ANY OTHER THEORY OF LEGAL LIABILITY OF COMPANY GROUP (EXCLUDING ONLY LOSSES CAUSED BY THE WILLFUL MISCONDUCT OF COMPANY GROUP).

15. **SECURITY INTEREST**. Customer grants Company, and Company reserves, a security interest, covering all Customer's obligations under these terms (including any liability for breach of Customer's obligations), and applying to all of Customer's right, title, and interest in the Leased Equipment, together with all accessions thereto and any proceeds that may arise in connection with the sale or disposition thereof. Customer shall cooperate with Company in the filing of Financing Statements to perfect such security interest. Furthermore, Customer authorizes Company to execute and file Financing Statements without Customer's signature in any jurisdiction in which such procedure is authorized. Customer warrants, covenants and agrees that it will not, without prior written consent of Company, sell, contract to sell, lease, encumber, or dispose of the Leased Equipment or any interest in it until all obligations secured by this security interest have been fully satisfied.

16. **PATENT AND INTELLECTUAL PROPERTY**. The sale of any Products hereunder does not convey any intellectual property license by implication, estoppel or otherwise regarding the Products. Company retains the copyright in all documents, catalogs and plans supplied to Customer pursuant to or ancillary to the contract. Unless otherwise agreed in writing, Customer shall obtain no intellectual property interest in any Company Product.

17. **TAXES**. Unless otherwise specifically provided for herein, Customer shall be liable for all federal, state, or local taxes or import duties assessed by any governmental entity of any jurisdiction in connection with the Products or Services furnished hereunder.

18. **DECEPTIVE TRADE PRACTICES**. Customer acknowledges the application of Section 17.45(4) of the Texas Deceptive Trade Practices Act (Texas Business Commission Code §17.41 et. seq.) (the "Act") to any transaction contemplated hereby and represents that it is not a "consumer" for the purposes of the Act.

19. **NO WAIVER**. Failure to enforce any or all of the provisions in these CACTUS Purchase Terms in any particular instance shall not constitute or be deemed to constitute a waiver of or preclude subsequent enforcement of the same provision or any other provision of these CACTUS Purchase Terms. Should any provision of these CACTUS Purchase Terms be declared invalid or unenforceable all other provisions of these CACTUS Purchase Terms shall remain in full force and effect.

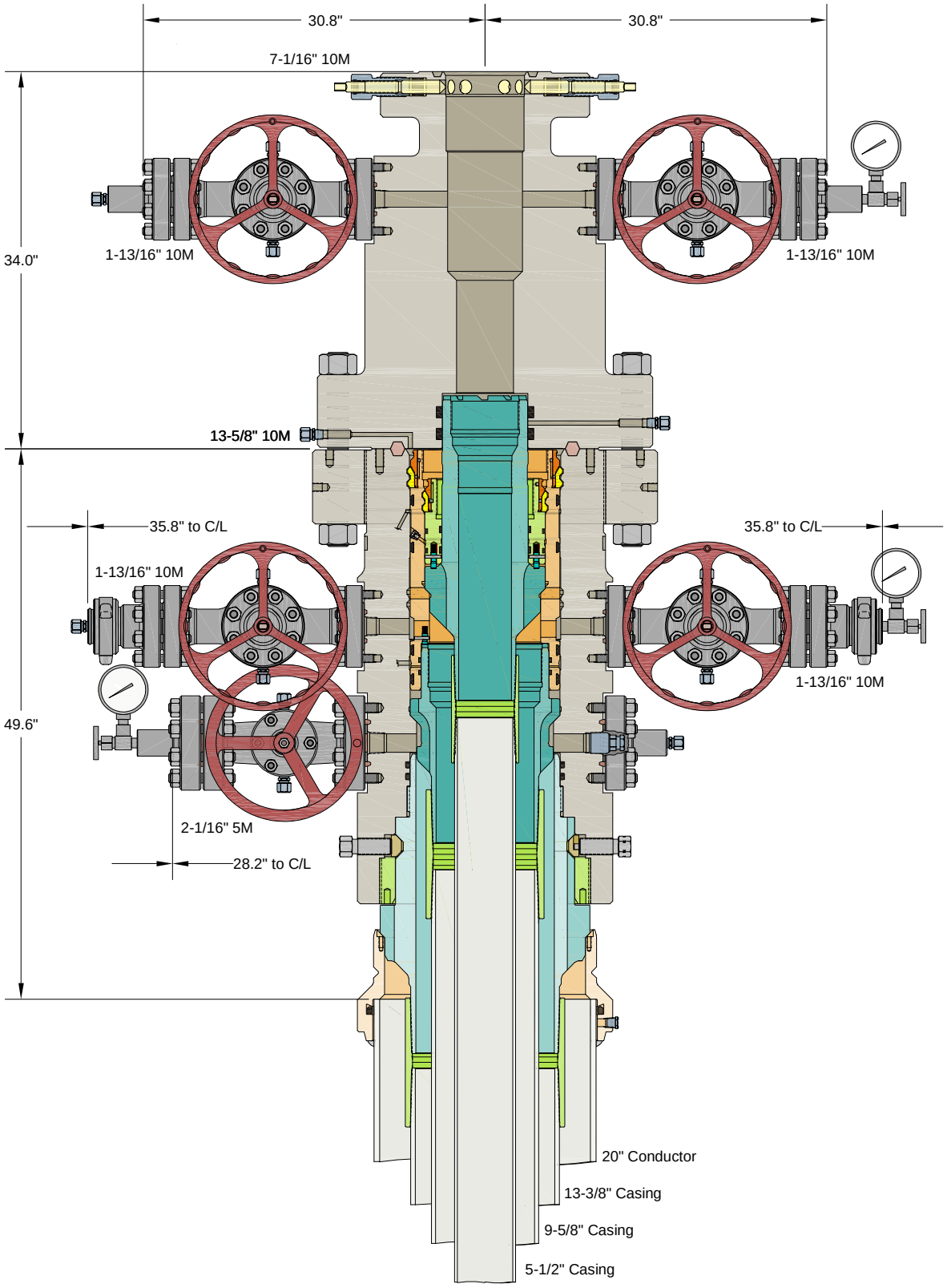
20. **CHOICE OF LAW**. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND SHALL BE PERFORMABLE IN HARRIS COUNTY, TEXAS. WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPALS AND WAIVER OF SAME, EACH PARTY HERETO SUBMITS TO THE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS IN HARRIS COUNTY, TEXAS AND THE FEDERAL COURTS IN AND FOR THE SOUTHERN DISTRICT OF TEXAS SITTING IN HOUSTON, TEXAS IN CONNECTION WITH ANY DISPUTE ARISING UNDER THIS AGREEMENT OR ANY DOCUMENT OR INSTRUMENT ENTERED INTO IN CONNECTION HEREWITH.

21. **AUTHORITY**. Customer warrants and represents that the individual receiving this order at issue on behalf of Customer has the authority to enter into these CACTUS Purchase Terms on behalf of Customer, and that upon receipt these CACTUS Purchase Terms shall be binding upon Customer.

22. **FORCE MAJEURE**. If Company is unable to carry out its obligations hereunder by reason of force majeure, then upon Company's giving of notice and reasonably full particulars of such force majeure in writing to Customer, Company's obligations that are affected by force majeure shall be suspended during the continuance of the force majeure and Company shall not be liable to Customer for any damages incurred by the Customer as a result thereof.

23. **CONFIDENTIALITY**. Customer acknowledges the highly secret and valuable nature of all proprietary inventions, methods, processes, designs, know-how, and trade secrets embodied in the Company's equipment, Products and Services and its components (hereinafter referred to as "Confidential Data"). Accordingly, Customer agrees not to disclose or use any Confidential Data. Customer further agrees to take any and all necessary precautions to prevent disclosure of the Confidential Data associated with the Company's equipment, Products and Services and components thereof to persons other than those employees of Customer for whom such disclosure is necessary for performance of the work hereunder.

24. **COMPLIANCE**. Customer expressly agrees to comply with and abide by, all of the laws of the United States and of the State of Texas, including, but not limited to, OSHA, EPA and all rules and regulations now existing or that may be hereafter promulgated under and in accordance with any such law or laws, and hereby agrees to indemnify and hold Company harmless from any and all claims, demands, or damages incurred by Company arising from Customer's failure to comply with all laws and governmental regulations. The indemnities in this paragraph shall be in addition to any other indemnity obligations between Customer and Company, including any other indemnity obligations contained herein.



ALL DIMENSIONS APPROXIMAT

CACTUS WELLHEAD LLC	CIMAREX HOBBS, NM
20" x 13-3/8" x 9-5/8" x 5-1/2" MBU-3T-CFL Wellhead Sys. With 13-5/8" 10M x 7-1/16" 10M CTH-DBLHPS Tubing Head And 9-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWN VJK 01MAY24 APPRV DRAWING NO. HBE0001215

Standard New Mexico Variances

Variance Request #1: Skid Rig after Cementing Surface Casing

Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells. Before skidding the rig, a TA cap is installed on the subject well.

Variance Request #2: Offline Cement Intermediate Casing

Coterra requests approval to execute an offline cement job on the Intermediate casing string. The procedure will include the following:

- Land casing in the wellhead with a solid-body casing hanger
- Install backpressure valve
- Skid rig to next well in drilling sequence
- Check for pressure and remove backpressure valve
- Install cement head and risers from casing valves
- Circulate down casing taking returns through appropriately designed flowback equipment
- Pump lead & tail cement
- Displace cement and land plug
- Verify floats are holding
- Rig down cement crew
- Install backpressure valve and TA cap

Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

Variance Request #5: 10M BOPE & 5M Annular

Coterra requests permission to utilize a 5M annular BOP with a 10M BOP primary system. The 10M BOP system will include upper pipe rams, blind rams, and lower pipe rams, all tested to 10K, 100% of the rated working pressure. The annular element will be tested to 5K, 100% of the

rated working pressure. As noted in the well control plan, if pressure approaches the rated working pressure of the 5K annular element while in use, the upper pipe rams will be closed, and the annular opened so as to not exceed the rated working pressures.

Variance Request #6: Break Testing BOPE

In compliance with API Standard 53, Coterra requests a variance to complete a BOP *break test* following any rig walking operation during the batch drilling sequence of multi-well pads. For this variance, the following stipulations will be met:

1. The first well in the batch drilling sequence for each hole section will be drilled to a depth sufficient to identify any depth-dependent drilling hazards prior to conducting break tests in subsequent wells.
2. On the first well in the drilling sequence, a full BOP test will be completed.
    a. For the full BOP test, the Annular Preventer will be tested to 100% of its rated working pressure.
3. For each break test, the upper pipe rams will serve as the top barrier, and the BOP test plug will serve as the bottom barrier against which the BOP connection will be tested.
4. Each break test will include a choke manifold shell test, conducted as a single test against the adjustable choke to 100% of the BOP system's maximum working pressure.
5. *Break tests* will only be conducted for drilling intervals terminating above the Wolfcamp formation.
6. For any drilling sequence utilizing consecutive *break tests*, no more than 21 days will elapse between full BOP tests.

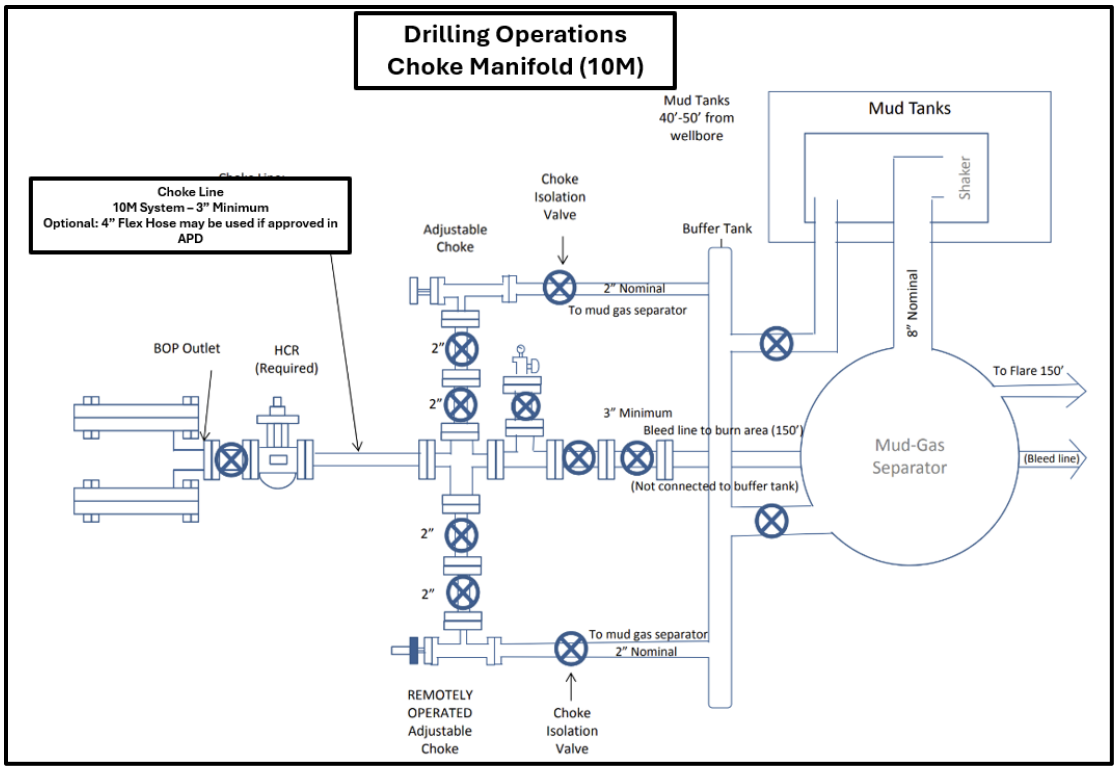


Figure 1: 10M Drilling Choke Manifold

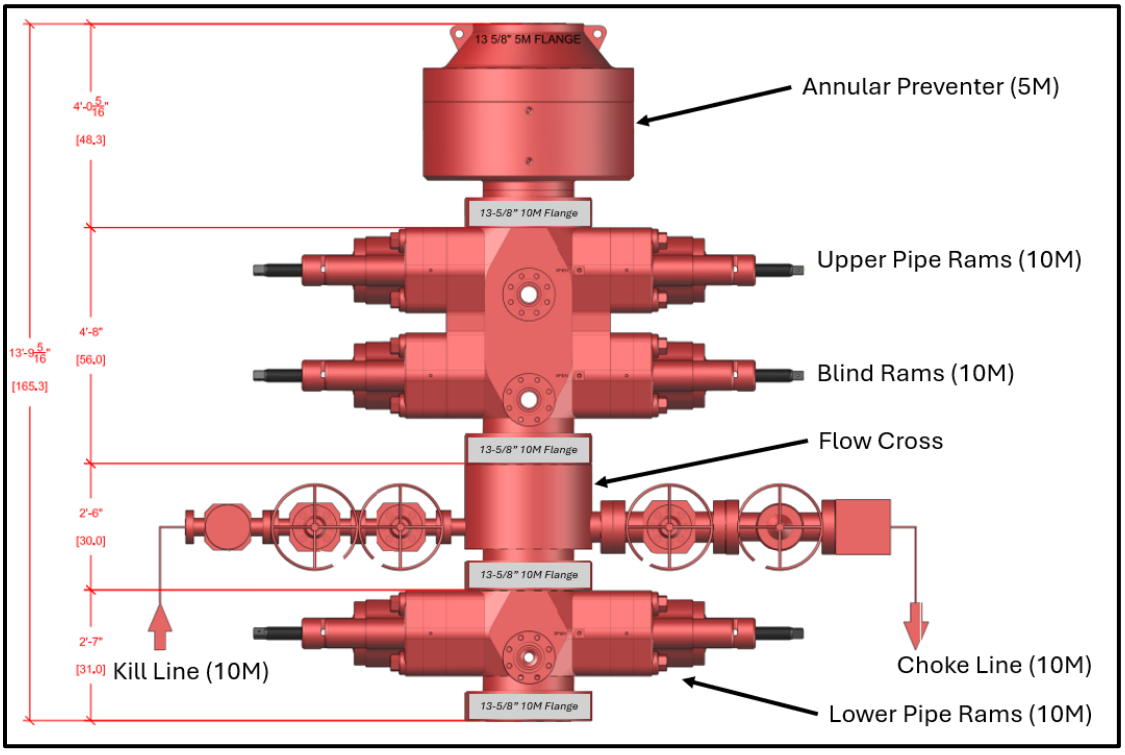


Figure 2: Drilling BOP Configuration

Variance Request #7: Offline Cement Production Casing

Coterra requests approval to execute an offline cement job on the production casing string. The procedure will include the following:

- Land casing in the wellhead with a solid-body casing hanger
- Install backpressure valve
- Skid rig to next well in drilling sequence
- Check for pressure and remove backpressure valve
- Install cement head and risers from casing valves
- Circulate down casing taking returns through appropriately designed flowback equipment
- Pump cement volumes
- Displace cement and land plug
- Verify floats are holding
- Rig down cement crew
- Install backpressure valve and TA cap

Variance Request #8: Offline Testing BOPE

Coterra requests approval to test the BOPE prior to the first installation of BOPE on a wellhead system. In this case, the following procedure will be followed:

- While batch drilling the surface sections of the wells on pad, each BOP element will undergo a full test to 100% working pressure, as defined in the Well Control Plan.
- The BOPE will be tested utilizing a blank 13-5/8” 10M flanged connection below the lower pipe rams
- Once equipment is installed on the first well, the full BOP test will be completed by inserting the test plug in the wellhead and testing the break and any BOP equipment that was not tested prior to installation.

Well Control Plan

Warning Signs of a Kick

If a kick is ever suspected, perform flow check.

While Drilling:

1. Drilling break or increase in penetration rate
2. Increase of flow
3. Pit gain
4. Flow without pumping
5. Circulating pressure decrease and/or spm increase
6. Increase in gas cutting at the shakers
7. Decrease in cuttings at shakers

While Tripping:

1. Hole not taking the proper fill on trip out of hole
2. Hole returns too much mud on trip in hole
3. Flow without pumping

While Out of the Hole:

1. Flow
2. Pit gain

Well Control Procedures with Diverter

A TIW valve in the open position must be on the rig floor at all times.

If rotating head is installed:

1. Perform flow check.
2. If well is flowing, divert flow down flow line and through separator, before returning across shakers.
3. Swap to 10 ppg brine and circulate around. Notify superintendent.

4. If well becomes uncontrollable, close annular, which will open HCR to divert flow away from rig.

If rotating head is not installed:

1. Perform flow check.
2. If well is flowing uncontrollably, close annular, which will open HCR to divert flow away from rig.
3. Swap to 10 ppg brine and circulate around. Notify superintendent.
4. After 10 ppg is circulated around shut pumps off and perform flow check.

Well Control Procedures

Coterra follows a hard shut-in procedure. Choke will be in the closed position.

General Well Control

1. If in doubt, secure the well first, then inform your supervisor.
2. Never wait for approval to shut in the well.
3. Verify that the mud pump is off before you close the BOP.
4. Always check and verify the well is properly secured after shut in.
5. Always install TIW valve in the open position.
6. If TIW valve is installed and then closed, apply estimated DP shut-in pressure above valve before opening.
7. The weak link in the mud system and mud lines is the pressure relief valve or pop off valve on the mud pump.
8. Keep the TIW valve wrench in a designated location on the rig floor and in the open position.
9. Use a drill string float above the bit. Don't perforate or disable the float.
10. 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.

Hard Shut-In

1. Remote choke is closed.
2. Stop pumping and space out.
3. Check for flow.
4. To shut in, close annular or pipe ram if no annular is present.
5. Open the HCR valve.
6. Check systems, bump float. Record Initial Shut in Drill pipe pressure and Initial shut in casing pressure.

Flow Check when on Bottom

1. Alert crew & stop rotating
2. Pick up and space out
3. Shut down pumps
4. Observe well for flow
5. Shut-in if flowing

Shutting in while Drilling

1. After flow has been detected via flow check, kill pumps, shut in well and open HCR
2. Verify well is shut-in and flow has stopped
3. Notify supervisory personnel
4. Record data
5. Begin go forward planning

Flow Check while Tripping

1. Alert crew & pick up / space out
2. Stop pipe movement. Set slips with tool joint accessible at rotary table
3. Install open TIW safety valve and close valve
4. Observe well for flow
5. Shut-in if flowing

Shutting in while Tripping

1. Install open TIW safety valve and close valve
2. Shut-in the well
3. Verify well is shut-in and flow has stopped
4. Install IBOP
5. Notify supervisory personnel
6. Record data; SICP, shut-in time, kick depth, and pit gain
7. Begin go forward planning

Shutting in while Out of Hole

1. Sound alarm
2. Shut-in well: close blind rams.
3. Verify well is shut-in and monitor pressures.
4. Notify supervisory personnel
5. Record data; SICP, shut-in time, kick depth, and pit gain
6. Begin go forward planning

Information to Record while Shut-In

1. Shut in drill pipe pressure every 5 minutes

2. Shut in casing pressure every 5 minutes
3. Pit gain
4. Total volume in pit system
5. Mud weight in suction pit
6. Current depth
7. Total depth
8. Time the well is shut in

H2S with Annular Diverter:

1. Kill Pumps, close annular, which will open HCR, to divert flow away from rig.
2. Muster and take head count.
3. Call ASSI to check location for H2S. Call Coterra superintendent.
4. After ASSI has checked for H2S the path forward will be decided from Coterra superintendent.

H2S with BOP's:

1. Kill pumps
2. Shut in annular with HCR open and chokes closed.
3. Muster and take head count.
4. Call ASSI to check location for H2S. Call Coterra superintendent.
5. After ASSI has checked for H2S. discuss path forward with Coterra superintendent

Procedure for Closing Blind Rams

- Open HCR valve (visually check that the HCR valve is open – stem in the valve is open, stem out the valve is closed).
- Verify all circulating pumps are off (mud pumps, trip tank pump, etc.)
- Ensure that the hydraulic choke is in the closed position.
- Close the blind rams and place the "blind rams closed, bleed pressure and remove hole cover before opening" sign on the console.
- Monitor the shut in casing pressure gauge periodically while the blinds are closed to ensure that wellbore pressure isn't building. If pressure build up is observed, monitor the shut in casing pressure more frequently & document. Notify rig management and Coterra representative of the pressure build up.
- Ensure that the inner bushings are locked into the master bushings if applicable.
- Install hole cover.

Procedure for Opening Blind Rams

- Make sure choke manifold is aligned correctly.
- Open the hydraulic choke to bleed any trapped pressure that may be under the blind rams. (Even if the casing pressure gauge is reading zero).

- Confirm that no flow is discharging into the trip tank or possum bellies of the shale shaker (wherever the separator is discharging into).
- Remove hole cover.
- Confirm that the inner bushing are locked into the master bushings if applicable.
- Clear all personnel from the rig floor.
- Remove sign and open blind rams.
- Return the BOPE to its original operating alignment.

BOP Drills

- Drilling crews should conduct BOP drills weekly from BOP nipple up to TD for reaction time to properly simulate securing the well. Record BOP drills on that day's report.
- Standard precautions such as checking the accumulator for proper working pressure, function testing rams, and recording slow pump rates are performed on a daily basis or on trips..
- All supervisory personnel onsite need to be properly trained and currently hold certification from an approved blowout prevention school. Any deviation from this needs to be discussed prior to spud.
- Drillers should always notify the tool pusher and the drilling foreman before performing a blowout drill.

Choke Manifold Freeze Prevention

- When possible, blow out the choke & kill lines as well as the choke manifold with rig air to remove water based fluids.
- When clear water is being placed into the choke & kill line as well as the choke manifold, make sure that the water has a mixture of 30% methanol added.
- When applicable, choke & kill lines as well as choke manifold needs to be pumped through with the rig pump by the driller to ensure that the lines aren't plugged with settling barite or solids.

Coterra Energy
Site: Sun-Sombrero Pad
Well: Sombrero State Com 222H
Wellbore: OH
Design: Plan #1
Rig: H&P 448

COTERRA

total

SHL

320' FNL, 1283' FWL
RKB Elevation: GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	607591.47	823882.28	32.6669555	-103.4151714	

SECTION DETAILS

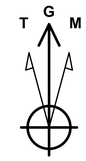
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
856.79	7.14	66.68	855.87	8.79	20.38	2.00	66.68	8.61	Hold - 856.79' MD/855.87' TVD
8935.72	7.14	66.68	8872.22	406.14	941.95	0.00	0.00	398.23	Start DLS 4.00 TFO -122.98
9133.58	7.20	359.52	9068.85	423.43	953.15	4.00	-122.98	415.43	KOP - Start 10.00°/100' DLS
9961.58	90.00	359.52	9570.00	991.85	948.35	10.00	0.00	983.87	LP - 9961.58' MD
30264.95	90.00	359.52	9570.00	21294.49	776.57	0.00	0.00	21287.24	TD - 30264.95' MD

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP/LP/FTP (Som St Com 222H)	9068.85	423.43	953.15	608014.90	824835.43	32.6680965	-103.4120625
LTP/PBHL - 100' FNL, 2242' FWL (Som St Com 222H)	9570.00	21294.49	776.57	628885.96	824658.85	32.7254616	-103.4120471

Formations

TVDPath	Formation
1740.00	Rustler
1814.00	A3
1902.00	Tamarisk
2000.00	Top Salt
3098.00	Base Slt
3256.00	Yates
3670.00	Seven Rivers
4416.00	Queen
5706.00	Cherry Canyon
5920.00	Brushy Canyon
7310.00	Bone Spring
9098.00	1st Bone Spring Sand
9238.00	2nd Bone Spring Carbonate
9282.00	2nd Bone Spring Sand
9570.00	Target



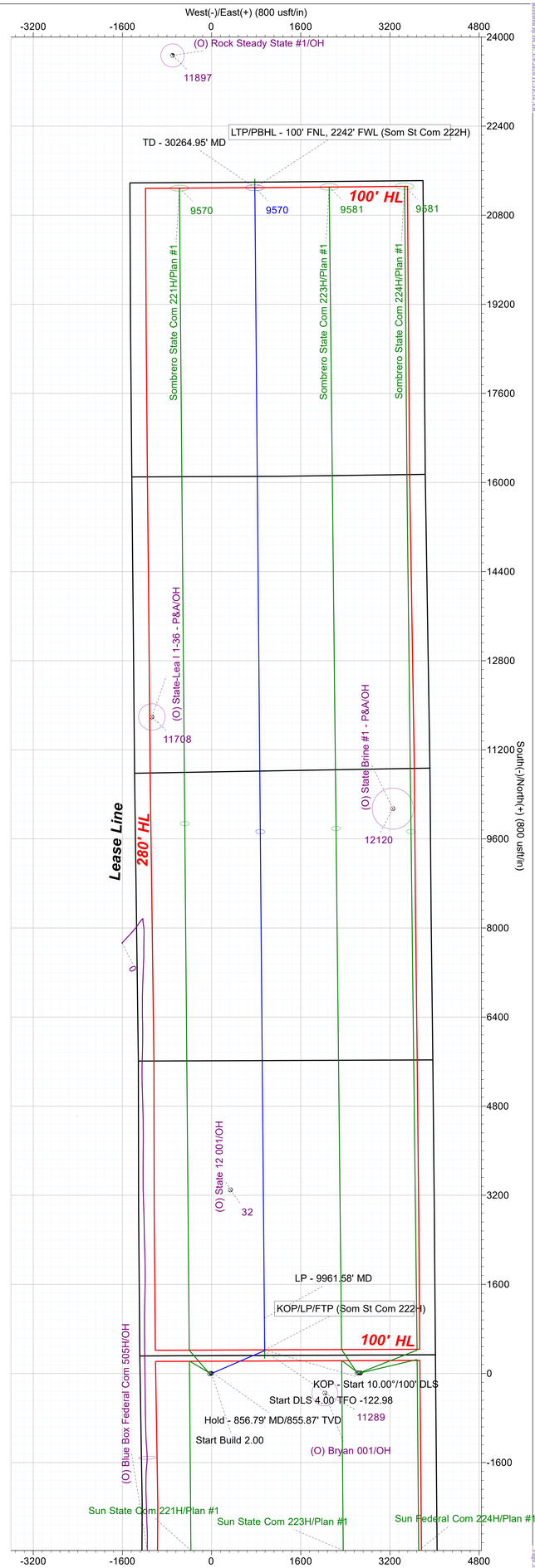
Azimuths to Grid North
True North: -0.50°
Magnetic North: 5.50°

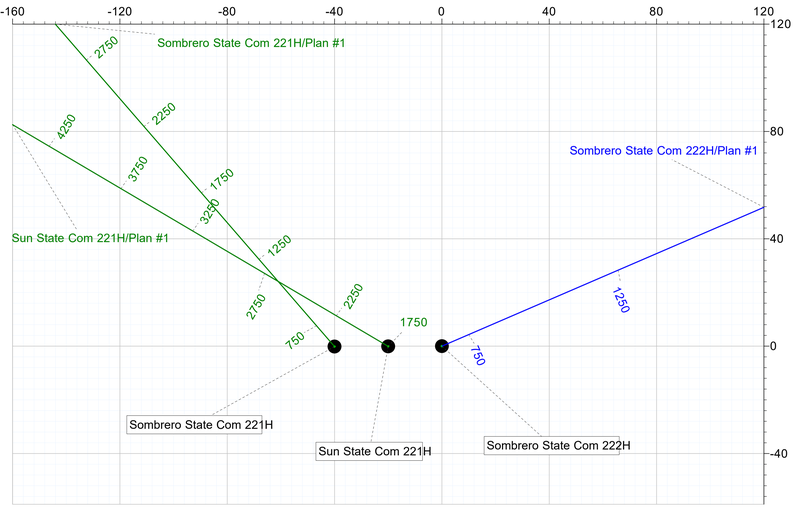
Magnetic Field
Strength: 47264.3nT
Dip Angle: 60.38°
Date: 3/29/2026
Model: HDGM2026

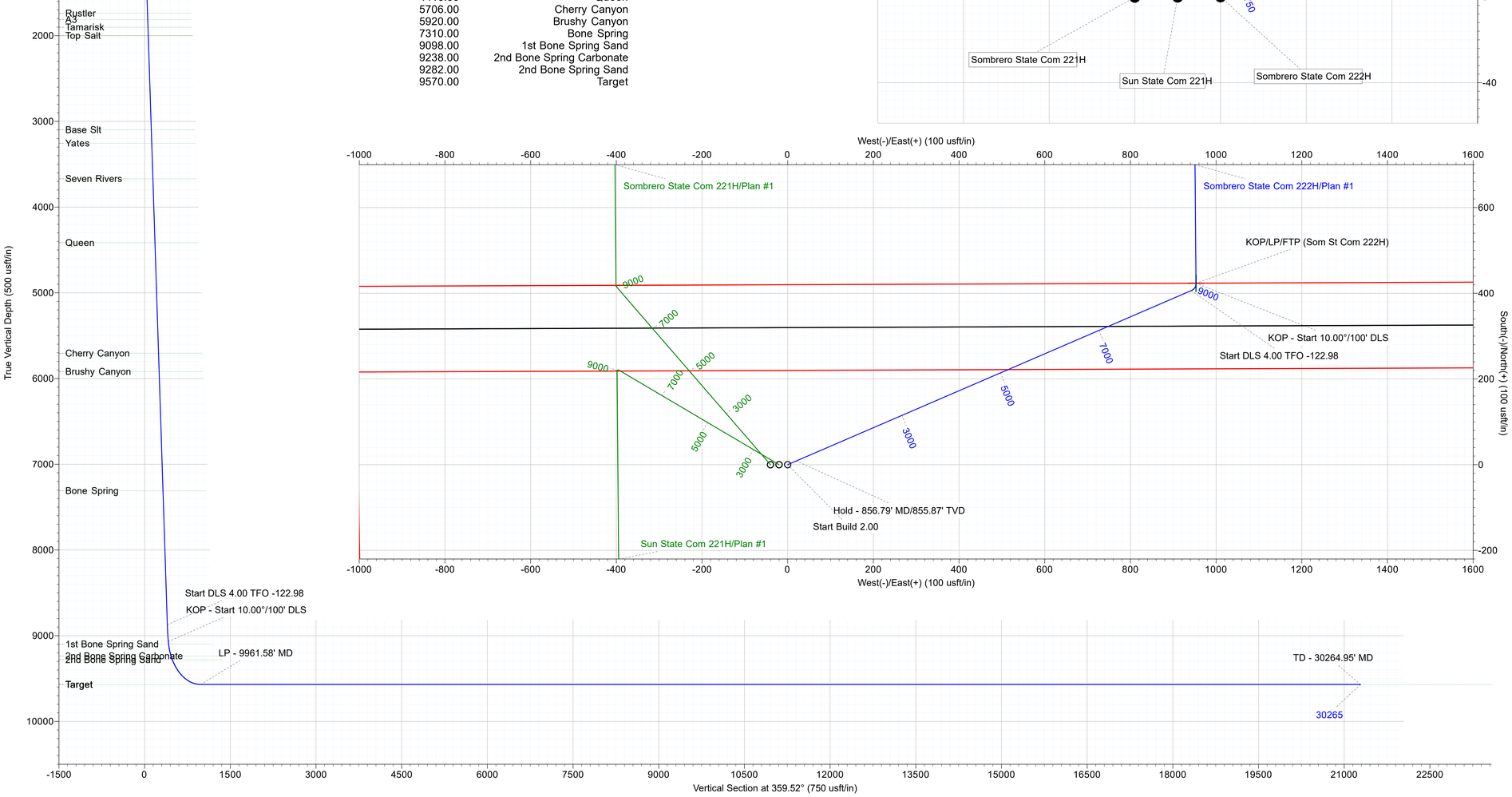
To convert a Magnetic Direction to a Grid Direction, Add 5.50°

PROJECT DETAILS: Lea County, NM (NAD 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone







Coterra Energy

Lea County, NM (NAD 83)
Sun-Sombrero Pad
Sombrero State Com 222H

320' FNL, 1283' FWL

OH

Plan: Plan #1

Total Directional
"Driven by TOTAL performance"
total

Standard Plan Report

04 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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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 Sun-Sombrero Pad

Site Position:		**Northing:**	607,591.32 usft	**Latitude:**	32.6669561
From:	Map	**Easting:**	823,842.28 usft	**Longitude:**	-103.4153014
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well Sombrero State Com 222H

Well Position	**+N/-S**	0.00 usft	**Northing:**	607,591.47 usft	**Latitude:**	32.6669555
	+E/-W	0.00 usft	**Easting:**	823,882.28 usft	**Longitude:**	-103.4151714
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,746.70 usft
Grid Convergence:		0.50 °				

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM2026	3/29/2026	6.00	60.38	47,264.30000000

Design Plan #1

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	359.52

Survey Tool Program **Date** 3/4/2026

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.00	30,264.95	Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
856.79	7.14	66.68	855.87	8.79	20.38	2.00	2.00	0.00	66.68	
8,935.72	7.14	66.68	8,872.22	406.14	941.95	0.00	0.00	0.00	0.00	
9,133.58	7.20	359.52	9,068.85	423.43	953.15	4.00	0.03	-33.94	-122.98	
9,961.58	90.00	359.52	9,570.00	991.85	948.35	10.00	10.00	0.00	0.00	
30,264.95	90.00	359.52	9,570.00	21,294.49	776.57	0.00	0.00	0.00	0.00	LTP/PBHL - 100' FN

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Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
0.00	0.00	0.00	0.00	0.00	0.00	607,591.47	823,882.28	32.6669555	-103.4151714	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	607,591.47	823,882.28	32.6669555	-103.4151714	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	607,591.47	823,882.28	32.6669555	-103.4151714	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	607,591.47	823,882.28	32.6669555	-103.4151714	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	607,591.47	823,882.28	32.6669555	-103.4151714	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	607,591.47	823,882.28	32.6669555	-103.4151714	0.00	0.00	0.00	0.00
Start Build 2.00													
600.00	2.00	66.68	599.98	0.69	1.60	607,592.16	823,883.88	32.6669574	-103.4151662	0.68	2.00	2.00	0.00
700.00	4.00	66.68	699.84	2.76	6.41	607,594.23	823,888.69	32.6669630	-103.4151505	2.71	2.00	2.00	0.00
800.00	6.00	66.68	799.45	6.21	14.41	607,597.68	823,896.69	32.6669723	-103.4151244	6.09	2.00	2.00	0.00
856.79	7.14	66.68	855.87	8.79	20.38	607,600.26	823,902.66	32.6669792	-103.4151050	8.61	2.00	2.00	0.00
Hold - 856.79' MD/855.87' TVD													
900.00	7.14	66.68	898.74	10.91	25.30	607,602.38	823,907.58	32.6669849	-103.4150889	10.70	0.00	0.00	0.00
1,000.00	7.14	66.68	997.97	15.83	36.71	607,607.30	823,918.99	32.6669982	-103.4150517	15.52	0.00	0.00	0.00
1,100.00	7.14	66.68	1,097.19	20.75	48.12	607,612.22	823,930.40	32.6670114	-103.4150145	20.34	0.00	0.00	0.00
1,200.00	7.14	66.68	1,196.42	25.67	59.53	607,617.14	823,941.81	32.6670246	-103.4149773	25.17	0.00	0.00	0.00
1,300.00	7.14	66.68	1,295.65	30.58	70.93	607,622.05	823,953.21	32.6670379	-103.4149401	29.99	0.00	0.00	0.00
1,400.00	7.14	66.68	1,394.87	35.50	82.34	607,626.97	823,964.62	32.6670511	-103.4149029	34.81	0.00	0.00	0.00
1,500.00	7.14	66.68	1,494.10	40.42	93.75	607,631.89	823,976.03	32.6670644	-103.4148657	39.63	0.00	0.00	0.00
1,600.00	7.14	66.68	1,593.32	45.34	105.15	607,636.81	823,987.43	32.6670776	-103.4148285	44.46	0.00	0.00	0.00
1,700.00	7.14	66.68	1,692.55	50.26	116.56	607,641.73	823,998.84	32.6670909	-103.4147913	49.28	0.00	0.00	0.00
1,747.82	7.14	66.68	1,740.00	52.61	122.02	607,644.08	824,004.30	32.6670972	-103.4147735	51.59	0.00	0.00	0.00
Rustler													
1,800.00	7.14	66.68	1,791.77	55.18	127.97	607,646.65	824,010.25	32.6671041	-103.4147541	54.10	0.00	0.00	0.00
1,822.40	7.14	66.68	1,814.00	56.28	130.52	607,647.75	824,012.80	32.6671071	-103.4147457	55.18	0.00	0.00	0.00
A3													
1,900.00	7.14	66.68	1,891.00	60.09	139.38	607,651.56	824,021.66	32.6671174	-103.4147169	58.92	0.00	0.00	0.00
1,911.09	7.14	66.68	1,902.00	60.64	140.64	607,652.11	824,022.92	32.6671188	-103.4147127	59.46	0.00	0.00	0.00
Tamarisk													
2,000.00	7.14	66.68	1,990.22	65.01	150.78	607,656.48	824,033.06	32.6671306	-103.4146797	63.75	0.00	0.00	0.00
2,009.85	7.14	66.68	2,000.00	65.50	151.91	607,656.97	824,034.19	32.6671319	-103.4146760	64.22	0.00	0.00	0.00
Top Salt													
2,100.00	7.14	66.68	2,089.45	69.93	162.19	607,661.40	824,044.47	32.6671439	-103.4146425	68.57	0.00	0.00	0.00
2,200.00	7.14	66.68	2,188.67	74.85	173.60	607,666.32	824,055.88	32.6671571	-103.4146053	73.39	0.00	0.00	0.00
2,300.00	7.14	66.68	2,287.90	79.77	185.00	607,671.24	824,067.28	32.6671704	-103.4145680	78.22	0.00	0.00	0.00
2,400.00	7.14	66.68	2,387.13	84.69	196.41	607,676.16	824,078.69	32.6671836	-103.4145308	83.04	0.00	0.00	0.00
2,500.00	7.14	66.68	2,486.35	89.60	207.82	607,681.07	824,090.10	32.6671968	-103.4144936	87.86	0.00	0.00	0.00
2,600.00	7.14	66.68	2,585.58	94.52	219.23	607,685.99	824,101.51	32.6672101	-103.4144564	92.68	0.00	0.00	0.00

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
2,700.00	7.14	66.68	2,684.80	99.44	230.63	607,690.91	824,112.91	32.6672233	-103.4144192	97.51	0.00	0.00	0.00
2,800.00	7.14	66.68	2,784.03	104.36	242.04	607,695.83	824,124.32	32.6672366	-103.4143820	102.33	0.00	0.00	0.00
2,900.00	7.14	66.68	2,883.25	109.28	253.45	607,700.75	824,135.73	32.6672498	-103.4143448	107.15	0.00	0.00	0.00
3,000.00	7.14	66.68	2,982.48	114.20	264.85	607,705.67	824,147.13	32.6672631	-103.4143076	111.97	0.00	0.00	0.00
3,100.00	7.14	66.68	3,081.70	119.11	276.26	607,710.58	824,158.54	32.6672763	-103.4142704	116.80	0.00	0.00	0.00
3,116.42	7.14	66.68	3,098.00	119.92	278.14	607,711.39	824,160.42	32.6672785	-103.4142643	117.59	0.00	0.00	0.00
Base Slt													
3,200.00	7.14	66.68	3,180.93	124.03	287.67	607,715.50	824,169.95	32.6672896	-103.4142332	121.62	0.00	0.00	0.00
3,275.66	7.14	66.68	3,256.00	127.75	296.30	607,719.22	824,178.58	32.6672996	-103.4142051	125.27	0.00	0.00	0.00
Yates													
3,300.00	7.14	66.68	3,280.15	128.95	299.08	607,720.42	824,181.36	32.6673028	-103.4141960	126.44	0.00	0.00	0.00
3,400.00	7.14	66.68	3,379.38	133.87	310.48	607,725.34	824,192.76	32.6673161	-103.4141588	131.26	0.00	0.00	0.00
3,500.00	7.14	66.68	3,478.61	138.79	321.89	607,730.26	824,204.17	32.6673293	-103.4141216	136.09	0.00	0.00	0.00
3,600.00	7.14	66.68	3,577.83	143.71	333.30	607,735.18	824,215.58	32.6673426	-103.4140844	140.91	0.00	0.00	0.00
3,692.89	7.14	66.68	3,670.00	148.28	343.89	607,739.75	824,226.17	32.6673549	-103.4140498	145.39	0.00	0.00	0.00
Seven Rivers													
3,700.00	7.14	66.68	3,677.06	148.63	344.70	607,740.10	824,226.98	32.6673558	-103.4140472	145.73	0.00	0.00	0.00
3,800.00	7.14	66.68	3,776.28	153.54	356.11	607,745.01	824,238.39	32.6673690	-103.4140100	150.55	0.00	0.00	0.00
3,900.00	7.14	66.68	3,875.51	158.46	367.52	607,749.93	824,249.80	32.6673823	-103.4139728	155.38	0.00	0.00	0.00
4,000.00	7.14	66.68	3,974.73	163.38	378.93	607,754.85	824,261.21	32.6673955	-103.4139356	160.20	0.00	0.00	0.00
4,100.00	7.14	66.68	4,073.96	168.30	390.33	607,759.77	824,272.61	32.6674088	-103.4138984	165.02	0.00	0.00	0.00
4,200.00	7.14	66.68	4,173.18	173.22	401.74	607,764.69	824,284.02	32.6674220	-103.4138612	169.85	0.00	0.00	0.00
4,300.00	7.14	66.68	4,272.41	178.14	413.15	607,769.61	824,295.43	32.6674353	-103.4138240	174.67	0.00	0.00	0.00
4,400.00	7.14	66.68	4,371.63	183.05	424.55	607,774.52	824,306.83	32.6674485	-103.4137868	179.49	0.00	0.00	0.00
4,444.71	7.14	66.68	4,416.00	185.25	429.66	607,776.72	824,311.94	32.6674544	-103.4137701	181.65	0.00	0.00	0.00
Queen													
4,500.00	7.14	66.68	4,470.86	187.97	435.96	607,779.44	824,318.24	32.6674618	-103.4137496	184.31	0.00	0.00	0.00
4,600.00	7.14	66.68	4,570.08	192.89	447.37	607,784.36	824,329.65	32.6674750	-103.4137124	189.14	0.00	0.00	0.00
4,700.00	7.14	66.68	4,669.31	197.81	458.78	607,789.28	824,341.06	32.6674883	-103.4136752	193.96	0.00	0.00	0.00
4,800.00	7.14	66.68	4,768.54	202.73	470.18	607,794.20	824,352.46	32.6675015	-103.4136380	198.78	0.00	0.00	0.00
4,900.00	7.14	66.68	4,867.76	207.65	481.59	607,799.12	824,363.87	32.6675148	-103.4136008	203.60	0.00	0.00	0.00
5,000.00	7.14	66.68	4,966.99	212.56	493.00	607,804.03	824,375.28	32.6675280	-103.4135636	208.43	0.00	0.00	0.00
5,100.00	7.14	66.68	5,066.21	217.48	504.40	607,808.95	824,386.68	32.6675412	-103.4135264	213.25	0.00	0.00	0.00
5,200.00	7.14	66.68	5,165.44	222.40	515.81	607,813.87	824,398.09	32.6675545	-103.4134892	218.07	0.00	0.00	0.00
5,300.00	7.14	66.68	5,264.66	227.32	527.22	607,818.79	824,409.50	32.6675677	-103.4134519	222.89	0.00	0.00	0.00
5,400.00	7.14	66.68	5,363.89	232.24	538.63	607,823.71	824,420.91	32.6675810	-103.4134147	227.72	0.00	0.00	0.00
5,500.00	7.14	66.68	5,463.11	237.16	550.03	607,828.63	824,432.31	32.6675942	-103.4133775	232.54	0.00	0.00	0.00
5,600.00	7.14	66.68	5,562.34	242.07	561.44	607,833.54	824,443.72	32.6676075	-103.4133403	237.36	0.00	0.00	0.00

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5,700.00	7.14	66.68	5,661.56	246.99	572.85	607,838.46	824,455.13	32.6676207	-103.4133031	242.19	0.00	0.00	0.00
5,744.78	7.14	66.68	5,706.00	249.20	577.96	607,840.67	824,460.24	32.6676266	-103.4132865	244.34	0.00	0.00	0.00
Cherry Canyon													
5,800.00	7.14	66.68	5,760.79	251.91	584.25	607,843.38	824,466.53	32.6676340	-103.4132659	247.01	0.00	0.00	0.00
5,900.00	7.14	66.68	5,860.02	256.83	595.66	607,848.30	824,477.94	32.6676472	-103.4132287	251.83	0.00	0.00	0.00
5,960.45	7.14	66.68	5,920.00	259.80	602.56	607,851.27	824,484.84	32.6676552	-103.4132062	254.75	0.00	0.00	0.00
Brushy Canyon													
6,000.00	7.14	66.68	5,959.24	261.75	607.07	607,853.22	824,489.35	32.6676605	-103.4131915	256.65	0.00	0.00	0.00
6,100.00	7.14	66.68	6,058.47	266.67	618.48	607,858.14	824,500.76	32.6676737	-103.4131543	261.48	0.00	0.00	0.00
6,200.00	7.14	66.68	6,157.69	271.58	629.88	607,863.05	824,512.16	32.6676869	-103.4131171	266.30	0.00	0.00	0.00
6,300.00	7.14	66.68	6,256.92	276.50	641.29	607,867.97	824,523.57	32.6677002	-103.4130799	271.12	0.00	0.00	0.00
6,400.00	7.14	66.68	6,356.14	281.42	652.70	607,872.89	824,534.98	32.6677134	-103.4130427	275.94	0.00	0.00	0.00
6,500.00	7.14	66.68	6,455.37	286.34	664.10	607,877.81	824,546.38	32.6677267	-103.4130055	280.77	0.00	0.00	0.00
6,600.00	7.14	66.68	6,554.59	291.26	675.51	607,882.73	824,557.79	32.6677399	-103.4129683	285.59	0.00	0.00	0.00
6,700.00	7.14	66.68	6,653.82	296.18	686.92	607,887.65	824,569.20	32.6677532	-103.4129311	290.41	0.00	0.00	0.00
6,800.00	7.14	66.68	6,753.04	301.09	698.33	607,892.56	824,580.61	32.6677664	-103.4128939	295.23	0.00	0.00	0.00
6,900.00	7.14	66.68	6,852.27	306.01	709.73	607,897.48	824,592.01	32.6677797	-103.4128567	300.06	0.00	0.00	0.00
7,000.00	7.14	66.68	6,951.50	310.93	721.14	607,902.40	824,603.42	32.6677929	-103.4128195	304.88	0.00	0.00	0.00
7,100.00	7.14	66.68	7,050.72	315.85	732.55	607,907.32	824,614.83	32.6678062	-103.4127823	309.70	0.00	0.00	0.00
7,200.00	7.14	66.68	7,149.95	320.77	743.95	607,912.24	824,626.23	32.6678194	-103.4127451	314.52	0.00	0.00	0.00
7,300.00	7.14	66.68	7,249.17	325.69	755.36	607,917.16	824,637.64	32.6678326	-103.4127079	319.35	0.00	0.00	0.00
7,361.30	7.14	66.68	7,310.00	328.70	762.36	607,920.17	824,644.64	32.6678408	-103.4126851	322.30	0.00	0.00	0.00
Bone Spring													
7,400.00	7.14	66.68	7,348.40	330.61	766.77	607,922.08	824,649.05	32.6678459	-103.4126707	324.17	0.00	0.00	0.00
7,500.00	7.14	66.68	7,447.62	335.52	778.18	607,926.99	824,660.46	32.6678591	-103.4126335	328.99	0.00	0.00	0.00
7,600.00	7.14	66.68	7,546.85	340.44	789.58	607,931.91	824,671.86	32.6678724	-103.4125963	333.82	0.00	0.00	0.00
7,700.00	7.14	66.68	7,646.07	345.36	800.99	607,936.83	824,683.27	32.6678856	-103.4125591	338.64	0.00	0.00	0.00
7,800.00	7.14	66.68	7,745.30	350.28	812.40	607,941.75	824,694.68	32.6678989	-103.4125219	343.46	0.00	0.00	0.00
7,900.00	7.14	66.68	7,844.52	355.20	823.80	607,946.67	824,706.08	32.6679121	-103.4124847	348.28	0.00	0.00	0.00
8,000.00	7.14	66.68	7,943.75	360.12	835.21	607,951.59	824,717.49	32.6679254	-103.4124475	353.11	0.00	0.00	0.00
8,100.00	7.14	66.68	8,042.98	365.03	846.62	607,956.50	824,728.90	32.6679386	-103.4124102	357.93	0.00	0.00	0.00
8,200.00	7.14	66.68	8,142.20	369.95	858.03	607,961.42	824,740.31	32.6679519	-103.4123730	362.75	0.00	0.00	0.00
8,300.00	7.14	66.68	8,241.43	374.87	869.43	607,966.34	824,751.71	32.6679651	-103.4123358	367.57	0.00	0.00	0.00
8,400.00	7.14	66.68	8,340.65	379.79	880.84	607,971.26	824,763.12	32.6679783	-103.4122986	372.40	0.00	0.00	0.00
8,500.00	7.14	66.68	8,439.88	384.71	892.25	607,976.18	824,774.53	32.6679916	-103.4122614	377.22	0.00	0.00	0.00
8,600.00	7.14	66.68	8,539.10	389.63	903.65	607,981.10	824,785.93	32.6680048	-103.4122242	382.04	0.00	0.00	0.00
8,700.00	7.14	66.68	8,638.33	394.54	915.06	607,986.01	824,797.34	32.6680181	-103.4121870	386.86	0.00	0.00	0.00
8,800.00	7.14	66.68	8,737.55	399.46	926.47	607,990.93	824,808.75	32.6680313	-103.4121498	391.69	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
8,900.00	7.14	66.68	8,836.78	404.38	937.88	607,995.85	824,820.16	32.6680446	-103.4121126	396.51	0.00	0.00	0.00
8,935.72	7.14	66.68	8,872.22	406.14	941.95	607,997.61	824,824.23	32.6680493	-103.4120993	398.23	0.00	0.00	0.00
Start DLS 4.00 TFO -122.98													
9,000.00	6.13	46.03	8,936.08	410.10	948.09	608,001.57	824,830.37	32.6680600	-103.4120793	402.14	4.00	-1.57	-32.12
9,100.00	6.55	9.36	9,035.51	419.44	952.86	608,010.91	824,835.14	32.6680856	-103.4120635	411.44	4.00	0.42	-36.67
9,133.58	7.20	359.52	9,068.85	423.43	953.15	608,014.90	824,835.43	32.6680966	-103.4120625	415.43	4.00	1.94	-29.30
KOP - Start 10.00°/100' DLS - KOP/LP/FTP (Som St Com 222H)													
9,150.00	8.84	359.52	9,085.11	425.72	953.13	608,017.19	824,835.41	32.6681029	-103.4120624	417.72	10.00	10.00	-0.01
9,163.07	10.15	359.52	9,098.00	427.88	953.11	608,019.35	824,835.39	32.6681088	-103.4120624	419.88	10.00	10.00	0.00
1st Bone Spring Sand													
9,200.00	13.84	359.52	9,134.12	435.55	953.05	608,027.02	824,835.33	32.6681299	-103.4120624	427.55	10.00	10.00	0.00
9,250.00	18.84	359.52	9,182.08	449.61	952.93	608,041.08	824,835.21	32.6681685	-103.4120624	441.61	10.00	10.00	0.00
9,300.00	23.84	359.52	9,228.64	467.80	952.78	608,059.27	824,835.06	32.6682185	-103.4120624	459.81	10.00	10.00	0.00
9,310.28	24.87	359.52	9,238.00	472.04	952.74	608,063.51	824,835.02	32.6682302	-103.4120624	464.04	10.00	10.00	0.00
2nd Bone Spring Carbonate													
9,350.00	28.84	359.52	9,273.43	489.98	952.59	608,081.45	824,834.87	32.6682795	-103.4120624	481.98	10.00	10.00	0.00
9,359.83	29.82	359.52	9,282.00	494.80	952.55	608,086.27	824,834.83	32.6682927	-103.4120624	486.80	10.00	10.00	0.00
2nd Bone Spring Sand													
9,400.00	33.84	359.52	9,316.12	515.98	952.37	608,107.45	824,834.65	32.6683509	-103.4120624	507.98	10.00	10.00	0.00
9,450.00	38.84	359.52	9,356.38	545.60	952.12	608,137.07	824,834.40	32.6684324	-103.4120624	537.60	10.00	10.00	0.00
9,500.00	43.84	359.52	9,393.91	578.62	951.84	608,170.09	824,834.12	32.6685231	-103.4120623	570.62	10.00	10.00	0.00
9,550.00	48.84	359.52	9,428.42	614.78	951.53	608,206.25	824,833.81	32.6686225	-103.4120623	606.78	10.00	10.00	0.00
9,600.00	53.84	359.52	9,459.64	653.81	951.20	608,245.28	824,833.48	32.6687298	-103.4120623	645.82	10.00	10.00	0.00
9,650.00	58.84	359.52	9,487.34	695.41	950.85	608,286.88	824,833.13	32.6688441	-103.4120622	687.42	10.00	10.00	0.00
9,700.00	63.84	359.52	9,511.32	739.27	950.48	608,330.74	824,832.76	32.6689647	-103.4120622	731.28	10.00	10.00	0.00
9,750.00	68.84	359.52	9,531.37	785.05	950.10	608,376.52	824,832.38	32.6690905	-103.4120622	777.06	10.00	10.00	0.00
9,800.00	73.84	359.52	9,547.36	832.41	949.69	608,423.88	824,831.97	32.6692207	-103.4120621	824.42	10.00	10.00	0.00
9,850.00	78.84	359.52	9,559.17	880.98	949.28	608,472.45	824,831.56	32.6693542	-103.4120621	872.99	10.00	10.00	0.00
9,900.00	83.84	359.52	9,566.69	930.39	948.87	608,521.86	824,831.15	32.6694900	-103.4120621	922.41	10.00	10.00	0.00
9,950.00	88.84	359.52	9,569.88	980.27	948.44	608,571.74	824,830.72	32.6696271	-103.4120620	972.29	10.00	10.00	0.00
9,961.58	90.00	359.52	9,570.00	991.85	948.35	608,583.32	824,830.63	32.6696589	-103.4120620	983.87	10.00	10.00	0.00
LP - 9961.58' MD - Target													
10,000.00	90.00	359.52	9,570.00	1,030.27	948.02	608,621.74	824,830.30	32.6697645	-103.4120620	1,022.29	0.00	0.00	0.00
10,100.00	90.00	359.52	9,570.00	1,130.26	947.17	608,721.73	824,829.45	32.6700393	-103.4120619	1,122.29	0.00	0.00	0.00
10,200.00	90.00	359.52	9,570.00	1,230.26	946.33	608,821.73	824,828.61	32.6703142	-103.4120619	1,222.29	0.00	0.00	0.00
10,300.00	90.00	359.52	9,570.00	1,330.26	945.48	608,921.73	824,827.76	32.6705890	-103.4120618	1,322.29	0.00	0.00	0.00
10,400.00	90.00	359.52	9,570.00	1,430.25	944.64	609,021.72	824,826.92	32.6708639	-103.4120617	1,422.29	0.00	0.00	0.00
10,500.00	90.00	359.52	9,570.00	1,530.25	943.79	609,121.72	824,826.07	32.6711387	-103.4120616	1,522.29	0.00	0.00	0.00
10,600.00	90.00	359.52	9,570.00	1,630.24	942.94	609,221.71	824,825.22	32.6714136	-103.4120616	1,622.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
10,700.00	90.00	359.52	9,570.00	1,730.24	942.10	609,321.71	824,824.38	32.6716884	-103.4120615	1,722.29	0.00	0.00	0.00
10,800.00	90.00	359.52	9,570.00	1,830.24	941.25	609,421.71	824,823.53	32.6719633	-103.4120614	1,822.29	0.00	0.00	0.00
10,900.00	90.00	359.52	9,570.00	1,930.23	940.41	609,521.70	824,822.69	32.6722381	-103.4120614	1,922.29	0.00	0.00	0.00
11,000.00	90.00	359.52	9,570.00	2,030.23	939.56	609,621.70	824,821.84	32.6725129	-103.4120613	2,022.29	0.00	0.00	0.00
11,100.00	90.00	359.52	9,570.00	2,130.23	938.71	609,721.70	824,820.99	32.6727878	-103.4120612	2,122.29	0.00	0.00	0.00
11,200.00	90.00	359.52	9,570.00	2,230.22	937.87	609,821.69	824,820.15	32.6730626	-103.4120611	2,222.29	0.00	0.00	0.00
11,300.00	90.00	359.52	9,570.00	2,330.22	937.02	609,921.69	824,819.30	32.6733375	-103.4120611	2,322.29	0.00	0.00	0.00
11,400.00	90.00	359.52	9,570.00	2,430.22	936.18	610,021.69	824,818.46	32.6736123	-103.4120610	2,422.29	0.00	0.00	0.00
11,500.00	90.00	359.52	9,570.00	2,530.21	935.33	610,121.68	824,817.61	32.6738872	-103.4120609	2,522.29	0.00	0.00	0.00
11,600.00	90.00	359.52	9,570.00	2,630.21	934.48	610,221.68	824,816.76	32.6741620	-103.4120609	2,622.29	0.00	0.00	0.00
11,700.00	90.00	359.52	9,570.00	2,730.21	933.64	610,321.68	824,815.92	32.6744369	-103.4120608	2,722.29	0.00	0.00	0.00
11,800.00	90.00	359.52	9,570.00	2,830.20	932.79	610,421.67	824,815.07	32.6747117	-103.4120607	2,822.29	0.00	0.00	0.00
11,900.00	90.00	359.52	9,570.00	2,930.20	931.95	610,521.67	824,814.23	32.6749866	-103.4120606	2,922.29	0.00	0.00	0.00
12,000.00	90.00	359.52	9,570.00	3,030.19	931.10	610,621.66	824,813.38	32.6752614	-103.4120606	3,022.29	0.00	0.00	0.00
12,100.00	90.00	359.52	9,570.00	3,130.19	930.25	610,721.66	824,812.53	32.6755362	-103.4120605	3,122.29	0.00	0.00	0.00
12,200.00	90.00	359.52	9,570.00	3,230.19	929.41	610,821.66	824,811.69	32.6758111	-103.4120604	3,222.29	0.00	0.00	0.00
12,300.00	90.00	359.52	9,570.00	3,330.18	928.56	610,921.65	824,810.84	32.6760859	-103.4120604	3,322.29	0.00	0.00	0.00
12,400.00	90.00	359.52	9,570.00	3,430.18	927.72	611,021.65	824,810.00	32.6763608	-103.4120603	3,422.29	0.00	0.00	0.00
12,500.00	90.00	359.52	9,570.00	3,530.18	926.87	611,121.65	824,809.15	32.6766356	-103.4120602	3,522.29	0.00	0.00	0.00
12,600.00	90.00	359.52	9,570.00	3,630.17	926.02	611,221.64	824,808.30	32.6769105	-103.4120601	3,622.29	0.00	0.00	0.00
12,700.00	90.00	359.52	9,570.00	3,730.17	925.18	611,321.64	824,807.46	32.6771853	-103.4120601	3,722.29	0.00	0.00	0.00
12,800.00	90.00	359.52	9,570.00	3,830.17	924.33	611,421.64	824,806.61	32.6774602	-103.4120600	3,822.29	0.00	0.00	0.00
12,900.00	90.00	359.52	9,570.00	3,930.16	923.49	611,521.63	824,805.77	32.6777350	-103.4120599	3,922.29	0.00	0.00	0.00
13,000.00	90.00	359.52	9,570.00	4,030.16	922.64	611,621.63	824,804.92	32.6780099	-103.4120599	4,022.29	0.00	0.00	0.00
13,100.00	90.00	359.52	9,570.00	4,130.16	921.79	611,721.63	824,804.07	32.6782847	-103.4120598	4,122.29	0.00	0.00	0.00
13,200.00	90.00	359.52	9,570.00	4,230.15	920.95	611,821.62	824,803.23	32.6785595	-103.4120597	4,222.29	0.00	0.00	0.00
13,300.00	90.00	359.52	9,570.00	4,330.15	920.10	611,921.62	824,802.38	32.6788344	-103.4120596	4,322.29	0.00	0.00	0.00
13,400.00	90.00	359.52	9,570.00	4,430.14	919.26	612,021.61	824,801.54	32.6791092	-103.4120596	4,422.29	0.00	0.00	0.00
13,500.00	90.00	359.52	9,570.00	4,530.14	918.41	612,121.61	824,800.69	32.6793841	-103.4120595	4,522.29	0.00	0.00	0.00
13,600.00	90.00	359.52	9,570.00	4,630.14	917.56	612,221.61	824,799.84	32.6796589	-103.4120594	4,622.29	0.00	0.00	0.00
13,700.00	90.00	359.52	9,570.00	4,730.13	916.72	612,321.60	824,799.00	32.6799338	-103.4120593	4,722.29	0.00	0.00	0.00
13,800.00	90.00	359.52	9,570.00	4,830.13	915.87	612,421.60	824,798.15	32.6802086	-103.4120593	4,822.29	0.00	0.00	0.00
13,900.00	90.00	359.52	9,570.00	4,930.13	915.03	612,521.60	824,797.31	32.6804835	-103.4120592	4,922.29	0.00	0.00	0.00
14,000.00	90.00	359.52	9,570.00	5,030.12	914.18	612,621.59	824,796.46	32.6807583	-103.4120591	5,022.29	0.00	0.00	0.00
14,100.00	90.00	359.52	9,570.00	5,130.12	913.33	612,721.59	824,795.61	32.6810332	-103.4120591	5,122.29	0.00	0.00	0.00
14,200.00	90.00	359.52	9,570.00	5,230.12	912.49	612,821.59	824,794.77	32.6813080	-103.4120590	5,222.29	0.00	0.00	0.00
14,300.00	90.00	359.52	9,570.00	5,330.11	911.64	612,921.58	824,793.92	32.6815828	-103.4120589	5,322.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
14,400.00	90.00	359.52	9,570.00	5,430.11	910.79	613,021.58	824,793.07	32.6818577	-103.4120588	5,422.29	0.00	0.00	0.00
14,500.00	90.00	359.52	9,570.00	5,530.11	909.95	613,121.58	824,792.23	32.6821325	-103.4120588	5,522.29	0.00	0.00	0.00
14,600.00	90.00	359.52	9,570.00	5,630.10	909.10	613,221.57	824,791.38	32.6824074	-103.4120587	5,622.29	0.00	0.00	0.00
14,700.00	90.00	359.52	9,570.00	5,730.10	908.26	613,321.57	824,790.54	32.6826822	-103.4120586	5,722.29	0.00	0.00	0.00
14,800.00	90.00	359.52	9,570.00	5,830.09	907.41	613,421.56	824,789.69	32.6829571	-103.4120586	5,822.29	0.00	0.00	0.00
14,900.00	90.00	359.52	9,570.00	5,930.09	906.56	613,521.56	824,788.84	32.6832319	-103.4120585	5,922.29	0.00	0.00	0.00
15,000.00	90.00	359.52	9,570.00	6,030.09	905.72	613,621.56	824,788.00	32.6835068	-103.4120584	6,022.29	0.00	0.00	0.00
15,100.00	90.00	359.52	9,570.00	6,130.08	904.87	613,721.55	824,787.15	32.6837816	-103.4120583	6,122.29	0.00	0.00	0.00
15,200.00	90.00	359.52	9,570.00	6,230.08	904.03	613,821.55	824,786.31	32.6840565	-103.4120583	6,222.29	0.00	0.00	0.00
15,300.00	90.00	359.52	9,570.00	6,330.08	903.18	613,921.55	824,785.46	32.6843313	-103.4120582	6,322.29	0.00	0.00	0.00
15,400.00	90.00	359.52	9,570.00	6,430.07	902.33	614,021.54	824,784.61	32.6846061	-103.4120581	6,422.29	0.00	0.00	0.00
15,500.00	90.00	359.52	9,570.00	6,530.07	901.49	614,121.54	824,783.77	32.6848810	-103.4120580	6,522.29	0.00	0.00	0.00
15,600.00	90.00	359.52	9,570.00	6,630.07	900.64	614,221.54	824,782.92	32.6851558	-103.4120580	6,622.29	0.00	0.00	0.00
15,700.00	90.00	359.52	9,570.00	6,730.06	899.80	614,321.53	824,782.08	32.6854307	-103.4120579	6,722.29	0.00	0.00	0.00
15,800.00	90.00	359.52	9,570.00	6,830.06	898.95	614,421.53	824,781.23	32.6857055	-103.4120578	6,822.29	0.00	0.00	0.00
15,900.00	90.00	359.52	9,570.00	6,930.06	898.10	614,521.53	824,780.38	32.6859804	-103.4120578	6,922.29	0.00	0.00	0.00
16,000.00	90.00	359.52	9,570.00	7,030.05	897.26	614,621.52	824,779.54	32.6862552	-103.4120577	7,022.29	0.00	0.00	0.00
16,100.00	90.00	359.52	9,570.00	7,130.05	896.41	614,721.52	824,778.69	32.6865301	-103.4120576	7,122.29	0.00	0.00	0.00
16,200.00	90.00	359.52	9,570.00	7,230.04	895.57	614,821.51	824,777.85	32.6868049	-103.4120575	7,222.29	0.00	0.00	0.00
16,300.00	90.00	359.52	9,570.00	7,330.04	894.72	614,921.51	824,777.00	32.6870798	-103.4120575	7,322.29	0.00	0.00	0.00
16,400.00	90.00	359.52	9,570.00	7,430.04	893.87	615,021.51	824,776.15	32.6873546	-103.4120574	7,422.29	0.00	0.00	0.00
16,500.00	90.00	359.52	9,570.00	7,530.03	893.03	615,121.50	824,775.31	32.6876294	-103.4120573	7,522.29	0.00	0.00	0.00
16,600.00	90.00	359.52	9,570.00	7,630.03	892.18	615,221.50	824,774.46	32.6879043	-103.4120572	7,622.29	0.00	0.00	0.00
16,700.00	90.00	359.52	9,570.00	7,730.03	891.34	615,321.50	824,773.62	32.6881791	-103.4120572	7,722.29	0.00	0.00	0.00
16,800.00	90.00	359.52	9,570.00	7,830.02	890.49	615,421.49	824,772.77	32.6884540	-103.4120571	7,822.29	0.00	0.00	0.00
16,900.00	90.00	359.52	9,570.00	7,930.02	889.64	615,521.49	824,771.92	32.6887288	-103.4120570	7,922.29	0.00	0.00	0.00
17,000.00	90.00	359.52	9,570.00	8,030.02	888.80	615,621.49	824,771.08	32.6890037	-103.4120570	8,022.29	0.00	0.00	0.00
17,100.00	90.00	359.52	9,570.00	8,130.01	887.95	615,721.48	824,770.23	32.6892785	-103.4120569	8,122.29	0.00	0.00	0.00
17,200.00	90.00	359.52	9,570.00	8,230.01	887.11	615,821.48	824,769.39	32.6895534	-103.4120568	8,222.29	0.00	0.00	0.00
17,300.00	90.00	359.52	9,570.00	8,330.01	886.26	615,921.47	824,768.54	32.6898282	-103.4120567	8,322.29	0.00	0.00	0.00
17,400.00	90.00	359.52	9,570.00	8,430.00	885.41	616,021.47	824,767.69	32.6901031	-103.4120567	8,422.29	0.00	0.00	0.00
17,500.00	90.00	359.52	9,570.00	8,530.00	884.57	616,121.47	824,766.85	32.6903779	-103.4120566	8,522.29	0.00	0.00	0.00
17,600.00	90.00	359.52	9,570.00	8,629.99	883.72	616,221.46	824,766.00	32.6906527	-103.4120565	8,622.29	0.00	0.00	0.00
17,700.00	90.00	359.52	9,570.00	8,729.99	882.88	616,321.46	824,765.16	32.6909276	-103.4120564	8,722.29	0.00	0.00	0.00
17,800.00	90.00	359.52	9,570.00	8,829.99	882.03	616,421.46	824,764.31	32.6912024	-103.4120564	8,822.29	0.00	0.00	0.00
17,900.00	90.00	359.52	9,570.00	8,929.98	881.18	616,521.45	824,763.46	32.6914773	-103.4120563	8,922.29	0.00	0.00	0.00
18,000.00	90.00	359.52	9,570.00	9,029.98	880.34	616,621.45	824,762.62	32.6917521	-103.4120562	9,022.29	0.00	0.00	0.00
18,100.00	90.00	359.52	9,570.00	9,129.98	879.49	616,721.45	824,761.77	32.6920270	-103.4120562	9,122.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
18,200.00	90.00	359.52	9,570.00	9,229.97	878.65	616,821.44	824,760.93	32.6923018	-103.4120561	9,222.29	0.00	0.00	0.00
18,300.00	90.00	359.52	9,570.00	9,329.97	877.80	616,921.44	824,760.08	32.6925767	-103.4120560	9,322.29	0.00	0.00	0.00
18,400.00	90.00	359.52	9,570.00	9,429.97	876.95	617,021.44	824,759.23	32.6928515	-103.4120559	9,422.29	0.00	0.00	0.00
18,500.00	90.00	359.52	9,570.00	9,529.96	876.11	617,121.43	824,758.39	32.6931263	-103.4120559	9,522.29	0.00	0.00	0.00
18,600.00	90.00	359.52	9,570.00	9,629.96	875.26	617,221.43	824,757.54	32.6934012	-103.4120558	9,622.29	0.00	0.00	0.00
18,700.00	90.00	359.52	9,570.00	9,729.96	874.41	617,321.42	824,756.69	32.6936760	-103.4120557	9,722.29	0.00	0.00	0.00
18,800.00	90.00	359.52	9,570.00	9,829.95	873.57	617,421.42	824,755.85	32.6939509	-103.4120556	9,822.29	0.00	0.00	0.00
18,900.00	90.00	359.52	9,570.00	9,929.95	872.72	617,521.42	824,755.00	32.6942257	-103.4120556	9,922.29	0.00	0.00	0.00
19,000.00	90.00	359.52	9,570.00	10,029.94	871.88	617,621.41	824,754.16	32.6945006	-103.4120555	10,022.29	0.00	0.00	0.00
19,100.00	90.00	359.52	9,570.00	10,129.94	871.03	617,721.41	824,753.31	32.6947754	-103.4120554	10,122.29	0.00	0.00	0.00
19,200.00	90.00	359.52	9,570.00	10,229.94	870.18	617,821.41	824,752.46	32.6950503	-103.4120553	10,222.29	0.00	0.00	0.00
19,300.00	90.00	359.52	9,570.00	10,329.93	869.34	617,921.40	824,751.62	32.6953251	-103.4120553	10,322.29	0.00	0.00	0.00
19,400.00	90.00	359.52	9,570.00	10,429.93	868.49	618,021.40	824,750.77	32.6955999	-103.4120552	10,422.29	0.00	0.00	0.00
19,500.00	90.00	359.52	9,570.00	10,529.93	867.65	618,121.40	824,749.93	32.6958748	-103.4120551	10,522.29	0.00	0.00	0.00
19,600.00	90.00	359.52	9,570.00	10,629.92	866.80	618,221.39	824,749.08	32.6961496	-103.4120551	10,622.29	0.00	0.00	0.00
19,700.00	90.00	359.52	9,570.00	10,729.92	865.95	618,321.39	824,748.23	32.6964245	-103.4120550	10,722.29	0.00	0.00	0.00
19,800.00	90.00	359.52	9,570.00	10,829.92	865.11	618,421.39	824,747.39	32.6966993	-103.4120549	10,822.29	0.00	0.00	0.00
19,900.00	90.00	359.52	9,570.00	10,929.91	864.26	618,521.38	824,746.54	32.6969742	-103.4120548	10,922.29	0.00	0.00	0.00
20,000.00	90.00	359.52	9,570.00	11,029.91	863.42	618,621.38	824,745.70	32.6972490	-103.4120548	11,022.29	0.00	0.00	0.00
20,100.00	90.00	359.52	9,570.00	11,129.90	862.57	618,721.37	824,744.85	32.6975239	-103.4120547	11,122.29	0.00	0.00	0.00
20,200.00	90.00	359.52	9,570.00	11,229.90	861.72	618,821.37	824,744.00	32.6977987	-103.4120546	11,222.29	0.00	0.00	0.00
20,300.00	90.00	359.52	9,570.00	11,329.90	860.88	618,921.37	824,743.16	32.6980736	-103.4120545	11,322.29	0.00	0.00	0.00
20,400.00	90.00	359.52	9,570.00	11,429.89	860.03	619,021.36	824,742.31	32.6983484	-103.4120545	11,422.29	0.00	0.00	0.00
20,500.00	90.00	359.52	9,570.00	11,529.89	859.19	619,121.36	824,741.47	32.6986232	-103.4120544	11,522.29	0.00	0.00	0.00
20,600.00	90.00	359.52	9,570.00	11,629.89	858.34	619,221.36	824,740.62	32.6988981	-103.4120543	11,622.29	0.00	0.00	0.00
20,700.00	90.00	359.52	9,570.00	11,729.88	857.49	619,321.35	824,739.77	32.6991729	-103.4120542	11,722.29	0.00	0.00	0.00
20,800.00	90.00	359.52	9,570.00	11,829.88	856.65	619,421.35	824,738.93	32.6994478	-103.4120542	11,822.29	0.00	0.00	0.00
20,900.00	90.00	359.52	9,570.00	11,929.88	855.80	619,521.35	824,738.08	32.6997226	-103.4120541	11,922.29	0.00	0.00	0.00
21,000.00	90.00	359.52	9,570.00	12,029.87	854.96	619,621.34	824,737.24	32.6999975	-103.4120540	12,022.29	0.00	0.00	0.00
21,100.00	90.00	359.52	9,570.00	12,129.87	854.11	619,721.34	824,736.39	32.7002723	-103.4120540	12,122.29	0.00	0.00	0.00
21,200.00	90.00	359.52	9,570.00	12,229.87	853.26	619,821.34	824,735.54	32.7005472	-103.4120539	12,222.29	0.00	0.00	0.00
21,300.00	90.00	359.52	9,570.00	12,329.86	852.42	619,921.33	824,734.70	32.7008220	-103.4120538	12,322.29	0.00	0.00	0.00
21,400.00	90.00	359.52	9,570.00	12,429.86	851.57	620,021.33	824,733.85	32.7010968	-103.4120537	12,422.29	0.00	0.00	0.00
21,500.00	90.00	359.52	9,570.00	12,529.85	850.73	620,121.32	824,733.01	32.7013717	-103.4120537	12,522.29	0.00	0.00	0.00
21,600.00	90.00	359.52	9,570.00	12,629.85	849.88	620,221.32	824,732.16	32.7016465	-103.4120536	12,622.29	0.00	0.00	0.00
21,700.00	90.00	359.52	9,570.00	12,729.85	849.03	620,321.32	824,731.31	32.7019214	-103.4120535	12,722.29	0.00	0.00	0.00
21,800.00	90.00	359.52	9,570.00	12,829.84	848.19	620,421.31	824,730.47	32.7021962	-103.4120534	12,822.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
21,900.00	90.00	359.52	9,570.00	12,929.84	847.34	620,521.31	824,729.62	32.7024711	-103.4120534	12,922.29	0.00	0.00	0.00
22,000.00	90.00	359.52	9,570.00	13,029.84	846.50	620,621.31	824,728.78	32.7027459	-103.4120533	13,022.29	0.00	0.00	0.00
22,100.00	90.00	359.52	9,570.00	13,129.83	845.65	620,721.30	824,727.93	32.7030208	-103.4120532	13,122.29	0.00	0.00	0.00
22,200.00	90.00	359.52	9,570.00	13,229.83	844.80	620,821.30	824,727.08	32.7032956	-103.4120531	13,222.29	0.00	0.00	0.00
22,300.00	90.00	359.52	9,570.00	13,329.83	843.96	620,921.30	824,726.24	32.7035704	-103.4120531	13,322.29	0.00	0.00	0.00
22,400.00	90.00	359.52	9,570.00	13,429.82	843.11	621,021.29	824,725.39	32.7038453	-103.4120530	13,422.29	0.00	0.00	0.00
22,500.00	90.00	359.52	9,570.00	13,529.82	842.27	621,121.29	824,724.55	32.7041201	-103.4120529	13,522.29	0.00	0.00	0.00
22,600.00	90.00	359.52	9,570.00	13,629.82	841.42	621,221.29	824,723.70	32.7043950	-103.4120528	13,622.29	0.00	0.00	0.00
22,700.00	90.00	359.52	9,570.00	13,729.81	840.57	621,321.28	824,722.85	32.7046698	-103.4120528	13,722.29	0.00	0.00	0.00
22,800.00	90.00	359.52	9,570.00	13,829.81	839.73	621,421.28	824,722.01	32.7049447	-103.4120527	13,822.29	0.00	0.00	0.00
22,900.00	90.00	359.52	9,570.00	13,929.80	838.88	621,521.27	824,721.16	32.7052195	-103.4120526	13,922.29	0.00	0.00	0.00
23,000.00	90.00	359.52	9,570.00	14,029.80	838.03	621,621.27	824,720.31	32.7054944	-103.4120525	14,022.29	0.00	0.00	0.00
23,100.00	90.00	359.52	9,570.00	14,129.80	837.19	621,721.27	824,719.47	32.7057692	-103.4120525	14,122.29	0.00	0.00	0.00
23,200.00	90.00	359.52	9,570.00	14,229.79	836.34	621,821.26	824,718.62	32.7060440	-103.4120524	14,222.29	0.00	0.00	0.00
23,300.00	90.00	359.52	9,570.00	14,329.79	835.50	621,921.26	824,717.78	32.7063189	-103.4120523	14,322.29	0.00	0.00	0.00
23,400.00	90.00	359.52	9,570.00	14,429.79	834.65	622,021.26	824,716.93	32.7065937	-103.4120523	14,422.29	0.00	0.00	0.00
23,500.00	90.00	359.52	9,570.00	14,529.78	833.80	622,121.25	824,716.08	32.7068686	-103.4120522	14,522.29	0.00	0.00	0.00
23,600.00	90.00	359.52	9,570.00	14,629.78	832.96	622,221.25	824,715.24	32.7071434	-103.4120521	14,622.29	0.00	0.00	0.00
23,700.00	90.00	359.52	9,570.00	14,729.78	832.11	622,321.25	824,714.39	32.7074183	-103.4120520	14,722.29	0.00	0.00	0.00
23,800.00	90.00	359.52	9,570.00	14,829.77	831.27	622,421.24	824,713.55	32.7076931	-103.4120520	14,822.29	0.00	0.00	0.00
23,900.00	90.00	359.52	9,570.00	14,929.77	830.42	622,521.24	824,712.70	32.7079680	-103.4120519	14,922.29	0.00	0.00	0.00
24,000.00	90.00	359.52	9,570.00	15,029.77	829.57	622,621.24	824,711.85	32.7082428	-103.4120518	15,022.29	0.00	0.00	0.00
24,100.00	90.00	359.52	9,570.00	15,129.76	828.73	622,721.23	824,711.01	32.7085176	-103.4120517	15,122.29	0.00	0.00	0.00
24,200.00	90.00	359.52	9,570.00	15,229.76	827.88	622,821.23	824,710.16	32.7087925	-103.4120517	15,222.29	0.00	0.00	0.00
24,300.00	90.00	359.52	9,570.00	15,329.75	827.04	622,921.22	824,709.32	32.7090673	-103.4120516	15,322.29	0.00	0.00	0.00
24,400.00	90.00	359.52	9,570.00	15,429.75	826.19	623,021.22	824,708.47	32.7093422	-103.4120515	15,422.29	0.00	0.00	0.00
24,500.00	90.00	359.52	9,570.00	15,529.75	825.34	623,121.22	824,707.62	32.7096170	-103.4120514	15,522.29	0.00	0.00	0.00
24,600.00	90.00	359.52	9,570.00	15,629.74	824.50	623,221.21	824,706.78	32.7098919	-103.4120514	15,622.29	0.00	0.00	0.00
24,700.00	90.00	359.52	9,570.00	15,729.74	823.65	623,321.21	824,705.93	32.7101667	-103.4120513	15,722.29	0.00	0.00	0.00
24,800.00	90.00	359.52	9,570.00	15,829.74	822.81	623,421.21	824,705.09	32.7104416	-103.4120512	15,822.29	0.00	0.00	0.00
24,900.00	90.00	359.52	9,570.00	15,929.73	821.96	623,521.20	824,704.24	32.7107164	-103.4120511	15,922.29	0.00	0.00	0.00
25,000.00	90.00	359.52	9,570.00	16,029.73	821.11	623,621.20	824,703.39	32.7109912	-103.4120511	16,022.29	0.00	0.00	0.00
25,100.00	90.00	359.52	9,570.00	16,129.73	820.27	623,721.20	824,702.55	32.7112661	-103.4120510	16,122.29	0.00	0.00	0.00
25,200.00	90.00	359.52	9,570.00	16,229.72	819.42	623,821.19	824,701.70	32.7115409	-103.4120509	16,222.29	0.00	0.00	0.00
25,300.00	90.00	359.52	9,570.00	16,329.72	818.58	623,921.19	824,700.86	32.7118158	-103.4120508	16,322.29	0.00	0.00	0.00
25,400.00	90.00	359.52	9,570.00	16,429.72	817.73	624,021.19	824,700.01	32.7120906	-103.4120508	16,422.29	0.00	0.00	0.00
25,500.00	90.00	359.52	9,570.00	16,529.71	816.88	624,121.18	824,699.16	32.7123655	-103.4120507	16,522.29	0.00	0.00	0.00
25,600.00	90.00	359.52	9,570.00	16,629.71	816.04	624,221.18	824,698.32	32.7126403	-103.4120506	16,622.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
25,700.00	90.00	359.52	9,570.00	16,729.70	815.19	624,321.17	824,697.47	32.7129151	-103.4120505	16,722.29	0.00	0.00	0.00
25,800.00	90.00	359.52	9,570.00	16,829.70	814.35	624,421.17	824,696.63	32.7131900	-103.4120505	16,822.29	0.00	0.00	0.00
25,900.00	90.00	359.52	9,570.00	16,929.70	813.50	624,521.17	824,695.78	32.7134648	-103.4120504	16,922.29	0.00	0.00	0.00
26,000.00	90.00	359.52	9,570.00	17,029.69	812.65	624,621.16	824,694.93	32.7137397	-103.4120503	17,022.29	0.00	0.00	0.00
26,100.00	90.00	359.52	9,570.00	17,129.69	811.81	624,721.16	824,694.09	32.7140145	-103.4120502	17,122.29	0.00	0.00	0.00
26,200.00	90.00	359.52	9,570.00	17,229.69	810.96	624,821.16	824,693.24	32.7142894	-103.4120502	17,222.29	0.00	0.00	0.00
26,300.00	90.00	359.52	9,570.00	17,329.68	810.12	624,921.15	824,692.40	32.7145642	-103.4120501	17,322.29	0.00	0.00	0.00
26,400.00	90.00	359.52	9,570.00	17,429.68	809.27	625,021.15	824,691.55	32.7148391	-103.4120500	17,422.29	0.00	0.00	0.00
26,500.00	90.00	359.52	9,570.00	17,529.68	808.42	625,121.15	824,690.70	32.7151139	-103.4120499	17,522.29	0.00	0.00	0.00
26,600.00	90.00	359.52	9,570.00	17,629.67	807.58	625,221.14	824,689.86	32.7153887	-103.4120499	17,622.29	0.00	0.00	0.00
26,700.00	90.00	359.52	9,570.00	17,729.67	806.73	625,321.14	824,689.01	32.7156636	-103.4120498	17,722.29	0.00	0.00	0.00
26,800.00	90.00	359.52	9,570.00	17,829.67	805.89	625,421.13	824,688.17	32.7159384	-103.4120497	17,822.29	0.00	0.00	0.00
26,900.00	90.00	359.52	9,570.00	17,929.66	805.04	625,521.13	824,687.32	32.7162133	-103.4120496	17,922.29	0.00	0.00	0.00
27,000.00	90.00	359.52	9,570.00	18,029.66	804.19	625,621.13	824,686.47	32.7164881	-103.4120496	18,022.29	0.00	0.00	0.00
27,100.00	90.00	359.52	9,570.00	18,129.65	803.35	625,721.12	824,685.63	32.7167630	-103.4120495	18,122.29	0.00	0.00	0.00
27,200.00	90.00	359.52	9,570.00	18,229.65	802.50	625,821.12	824,684.78	32.7170378	-103.4120494	18,222.29	0.00	0.00	0.00
27,300.00	90.00	359.52	9,570.00	18,329.65	801.65	625,921.12	824,683.93	32.7173127	-103.4120493	18,322.29	0.00	0.00	0.00
27,400.00	90.00	359.52	9,570.00	18,429.64	800.81	626,021.11	824,683.09	32.7175875	-103.4120493	18,422.29	0.00	0.00	0.00
27,500.00	90.00	359.52	9,570.00	18,529.64	799.96	626,121.11	824,682.24	32.7178623	-103.4120492	18,522.29	0.00	0.00	0.00
27,600.00	90.00	359.52	9,570.00	18,629.64	799.12	626,221.11	824,681.40	32.7181372	-103.4120491	18,622.29	0.00	0.00	0.00
27,700.00	90.00	359.52	9,570.00	18,729.63	798.27	626,321.10	824,680.55	32.7184120	-103.4120490	18,722.29	0.00	0.00	0.00
27,800.00	90.00	359.52	9,570.00	18,829.63	797.42	626,421.10	824,679.70	32.7186869	-103.4120490	18,822.29	0.00	0.00	0.00
27,900.00	90.00	359.52	9,570.00	18,929.63	796.58	626,521.10	824,678.86	32.7189617	-103.4120489	18,922.29	0.00	0.00	0.00
28,000.00	90.00	359.52	9,570.00	19,029.62	795.73	626,621.09	824,678.01	32.7192366	-103.4120488	19,022.29	0.00	0.00	0.00
28,100.00	90.00	359.52	9,570.00	19,129.62	794.89	626,721.09	824,677.17	32.7195114	-103.4120487	19,122.29	0.00	0.00	0.00
28,200.00	90.00	359.52	9,570.00	19,229.62	794.04	626,821.08	824,676.32	32.7197862	-103.4120487	19,222.29	0.00	0.00	0.00
28,300.00	90.00	359.52	9,570.00	19,329.61	793.19	626,921.08	824,675.47	32.7200611	-103.4120486	19,322.29	0.00	0.00	0.00
28,400.00	90.00	359.52	9,570.00	19,429.61	792.35	627,021.08	824,674.63	32.7203359	-103.4120485	19,422.29	0.00	0.00	0.00
28,500.00	90.00	359.52	9,570.00	19,529.60	791.50	627,121.07	824,673.78	32.7206108	-103.4120484	19,522.29	0.00	0.00	0.00
28,600.00	90.00	359.52	9,570.00	19,629.60	790.66	627,221.07	824,672.94	32.7208856	-103.4120484	19,622.29	0.00	0.00	0.00
28,700.00	90.00	359.52	9,570.00	19,729.60	789.81	627,321.07	824,672.09	32.7211605	-103.4120483	19,722.29	0.00	0.00	0.00
28,800.00	90.00	359.52	9,570.00	19,829.59	788.96	627,421.06	824,671.24	32.7214353	-103.4120482	19,822.29	0.00	0.00	0.00
28,900.00	90.00	359.52	9,570.00	19,929.59	788.12	627,521.06	824,670.40	32.7217102	-103.4120481	19,922.29	0.00	0.00	0.00
29,000.00	90.00	359.52	9,570.00	20,029.59	787.27	627,621.06	824,669.55	32.7219850	-103.4120481	20,022.29	0.00	0.00	0.00
29,100.00	90.00	359.52	9,570.00	20,129.58	786.43	627,721.05	824,668.71	32.7222598	-103.4120480	20,122.29	0.00	0.00	0.00
29,200.00	90.00	359.52	9,570.00	20,229.58	785.58	627,821.05	824,667.86	32.7225347	-103.4120479	20,222.29	0.00	0.00	0.00
29,300.00	90.00	359.52	9,570.00	20,329.58	784.73	627,921.05	824,667.01	32.7228095	-103.4120478	20,322.29	0.00	0.00	0.00

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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)
29,400.00	90.00	359.52	9,570.00	20,429.57	783.89	628,021.04	824,666.17	32.7230844	-103.4120478	20,422.29	0.00	0.00	0.00
29,500.00	90.00	359.52	9,570.00	20,529.57	783.04	628,121.04	824,665.32	32.7233592	-103.4120477	20,522.29	0.00	0.00	0.00
29,600.00	90.00	359.52	9,570.00	20,629.57	782.20	628,221.03	824,664.48	32.7236341	-103.4120476	20,622.29	0.00	0.00	0.00
29,700.00	90.00	359.52	9,570.00	20,729.56	781.35	628,321.03	824,663.63	32.7239089	-103.4120475	20,722.29	0.00	0.00	0.00
29,800.00	90.00	359.52	9,570.00	20,829.56	780.50	628,421.03	824,662.78	32.7241837	-103.4120475	20,822.29	0.00	0.00	0.00
29,900.00	90.00	359.52	9,570.00	20,929.55	779.66	628,521.02	824,661.94	32.7244586	-103.4120474	20,922.29	0.00	0.00	0.00
30,000.00	90.00	359.52	9,570.00	21,029.55	778.81	628,621.02	824,661.09	32.7247334	-103.4120473	21,022.29	0.00	0.00	0.00
30,100.00	90.00	359.52	9,570.00	21,129.55	777.97	628,721.02	824,660.25	32.7250083	-103.4120472	21,122.29	0.00	0.00	0.00
30,200.00	90.00	359.52	9,570.00	21,229.54	777.12	628,821.01	824,659.40	32.7252831	-103.4120472	21,222.29	0.00	0.00	0.00
30,264.95	90.00	359.52	9,570.00	21,294.49	776.57	628,885.96	824,658.85	32.7254616	-103.4120471	21,287.24	0.00	0.00	0.00
TD - 30264.95' MD - LTP/PBHL - 100' FNL, 2242' FWL (Som St Com 222H)													

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 (Som St - plan hits target center - Point	0.00	0.00	9,068.85	423.43	953.15	608,014.90	824,835.43	32.6680966	-103.4120625
LTP/PBHL - 100' FNL, - plan hits target center - Point	0.00	0.00	9,570.00	21,294.49	776.57	628,885.96	824,658.85	32.7254616	-103.4120471

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,747.82	1,740.00	Rustler			
1,822.40	1,814.00	A3			
1,911.09	1,902.00	Tamarisk			
2,009.85	2,000.00	Top Salt			
3,116.42	3,098.00	Base Slt			
3,275.66	3,256.00	Yates			
3,692.89	3,670.00	Seven Rivers			
4,444.71	4,416.00	Queen			
5,744.78	5,706.00	Cherry Canyon			
5,960.45	5,920.00	Brushy Canyon			
7,361.30	7,310.00	Bone Spring			
9,163.07	9,098.00	1st Bone Spring Sand			
9,310.28	9,238.00	2nd Bone Spring Carbonate			
9,359.83	9,282.00	2nd Bone Spring Sand			
9,961.58	9,570.00	Target			

Total Directional

Planned Survey Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Well:	Sombrero State Com 222H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**Database:**	.Total Directional Production DB

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
500	500	0	0	Start Build 2.00
857	856	9	20	Hold - 856.79' MD/855.87' TVD
8936	8872	406	942	Start DLS 4.00 TFO -122.98
9134	9069	423	953	KOP - Start 10.00°/100' DLS
9962	9570	992	948	LP - 9961.58' MD
30,265	9570	21,294	777	TD - 30264.95' MD

Checked By: _____ Approved By: _____ Date: _____

Coterra Energy

Lea County, NM (NAD 83)
Sun-Sombrero Pad
Sombrero State Com 222H

320' FNL, 1283' FWL

OH
Plan #1

Total Directional
"Driven by TOTAL performance"

Anticollision Report

Minimum Magnetic Interference Warning level is 20' center to center

04 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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Reference	Plan #1		
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 3,312.47usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Well	Sombrero State Com 222H						
Well Position	**+N/-S**	0.00 usft	**Northing:**	607,591.47 usft	**Latitude:**	32.6669555	
	+E/-W	0.00 usft	**Easting:**	823,882.28 usft	**Longitude:**	-103.4151714	
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,746.70	usft
Grid Convergence:		0.50 °					

Survey Tool Program **Date** 3/4/2026

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	30,264.95	Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Expierimental: Summary Highlights: Sombrero State Com 222H

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
- - Sun-Sombrero Pad								
(O) Aberada Record 002 - P&A -	3,679.00	3,679.00	595,332.90	827,334.12	32.6331820	-103.4043040	0.00	0.00
(O) Blue Box Federal Com 505H -	3,802.90	3,828.90	615,321.84	822,280.64	32.6882393	-103.4201594	0.00	0.00
(O) Bryan 001 -	3,733.10	3,733.10	607,239.26	825,914.87	32.6659390	-103.4085770	0.00	0.00
(O) Coyote State 001 - P&A -	3,676.00	3,676.00	591,627.89	825,926.71	32.6230330	-103.4089800	0.00	0.00
(O) Haumea State 002H -	3,668.00	3,686.50	591,627.89	825,926.71	32.6230330	-103.4089800	0.00	0.00
(O) Northeast Pearl Queen Unit 011 -	3,716.50	3,716.50	607,601.21	826,515.09	32.6669194	-103.4066165	0.00	0.00
(O) Old Boy State 002H -	3,669.00	3,686.00	591,824.69	826,422.58	32.6235620	-103.4073640	0.00	0.00
(O) Record YW State 001 - P&A -	3,676.60	3,676.60	595,317.33	824,877.07	32.6331980	-103.4122850	0.00	0.00
(O) Rock Steady State #1 -	3,875.90	3,875.90	631,260.80	823,181.90	32.7320237	-103.4167824	0.00	0.00
(O) State 12 001 -	3,763.00	3,763.00	610,888.63	824,221.36	32.6760092	-103.4139769	0.00	0.00
(O) State Brine #1 - P&A -	3,853.00	3,853.00	617,735.14	827,135.60	32.6947560	-103.4043120	0.00	0.00
(O) State-Lea I 1-36 - P&A -	3,856.60	3,856.60	619,381.10	822,811.59	32.6993830	-103.4183200	0.00	0.00
(O) Sun State Com 502H -	3,708.20	3,738.20	599,528.98	825,267.52	32.6447639	-103.4108980	0.00	0.00
Sombrero State Com 221H -	3,746.80	3,773.30	607,591.32	823,842.28	32.6669561	-103.4153014	0.00	0.00
Sombrero State Com 223H -	3,739.20	3,762.20	607,601.13	826,495.09	32.6669197	-103.4066815	0.00	0.00
Sombrero State Com 224H -	3,739.00	3,762.00	607,601.29	826,535.08	32.6669191	-103.4065515	0.00	0.00
Sun Federal Com 224H -	3,738.90	3,761.90	607,601.37	826,555.08	32.6669189	-103.4064865	0.00	0.00
Sun State Com 221H -	3,746.80	3,773.30	607,591.39	823,862.28	32.6669558	-103.4152364	0.00	0.00

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Listing

Offset Customer - Project - Site Name Offset Well	Ground Level	KB Height	Map Coordinates Northing	 Easting	Geographical Coordinates Latitude	 Longitude	Surface Uncertainty Site	 Well
- - Sun-Sombrero Pad								
Sun State Com 223H -	3,739.30	3,762.30	607,601.21	826,515.09	32.6669194	-103.4066165	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
Sun-Sombrero Pad						
(O) Aberada Record 002 - P&A - OH - OH						Out of range
(O) Blue Box Federal Com 505H - OH - OH	9,500.00	16,806.84	2,174.24	2,016.93	13.82	SF
(O) Blue Box Federal Com 505H - OH - OH	10,600.00	15,744.00	2,135.67	1,993.26	15.00	ES
(O) Blue Box Federal Com 505H - OH - OH	16,524.07	9,845.00	2,112.77	2,024.11	23.83	CC
(O) Bryan 001 - OH - OH	9,028.64	8,925.72	1,325.33	1,109.61	6.14	CC, ES
(O) Bryan 001 - OH - OH	9,200.00	9,093.49	1,336.02	1,116.26	6.08	SF
(O) Coyote State 001 - P&A - OH - OH						Out of range
(O) Haumea State 002H - OH - OH						Out of range
(O) Old Boy State 002H - OH - OH						Out of range
(O) Record YW State 001 - P&A - OH - OH						Out of range
(O) Rock Steady State #1 - OH - OH	30,264.95	9,672.70	2,796.65	2,527.03	10.37	CC, ES, SF
(O) State 12 001 - OH - OH						Out of range
(O) State Brine #1 - P&A - OH - OH	19,093.57	9,649.80	2,382.32	2,005.01	6.31	CC
(O) State Brine #1 - P&A - OH - OH	19,100.00	9,649.80	2,382.33	2,004.96	6.31	ES
(O) State Brine #1 - P&A - OH - OH	19,200.00	9,649.80	2,384.69	2,006.54	6.31	SF
(O) State-Lea I 1-36 - P&A - OH - OH	20,776.06	9,654.10	1,927.61	1,648.17	6.90	CC, ES
(O) State-Lea I 1-36 - P&A - OH - OH	20,800.00	9,654.10	1,927.76	1,648.20	6.90	SF
(O) Sun State Com 502H - OH - OH						Out of range
Sombrero State Com 221H - OH - Plan #1	416.63	416.73	40.00	37.20	14.30	CC
Sombrero State Com 221H - OH - Plan #1	500.00	500.00	40.00	36.61	11.78	ES
Sombrero State Com 221H - OH - Plan #1	30,264.95	30,208.72	1,353.79	1,021.41	4.07	SF
Sombrero State Com 223H - OH - Plan #1	30,264.95	30,219.49	1,334.40	1,001.98	4.01	CC, ES, SF
Sombrero State Com 224H - OH - Plan #1	1,166.55	852.35	2,634.42	2,627.43	376.67	CC
Sombrero State Com 224H - OH - Plan #1	30,264.95	30,286.17	2,688.18	2,355.25	8.07	ES, SF
Sun Federal Com 224H - OH - Plan #1	1,153.23	836.68	2,655.18	2,648.29	385.57	CC
Sun Federal Com 224H - OH - Plan #1	1,200.00	861.75	2,655.37	2,648.23	371.83	ES
Sun Federal Com 224H - OH - Plan #1	9,500.00	9,286.34	2,769.26	2,701.22	40.70	SF
Sun State Com 221H - OH - Plan #1	500.00	500.10	20.00	16.61	5.89	CC, ES
Sun State Com 221H - OH - Plan #1	600.00	600.08	21.62	17.51	5.26	SF
Sun State Com 223H - OH - Plan #1	9,098.67	9,027.53	1,395.36	1,330.24	21.42	CC
Sun State Com 223H - OH - Plan #1	9,100.00	9,028.38	1,395.37	1,330.23	21.42	ES
Sun State Com 223H - OH - Plan #1	9,300.00	9,150.00	1,408.27	1,342.07	21.27	SF

Total Directional

Anticollision Report

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Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Blue Box Federal Com 505H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 169-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
7,100.00	7,050.72	16,970.94	9,697.10	25.87	125.68	-157.22	419.55	-1,201.21	3,279.25	3,165.03	114.22	28.709	
7,200.00	7,149.95	16,970.62	9,697.09	26.24	125.68	-157.21	419.86	-1,201.21	3,206.47	3,090.39	116.08	27.623	
7,300.00	7,249.17	16,970.31	9,697.07	26.61	125.67	-157.20	420.18	-1,201.21	3,135.18	3,017.18	118.00	26.570	
7,400.00	7,348.40	16,970.00	9,697.06	26.98	125.67	-157.20	420.49	-1,201.22	3,065.50	2,945.52	119.98	25.550	
7,500.00	7,447.62	16,969.69	9,697.04	27.35	125.66	-157.19	420.80	-1,201.22	2,997.53	2,875.51	122.02	24.565	
7,600.00	7,546.85	16,969.38	9,697.03	27.71	125.66	-157.18	421.11	-1,201.22	2,931.40	2,807.27	124.13	23.616	
7,700.00	7,646.07	16,969.07	9,697.02	28.08	125.65	-157.17	421.42	-1,201.23	2,867.23	2,740.95	126.28	22.705	
7,800.00	7,745.30	16,968.76	9,697.00	28.45	125.65	-157.16	421.72	-1,201.23	2,805.16	2,676.67	128.49	21.832	
7,900.00	7,844.52	16,968.45	9,696.99	28.82	125.64	-157.16	422.03	-1,201.23	2,745.33	2,614.60	130.74	20.999	
8,000.00	7,943.75	16,968.15	9,696.97	29.19	125.64	-157.15	422.34	-1,201.23	2,687.90	2,554.87	133.02	20.207	
8,100.00	8,042.98	16,967.84	9,696.96	29.56	125.63	-157.14	422.65	-1,201.24	2,633.00	2,497.68	135.32	19.457	
8,200.00	8,142.20	16,967.53	9,696.95	29.92	125.63	-157.13	422.95	-1,201.24	2,580.82	2,443.18	137.64	18.751	
8,300.00	8,241.43	16,967.23	9,696.93	30.29	125.62	-157.13	423.26	-1,201.24	2,531.51	2,391.56	139.95	18.089	
8,400.00	8,340.65	16,966.92	9,696.92	30.66	125.62	-157.12	423.56	-1,201.24	2,485.25	2,343.01	142.24	17.472	
8,500.00	8,439.88	16,966.62	9,696.90	31.03	125.61	-157.11	423.87	-1,201.25	2,442.21	2,297.72	144.49	16.902	
8,600.00	8,539.10	16,966.31	9,696.89	31.40	125.61	-157.10	424.17	-1,201.25	2,402.56	2,255.88	146.68	16.379	
8,700.00	8,638.33	16,966.01	9,696.88	31.77	125.60	-157.09	424.47	-1,201.25	2,366.48	2,217.68	148.79	15.904	
8,800.00	8,737.55	16,965.71	9,696.86	32.14	125.60	-157.09	424.78	-1,201.26	2,334.12	2,183.32	150.80	15.478	
8,900.00	8,836.78	16,965.40	9,696.85	32.51	125.59	-157.08	425.08	-1,201.26	2,305.66	2,152.97	152.68	15.101	
9,000.00	8,936.08	16,964.17	9,696.79	32.87	125.57	-136.91	426.32	-1,201.27	2,280.06	2,125.67	154.39	14.768	
9,100.00	9,035.51	16,958.69	9,696.54	33.23	125.48	-100.94	431.78	-1,201.32	2,253.35	2,097.51	155.84	14.459	
9,200.00	9,134.12	16,945.31	9,695.92	33.58	125.27	-92.86	445.15	-1,201.42	2,226.54	2,069.59	156.95	14.186	
9,300.00	9,228.64	16,914.65	9,694.50	33.93	124.76	-94.36	475.78	-1,201.63	2,204.22	2,046.66	157.56	13.990	
9,400.00	9,316.12	16,868.65	9,692.27	34.26	124.01	-95.03	521.72	-1,201.92	2,186.89	2,029.21	157.68	13.869	
9,500.00	9,393.91	16,806.84	9,689.16	34.55	123.00	-94.99	583.45	-1,202.26	2,174.24	2,016.93	157.31	13.821	SF
9,600.00	9,459.64	16,731.88	9,685.69	34.79	121.78	-94.49	658.34	-1,202.49	2,165.53	2,009.00	156.53	13.835	
9,700.00	9,511.32	16,656.25	9,683.97	34.99	120.55	-93.97	733.94	-1,202.68	2,160.08	2,004.46	155.62	13.880	
9,800.00	9,547.36	16,563.58	9,683.15	35.14	119.04	-93.38	826.61	-1,202.99	2,156.97	2,002.65	154.32	13.978	
9,900.00	9,566.69	16,455.30	9,680.99	35.27	117.27	-92.96	934.86	-1,203.16	2,155.07	2,002.39	152.68	14.115	
10,000.00	9,570.00	16,354.16	9,678.72	35.39	115.63	-92.89	1,035.98	-1,203.08	2,153.85	2,002.68	151.17	14.248	
10,100.00	9,570.00	16,228.36	9,675.62	35.54	113.58	-92.81	1,161.74	-1,202.26	2,152.26	2,003.06	149.19	14.426	
10,200.00	9,570.00	16,099.60	9,671.47	35.71	111.50	-92.71	1,290.40	-1,199.60	2,149.17	2,002.02	147.15	14.605	
10,300.00	9,570.00	16,000.45	9,667.84	35.91	109.90	-92.62	1,389.44	-1,196.94	2,145.47	1,999.73	145.74	14.721	
10,400.00	9,570.00	15,895.00	9,663.80	36.12	108.20	-92.51	1,494.78	-1,194.10	2,141.76	1,997.55	144.21	14.852	
10,500.00	9,570.00	15,806.30	9,660.73	36.34	106.77	-92.43	1,583.40	-1,191.78	2,138.16	1,995.12	143.04	14.948	
10,600.00	9,570.00	15,744.00	9,658.99	36.58	105.76	-92.39	1,645.67	-1,190.81	2,135.67	1,993.26	142.41	14.997	ES
10,700.00	9,570.00	15,667.63	9,658.12	36.84	104.52	-92.37	1,722.03	-1,190.95	2,134.89	1,993.40	141.49	15.088	
10,800.00	9,570.00	15,561.23	9,656.37	37.11	102.80	-92.32	1,828.41	-1,191.31	2,134.31	1,994.30	140.01	15.244	
10,892.53	9,570.00	15,484.91	9,655.25	37.37	101.56	-92.29	1,904.72	-1,191.48	2,133.73	1,994.66	139.07	15.343	
10,900.00	9,570.00	15,480.26	9,655.21	37.39	101.49	-92.29	1,909.38	-1,191.52	2,133.73	1,994.71	139.02	15.348	
11,000.00	9,570.00	15,413.69	9,655.20	37.69	100.41	-92.29	1,975.93	-1,192.79	2,134.74	1,996.44	138.31	15.435	
11,100.00	9,570.00	15,312.27	9,654.43	38.00	98.76	-92.27	2,077.31	-1,195.27	2,136.31	1,999.35	136.96	15.598	
11,200.00	9,570.00	15,228.52	9,651.46	38.32	97.40	-92.18	2,160.97	-1,197.80	2,138.35	2,002.42	135.93	15.731	
11,300.00	9,570.00	15,126.12	9,646.14	38.66	95.74	-92.04	2,263.17	-1,201.31	2,140.74	2,006.16	134.58	15.907	
11,400.00	9,570.00	15,007.25	9,639.40	39.00	93.82	-91.86	2,381.80	-1,204.73	2,142.58	2,009.63	132.94	16.117	
11,500.00	9,570.00	14,893.62	9,635.03	39.36	91.99	-91.74	2,495.32	-1,207.03	2,143.64	2,012.22	131.42	16.312	
11,600.00	9,570.00	14,793.03	9,634.79	39.73	90.37	-91.73	2,595.89	-1,208.59	2,144.33	2,014.17	130.16	16.475	
11,700.00	9,570.00	14,695.29	9,633.27	40.11	88.80	-91.69	2,693.60	-1,210.27	2,145.15	2,016.19	128.96	16.634	
11,800.00	9,570.00	14,604.46	9,630.40	40.50	87.34	-91.61	2,784.37	-1,212.05	2,146.18	2,018.29	127.89	16.782	
11,900.00	9,570.00	14,517.28	9,627.03	40.90	85.94	-91.52	2,871.46	-1,214.25	2,147.76	2,020.87	126.89	16.926	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Blue Box Federal Com 505H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 169-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
12,000.00	9,570.00	14,424.58	9,625.70	41.31	84.45	-91.49	2,964.10	-1,217.04	2,149.88	2,024.07	125.81	17.088	
12,100.00	9,570.00	14,327.18	9,623.03	41.74	82.89	-91.41	3,061.42	-1,220.17	2,152.17	2,027.52	124.65	17.265	
12,200.00	9,570.00	14,229.19	9,618.77	42.17	81.32	-91.30	3,159.26	-1,223.44	2,154.57	2,031.08	123.49	17.447	
12,300.00	9,570.00	14,094.62	9,612.58	42.61	79.17	-91.13	3,293.63	-1,227.20	2,156.49	2,034.79	121.70	17.720	
12,400.00	9,570.00	13,965.92	9,607.86	43.06	77.13	-91.01	3,422.23	-1,228.25	2,156.32	2,036.30	120.02	17.967	
12,500.00	9,570.00	13,869.76	9,604.41	43.52	75.61	-90.91	3,518.33	-1,228.76	2,155.93	2,037.00	118.94	18.127	
12,600.00	9,570.00	13,747.49	9,600.81	43.99	73.69	-90.82	3,640.54	-1,229.14	2,155.41	2,038.02	117.40	18.360	
12,700.00	9,570.00	13,641.61	9,599.55	44.46	72.02	-90.79	3,746.41	-1,228.39	2,153.83	2,037.65	116.18	18.539	
12,800.00	9,570.00	13,548.30	9,597.30	44.94	70.56	-90.73	3,839.70	-1,227.85	2,152.37	2,037.18	115.19	18.685	
12,900.00	9,570.00	13,446.00	9,594.01	45.44	68.97	-90.64	3,941.94	-1,227.36	2,151.01	2,036.96	114.05	18.860	
13,000.00	9,570.00	13,354.77	9,590.50	45.94	67.55	-90.55	4,033.10	-1,227.03	2,149.77	2,036.66	113.12	19.005	
13,100.00	9,570.00	13,242.21	9,586.28	46.44	65.81	-90.43	4,145.57	-1,226.46	2,148.37	2,036.57	111.81	19.215	
13,200.00	9,570.00	13,157.11	9,582.90	46.95	64.49	-90.34	4,230.61	-1,226.20	2,147.18	2,036.18	111.01	19.343	
13,300.00	9,570.00	13,058.38	9,579.20	47.47	62.98	-90.25	4,329.27	-1,226.20	2,146.32	2,036.35	109.97	19.517	
13,400.00	9,570.00	12,969.81	9,575.92	48.00	61.62	-90.16	4,417.78	-1,226.49	2,145.79	2,036.66	109.13	19.663	
13,500.00	9,570.00	12,881.00	9,572.33	48.54	60.26	-90.06	4,506.52	-1,227.06	2,145.60	2,037.31	108.28	19.814	
13,506.78	9,570.00	12,869.05	9,571.87	48.57	60.08	-90.05	4,518.45	-1,227.15	2,145.58	2,037.46	108.12	19.844	
13,600.00	9,570.00	12,798.40	9,570.16	49.07	59.00	-90.00	4,589.08	-1,228.13	2,146.09	2,038.52	107.57	19.951	
13,700.00	9,570.00	12,717.65	9,569.03	49.62	57.77	-89.97	4,669.80	-1,230.05	2,147.62	2,040.73	106.89	20.092	
13,800.00	9,570.00	12,622.65	9,566.49	50.17	56.33	-89.91	4,764.71	-1,232.93	2,149.80	2,043.83	105.97	20.287	
13,900.00	9,570.00	12,514.38	9,563.59	50.73	54.70	-89.83	4,872.91	-1,236.05	2,151.84	2,047.00	104.85	20.524	
14,000.00	9,570.00	12,421.46	9,560.90	51.29	53.32	-89.76	4,965.75	-1,238.62	2,153.78	2,049.79	103.99	20.711	
14,100.00	9,570.00	12,322.63	9,557.27	51.86	51.85	-89.66	5,064.47	-1,241.61	2,155.98	2,052.93	103.05	20.923	
14,200.00	9,570.00	12,229.82	9,553.33	52.43	50.49	-89.56	5,157.15	-1,244.55	2,158.33	2,056.12	102.21	21.117	
14,300.00	9,570.00	12,049.22	9,545.04	53.01	47.86	-89.34	5,337.50	-1,248.54	2,160.34	2,060.42	99.92	21.621	
14,400.00	9,570.00	11,954.16	9,540.85	53.59	46.52	-89.23	5,432.47	-1,247.82	2,158.81	2,059.72	99.09	21.786	
14,500.00	9,570.00	11,797.73	9,534.09	54.18	44.35	-89.05	5,588.74	-1,245.97	2,157.02	2,059.79	97.23	22.184	
14,600.00	9,570.00	11,685.08	9,530.84	54.77	42.83	-88.96	5,701.26	-1,241.89	2,152.53	2,056.37	96.16	22.385	
14,700.00	9,570.00	11,602.28	9,529.01	55.37	41.73	-88.91	5,784.01	-1,239.48	2,148.80	2,053.17	95.64	22.469	
14,800.00	9,570.00	11,516.82	9,528.62	55.97	40.61	-88.89	5,869.44	-1,237.62	2,145.79	2,050.70	95.09	22.565	
14,900.00	9,570.00	11,432.45	9,528.91	56.57	39.53	-88.90	5,953.80	-1,236.36	2,143.45	2,048.87	94.59	22.661	
15,000.00	9,570.00	11,349.25	9,528.59	57.18	38.48	-88.89	6,036.99	-1,235.78	2,141.91	2,047.80	94.11	22.759	
15,100.00	9,570.00	11,264.59	9,528.21	57.79	37.43	-88.88	6,121.66	-1,235.77	2,141.07	2,047.44	93.64	22.866	
15,143.52	9,570.00	11,230.76	9,528.31	58.06	37.02	-88.88	6,155.49	-1,235.99	2,140.97	2,047.49	93.48	22.902	
15,200.00	9,570.00	11,185.00	9,528.82	58.41	36.47	-88.90	6,201.24	-1,236.52	2,141.14	2,047.88	93.26	22.959	
15,300.00	9,570.00	11,100.74	9,529.53	59.03	35.47	-88.92	6,285.48	-1,238.03	2,142.06	2,049.22	92.84	23.073	
15,400.00	9,570.00	10,991.23	9,528.22	59.65	34.23	-88.88	6,394.96	-1,240.11	2,143.14	2,051.07	92.07	23.277	
15,500.00	9,570.00	10,867.27	9,524.52	60.27	32.91	-88.78	6,518.86	-1,241.36	2,143.36	2,052.22	91.13	23.519	
15,600.00	9,570.00	10,754.07	9,519.84	60.90	31.79	-88.66	6,631.96	-1,241.41	2,142.64	2,052.24	90.40	23.701	
15,700.00	9,570.00	10,629.50	9,510.88	61.54	30.65	-88.42	6,756.19	-1,240.53	2,141.30	2,051.75	89.56	23.910	
15,800.00	9,570.00	10,508.53	9,499.54	62.17	29.68	-88.11	6,876.59	-1,238.07	2,138.69	2,049.85	88.84	24.075	
15,900.00	9,570.00	10,398.32	9,489.72	62.81	28.89	-87.84	6,986.33	-1,235.17	2,135.52	2,047.17	88.35	24.170	
16,000.00	9,570.00	10,280.68	9,479.61	63.45	28.14	-87.57	7,103.46	-1,231.13	2,131.57	2,043.69	87.88	24.257	
16,100.00	9,570.00	10,176.54	9,474.34	64.10	27.56	-87.42	7,207.38	-1,227.15	2,127.12	2,039.44	87.69	24.258	
16,200.00	9,570.00	10,075.20	9,470.77	64.74	27.06	-87.32	7,308.59	-1,223.28	2,122.62	2,034.98	87.64	24.220	
16,300.00	9,570.00	9,969.99	9,464.11	65.39	26.62	-87.13	7,413.46	-1,218.95	2,117.96	2,030.31	87.65	24.164	
16,400.00	9,570.00	9,939.00	9,460.03	66.05	26.50	-87.02	7,444.14	-1,217.52	2,114.30	2,025.97	88.34	23.935	
16,500.00	9,570.00	9,845.00	9,441.65	66.70	26.19	-86.52	7,536.26	-1,215.97	2,112.91	2,024.47	88.44	23.891	
16,524.07	9,570.00	9,845.00	9,441.65	66.86	26.19	-86.52	7,536.26	-1,215.97	2,112.77	2,024.11	88.66	23.830	CC
16,600.00	9,570.00	9,796.57	9,428.61	67.36	26.09	-86.16	7,582.89	-1,216.35	2,113.80	2,024.80	89.00	23.751	
16,700.00	9,570.00	9,700.29	9,394.25	68.02	25.93	-85.23	7,672.73	-1,215.59	2,115.02	2,025.77	89.24	23.700	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Blue Box Federal Com 505H - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 169-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
16,800.00	9,570.00	9,631.25	9,360.47	68.68	25.88	-84.32	7,732.90	-1,214.72	2,117.84	2,028.17	89.66	23.620	
16,900.00	9,570.00	9,557.72	9,321.09	69.34	25.90	-83.25	7,794.99	-1,213.86	2,122.48	2,032.39	90.08	23.562	
17,000.00	9,570.00	9,468.87	9,271.35	70.01	25.96	-81.92	7,868.59	-1,212.55	2,128.60	2,038.12	90.48	23.526	
17,100.00	9,570.00	9,412.36	9,238.09	70.68	26.01	-81.02	7,914.26	-1,211.64	2,136.58	2,045.58	91.01	23.477	
17,200.00	9,570.00	9,374.00	9,214.32	71.35	26.05	-80.39	7,944.36	-1,211.13	2,147.26	2,055.73	91.53	23.460	
17,300.00	9,570.00	9,374.00	9,214.32	72.02	26.05	-80.39	7,944.36	-1,211.13	2,162.01	2,069.97	92.04	23.490	
17,400.00	9,570.00	9,334.95	9,188.82	72.69	26.02	-79.72	7,973.92	-1,211.65	2,179.67	2,087.40	92.27	23.623	
17,500.00	9,570.00	9,318.95	9,177.93	73.37	26.01	-79.43	7,985.61	-1,212.43	2,201.70	2,109.17	92.53	23.795	
17,600.00	9,570.00	9,280.00	9,150.39	74.05	25.98	-78.72	8,012.95	-1,215.69	2,228.08	2,135.45	92.63	24.053	
17,700.00	9,570.00	9,280.00	9,150.39	74.73	25.98	-78.72	8,012.95	-1,215.69	2,257.03	2,164.25	92.78	24.327	
17,800.00	9,570.00	9,280.00	9,150.39	75.41	25.98	-78.72	8,012.95	-1,215.69	2,289.98	2,197.16	92.82	24.670	
17,900.00	9,570.00	9,242.16	9,122.12	76.09	26.00	-78.01	8,037.77	-1,219.70	2,326.02	2,233.16	92.86	25.049	
18,000.00	9,570.00	9,217.85	9,103.08	76.78	26.02	-77.53	8,052.67	-1,222.18	2,365.10	2,272.30	92.81	25.485	
18,100.00	9,570.00	9,186.00	9,077.17	77.46	26.04	-76.88	8,070.92	-1,225.29	2,407.19	2,314.49	92.70	25.967	
18,200.00	9,570.00	9,186.00	9,077.17	78.15	26.04	-76.88	8,070.92	-1,225.29	2,452.11	2,359.62	92.48	26.515	
18,300.00	9,570.00	9,139.77	9,037.66	78.84	26.05	-75.88	8,094.64	-1,228.82	2,499.45	2,407.19	92.26	27.091	
18,400.00	9,570.00	9,115.41	9,016.00	79.53	26.05	-75.34	8,105.73	-1,229.96	2,549.43	2,457.46	91.97	27.721	
18,500.00	9,570.00	9,092.00	8,994.71	80.22	26.05	-74.81	8,115.44	-1,230.58	2,601.92	2,510.29	91.62	28.398	
18,600.00	9,570.00	9,092.00	8,994.71	80.92	26.05	-74.81	8,115.44	-1,230.58	2,656.94	2,565.70	91.24	29.120	
18,700.00	9,570.00	9,092.00	8,994.71	81.61	26.05	-74.81	8,115.44	-1,230.58	2,714.52	2,623.70	90.83	29.887	
18,800.00	9,570.00	9,051.30	8,956.94	82.31	26.13	-73.86	8,130.58	-1,231.12	2,773.70	2,683.21	90.49	30.652	
18,900.00	9,570.00	9,039.09	8,945.48	83.01	26.15	-73.58	8,134.77	-1,231.22	2,835.36	2,745.29	90.07	31.479	
19,000.00	9,570.00	8,998.00	8,906.46	83.70	26.22	-72.61	8,147.64	-1,231.37	2,899.48	2,809.78	89.71	32.322	
19,100.00	9,570.00	8,998.00	8,906.46	84.40	26.22	-72.61	8,147.64	-1,231.37	2,964.78	2,875.53	89.25	33.220	
19,200.00	9,570.00	8,998.00	8,906.46	85.11	26.22	-72.61	8,147.64	-1,231.37	3,031.96	2,943.18	88.78	34.151	
19,300.00	9,570.00	8,998.00	8,906.46	85.81	26.22	-72.61	8,147.64	-1,231.37	3,100.92	3,012.60	88.31	35.113	
19,400.00	9,570.00	8,998.00	8,906.46	86.51	26.22	-72.61	8,147.64	-1,231.37	3,171.52	3,083.68	87.85	36.104	
19,500.00	9,570.00	8,998.00	8,906.46	87.22	26.22	-72.61	8,147.64	-1,231.37	3,243.68	3,156.30	87.38	37.121	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Bryan 001 - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 150-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
0.00	0.00	0.00	40.10	0.00	0.00	99.83	-352.21	2,032.59	2,063.27				
100.00	100.00	59.90	100.00	0.26	1.06	99.83	-352.21	2,032.59	2,062.88	2,061.56	1.32	1,557.076	
200.00	200.00	159.90	200.00	0.62	2.83	99.83	-352.21	2,032.59	2,062.88	2,059.43	3.45	597.089	
264.61	264.61	224.51	264.60	0.85	3.98	99.83	-352.13	2,032.59	2,062.87	2,058.04	4.83	426.998	
300.00	300.00	259.54	299.64	0.98	4.60	99.83	-352.15	2,032.59	2,062.87	2,057.29	5.58	369.778	
400.00	400.00	359.90	400.00	1.34	6.40	99.83	-352.21	2,032.59	2,062.88	2,055.14	7.74	266.622	
500.00	500.00	459.90	500.00	1.70	8.33	99.83	-352.21	2,032.59	2,062.88	2,052.85	10.03	205.691	
600.00	599.98	559.88	599.98	2.05	10.26	33.20	-352.21	2,032.59	2,061.42	2,049.10	12.32	167.381	
700.00	699.84	659.14	699.24	2.41	12.18	33.31	-351.81	2,032.59	2,056.97	2,042.39	14.59	141.011	
800.00	799.45	758.05	798.14	2.76	14.10	33.53	-352.07	2,032.59	2,049.74	2,032.88	16.85	121.612	
900.00	898.74	858.69	898.74	3.12	16.10	33.78	-352.21	2,032.59	2,039.87	2,020.65	19.22	106.153	
1,000.00	997.97	957.91	997.97	3.48	18.11	33.98	-352.21	2,032.59	2,029.53	2,007.95	21.58	94.059	
1,100.00	1,097.19	1,056.69	1,096.74	3.84	20.10	34.15	-351.22	2,032.59	2,019.03	1,995.10	23.93	84.369	
1,200.00	1,196.42	1,154.54	1,194.58	4.20	22.08	34.35	-351.52	2,032.59	2,008.79	1,982.53	26.27	76.475	
1,300.00	1,295.65	1,252.36	1,292.39	4.56	24.06	34.57	-352.18	2,032.59	1,998.65	1,970.05	28.60	69.872	
1,400.00	1,394.87	1,354.87	1,394.87	4.93	26.02	34.78	-352.21	2,032.59	1,988.42	1,957.50	30.92	64.308	
1,500.00	1,494.10	1,454.09	1,494.10	5.29	27.91	34.98	-352.21	2,032.59	1,978.20	1,945.03	33.17	59.639	
1,600.00	1,593.32	1,552.79	1,592.78	5.66	29.79	35.16	-351.44	2,032.59	1,967.85	1,932.44	35.41	55.574	
1,700.00	1,692.55	1,650.97	1,690.96	6.02	31.65	35.38	-351.70	2,032.59	1,957.74	1,920.10	37.64	52.012	
1,800.00	1,791.77	1,751.80	1,791.77	6.39	33.57	35.61	-352.21	2,032.59	1,947.70	1,907.78	39.92	48.788	
1,900.00	1,891.00	1,851.02	1,891.00	6.75	35.46	35.82	-352.21	2,032.59	1,937.59	1,895.42	42.17	45.944	
2,000.00	1,990.22	1,950.25	1,990.22	7.12	37.35	36.04	-352.21	2,032.59	1,927.51	1,883.08	44.42	43.388	
2,100.00	2,089.45	2,049.07	2,089.05	7.48	39.23	36.24	-351.70	2,032.59	1,917.33	1,870.67	46.67	41.084	
2,200.00	2,188.67	2,147.56	2,187.53	7.85	41.11	36.46	-351.88	2,032.59	1,907.34	1,858.44	48.91	38.999	
2,300.00	2,287.90	2,247.96	2,287.90	8.22	43.04	36.70	-352.21	2,032.59	1,897.41	1,846.21	51.21	37.055	
2,400.00	2,387.13	2,347.18	2,387.13	8.58	45.34	36.92	-352.21	2,032.59	1,887.44	1,833.58	53.86	35.044	
2,500.00	2,486.35	2,446.41	2,486.35	8.95	47.63	37.15	-352.21	2,032.59	1,877.50	1,820.98	56.51	33.222	
2,600.00	2,585.58	2,544.99	2,584.93	9.32	49.90	37.35	-351.44	2,032.59	1,867.40	1,808.25	59.15	31.569	
2,700.00	2,684.80	2,643.05	2,682.99	9.69	52.17	37.59	-351.71	2,032.59	1,857.58	1,795.80	61.78	30.067	
2,800.00	2,784.03	2,744.24	2,784.03	10.05	54.53	37.84	-352.21	2,032.59	1,847.84	1,783.34	64.50	28.647	
2,900.00	2,883.25	2,838.58	2,878.36	10.42	57.09	38.06	-351.87	2,032.59	1,837.94	1,770.51	67.43	27.257	
3,000.00	2,982.48	2,940.71	2,980.41	10.79	60.01	38.30	-351.71	2,032.59	1,828.10	1,757.39	70.71	25.852	
3,100.00	3,081.70	3,042.08	3,081.70	11.15	63.02	38.56	-352.21	2,032.59	1,818.47	1,744.38	74.09	24.544	
3,200.00	3,180.93	3,141.42	3,180.93	11.52	65.97	38.81	-352.21	2,032.59	1,808.75	1,731.35	77.40	23.369	
3,300.00	3,280.15	3,240.72	3,280.15	11.89	68.75	39.05	-352.21	2,032.59	1,799.05	1,718.51	80.55	22.336	
3,400.00	3,379.38	3,335.61	3,375.03	12.26	71.10	39.28	-351.91	2,032.59	1,789.32	1,706.05	83.26	21.490	
3,500.00	3,478.61	3,439.21	3,478.61	12.62	73.39	39.56	-352.21	2,032.59	1,779.77	1,693.85	85.92	20.715	
3,600.00	3,577.83	3,538.18	3,577.56	12.99	75.50	39.78	-351.29	2,032.59	1,769.92	1,681.53	88.39	20.025	
3,700.00	3,677.06	3,634.33	3,673.70	13.36	77.55	40.04	-351.64	2,032.59	1,760.47	1,669.67	90.80	19.389	
3,800.00	3,776.28	3,736.94	3,776.28	13.73	79.66	40.33	-352.21	2,032.59	1,751.11	1,657.83	93.28	18.773	
3,900.00	3,875.51	3,836.17	3,875.51	14.09	81.60	40.59	-352.21	2,032.59	1,741.62	1,646.04	95.58	18.221	
4,000.00	3,974.73	3,935.07	3,974.41	14.46	83.54	40.84	-351.52	2,032.59	1,731.97	1,634.09	97.88	17.695	
4,100.00	4,073.96	4,032.76	4,072.09	14.83	85.45	41.11	-351.72	2,032.59	1,722.62	1,622.47	100.16	17.200	
4,200.00	4,173.18	4,133.88	4,173.18	15.20	87.42	41.40	-352.21	2,032.59	1,713.40	1,610.91	102.50	16.717	
4,300.00	4,272.41	4,233.11	4,272.41	15.56	89.37	41.68	-352.21	2,032.59	1,704.07	1,599.27	104.80	16.260	
4,400.00	4,371.63	4,332.33	4,371.63	15.93	91.31	41.96	-352.21	2,032.59	1,694.78	1,587.67	107.11	15.823	
4,500.00	4,470.86	4,430.57	4,469.86	16.30	93.23	42.21	-351.51	2,032.59	1,685.31	1,575.91	109.40	15.406	
4,600.00	4,570.08	4,528.31	4,567.60	16.67	95.14	42.50	-351.82	2,032.59	1,676.20	1,564.52	111.67	15.010	
4,700.00	4,669.31	4,630.05	4,669.31	17.04	97.14	42.81	-352.21	2,032.59	1,667.16	1,553.13	114.03	14.620	
4,800.00	4,768.54	4,729.27	4,768.54	17.40	99.08	43.10	-352.21	2,032.59	1,658.03	1,541.70	116.34	14.252	
4,900.00	4,867.76	4,828.50	4,867.76	17.77	101.03	43.39	-352.21	2,032.59	1,648.95	1,530.30	118.65	13.898	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Bryan 001 - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 150-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
5,000.00	4,966.99	4,926.56	4,965.81	18.14	102.95	43.66	-351.48	2,032.59	1,639.66	1,518.73	120.93	13.558	
5,100.00	5,066.21	5,024.32	5,063.57	18.51	104.86	43.97	-351.81	2,032.59	1,630.78	1,507.57	123.22	13.235	
5,200.00	5,165.44	5,126.22	5,165.44	18.88	106.86	44.30	-352.21	2,032.59	1,621.97	1,496.40	125.58	12.916	
5,300.00	5,264.66	5,225.44	5,264.66	19.24	108.81	44.60	-352.21	2,032.59	1,613.07	1,485.19	127.89	12.613	
5,400.00	5,363.89	5,324.67	5,363.89	19.61	110.75	44.91	-352.21	2,032.59	1,604.22	1,474.02	130.20	12.321	
5,500.00	5,463.11	5,422.65	5,461.86	19.98	112.67	45.20	-351.49	2,032.59	1,595.14	1,462.66	132.48	12.040	
5,600.00	5,562.34	5,520.34	5,559.55	20.35	114.59	45.52	-351.83	2,032.59	1,586.51	1,451.74	134.77	11.772	
5,700.00	5,661.56	5,622.39	5,661.56	20.72	116.62	45.86	-352.21	2,032.59	1,577.94	1,440.78	137.16	11.505	
5,800.00	5,760.79	5,721.61	5,760.79	21.08	118.65	46.19	-352.21	2,032.59	1,569.28	1,429.73	139.55	11.245	
5,900.00	5,860.02	5,820.84	5,860.02	21.45	120.68	46.52	-352.21	2,032.59	1,560.67	1,418.73	141.94	10.995	
6,000.00	5,959.24	5,918.75	5,957.92	21.82	122.68	46.82	-351.49	2,032.59	1,551.83	1,407.52	144.31	10.753	
6,100.00	6,058.47	6,016.38	6,055.55	22.19	124.68	47.16	-351.83	2,032.59	1,543.46	1,396.78	146.67	10.523	
6,200.00	6,157.69	6,118.57	6,157.69	22.56	126.79	47.52	-352.21	2,032.59	1,535.16	1,386.01	149.15	10.293	
6,300.00	6,256.92	6,217.80	6,256.92	22.93	128.90	47.86	-352.21	2,032.59	1,526.76	1,375.13	151.63	10.069	
6,400.00	6,356.14	6,317.02	6,356.14	23.29	131.01	48.21	-352.21	2,032.59	1,518.42	1,364.32	154.10	9.853	
6,500.00	6,455.37	6,414.48	6,453.58	23.66	133.09	48.52	-351.24	2,032.59	1,509.72	1,353.18	156.54	9.644	
6,600.00	6,554.59	6,511.53	6,550.63	24.03	135.15	48.88	-351.67	2,032.59	1,501.68	1,342.71	158.97	9.446	
6,700.00	6,653.82	6,614.78	6,653.82	24.40	137.29	49.27	-352.21	2,032.59	1,493.73	1,332.26	161.48	9.250	
6,800.00	6,753.04	6,714.00	6,753.04	24.77	139.24	49.63	-352.21	2,032.59	1,485.62	1,321.83	163.79	9.070	
6,900.00	6,852.27	6,813.23	6,852.27	25.14	141.19	50.00	-352.21	2,032.59	1,477.57	1,311.47	166.10	8.896	
7,000.00	6,951.50	6,910.59	6,949.62	25.50	143.10	50.33	-351.25	2,032.59	1,469.15	1,300.77	168.38	8.725	
7,100.00	7,050.72	7,007.53	7,046.56	25.87	145.00	50.71	-351.69	2,032.59	1,461.42	1,290.77	170.65	8.564	
7,200.00	7,149.95	7,110.95	7,149.95	26.24	147.01	51.12	-352.21	2,032.59	1,453.78	1,280.77	173.01	8.403	
7,300.00	7,249.17	7,210.17	7,249.17	26.61	148.87	51.50	-352.21	2,032.59	1,445.98	1,270.74	175.25	8.251	
7,400.00	7,348.40	7,309.40	7,348.40	26.98	150.74	51.88	-352.21	2,032.59	1,438.24	1,260.77	177.48	8.104	
7,500.00	7,447.62	7,407.61	7,446.61	27.35	152.59	52.25	-351.74	2,032.59	1,430.34	1,250.65	179.69	7.960	
7,600.00	7,546.85	7,505.64	7,544.63	27.71	154.44	52.65	-351.97	2,032.59	1,422.85	1,240.94	181.90	7.822	
7,700.00	7,646.07	7,607.10	7,646.07	28.08	156.38	53.07	-352.21	2,032.59	1,415.43	1,231.22	184.21	7.684	
7,800.00	7,745.30	7,706.33	7,745.30	28.45	158.33	53.47	-352.21	2,032.59	1,407.97	1,221.44	186.52	7.549	
7,900.00	7,844.52	7,804.81	7,843.78	28.82	160.26	53.85	-351.57	2,032.59	1,400.24	1,211.42	188.82	7.416	
8,000.00	7,943.75	7,901.80	7,940.77	29.19	162.17	54.26	-351.83	2,032.59	1,393.05	1,201.95	191.10	7.290	
8,100.00	8,042.98	8,004.04	8,042.98	29.56	164.20	54.70	-352.21	2,032.59	1,385.99	1,192.50	193.49	7.163	
8,200.00	8,142.20	8,103.27	8,142.20	29.92	166.23	55.12	-352.21	2,032.59	1,378.81	1,182.93	195.88	7.039	
8,300.00	8,241.43	8,202.24	8,241.17	30.29	168.25	55.52	-351.51	2,032.59	1,371.33	1,173.06	198.27	6.916	
8,400.00	8,340.65	8,299.34	8,338.26	30.66	170.24	55.94	-351.68	2,032.59	1,364.40	1,163.77	200.63	6.801	
8,500.00	8,439.88	8,396.40	8,435.33	31.03	172.22	56.38	-352.14	2,032.59	1,357.70	1,154.72	202.98	6.689	
8,600.00	8,539.10	8,500.22	8,539.10	31.40	174.35	56.84	-352.21	2,032.59	1,350.86	1,145.40	205.46	6.575	
8,700.00	8,638.33	8,599.29	8,638.17	31.77	176.37	57.25	-351.40	2,032.59	1,343.61	1,135.76	207.86	6.464	
8,800.00	8,737.55	8,695.18	8,734.05	32.14	178.33	57.69	-351.63	2,032.59	1,337.03	1,126.85	210.18	6.361	
8,900.00	8,836.78	8,797.94	8,836.78	32.51	180.43	58.17	-352.21	2,032.59	1,330.73	1,118.08	212.65	6.258	
9,000.00	8,936.08	8,897.24	8,936.08	32.87	182.46	79.14	-352.21	2,032.59	1,325.62	1,110.58	215.04	6.164	
9,028.64	8,964.56	8,925.72	8,964.56	32.97	183.05	90.00	-352.21	2,032.59	1,325.33	1,109.61	215.73	6.144	CC, ES
9,100.00	9,035.51	8,996.67	9,035.51	33.23	184.50	116.04	-352.21	2,032.59	1,327.13	1,109.70	217.43	6.104	
9,200.00	9,134.12	9,093.49	9,132.32	33.58	186.48	125.76	-351.55	2,032.59	1,336.02	1,116.26	219.75	6.080	SF
9,300.00	9,228.64	9,185.80	9,224.63	33.93	188.37	125.19	-351.88	2,032.59	1,355.69	1,133.72	221.97	6.107	
9,400.00	9,316.12	9,277.33	9,316.12	34.26	190.26	124.18	-352.21	2,032.59	1,385.87	1,161.69	224.18	6.182	
9,500.00	9,393.91	9,355.12	9,393.91	34.55	191.92	122.29	-352.21	2,032.59	1,426.35	1,200.23	226.12	6.308	
9,600.00	9,459.64	9,420.85	9,459.64	34.79	193.31	119.17	-352.21	2,032.59	1,476.98	1,249.21	227.77	6.484	
9,700.00	9,511.32	9,472.53	9,511.32	34.99	194.41	114.34	-352.21	2,032.59	1,536.98	1,307.89	229.09	6.709	
9,800.00	9,547.36	9,508.04	9,546.82	35.14	195.17	107.16	-351.12	2,032.59	1,604.18	1,374.17	230.02	6.974	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Bryan 001 - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 150-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
9,900.00	9,566.69	9,526.50	9,565.28	35.27	195.56	97.28	-351.14	2,032.59	1,678.32	1,447.78	230.54	7.280	
10,000.00	9,570.00	9,529.55	9,568.33	35.39	195.62	89.91	-351.14	2,032.59	1,756.30	1,525.58	230.71	7.612	
10,100.00	9,570.00	9,529.44	9,568.22	35.54	195.62	89.90	-351.14	2,032.59	1,836.49	1,605.68	230.81	7.957	
10,200.00	9,570.00	9,529.33	9,568.10	35.71	195.62	89.90	-351.14	2,032.59	1,918.54	1,687.64	230.90	8.309	
10,300.00	9,570.00	9,529.21	9,567.99	35.91	195.62	89.89	-351.14	2,032.59	2,002.22	1,771.23	230.99	8.668	
10,400.00	9,570.00	9,529.10	9,567.88	36.12	195.61	89.89	-351.14	2,032.59	2,087.34	1,856.27	231.07	9.033	
10,500.00	9,570.00	9,528.99	9,567.77	36.34	195.61	89.88	-351.14	2,032.59	2,173.73	1,942.58	231.15	9.404	
10,600.00	9,570.00	9,528.88	9,567.65	36.58	195.61	89.87	-351.14	2,032.59	2,261.24	2,030.01	231.23	9.779	
10,700.00	9,570.00	9,528.77	9,567.54	36.84	195.61	89.87	-351.14	2,032.59	2,349.75	2,118.44	231.31	10.159	
10,800.00	9,570.00	9,528.66	9,567.44	37.11	195.60	89.86	-351.14	2,032.59	2,439.15	2,207.77	231.38	10.542	
10,900.00	9,570.00	9,528.55	9,567.33	37.39	195.60	89.86	-351.14	2,032.59	2,529.33	2,297.89	231.45	10.928	
11,000.00	9,570.00	9,528.44	9,567.22	37.69	195.60	89.85	-351.14	2,032.59	2,620.24	2,388.72	231.51	11.318	
11,100.00	9,570.00	9,528.34	9,567.11	38.00	195.60	89.85	-351.14	2,032.59	2,711.78	2,480.20	231.58	11.710	
11,200.00	9,570.00	9,528.23	9,567.01	38.32	195.60	89.84	-351.14	2,032.59	2,803.90	2,572.26	231.64	12.105	
11,300.00	9,570.00	9,528.12	9,566.90	38.66	195.59	89.83	-351.14	2,032.59	2,896.54	2,664.84	231.70	12.501	
11,400.00	9,570.00	9,528.02	9,566.79	39.00	195.59	89.83	-351.14	2,032.59	2,989.66	2,757.90	231.76	12.900	
11,500.00	9,570.00	9,527.91	9,566.69	39.36	195.59	89.82	-351.14	2,032.59	3,083.21	2,851.39	231.81	13.300	
11,600.00	9,570.00	9,527.81	9,566.59	39.73	195.59	89.82	-351.14	2,032.59	3,177.15	2,945.28	231.87	13.702	
11,700.00	9,570.00	9,527.71	9,566.48	40.11	195.58	89.81	-351.14	2,032.59	3,271.45	3,039.52	231.93	14.106	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) Rock Steady State #1 - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 12000-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
29,700.00	9,570.00	9,672.70	9,570.00	162.22	168.82	-90.00	23,669.33	-700.38	3,292.08	3,034.61	257.47	12.786	
29,800.00	9,570.00	9,672.70	9,570.00	162.97	168.82	-90.00	23,669.33	-700.38	3,202.71	2,943.36	259.35	12.349	
29,900.00	9,570.00	9,672.70	9,570.00	163.72	168.82	-90.00	23,669.33	-700.38	3,113.98	2,852.64	261.34	11.916	
30,000.00	9,570.00	9,672.70	9,570.00	164.48	168.82	-90.00	23,669.33	-700.38	3,025.96	2,762.52	263.44	11.486	
30,100.00	9,570.00	9,672.70	9,570.00	165.23	168.82	-90.00	23,669.33	-700.38	2,938.71	2,673.04	265.67	11.062	
30,200.00	9,570.00	9,672.70	9,570.00	165.98	168.82	-90.00	23,669.33	-700.38	2,852.29	2,584.27	268.02	10.642	
30,264.95	9,570.00	9,672.70	9,570.00	166.47	168.82	-90.00	23,669.33	-700.38	2,796.65	2,527.03	269.62	10.373	CC, ES, SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) State Brine #1 - P&A - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 12200-2_Assumed Vertical

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
16,800.00	9,570.00	9,649.80	9,570.00	68.68	293.05	90.00	10,143.66	3,253.32	3,306.94	2,960.05	346.89	9.533	
16,900.00	9,570.00	9,649.80	9,570.00	69.34	293.05	90.00	10,143.66	3,253.32	3,238.39	2,890.38	348.01	9.305	
17,000.00	9,570.00	9,649.80	9,570.00	70.01	293.05	90.00	10,143.66	3,253.32	3,171.51	2,822.33	349.18	9.083	
17,100.00	9,570.00	9,649.80	9,570.00	70.68	293.05	90.00	10,143.66	3,253.32	3,106.40	2,756.01	350.40	8.865	
17,200.00	9,570.00	9,649.80	9,570.00	71.35	293.05	90.00	10,143.66	3,253.32	3,043.19	2,691.53	351.66	8.654	
17,300.00	9,570.00	9,649.80	9,570.00	72.02	293.05	90.00	10,143.66	3,253.32	2,982.00	2,629.03	352.97	8.448	
17,400.00	9,570.00	9,649.80	9,570.00	72.69	293.05	90.00	10,143.66	3,253.32	2,922.94	2,568.62	354.33	8.249	
17,500.00	9,570.00	9,649.80	9,570.00	73.37	293.05	90.00	10,143.66	3,253.32	2,866.16	2,510.44	355.72	8.057	
17,600.00	9,570.00	9,649.80	9,570.00	74.05	293.05	90.00	10,143.66	3,253.32	2,811.79	2,454.64	357.15	7.873	
17,700.00	9,570.00	9,649.80	9,570.00	74.73	293.05	90.00	10,143.66	3,253.32	2,759.98	2,401.36	358.61	7.696	
17,800.00	9,570.00	9,649.80	9,570.00	75.41	293.05	90.00	10,143.66	3,253.32	2,710.86	2,350.76	360.10	7.528	
17,900.00	9,570.00	9,649.80	9,570.00	76.09	293.05	90.00	10,143.66	3,253.32	2,664.59	2,302.98	361.61	7.369	
18,000.00	9,570.00	9,649.80	9,570.00	76.78	293.05	90.00	10,143.66	3,253.32	2,621.32	2,258.20	363.12	7.219	
18,100.00	9,570.00	9,649.80	9,570.00	77.46	293.05	90.00	10,143.66	3,253.32	2,581.20	2,216.57	364.64	7.079	
18,200.00	9,570.00	9,649.80	9,570.00	78.15	293.05	90.00	10,143.66	3,253.32	2,544.39	2,178.24	366.14	6.949	
18,300.00	9,570.00	9,649.80	9,570.00	78.84	293.05	90.00	10,143.66	3,253.32	2,511.01	2,143.38	367.63	6.830	
18,400.00	9,570.00	9,649.80	9,570.00	79.53	293.05	90.00	10,143.66	3,253.32	2,481.22	2,112.14	369.08	6.723	
18,500.00	9,570.00	9,649.80	9,570.00	80.22	293.05	90.00	10,143.66	3,253.32	2,455.15	2,084.66	370.49	6.627	
18,600.00	9,570.00	9,649.80	9,570.00	80.92	293.05	90.00	10,143.66	3,253.32	2,432.91	2,061.06	371.84	6.543	
18,700.00	9,570.00	9,649.80	9,570.00	81.61	293.05	90.00	10,143.66	3,253.32	2,414.61	2,041.48	373.13	6.471	
18,800.00	9,570.00	9,649.80	9,570.00	82.31	293.05	90.00	10,143.66	3,253.32	2,400.34	2,026.01	374.33	6.412	
18,900.00	9,570.00	9,649.80	9,570.00	83.01	293.05	90.00	10,143.66	3,253.32	2,390.17	2,014.72	375.44	6.366	
19,000.00	9,570.00	9,649.80	9,570.00	83.70	293.05	90.00	10,143.66	3,253.32	2,384.15	2,007.70	376.46	6.333	
19,093.57	9,570.00	9,649.80	9,570.00	84.36	293.05	90.00	10,143.66	3,253.32	2,382.32	2,005.01	377.31	6.314	CC
19,100.00	9,570.00	9,649.80	9,570.00	84.40	293.05	90.00	10,143.66	3,253.32	2,382.33	2,004.96	377.36	6.313	ES
19,200.00	9,570.00	9,649.80	9,570.00	85.11	293.05	90.00	10,143.66	3,253.32	2,384.69	2,006.54	378.15	6.306	SF
19,300.00	9,570.00	9,649.80	9,570.00	85.81	293.05	90.00	10,143.66	3,253.32	2,391.24	2,012.42	378.83	6.312	
19,400.00	9,570.00	9,649.80	9,570.00	86.51	293.05	90.00	10,143.66	3,253.32	2,401.94	2,022.56	379.38	6.331	
19,500.00	9,570.00	9,649.80	9,570.00	87.22	293.05	90.00	10,143.66	3,253.32	2,416.74	2,036.92	379.81	6.363	
19,600.00	9,570.00	9,649.80	9,570.00	87.92	293.05	90.00	10,143.66	3,253.32	2,435.55	2,055.42	380.13	6.407	
19,700.00	9,570.00	9,649.80	9,570.00	88.63	293.05	90.00	10,143.66	3,253.32	2,458.29	2,077.96	380.33	6.464	
19,800.00	9,570.00	9,649.80	9,570.00	89.34	293.05	90.00	10,143.66	3,253.32	2,484.85	2,104.42	380.43	6.532	
19,900.00	9,570.00	9,649.80	9,570.00	90.05	293.05	90.00	10,143.66	3,253.32	2,515.11	2,134.69	380.42	6.611	
20,000.00	9,570.00	9,649.80	9,570.00	90.76	293.05	90.00	10,143.66	3,253.32	2,548.93	2,168.62	380.32	6.702	
20,100.00	9,570.00	9,649.80	9,570.00	91.47	293.05	90.00	10,143.66	3,253.32	2,586.18	2,206.05	380.13	6.803	
20,200.00	9,570.00	9,649.80	9,570.00	92.18	293.05	90.00	10,143.66	3,253.32	2,626.72	2,246.85	379.86	6.915	
20,300.00	9,570.00	9,649.80	9,570.00	92.89	293.05	90.00	10,143.66	3,253.32	2,670.38	2,290.85	379.53	7.036	
20,400.00	9,570.00	9,649.80	9,570.00	93.60	293.05	90.00	10,143.66	3,253.32	2,717.02	2,337.89	379.14	7.166	
20,500.00	9,570.00	9,649.80	9,570.00	94.32	293.05	90.00	10,143.66	3,253.32	2,766.49	2,387.80	378.69	7.305	
20,600.00	9,570.00	9,649.80	9,570.00	95.03	293.05	90.00	10,143.66	3,253.32	2,818.65	2,440.45	378.20	7.453	
20,700.00	9,570.00	9,649.80	9,570.00	95.75	293.05	90.00	10,143.66	3,253.32	2,873.34	2,495.66	377.68	7.608	
20,800.00	9,570.00	9,649.80	9,570.00	96.47	293.05	90.00	10,143.66	3,253.32	2,930.42	2,553.29	377.12	7.770	
20,900.00	9,570.00	9,649.80	9,570.00	97.19	293.05	90.00	10,143.66	3,253.32	2,989.76	2,613.21	376.55	7.940	
21,000.00	9,570.00	9,649.80	9,570.00	97.90	293.05	90.00	10,143.66	3,253.32	3,051.22	2,675.26	375.96	8.116	
21,100.00	9,570.00	9,649.80	9,570.00	98.62	293.05	90.00	10,143.66	3,253.32	3,114.68	2,739.32	375.36	8.298	
21,200.00	9,570.00	9,649.80	9,570.00	99.34	293.05	90.00	10,143.66	3,253.32	3,180.02	2,805.27	374.75	8.486	
21,300.00	9,570.00	9,649.80	9,570.00	100.06	293.05	90.00	10,143.66	3,253.32	3,247.12	2,872.99	374.13	8.679	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) State-Lea I 1-36 - P&A - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 103-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
18,100.00	9,570.00	9,654.10	9,570.00	77.46	183.24	-90.00	11,789.63	-1,070.69	3,298.03	3,057.32	240.71	13.701	
18,200.00	9,570.00	9,654.10	9,570.00	78.15	183.24	-90.00	11,789.63	-1,070.69	3,217.42	2,975.62	241.80	13.306	
18,300.00	9,570.00	9,654.10	9,570.00	78.84	183.24	-90.00	11,789.63	-1,070.69	3,137.92	2,894.98	242.94	12.916	
18,400.00	9,570.00	9,654.10	9,570.00	79.53	183.24	-90.00	11,789.63	-1,070.69	3,059.63	2,815.49	244.14	12.532	
18,500.00	9,570.00	9,654.10	9,570.00	80.22	183.24	-90.00	11,789.63	-1,070.69	2,982.64	2,737.24	245.40	12.154	
18,600.00	9,570.00	9,654.10	9,570.00	80.92	183.24	-90.00	11,789.63	-1,070.69	2,907.05	2,660.33	246.71	11.783	
18,700.00	9,570.00	9,654.10	9,570.00	81.61	183.24	-90.00	11,789.63	-1,070.69	2,832.97	2,584.88	248.09	11.419	
18,800.00	9,570.00	9,654.10	9,570.00	82.31	183.24	-90.00	11,789.63	-1,070.69	2,760.52	2,510.99	249.53	11.063	
18,900.00	9,570.00	9,654.10	9,570.00	83.01	183.24	-90.00	11,789.63	-1,070.69	2,689.85	2,438.82	251.03	10.715	
19,000.00	9,570.00	9,654.10	9,570.00	83.70	183.24	-90.00	11,789.63	-1,070.69	2,621.08	2,368.50	252.59	10.377	
19,100.00	9,570.00	9,654.10	9,570.00	84.40	183.24	-90.00	11,789.63	-1,070.69	2,554.38	2,300.18	254.20	10.049	
19,200.00	9,570.00	9,654.10	9,570.00	85.11	183.24	-90.00	11,789.63	-1,070.69	2,489.91	2,234.04	255.87	9.731	
19,300.00	9,570.00	9,654.10	9,570.00	85.81	183.24	-90.00	11,789.63	-1,070.69	2,427.85	2,170.26	257.58	9.426	
19,400.00	9,570.00	9,654.10	9,570.00	86.51	183.24	-90.00	11,789.63	-1,070.69	2,368.38	2,109.04	259.34	9.132	
19,500.00	9,570.00	9,654.10	9,570.00	87.22	183.24	-90.00	11,789.63	-1,070.69	2,311.71	2,050.59	261.12	8.853	
19,600.00	9,570.00	9,654.10	9,570.00	87.92	183.24	-90.00	11,789.63	-1,070.69	2,258.05	1,995.12	262.93	8.588	
19,700.00	9,570.00	9,654.10	9,570.00	88.63	183.24	-90.00	11,789.63	-1,070.69	2,207.62	1,942.87	264.75	8.339	
19,800.00	9,570.00	9,654.10	9,570.00	89.34	183.24	-90.00	11,789.63	-1,070.69	2,160.64	1,894.09	266.55	8.106	
19,900.00	9,570.00	9,654.10	9,570.00	90.05	183.24	-90.00	11,789.63	-1,070.69	2,117.35	1,849.01	268.33	7.891	
20,000.00	9,570.00	9,654.10	9,570.00	90.76	183.24	-90.00	11,789.63	-1,070.69	2,077.97	1,807.90	270.07	7.694	
20,100.00	9,570.00	9,654.10	9,570.00	91.47	183.24	-90.00	11,789.63	-1,070.69	2,042.73	1,771.00	271.73	7.517	
20,200.00	9,570.00	9,654.10	9,570.00	92.18	183.24	-90.00	11,789.63	-1,070.69	2,011.85	1,738.54	273.30	7.361	
20,300.00	9,570.00	9,654.10	9,570.00	92.89	183.24	-90.00	11,789.63	-1,070.69	1,985.53	1,710.77	274.76	7.226	
20,400.00	9,570.00	9,654.10	9,570.00	93.60	183.24	-90.00	11,789.63	-1,070.69	1,963.95	1,687.88	276.08	7.114	
20,500.00	9,570.00	9,654.10	9,570.00	94.32	183.24	-90.00	11,789.63	-1,070.69	1,947.28	1,670.05	277.23	7.024	
20,600.00	9,570.00	9,654.10	9,570.00	95.03	183.24	-90.00	11,789.63	-1,070.69	1,935.63	1,657.43	278.21	6.958	
20,700.00	9,570.00	9,654.10	9,570.00	95.75	183.24	-90.00	11,789.63	-1,070.69	1,929.11	1,650.13	278.99	6.915	
20,776.06	9,570.00	9,654.10	9,570.00	96.30	183.24	-90.00	11,789.63	-1,070.69	1,927.61	1,648.17	279.44	6.898	CC, ES
20,800.00	9,570.00	9,654.10	9,570.00	96.47	183.24	-90.00	11,789.63	-1,070.69	1,927.76	1,648.20	279.56	6.896	SF
20,900.00	9,570.00	9,654.10	9,570.00	97.19	183.24	-90.00	11,789.63	-1,070.69	1,931.59	1,651.67	279.92	6.901	
21,000.00	9,570.00	9,654.10	9,570.00	97.90	183.24	-90.00	11,789.63	-1,070.69	1,940.58	1,660.51	280.07	6.929	
21,100.00	9,570.00	9,654.10	9,570.00	98.62	183.24	-90.00	11,789.63	-1,070.69	1,954.64	1,674.63	280.01	6.981	
21,200.00	9,570.00	9,654.10	9,570.00	99.34	183.24	-90.00	11,789.63	-1,070.69	1,973.68	1,693.92	279.76	7.055	
21,300.00	9,570.00	9,654.10	9,570.00	100.06	183.24	-90.00	11,789.63	-1,070.69	1,997.55	1,718.23	279.32	7.152	
21,400.00	9,570.00	9,654.10	9,570.00	100.79	183.24	-90.00	11,789.63	-1,070.69	2,026.08	1,747.36	278.71	7.269	
21,500.00	9,570.00	9,654.10	9,570.00	101.51	183.24	-90.00	11,789.63	-1,070.69	2,059.07	1,781.11	277.96	7.408	
21,600.00	9,570.00	9,654.10	9,570.00	102.23	183.24	-90.00	11,789.63	-1,070.69	2,096.32	1,819.23	277.09	7.566	
21,700.00	9,570.00	9,654.10	9,570.00	102.95	183.24	-90.00	11,789.63	-1,070.69	2,137.60	1,861.50	276.11	7.742	
21,800.00	9,570.00	9,654.10	9,570.00	103.68	183.24	-90.00	11,789.63	-1,070.69	2,182.69	1,907.65	275.04	7.936	
21,900.00	9,570.00	9,654.10	9,570.00	104.40	183.24	-90.00	11,789.63	-1,070.69	2,231.35	1,957.44	273.91	8.146	
22,000.00	9,570.00	9,654.10	9,570.00	105.13	183.24	-90.00	11,789.63	-1,070.69	2,283.36	2,010.62	272.74	8.372	
22,100.00	9,570.00	9,654.10	9,570.00	105.86	183.24	-90.00	11,789.63	-1,070.69	2,338.48	2,066.95	271.54	8.612	
22,200.00	9,570.00	9,654.10	9,570.00	106.58	183.24	-90.00	11,789.63	-1,070.69	2,396.52	2,126.20	270.31	8.866	
22,300.00	9,570.00	9,654.10	9,570.00	107.31	183.24	-90.00	11,789.63	-1,070.69	2,457.25	2,188.16	269.09	9.132	
22,400.00	9,570.00	9,654.10	9,570.00	108.04	183.24	-90.00	11,789.63	-1,070.69	2,520.49	2,252.62	267.87	9.409	
22,500.00	9,570.00	9,654.10	9,570.00	108.77	183.24	-90.00	11,789.63	-1,070.69	2,586.05	2,319.38	266.67	9.698	
22,600.00	9,570.00	9,654.10	9,570.00	109.50	183.24	-90.00	11,789.63	-1,070.69	2,653.76	2,388.28	265.49	9.996	
22,700.00	9,570.00	9,654.10	9,570.00	110.22	183.24	-90.00	11,789.63	-1,070.69	2,723.46	2,459.13	264.33	10.303	
22,800.00	9,570.00	9,654.10	9,570.00	110.96	183.24	-90.00	11,789.63	-1,070.69	2,795.00	2,531.79	263.21	10.619	
22,900.00	9,570.00	9,654.10	9,570.00	111.69	183.24	-90.00	11,789.63	-1,070.69	2,868.24	2,606.12	262.12	10.942	
23,000.00	9,570.00	9,654.10	9,570.00	112.42	183.24	-90.00	11,789.63	-1,070.69	2,943.06	2,681.99	261.07	11.273	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - (O) State-Lea I 1-36 - P&A - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 103-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
23,100.00	9,570.00	9,654.10	9,570.00	113.15	183.24	-90.00	11,789.63	-1,070.69	3,019.34	2,759.28	260.06	11.610	
23,200.00	9,570.00	9,654.10	9,570.00	113.88	183.24	-90.00	11,789.63	-1,070.69	3,096.96	2,837.88	259.08	11.954	
23,300.00	9,570.00	9,654.10	9,570.00	114.61	183.24	-90.00	11,789.63	-1,070.69	3,175.84	2,917.69	258.15	12.302	
23,400.00	9,570.00	9,654.10	9,570.00	115.35	183.24	-90.00	11,789.63	-1,070.69	3,255.88	2,998.62	257.25	12.656	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
0.00	0.00	0.10	0.00	0.00	0.00	-90.21	-0.15	-40.00	40.00				
100.00	100.00	100.10	100.00	0.26	0.26	-90.21	-0.15	-40.00	40.00	39.47	0.53	75.857	
200.00	200.00	200.10	200.00	0.62	0.62	-90.21	-0.15	-40.00	40.00	38.76	1.24	32.148	
300.00	300.00	300.10	300.00	0.98	0.98	-90.21	-0.15	-40.00	40.00	38.04	1.96	20.396	
400.00	400.00	400.10	400.00	1.34	1.34	-90.21	-0.15	-40.00	40.00	37.32	2.68	14.936	
416.63	416.63	416.73	416.63	1.40	1.40	-90.21	-0.15	-40.00	40.00	37.20	2.80	14.299	CC
500.00	500.00	500.00	499.90	1.70	1.70	-90.21	-0.15	-40.00	40.00	36.61	3.39	11.783	ES
600.00	599.98	599.12	599.00	2.05	2.05	-156.03	1.15	-41.12	42.74	38.64	4.10	10.418	
700.00	699.84	697.80	697.55	2.41	2.41	-154.03	5.00	-44.46	50.97	46.16	4.81	10.603	
800.00	799.45	797.03	796.56	2.76	2.76	-153.08	9.90	-48.70	63.29	57.77	5.52	11.475	
900.00	898.74	895.88	895.20	3.12	3.11	-153.52	14.78	-52.93	78.41	72.19	6.23	12.596	
1,000.00	997.97	994.64	993.75	3.48	3.47	-154.02	19.66	-57.16	94.05	87.12	6.93	13.573	
1,100.00	1,097.19	1,093.41	1,092.31	3.84	3.82	-154.38	24.55	-61.39	109.68	102.05	7.64	14.364	
1,200.00	1,196.42	1,192.18	1,190.87	4.20	4.18	-154.65	29.43	-65.61	125.32	116.98	8.34	15.019	
1,300.00	1,295.65	1,290.95	1,289.42	4.56	4.53	-154.86	34.31	-69.84	140.96	131.91	9.05	15.568	
1,400.00	1,394.87	1,389.72	1,387.98	4.93	4.89	-155.02	39.19	-74.07	156.60	146.84	9.77	16.036	
1,500.00	1,494.10	1,488.48	1,486.54	5.29	5.24	-155.16	44.07	-78.30	172.25	161.77	10.48	16.439	
1,600.00	1,593.32	1,587.25	1,585.09	5.66	5.60	-155.27	48.95	-82.52	187.89	176.70	11.19	16.789	
1,700.00	1,692.55	1,686.02	1,683.65	6.02	5.95	-155.37	53.83	-86.75	203.54	191.63	11.91	17.097	
1,800.00	1,791.77	1,784.79	1,782.21	6.39	6.31	-155.45	58.71	-90.98	219.18	206.56	12.62	17.369	
1,900.00	1,891.00	1,883.56	1,880.76	6.75	6.66	-155.53	63.59	-95.20	234.83	221.49	13.33	17.611	
2,000.00	1,990.22	1,982.32	1,979.32	7.12	7.02	-155.59	68.47	-99.43	250.48	236.43	14.05	17.828	
2,100.00	2,089.45	2,081.09	2,077.88	7.48	7.38	-155.64	73.35	-103.66	266.12	251.36	14.76	18.024	
2,200.00	2,188.67	2,179.86	2,176.43	7.85	7.73	-155.69	78.23	-107.88	281.77	266.29	15.48	18.201	
2,300.00	2,287.90	2,278.63	2,274.99	8.22	8.09	-155.74	83.11	-112.11	297.42	281.22	16.20	18.363	
2,400.00	2,387.13	2,377.40	2,373.55	8.58	8.45	-155.78	87.99	-116.34	313.06	296.15	16.91	18.510	
2,500.00	2,486.35	2,476.16	2,472.10	8.95	8.80	-155.81	92.87	-120.57	328.71	311.08	17.63	18.645	
2,600.00	2,585.58	2,574.93	2,570.66	9.32	9.16	-155.85	97.76	-124.79	344.36	326.01	18.35	18.770	
2,700.00	2,684.80	2,673.70	2,669.22	9.69	9.51	-155.87	102.64	-129.02	360.00	340.94	19.06	18.885	
2,800.00	2,784.03	2,772.47	2,767.77	10.05	9.87	-155.90	107.52	-133.25	375.65	355.87	19.78	18.991	
2,900.00	2,883.25	2,871.24	2,866.33	10.42	10.23	-155.93	112.40	-137.47	391.30	370.80	20.50	19.090	
3,000.00	2,982.48	2,970.00	2,964.89	10.79	10.58	-155.95	117.28	-141.70	406.95	385.73	21.21	19.183	
3,100.00	3,081.70	3,068.77	3,063.45	11.15	10.94	-155.97	122.16	-145.93	422.60	400.66	21.93	19.269	
3,200.00	3,180.93	3,167.54	3,162.00	11.52	11.30	-155.99	127.04	-150.15	438.24	415.59	22.65	19.349	
3,300.00	3,280.15	3,266.31	3,260.56	11.89	11.65	-156.01	131.92	-154.38	453.89	430.52	23.37	19.425	
3,400.00	3,379.38	3,365.08	3,359.12	12.26	12.01	-156.03	136.80	-158.61	469.54	445.45	24.08	19.496	
3,500.00	3,478.61	3,463.84	3,457.67	12.62	12.37	-156.04	141.68	-162.84	485.19	460.38	24.80	19.562	
3,600.00	3,577.83	3,562.61	3,556.23	12.99	12.72	-156.06	146.56	-167.06	500.83	475.31	25.52	19.625	
3,700.00	3,677.06	3,661.38	3,654.79	13.36	13.08	-156.07	151.44	-171.29	516.48	490.24	26.24	19.685	
3,800.00	3,776.28	3,760.15	3,753.34	13.73	13.44	-156.09	156.32	-175.52	532.13	505.18	26.96	19.741	
3,900.00	3,875.51	3,858.92	3,851.90	14.09	13.79	-156.10	161.20	-179.74	547.78	520.11	27.67	19.794	
4,000.00	3,974.73	3,957.69	3,950.46	14.46	14.15	-156.11	166.09	-183.97	563.43	535.04	28.39	19.845	
4,100.00	4,073.96	4,056.45	4,049.01	14.83	14.51	-156.12	170.97	-188.20	579.07	549.97	29.11	19.893	
4,200.00	4,173.18	4,155.22	4,147.57	15.20	14.86	-156.13	175.85	-192.42	594.72	564.90	29.83	19.938	
4,300.00	4,272.41	4,253.99	4,246.13	15.56	15.22	-156.14	180.73	-196.65	610.37	579.83	30.55	19.982	
4,400.00	4,371.63	4,352.76	4,344.68	15.93	15.58	-156.15	185.61	-200.88	626.02	594.75	31.26	20.023	
4,500.00	4,470.86	4,451.53	4,443.24	16.30	15.93	-156.16	190.49	-205.11	641.67	609.68	31.98	20.063	
4,600.00	4,570.08	4,550.29	4,541.80	16.67	16.29	-156.17	195.37	-209.33	657.32	624.61	32.70	20.101	
4,700.00	4,669.31	4,649.06	4,640.35	17.04	16.65	-156.18	200.25	-213.56	672.96	639.54	33.42	20.137	
4,800.00	4,768.54	4,747.83	4,738.91	17.40	17.00	-156.19	205.13	-217.79	688.61	654.47	34.14	20.172	
4,900.00	4,867.76	4,846.60	4,837.47	17.77	17.36	-156.20	210.01	-222.01	704.26	669.40	34.86	20.205	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
5,000.00	4,966.99	4,945.37	4,936.02	18.14	17.72	-156.20	214.89	-226.24	719.91	684.33	35.57	20.236	
5,100.00	5,066.21	5,044.13	5,034.58	18.51	18.07	-156.21	219.77	-230.47	735.56	699.26	36.29	20.267	
5,200.00	5,165.44	5,142.90	5,133.14	18.88	18.43	-156.22	224.65	-234.69	751.21	714.19	37.01	20.296	
5,300.00	5,264.66	5,241.67	5,231.69	19.24	18.79	-156.22	229.53	-238.92	766.85	729.12	37.73	20.324	
5,400.00	5,363.89	5,340.44	5,330.25	19.61	19.14	-156.23	234.42	-243.15	782.50	744.05	38.45	20.351	
5,500.00	5,463.11	5,439.21	5,428.81	19.98	19.50	-156.23	239.30	-247.38	798.15	758.98	39.17	20.378	
5,600.00	5,562.34	5,537.97	5,527.36	20.35	19.86	-156.24	244.18	-251.60	813.80	773.91	39.89	20.403	
5,700.00	5,661.56	5,636.74	5,625.92	20.72	20.21	-156.25	249.06	-255.83	829.45	788.84	40.61	20.427	
5,800.00	5,760.79	5,735.51	5,724.48	21.08	20.57	-156.25	253.94	-260.06	845.09	803.77	41.32	20.450	
5,900.00	5,860.02	5,834.28	5,823.03	21.45	20.93	-156.26	258.82	-264.28	860.74	818.70	42.04	20.473	
6,000.00	5,959.24	5,933.05	5,921.59	21.82	21.28	-156.26	263.70	-268.51	876.39	833.63	42.76	20.494	
6,100.00	6,058.47	6,031.81	6,020.15	22.19	21.64	-156.27	268.58	-272.74	892.04	848.56	43.48	20.515	
6,200.00	6,157.69	6,130.58	6,118.70	22.56	22.00	-156.27	273.46	-276.96	907.69	863.49	44.20	20.536	
6,300.00	6,256.92	6,229.35	6,217.26	22.93	22.35	-156.27	278.34	-281.19	923.34	878.42	44.92	20.555	
6,400.00	6,356.14	6,328.12	6,315.82	23.29	22.71	-156.28	283.22	-285.42	938.98	893.35	45.64	20.574	
6,500.00	6,455.37	6,426.89	6,414.38	23.66	23.07	-156.28	288.10	-289.65	954.63	908.28	46.36	20.593	
6,600.00	6,554.59	6,525.65	6,512.93	24.03	23.42	-156.29	292.98	-293.87	970.28	923.20	47.08	20.611	
6,700.00	6,653.82	6,624.42	6,611.49	24.40	23.78	-156.29	297.86	-298.10	985.93	938.13	47.80	20.628	
6,800.00	6,753.04	6,723.19	6,710.05	24.77	24.14	-156.29	302.75	-302.33	1,001.58	953.06	48.52	20.645	
6,900.00	6,852.27	6,821.96	6,808.60	25.14	24.49	-156.30	307.63	-306.55	1,017.23	967.99	49.23	20.661	
7,000.00	6,951.50	6,920.73	6,907.16	25.50	24.85	-156.30	312.51	-310.78	1,032.87	982.92	49.95	20.677	
7,100.00	7,050.72	7,019.49	7,005.72	25.87	25.21	-156.31	317.39	-315.01	1,048.52	997.85	50.67	20.692	
7,200.00	7,149.95	7,118.26	7,104.27	26.24	25.56	-156.31	322.27	-319.23	1,064.17	1,012.78	51.39	20.707	
7,300.00	7,249.17	7,217.03	7,202.83	26.61	25.92	-156.31	327.15	-323.46	1,079.82	1,027.71	52.11	20.721	
7,400.00	7,348.40	7,315.80	7,301.39	26.98	26.28	-156.31	332.03	-327.69	1,095.47	1,042.64	52.83	20.735	
7,500.00	7,447.62	7,414.57	7,399.94	27.35	26.63	-156.32	336.91	-331.92	1,111.12	1,057.57	53.55	20.749	
7,600.00	7,546.85	7,513.33	7,498.50	27.71	26.99	-156.32	341.79	-336.14	1,126.77	1,072.49	54.27	20.762	
7,700.00	7,646.07	7,612.10	7,597.06	28.08	27.35	-156.32	346.67	-340.37	1,142.41	1,087.42	54.99	20.775	
7,800.00	7,745.30	7,710.87	7,695.61	28.45	27.70	-156.33	351.55	-344.60	1,158.06	1,102.35	55.71	20.787	
7,900.00	7,844.52	7,809.64	7,794.17	28.82	28.06	-156.33	356.43	-348.82	1,173.71	1,117.28	56.43	20.799	
8,000.00	7,943.75	7,908.41	7,892.73	29.19	28.42	-156.33	361.31	-353.05	1,189.36	1,132.21	57.15	20.811	
8,100.00	8,042.98	8,007.17	7,991.28	29.56	28.78	-156.33	366.19	-357.28	1,205.01	1,147.14	57.87	20.823	
8,200.00	8,142.20	8,105.94	8,089.84	29.92	29.13	-156.34	371.08	-361.51	1,220.66	1,162.07	58.59	20.834	
8,300.00	8,241.43	8,204.71	8,188.40	30.29	29.49	-156.34	375.96	-365.73	1,236.30	1,176.99	59.31	20.845	
8,400.00	8,340.65	8,303.48	8,286.95	30.66	29.85	-156.34	380.84	-369.96	1,251.95	1,191.92	60.03	20.856	
8,500.00	8,439.88	8,402.25	8,385.51	31.03	30.20	-156.34	385.72	-374.19	1,267.60	1,206.85	60.75	20.866	
8,600.00	8,539.10	8,501.01	8,484.07	31.40	30.56	-156.35	390.60	-378.41	1,283.25	1,221.78	61.47	20.876	
8,700.00	8,638.33	8,599.78	8,582.62	31.77	30.92	-156.35	395.48	-382.64	1,298.90	1,236.71	62.19	20.886	
8,800.00	8,737.55	8,698.55	8,681.18	32.14	31.27	-156.35	400.36	-386.87	1,314.55	1,251.64	62.91	20.896	
8,900.00	8,836.78	8,797.32	8,779.74	32.51	31.63	-156.35	405.24	-391.09	1,330.19	1,266.57	63.63	20.905	
9,000.00	8,936.08	8,896.25	8,878.46	32.87	31.99	-135.68	410.13	-395.33	1,344.65	1,280.30	64.35	20.897	
9,100.00	9,035.51	9,056.12	9,037.99	33.23	32.56	-99.35	418.61	-400.65	1,353.51	1,288.11	65.39	20.698	
9,200.00	9,134.12	9,151.27	9,131.90	33.58	32.91	-89.60	433.26	-400.78	1,353.83	1,287.76	66.07	20.492	
9,300.00	9,228.64	9,250.00	9,225.38	33.93	33.26	-89.62	464.65	-401.04	1,353.82	1,287.08	66.75	20.283	
9,345.44	9,269.43	9,294.44	9,265.41	34.08	33.40	-89.64	483.93	-401.20	1,353.82	1,286.78	67.04	20.193	
9,400.00	9,316.12	9,348.22	9,311.67	34.26	33.58	-89.66	511.32	-401.43	1,353.82	1,286.42	67.40	20.087	
9,500.00	9,393.91	9,446.90	9,389.06	34.55	33.86	-89.70	572.33	-401.95	1,353.81	1,285.80	68.01	19.905	
9,600.00	9,459.64	9,545.77	9,454.97	34.79	34.10	-89.75	645.87	-402.57	1,353.81	1,285.23	68.58	19.741	
9,700.00	9,511.32	9,644.87	9,507.38	34.99	34.30	-89.81	729.83	-403.28	1,353.80	1,284.72	69.09	19.595	
9,800.00	9,547.36	9,744.23	9,544.63	35.14	34.50	-89.88	821.79	-404.06	1,353.80	1,284.27	69.53	19.471	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
9,900.00	9,566.69	9,843.86	9,565.49	35.27	34.67	-89.95	919.09	-404.88	1,353.80	1,283.90	69.90	19.367	
10,000.00	9,570.00	9,943.77	9,569.90	35.39	34.82	-90.00	1,018.81	-405.73	1,353.80	1,283.60	70.20	19.285	
10,100.00	9,570.00	10,043.77	9,569.90	35.54	34.97	-90.00	1,118.81	-406.57	1,353.80	1,283.29	70.51	19.201	
10,200.00	9,570.00	10,143.77	9,569.90	35.71	35.13	-90.00	1,218.81	-407.42	1,353.80	1,282.95	70.84	19.110	
10,300.00	9,570.00	10,243.77	9,569.90	35.91	35.32	-90.00	1,318.80	-408.27	1,353.80	1,282.58	71.21	19.010	
10,400.00	9,570.00	10,343.77	9,569.90	36.12	35.52	-90.00	1,418.80	-409.11	1,353.80	1,282.18	71.61	18.904	
10,500.00	9,570.00	10,443.77	9,569.90	36.34	35.73	-90.00	1,518.79	-409.96	1,353.80	1,281.75	72.05	18.791	
10,600.00	9,570.00	10,543.77	9,569.90	36.58	35.96	-90.00	1,618.79	-410.80	1,353.80	1,281.29	72.51	18.671	
10,700.00	9,570.00	10,643.77	9,569.90	36.84	36.21	-90.00	1,718.79	-411.65	1,353.80	1,280.80	73.00	18.545	
10,800.00	9,570.00	10,743.77	9,569.90	37.11	36.47	-90.00	1,818.78	-412.50	1,353.80	1,280.28	73.52	18.414	
10,900.00	9,570.00	10,843.77	9,569.90	37.39	36.74	-90.00	1,918.78	-413.34	1,353.80	1,279.73	74.07	18.278	
11,000.00	9,570.00	10,943.77	9,569.90	37.69	37.03	-90.00	2,018.78	-414.19	1,353.80	1,279.15	74.64	18.137	
11,100.00	9,570.00	11,043.77	9,569.90	38.00	37.33	-90.00	2,118.77	-415.03	1,353.80	1,278.55	75.25	17.991	
11,200.00	9,570.00	11,143.77	9,569.90	38.32	37.65	-90.00	2,218.77	-415.88	1,353.80	1,277.92	75.88	17.842	
11,300.00	9,570.00	11,243.77	9,569.90	38.66	37.97	-90.00	2,318.77	-416.73	1,353.80	1,277.26	76.53	17.689	
11,400.00	9,570.00	11,343.77	9,569.90	39.00	38.31	-90.00	2,418.76	-417.57	1,353.80	1,276.58	77.21	17.533	
11,500.00	9,570.00	11,443.77	9,569.90	39.36	38.67	-90.00	2,518.76	-418.42	1,353.80	1,275.88	77.92	17.374	
11,600.00	9,570.00	11,543.77	9,569.90	39.73	39.03	-90.00	2,618.76	-419.26	1,353.80	1,275.15	78.65	17.213	
11,700.00	9,570.00	11,643.77	9,569.90	40.11	39.41	-90.00	2,718.75	-420.11	1,353.80	1,274.40	79.40	17.050	
11,800.00	9,570.00	11,743.77	9,569.90	40.50	39.79	-90.00	2,818.75	-420.96	1,353.80	1,273.62	80.17	16.886	
11,900.00	9,570.00	11,843.77	9,569.90	40.90	40.19	-90.00	2,918.74	-421.80	1,353.80	1,272.82	80.97	16.719	
12,000.00	9,570.00	11,943.77	9,569.90	41.31	40.60	-90.00	3,018.74	-422.65	1,353.80	1,272.01	81.79	16.552	
12,100.00	9,570.00	12,043.77	9,569.90	41.74	41.02	-90.00	3,118.74	-423.49	1,353.80	1,271.17	82.63	16.384	
12,200.00	9,570.00	12,143.77	9,569.90	42.17	41.45	-90.00	3,218.73	-424.34	1,353.80	1,270.31	83.49	16.216	
12,300.00	9,570.00	12,243.77	9,569.90	42.61	41.89	-90.00	3,318.73	-425.19	1,353.80	1,269.43	84.36	16.047	
12,400.00	9,570.00	12,343.77	9,569.90	43.06	42.34	-90.00	3,418.73	-426.03	1,353.80	1,268.54	85.26	15.878	
12,500.00	9,570.00	12,443.77	9,569.90	43.52	42.80	-90.00	3,518.72	-426.88	1,353.80	1,267.62	86.17	15.710	
12,600.00	9,570.00	12,543.77	9,569.90	43.99	43.26	-90.00	3,618.72	-427.72	1,353.80	1,266.69	87.11	15.542	
12,700.00	9,570.00	12,643.77	9,569.90	44.46	43.74	-90.00	3,718.72	-428.57	1,353.80	1,265.74	88.06	15.374	
12,800.00	9,570.00	12,743.77	9,569.90	44.94	44.22	-90.00	3,818.71	-429.42	1,353.80	1,264.77	89.02	15.208	
12,900.00	9,570.00	12,843.77	9,569.90	45.44	44.71	-90.00	3,918.71	-430.26	1,353.80	1,263.79	90.00	15.042	
13,000.00	9,570.00	12,943.77	9,569.90	45.94	45.21	-90.00	4,018.71	-431.11	1,353.80	1,262.80	91.00	14.877	
13,100.00	9,570.00	13,043.77	9,569.90	46.44	45.72	-90.00	4,118.70	-431.95	1,353.80	1,261.78	92.01	14.713	
13,200.00	9,570.00	13,143.77	9,569.90	46.95	46.23	-90.00	4,218.70	-432.80	1,353.80	1,260.76	93.04	14.551	
13,300.00	9,570.00	13,243.77	9,569.90	47.47	46.75	-90.00	4,318.69	-433.65	1,353.80	1,259.72	94.08	14.390	
13,400.00	9,570.00	13,343.77	9,569.90	48.00	47.28	-90.00	4,418.69	-434.49	1,353.80	1,258.66	95.13	14.230	
13,500.00	9,570.00	13,443.77	9,569.90	48.54	47.81	-90.00	4,518.69	-435.34	1,353.80	1,257.60	96.20	14.073	
13,600.00	9,570.00	13,543.77	9,569.90	49.07	48.35	-90.00	4,618.68	-436.18	1,353.80	1,256.52	97.28	13.916	
13,700.00	9,570.00	13,643.77	9,569.90	49.62	48.90	-90.00	4,718.68	-437.03	1,353.80	1,255.42	98.37	13.762	
13,800.00	9,570.00	13,743.77	9,569.90	50.17	49.45	-90.00	4,818.68	-437.88	1,353.80	1,254.32	99.48	13.609	
13,900.00	9,570.00	13,843.77	9,569.90	50.73	50.01	-90.00	4,918.67	-438.72	1,353.80	1,253.20	100.59	13.458	
14,000.00	9,570.00	13,943.77	9,569.90	51.29	50.58	-90.00	5,018.67	-439.57	1,353.80	1,252.08	101.72	13.309	
14,100.00	9,570.00	14,043.77	9,569.90	51.86	51.15	-90.00	5,118.67	-440.41	1,353.80	1,250.94	102.85	13.162	
14,200.00	9,570.00	14,143.77	9,569.90	52.43	51.72	-90.00	5,218.66	-441.26	1,353.80	1,249.79	104.00	13.017	
14,300.00	9,570.00	14,243.77	9,569.90	53.01	52.30	-90.00	5,318.66	-442.11	1,353.80	1,248.64	105.16	12.874	
14,400.00	9,570.00	14,343.77	9,569.90	53.59	52.88	-90.00	5,418.66	-442.95	1,353.80	1,247.47	106.33	12.732	
14,500.00	9,570.00	14,443.77	9,569.90	54.18	53.47	-90.00	5,518.65	-443.80	1,353.80	1,246.29	107.50	12.593	
14,600.00	9,570.00	14,543.77	9,569.90	54.77	54.07	-90.00	5,618.65	-444.64	1,353.80	1,245.11	108.69	12.456	
14,700.00	9,570.00	14,643.77	9,569.90	55.37	54.66	-90.00	5,718.64	-445.49	1,353.80	1,243.91	109.88	12.320	
14,800.00	9,570.00	14,743.77	9,569.90	55.97	55.27	-90.00	5,818.64	-446.34	1,353.80	1,242.71	111.09	12.187	
14,900.00	9,570.00	14,843.77	9,569.90	56.57	55.87	-90.00	5,918.64	-447.18	1,353.80	1,241.50	112.30	12.056	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
15,000.00	9,570.00	14,943.77	9,569.90	57.18	56.48	-90.00	6,018.63	-448.03	1,353.80	1,240.28	113.52	11.926	
15,100.00	9,570.00	15,043.77	9,569.90	57.79	57.10	-90.00	6,118.63	-448.87	1,353.80	1,239.05	114.74	11.799	
15,200.00	9,570.00	15,143.77	9,569.90	58.41	57.71	-90.00	6,218.63	-449.72	1,353.80	1,237.82	115.98	11.673	
15,300.00	9,570.00	15,243.77	9,569.90	59.03	58.34	-90.00	6,318.62	-450.57	1,353.80	1,236.58	117.22	11.549	
15,400.00	9,570.00	15,343.77	9,569.90	59.65	58.96	-90.00	6,418.62	-451.41	1,353.80	1,235.33	118.47	11.428	
15,500.00	9,570.00	15,443.77	9,569.90	60.27	59.59	-90.00	6,518.62	-452.26	1,353.80	1,234.07	119.72	11.308	
15,600.00	9,570.00	15,543.77	9,569.90	60.90	60.22	-90.00	6,618.61	-453.10	1,353.80	1,232.81	120.98	11.190	
15,700.00	9,570.00	15,643.77	9,569.90	61.54	60.86	-90.00	6,718.61	-453.95	1,353.80	1,231.54	122.25	11.074	
15,800.00	9,570.00	15,743.77	9,569.90	62.17	61.49	-90.00	6,818.61	-454.80	1,353.80	1,230.27	123.53	10.960	
15,900.00	9,570.00	15,843.77	9,569.90	62.81	62.13	-90.00	6,918.60	-455.64	1,353.80	1,228.99	124.81	10.847	
16,000.00	9,570.00	15,943.77	9,569.90	63.45	62.78	-90.00	7,018.60	-456.49	1,353.80	1,227.70	126.09	10.737	
16,100.00	9,570.00	16,043.77	9,569.90	64.10	63.42	-90.00	7,118.59	-457.33	1,353.80	1,226.41	127.38	10.628	
16,200.00	9,570.00	16,143.77	9,569.90	64.74	64.07	-90.00	7,218.59	-458.18	1,353.80	1,225.12	128.68	10.521	
16,300.00	9,570.00	16,243.77	9,569.90	65.39	64.73	-90.00	7,318.59	-459.03	1,353.80	1,223.81	129.98	10.415	
16,400.00	9,570.00	16,343.77	9,569.90	66.05	65.38	-90.00	7,418.58	-459.87	1,353.80	1,222.51	131.29	10.312	
16,500.00	9,570.00	16,443.77	9,569.90	66.70	66.04	-90.00	7,518.58	-460.72	1,353.80	1,221.19	132.60	10.209	
16,600.00	9,570.00	16,543.77	9,569.90	67.36	66.70	-90.00	7,618.58	-461.56	1,353.80	1,219.88	133.92	10.109	
16,700.00	9,570.00	16,643.77	9,569.90	68.02	67.36	-90.00	7,718.57	-462.41	1,353.79	1,218.55	135.24	10.010	
16,800.00	9,570.00	16,743.77	9,569.90	68.68	68.02	-90.00	7,818.57	-463.26	1,353.79	1,217.23	136.57	9.913	
16,900.00	9,570.00	16,843.77	9,569.90	69.34	68.69	-90.00	7,918.57	-464.10	1,353.79	1,215.90	137.90	9.817	
17,000.00	9,570.00	16,943.77	9,569.90	70.01	69.36	-90.00	8,018.56	-464.95	1,353.79	1,214.56	139.23	9.723	
17,100.00	9,570.00	17,043.77	9,569.90	70.68	70.03	-90.00	8,118.56	-465.79	1,353.79	1,213.22	140.57	9.631	
17,200.00	9,570.00	17,143.77	9,569.90	71.35	70.70	-90.00	8,218.56	-466.64	1,353.79	1,211.88	141.92	9.539	
17,300.00	9,570.00	17,243.77	9,569.90	72.02	71.37	-90.00	8,318.55	-467.49	1,353.79	1,210.53	143.26	9.450	
17,400.00	9,570.00	17,343.77	9,569.90	72.69	72.05	-90.00	8,418.55	-468.33	1,353.79	1,209.18	144.62	9.361	
17,500.00	9,570.00	17,443.77	9,569.90	73.37	72.73	-90.00	8,518.54	-469.18	1,353.79	1,207.82	145.97	9.274	
17,600.00	9,570.00	17,543.77	9,569.90	74.05	73.41	-90.00	8,618.54	-470.02	1,353.79	1,206.47	147.33	9.189	
17,700.00	9,570.00	17,643.77	9,569.90	74.73	74.09	-90.00	8,718.54	-470.87	1,353.79	1,205.10	148.69	9.105	
17,800.00	9,570.00	17,743.77	9,569.90	75.41	74.77	-90.00	8,818.53	-471.72	1,353.79	1,203.74	150.06	9.022	
17,900.00	9,570.00	17,843.77	9,569.90	76.09	75.46	-90.00	8,918.53	-472.56	1,353.79	1,202.37	151.43	8.940	
18,000.00	9,570.00	17,943.77	9,569.90	76.78	76.14	-90.00	9,018.53	-473.41	1,353.79	1,201.00	152.80	8.860	
18,100.00	9,570.00	18,043.77	9,569.90	77.46	76.83	-90.00	9,118.52	-474.26	1,353.79	1,199.62	154.17	8.781	
18,200.00	9,570.00	18,143.77	9,569.90	78.15	77.52	-90.00	9,218.52	-475.10	1,353.79	1,198.24	155.55	8.703	
18,300.00	9,570.00	18,243.77	9,569.90	78.84	78.21	-90.00	9,318.52	-475.95	1,353.79	1,196.86	156.93	8.627	
18,400.00	9,570.00	18,343.77	9,569.90	79.53	78.91	-90.00	9,418.51	-476.79	1,353.79	1,195.48	158.32	8.551	
18,500.00	9,570.00	18,443.77	9,569.90	80.22	79.60	-90.00	9,518.51	-477.64	1,353.79	1,194.09	159.70	8.477	
18,600.00	9,570.00	18,543.77	9,569.90	80.92	80.30	-90.00	9,618.51	-478.49	1,353.79	1,192.70	161.09	8.404	
18,700.00	9,570.00	18,643.77	9,569.90	81.61	80.99	-90.00	9,718.50	-479.33	1,353.79	1,191.31	162.49	8.332	
18,800.00	9,570.00	18,743.77	9,569.90	82.31	81.69	-90.00	9,818.50	-480.18	1,353.79	1,189.91	163.88	8.261	
18,900.00	9,570.00	18,843.77	9,569.90	83.01	82.39	-90.00	9,918.49	-481.02	1,353.79	1,188.52	165.28	8.191	
19,000.00	9,570.00	18,943.77	9,569.90	83.70	83.09	-90.00	10,018.49	-481.87	1,353.79	1,187.12	166.68	8.122	
19,100.00	9,570.00	19,043.77	9,569.90	84.40	83.79	-90.00	10,118.49	-482.72	1,353.79	1,185.71	168.08	8.054	
19,200.00	9,570.00	19,143.77	9,569.90	85.11	84.50	-90.00	10,218.48	-483.56	1,353.79	1,184.31	169.49	7.988	
19,300.00	9,570.00	19,243.77	9,569.90	85.81	85.20	-90.00	10,318.48	-484.41	1,353.79	1,182.90	170.89	7.922	
19,400.00	9,570.00	19,343.77	9,569.90	86.51	85.90	-90.00	10,418.48	-485.25	1,353.79	1,181.49	172.30	7.857	
19,500.00	9,570.00	19,443.77	9,569.90	87.22	86.61	-90.00	10,518.47	-486.10	1,353.79	1,180.08	173.72	7.793	
19,600.00	9,570.00	19,543.77	9,569.90	87.92	87.32	-90.00	10,618.47	-486.95	1,353.79	1,178.67	175.13	7.730	
19,700.00	9,570.00	19,643.77	9,569.90	88.63	88.03	-90.00	10,718.47	-487.79	1,353.79	1,177.25	176.54	7.668	
19,800.00	9,570.00	19,743.77	9,569.90	89.34	88.74	-90.00	10,818.46	-488.64	1,353.79	1,175.83	177.96	7.607	
19,900.00	9,570.00	19,843.77	9,569.90	90.05	89.45	-90.00	10,918.46	-489.48	1,353.79	1,174.41	179.38	7.547	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
20,000.00	9,570.00	19,943.77	9,569.90	90.76	90.16	-90.00	11,018.46	-490.33	1,353.79	1,172.99	180.81	7.488	
20,100.00	9,570.00	20,043.77	9,569.90	91.47	90.87	-90.00	11,118.45	-491.18	1,353.79	1,171.57	182.23	7.429	
20,200.00	9,570.00	20,143.77	9,569.90	92.18	91.58	-90.00	11,218.45	-492.02	1,353.79	1,170.14	183.65	7.371	
20,300.00	9,570.00	20,243.77	9,569.90	92.89	92.30	-90.00	11,318.44	-492.87	1,353.79	1,168.71	185.08	7.315	
20,400.00	9,570.00	20,343.77	9,569.90	93.60	93.01	-90.00	11,418.44	-493.71	1,353.79	1,167.28	186.51	7.258	
20,500.00	9,570.00	20,443.77	9,569.90	94.32	93.73	-90.00	11,518.44	-494.56	1,353.79	1,165.85	187.94	7.203	
20,600.00	9,570.00	20,543.77	9,569.90	95.03	94.45	-90.00	11,618.43	-495.41	1,353.79	1,164.42	189.38	7.149	
20,700.00	9,570.00	20,643.77	9,569.90	95.75	95.16	-90.00	11,718.43	-496.25	1,353.79	1,162.98	190.81	7.095	
20,800.00	9,570.00	20,743.77	9,569.90	96.47	95.88	-90.00	11,818.43	-497.10	1,353.79	1,161.55	192.25	7.042	
20,900.00	9,570.00	20,843.77	9,569.90	97.19	96.60	-90.00	11,918.42	-497.94	1,353.79	1,160.11	193.68	6.990	
21,000.00	9,570.00	20,943.77	9,569.90	97.90	97.32	-90.00	12,018.42	-498.79	1,353.79	1,158.67	195.12	6.938	
21,100.00	9,570.00	21,043.77	9,569.90	98.62	98.04	-90.00	12,118.42	-499.64	1,353.79	1,157.23	196.56	6.887	
21,200.00	9,570.00	21,143.77	9,569.90	99.34	98.76	-90.00	12,218.41	-500.48	1,353.79	1,155.79	198.01	6.837	
21,300.00	9,570.00	21,243.77	9,569.90	100.06	99.49	-90.00	12,318.41	-501.33	1,353.79	1,154.34	199.45	6.788	
21,400.00	9,570.00	21,343.77	9,569.90	100.79	100.21	-90.00	12,418.41	-502.17	1,353.79	1,152.90	200.89	6.739	
21,500.00	9,570.00	21,443.77	9,569.90	101.51	100.93	-90.00	12,518.40	-503.02	1,353.79	1,151.45	202.34	6.691	
21,600.00	9,570.00	21,543.77	9,569.90	102.23	101.66	-90.00	12,618.40	-503.87	1,353.79	1,150.00	203.79	6.643	
21,700.00	9,570.00	21,643.77	9,569.90	102.95	102.38	-90.00	12,718.39	-504.71	1,353.79	1,148.56	205.24	6.596	
21,800.00	9,570.00	21,743.77	9,569.90	103.68	103.11	-90.00	12,818.39	-505.56	1,353.79	1,147.11	206.69	6.550	
21,900.00	9,570.00	21,843.77	9,569.90	104.40	103.83	-90.00	12,918.39	-506.40	1,353.79	1,145.65	208.14	6.504	
22,000.00	9,570.00	21,943.77	9,569.90	105.13	104.56	-90.00	13,018.38	-507.25	1,353.79	1,144.20	209.59	6.459	
22,100.00	9,570.00	22,043.77	9,569.90	105.86	105.29	-90.00	13,118.38	-508.10	1,353.79	1,142.75	211.05	6.415	
22,200.00	9,570.00	22,143.77	9,569.90	106.58	106.02	-90.00	13,218.38	-508.94	1,353.79	1,141.29	212.50	6.371	
22,300.00	9,570.00	22,243.77	9,569.90	107.31	106.75	-90.00	13,318.37	-509.79	1,353.79	1,139.83	213.96	6.327	
22,400.00	9,570.00	22,343.77	9,569.90	108.04	107.47	-90.00	13,418.37	-510.63	1,353.79	1,138.38	215.42	6.285	
22,500.00	9,570.00	22,443.77	9,569.90	108.77	108.20	-90.00	13,518.37	-511.48	1,353.79	1,136.92	216.88	6.242	
22,600.00	9,570.00	22,543.77	9,569.90	109.50	108.93	-90.00	13,618.36	-512.33	1,353.79	1,135.46	218.34	6.201	
22,700.00	9,570.00	22,643.77	9,569.90	110.22	109.67	-90.00	13,718.36	-513.17	1,353.79	1,134.00	219.80	6.159	
22,800.00	9,570.00	22,743.77	9,569.90	110.96	110.40	-90.00	13,818.36	-514.02	1,353.79	1,132.53	221.26	6.119	
22,900.00	9,570.00	22,843.77	9,569.90	111.69	111.13	-90.00	13,918.35	-514.86	1,353.79	1,131.07	222.72	6.078	
23,000.00	9,570.00	22,943.77	9,569.90	112.42	111.86	-90.00	14,018.35	-515.71	1,353.79	1,129.61	224.19	6.039	
23,100.00	9,570.00	23,043.77	9,569.90	113.15	112.59	-90.00	14,118.34	-516.56	1,353.79	1,128.14	225.65	5.999	
23,200.00	9,570.00	23,143.77	9,569.90	113.88	113.33	-90.00	14,218.34	-517.40	1,353.79	1,126.68	227.12	5.961	
23,300.00	9,570.00	23,243.77	9,569.90	114.61	114.06	-90.00	14,318.34	-518.25	1,353.79	1,125.21	228.58	5.922	
23,400.00	9,570.00	23,343.77	9,569.90	115.35	114.80	-90.00	14,418.33	-519.09	1,353.79	1,123.74	230.05	5.885	
23,500.00	9,570.00	23,443.77	9,569.90	116.08	115.53	-90.00	14,518.33	-519.94	1,353.79	1,122.27	231.52	5.847	
23,600.00	9,570.00	23,543.77	9,569.90	116.81	116.27	-90.00	14,618.33	-520.79	1,353.79	1,120.80	232.99	5.810	
23,700.00	9,570.00	23,643.77	9,569.90	117.55	117.00	-90.00	14,718.32	-521.63	1,353.79	1,119.33	234.46	5.774	
23,800.00	9,570.00	23,743.77	9,569.90	118.28	117.74	-90.00	14,818.32	-522.48	1,353.79	1,117.86	235.93	5.738	
23,900.00	9,570.00	23,843.77	9,569.90	119.02	118.47	-90.00	14,918.32	-523.32	1,353.79	1,116.39	237.41	5.702	
24,000.00	9,570.00	23,943.77	9,569.90	119.76	119.21	-90.00	15,018.31	-524.17	1,353.79	1,114.91	238.88	5.667	
24,100.00	9,570.00	24,043.77	9,569.90	120.49	119.95	-90.00	15,118.31	-525.02	1,353.79	1,113.44	240.35	5.632	
24,200.00	9,570.00	24,143.77	9,569.90	121.23	120.69	-90.00	15,218.30	-525.86	1,353.79	1,111.96	241.83	5.598	
24,300.00	9,570.00	24,243.77	9,569.90	121.97	121.42	-90.00	15,318.30	-526.71	1,353.79	1,110.49	243.30	5.564	
24,400.00	9,570.00	24,343.77	9,569.90	122.70	122.16	-90.00	15,418.30	-527.55	1,353.79	1,109.01	244.78	5.531	
24,500.00	9,570.00	24,443.77	9,569.90	123.44	122.90	-90.00	15,518.29	-528.40	1,353.79	1,107.53	246.26	5.497	
24,600.00	9,570.00	24,543.77	9,569.90	124.18	123.64	-90.00	15,618.29	-529.25	1,353.79	1,106.06	247.74	5.465	
24,700.00	9,570.00	24,643.77	9,569.90	124.92	124.38	-90.00	15,718.29	-530.09	1,353.79	1,104.58	249.22	5.432	
24,800.00	9,570.00	24,743.77	9,569.90	125.66	125.12	-90.00	15,818.28	-530.94	1,353.79	1,103.10	250.70	5.400	
24,900.00	9,570.00	24,843.77	9,569.90	126.40	125.86	-90.00	15,918.28	-531.78	1,353.79	1,101.62	252.18	5.368	
25,000.00	9,570.00	24,943.77	9,569.90	127.14	126.60	-90.00	16,018.28	-532.63	1,353.79	1,100.14	253.66	5.337	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
25,100.00	9,570.00	25,043.77	9,569.90	127.88	127.34	-90.00	16,118.27	-533.48	1,353.79	1,098.65	255.14	5.306	
25,200.00	9,570.00	25,143.77	9,569.90	128.62	128.08	-90.00	16,218.27	-534.32	1,353.79	1,097.17	256.62	5.275	
25,300.00	9,570.00	25,243.77	9,569.90	129.36	128.83	-90.00	16,318.27	-535.17	1,353.79	1,095.69	258.10	5.245	
25,400.00	9,570.00	25,343.77	9,569.90	130.10	129.57	-90.00	16,418.26	-536.01	1,353.79	1,094.21	259.59	5.215	
25,500.00	9,570.00	25,443.77	9,569.90	130.84	130.31	-90.00	16,518.26	-536.86	1,353.79	1,092.72	261.07	5.186	
25,600.00	9,570.00	25,543.77	9,569.90	131.58	131.05	-90.00	16,618.25	-537.71	1,353.79	1,091.24	262.56	5.156	
25,700.00	9,570.00	25,643.77	9,569.90	132.33	131.80	-90.00	16,718.25	-538.55	1,353.79	1,089.75	264.04	5.127	
25,800.00	9,570.00	25,743.77	9,569.90	133.07	132.54	-90.00	16,818.25	-539.40	1,353.79	1,088.26	265.53	5.098	
25,900.00	9,570.00	25,843.77	9,569.90	133.81	133.28	-90.00	16,918.24	-540.24	1,353.79	1,086.78	267.01	5.070	
26,000.00	9,570.00	25,943.77	9,569.90	134.55	134.03	-90.00	17,018.24	-541.09	1,353.79	1,085.29	268.50	5.042	
26,100.00	9,570.00	26,043.77	9,569.90	135.30	134.77	-90.00	17,118.24	-541.94	1,353.79	1,083.80	269.99	5.014	
26,200.00	9,570.00	26,143.77	9,569.90	136.04	135.52	-90.00	17,218.23	-542.78	1,353.79	1,082.31	271.48	4.987	
26,300.00	9,570.00	26,243.77	9,569.90	136.78	136.26	-90.00	17,318.23	-543.63	1,353.79	1,080.82	272.97	4.960	
26,400.00	9,570.00	26,343.77	9,569.90	137.53	137.01	-90.00	17,418.23	-544.47	1,353.79	1,079.34	274.46	4.933	
26,500.00	9,570.00	26,443.77	9,569.90	138.27	137.75	-90.00	17,518.22	-545.32	1,353.79	1,077.85	275.95	4.906	
26,600.00	9,570.00	26,543.77	9,569.90	139.02	138.50	-90.00	17,618.22	-546.17	1,353.79	1,076.35	277.44	4.880	
26,700.00	9,570.00	26,643.77	9,569.90	139.76	139.24	-90.00	17,718.22	-547.01	1,353.79	1,074.86	278.93	4.854	
26,800.00	9,570.00	26,743.77	9,569.90	140.51	139.99	-90.00	17,818.21	-547.86	1,353.79	1,073.37	280.42	4.828	
26,900.00	9,570.00	26,843.77	9,569.90	141.25	140.74	-90.00	17,918.21	-548.71	1,353.79	1,071.88	281.91	4.802	
27,000.00	9,570.00	26,943.77	9,569.90	142.00	141.48	-90.00	18,018.20	-549.55	1,353.79	1,070.39	283.41	4.777	
27,100.00	9,570.00	27,043.77	9,569.90	142.75	142.23	-90.00	18,118.20	-550.40	1,353.79	1,068.89	284.90	4.752	
27,200.00	9,570.00	27,143.77	9,569.90	143.49	142.98	-90.00	18,218.20	-551.24	1,353.79	1,067.40	286.39	4.727	
27,300.00	9,570.00	27,243.77	9,569.90	144.24	143.72	-90.00	18,318.19	-552.09	1,353.79	1,065.90	287.89	4.703	
27,400.00	9,570.00	27,343.77	9,569.90	144.99	144.47	-90.00	18,418.19	-552.94	1,353.79	1,064.41	289.38	4.678	
27,500.00	9,570.00	27,443.77	9,569.90	145.73	145.22	-90.00	18,518.19	-553.78	1,353.79	1,062.92	290.88	4.654	
27,600.00	9,570.00	27,543.77	9,569.90	146.48	145.97	-90.00	18,618.18	-554.63	1,353.79	1,061.42	292.37	4.630	
27,700.00	9,570.00	27,643.77	9,569.90	147.23	146.71	-90.00	18,718.18	-555.47	1,353.79	1,059.92	293.87	4.607	
27,800.00	9,570.00	27,743.77	9,569.90	147.97	147.46	-90.00	18,818.18	-556.32	1,353.79	1,058.43	295.37	4.583	
27,900.00	9,570.00	27,843.77	9,569.90	148.72	148.21	-90.00	18,918.17	-557.17	1,353.79	1,056.93	296.86	4.560	
28,000.00	9,570.00	27,943.77	9,569.90	149.47	148.96	-90.00	19,018.17	-558.01	1,353.79	1,055.43	298.36	4.537	
28,100.00	9,570.00	28,043.77	9,569.90	150.22	149.71	-90.00	19,118.17	-558.86	1,353.79	1,053.93	299.86	4.515	
28,200.00	9,570.00	28,143.77	9,569.90	150.97	150.46	-90.00	19,218.16	-559.70	1,353.79	1,052.44	301.36	4.492	
28,300.00	9,570.00	28,243.77	9,569.90	151.72	151.21	-90.00	19,318.16	-560.55	1,353.79	1,050.94	302.85	4.470	
28,400.00	9,570.00	28,343.77	9,569.90	152.47	151.96	-90.00	19,418.15	-561.40	1,353.79	1,049.44	304.35	4.448	
28,500.00	9,570.00	28,443.77	9,569.90	153.22	152.71	-90.00	19,518.15	-562.24	1,353.79	1,047.94	305.85	4.426	
28,600.00	9,570.00	28,543.77	9,569.90	153.96	153.46	-90.00	19,618.15	-563.09	1,353.79	1,046.44	307.35	4.405	
28,700.00	9,570.00	28,643.77	9,569.90	154.71	154.21	-90.00	19,718.14	-563.93	1,353.79	1,044.94	308.85	4.383	
28,800.00	9,570.00	28,743.77	9,569.90	155.46	154.96	-90.00	19,818.14	-564.78	1,353.79	1,043.44	310.35	4.362	
28,900.00	9,570.00	28,843.77	9,569.90	156.21	155.71	-90.00	19,918.14	-565.63	1,353.79	1,041.94	311.85	4.341	
29,000.00	9,570.00	28,943.77	9,569.90	156.96	156.46	-90.00	20,018.13	-566.47	1,353.79	1,040.44	313.36	4.320	
29,100.00	9,570.00	29,043.77	9,569.90	157.71	157.21	-90.00	20,118.13	-567.32	1,353.79	1,038.93	314.86	4.300	
29,200.00	9,570.00	29,143.77	9,569.90	158.47	157.96	-90.00	20,218.13	-568.16	1,353.79	1,037.43	316.36	4.279	
29,300.00	9,570.00	29,243.77	9,569.90	159.22	158.71	-90.00	20,318.12	-569.01	1,353.79	1,035.93	317.86	4.259	
29,400.00	9,570.00	29,343.77	9,569.90	159.97	159.47	-90.00	20,418.12	-569.86	1,353.79	1,034.43	319.37	4.239	
29,500.00	9,570.00	29,443.77	9,569.90	160.72	160.22	-90.00	20,518.12	-570.70	1,353.79	1,032.92	320.87	4.219	
29,600.00	9,570.00	29,543.77	9,569.90	161.47	160.97	-90.00	20,618.11	-571.55	1,353.79	1,031.42	322.37	4.199	
29,700.00	9,570.00	29,643.77	9,569.90	162.22	161.72	-90.00	20,718.11	-572.39	1,353.79	1,029.92	323.88	4.180	
29,800.00	9,570.00	29,743.77	9,569.90	162.97	162.47	-90.00	20,818.10	-573.24	1,353.79	1,028.41	325.38	4.161	
29,900.00	9,570.00	29,843.77	9,569.90	163.72	163.23	-90.00	20,918.10	-574.09	1,353.79	1,026.91	326.88	4.142	
30,000.00	9,570.00	29,943.77	9,569.90	164.48	163.98	-90.00	21,018.10	-574.93	1,353.79	1,025.40	328.39	4.123	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
30,100.00	9,570.00	30,043.77	9,569.90	165.23	164.73	-90.00	21,118.09	-575.78	1,353.79	1,023.90	329.89	4.104	
30,200.00	9,570.00	30,143.77	9,569.90	165.98	165.48	-90.00	21,218.09	-576.62	1,353.79	1,022.39	331.40	4.085	
30,264.95	9,570.00	30,208.72	9,569.90	166.47	165.97	-90.00	21,283.04	-577.17	1,353.79	1,021.41	332.38	4.073	SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
0.00	0.00	0.00	11.00	0.00	0.00	89.79	9.66	2,612.81	2,612.85				
100.00	100.00	89.00	100.00	0.26	0.25	89.79	9.66	2,612.81	2,612.83	2,612.32	0.51	5,131.868	
200.00	200.00	189.00	200.00	0.62	0.60	89.79	9.66	2,612.81	2,612.83	2,611.61	1.22	2,146.921	
300.00	300.00	289.00	300.00	0.98	0.95	89.79	9.66	2,612.81	2,612.83	2,610.89	1.93	1,351.029	
400.00	400.00	389.00	400.00	1.34	1.31	89.79	9.66	2,612.81	2,612.83	2,610.18	2.65	985.639	
500.00	500.00	489.00	500.00	1.70	1.67	89.79	9.66	2,612.81	2,612.83	2,609.46	3.37	775.817	
600.00	599.98	679.21	690.09	2.05	2.35	23.06	14.32	2,609.69	2,609.68	2,605.28	4.40	593.111	
700.00	699.84	774.55	785.26	2.41	2.69	23.07	19.03	2,606.55	2,601.59	2,596.50	5.09	510.763	
800.00	799.45	873.89	884.43	2.76	3.05	23.12	23.94	2,603.26	2,590.30	2,584.50	5.80	446.298	
900.00	898.74	972.88	983.24	3.12	3.40	23.18	28.84	2,599.98	2,576.12	2,569.61	6.52	395.377	
1,000.00	997.97	1,071.79	1,081.98	3.48	3.76	23.18	33.74	2,596.71	2,561.43	2,554.21	7.22	354.719	
1,100.00	1,097.19	1,170.71	1,180.72	3.84	4.11	23.17	38.63	2,593.43	2,546.74	2,538.82	7.93	321.191	
1,200.00	1,196.42	1,269.62	1,279.46	4.20	4.47	23.17	43.53	2,590.16	2,532.05	2,523.42	8.64	293.097	
1,300.00	1,295.65	1,368.54	1,378.20	4.56	4.82	23.17	48.43	2,586.88	2,517.37	2,508.01	9.35	269.228	
1,400.00	1,394.87	1,467.45	1,476.94	4.93	5.18	23.17	53.32	2,583.61	2,502.68	2,492.61	10.06	248.707	
1,500.00	1,494.10	1,566.37	1,575.68	5.29	5.54	23.17	58.22	2,580.33	2,487.99	2,477.21	10.78	230.880	
1,600.00	1,593.32	1,665.28	1,674.42	5.66	5.89	23.16	63.11	2,577.06	2,473.30	2,461.81	11.49	215.252	
1,700.00	1,692.55	1,764.20	1,773.16	6.02	6.25	23.16	68.01	2,573.78	2,458.61	2,446.40	12.20	201.444	
1,800.00	1,791.77	1,863.12	1,871.90	6.39	6.60	23.16	72.91	2,570.51	2,443.92	2,431.00	12.92	189.156	
1,900.00	1,891.00	1,962.03	1,970.64	6.75	6.96	23.16	77.80	2,567.23	2,429.23	2,415.59	13.64	178.152	
2,000.00	1,990.22	2,060.95	2,069.38	7.12	7.32	23.16	82.70	2,563.96	2,414.54	2,400.19	14.35	168.241	
2,100.00	2,089.45	2,159.86	2,168.12	7.48	7.67	23.15	87.59	2,560.68	2,399.85	2,384.78	15.07	159.268	
2,200.00	2,188.67	2,258.78	2,266.86	7.85	8.03	23.15	92.49	2,557.41	2,385.16	2,369.37	15.78	151.107	
2,300.00	2,287.90	2,357.69	2,365.60	8.22	8.38	23.15	97.39	2,554.14	2,370.47	2,353.97	16.50	143.653	
2,400.00	2,387.13	2,456.61	2,464.34	8.58	8.74	23.15	102.28	2,550.86	2,355.78	2,338.56	17.22	136.818	
2,500.00	2,486.35	2,555.52	2,563.08	8.95	9.10	23.15	107.18	2,547.59	2,341.09	2,323.15	17.94	130.528	
2,600.00	2,585.58	2,654.44	2,661.82	9.32	9.45	23.14	112.07	2,544.31	2,326.40	2,307.75	18.65	124.721	
2,700.00	2,684.80	2,753.35	2,760.55	9.69	9.81	23.14	116.97	2,541.04	2,311.71	2,292.34	19.37	119.343	
2,800.00	2,784.03	2,852.27	2,859.29	10.05	10.17	23.14	121.87	2,537.76	2,297.02	2,276.93	20.09	114.348	
2,900.00	2,883.25	2,951.18	2,958.03	10.42	10.52	23.14	126.76	2,534.49	2,282.33	2,261.53	20.81	109.698	
3,000.00	2,982.48	3,050.10	3,056.77	10.79	10.88	23.13	131.66	2,531.21	2,267.64	2,246.12	21.52	105.357	
3,100.00	3,081.70	3,149.01	3,155.51	11.15	11.24	23.13	136.55	2,527.94	2,252.95	2,230.71	22.24	101.295	
3,200.00	3,180.93	3,247.93	3,254.25	11.52	11.59	23.13	141.45	2,524.66	2,238.26	2,215.30	22.96	97.488	
3,300.00	3,280.15	3,346.84	3,352.99	11.89	11.95	23.13	146.35	2,521.39	2,223.57	2,199.90	23.68	93.910	
3,400.00	3,379.38	3,445.76	3,451.73	12.26	12.31	23.13	151.24	2,518.11	2,208.88	2,184.49	24.40	90.544	
3,500.00	3,478.61	3,544.67	3,550.47	12.62	12.66	23.12	156.14	2,514.84	2,194.20	2,169.08	25.11	87.369	
3,600.00	3,577.83	3,643.59	3,649.21	12.99	13.02	23.12	161.03	2,511.57	2,179.51	2,153.67	25.83	84.371	
3,700.00	3,677.06	3,742.50	3,747.95	13.36	13.38	23.12	165.93	2,508.29	2,164.82	2,138.27	26.55	81.535	
3,800.00	3,776.28	3,841.42	3,846.69	13.73	13.73	23.12	170.83	2,505.02	2,150.13	2,122.86	27.27	78.848	
3,900.00	3,875.51	3,940.33	3,945.43	14.09	14.09	23.11	175.72	2,501.74	2,135.44	2,107.45	27.99	76.299	
4,000.00	3,974.73	4,039.25	4,044.17	14.46	14.45	23.11	180.62	2,498.47	2,120.75	2,092.04	28.71	73.877	
4,100.00	4,073.96	4,138.16	4,142.91	14.83	14.80	23.11	185.51	2,495.19	2,106.06	2,076.63	29.43	71.574	
4,200.00	4,173.18	4,237.08	4,241.65	15.20	15.16	23.10	190.41	2,491.92	2,091.37	2,061.22	30.14	69.380	
4,300.00	4,272.41	4,335.99	4,340.39	15.56	15.52	23.10	195.31	2,488.64	2,076.68	2,045.82	30.86	67.288	
4,400.00	4,371.63	4,434.91	4,439.13	15.93	15.87	23.10	200.20	2,485.37	2,061.99	2,030.41	31.58	65.292	
4,500.00	4,470.86	4,533.82	4,537.87	16.30	16.23	23.10	205.10	2,482.09	2,047.30	2,015.00	32.30	63.384	
4,600.00	4,570.08	4,632.74	4,636.61	16.67	16.59	23.09	209.99	2,478.82	2,032.61	1,999.59	33.02	61.559	
4,700.00	4,669.31	4,731.65	4,735.35	17.04	16.94	23.09	214.89	2,475.54	2,017.92	1,984.18	33.74	59.812	
4,800.00	4,768.54	4,830.57	4,834.09	17.40	17.30	23.09	219.79	2,472.27	2,003.23	1,968.78	34.46	58.137	
4,900.00	4,867.76	4,929.49	4,932.83	17.77	17.66	23.08	224.68	2,469.00	1,988.54	1,953.37	35.18	56.531	
5,000.00	4,966.99	5,028.40	5,031.57	18.14	18.01	23.08	229.58	2,465.72	1,973.85	1,937.96	35.89	54.990	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
5,100.00	5,066.21	5,127.32	5,130.31	18.51	18.37	23.08	234.47	2,462.45	1,959.16	1,922.55	36.61	53.509	
5,200.00	5,165.44	5,226.23	5,229.05	18.88	18.73	23.08	239.37	2,459.17	1,944.47	1,907.14	37.33	52.084	
5,300.00	5,264.66	5,325.15	5,327.79	19.24	19.08	23.07	244.27	2,455.90	1,929.78	1,891.73	38.05	50.714	
5,400.00	5,363.89	5,424.06	5,426.53	19.61	19.44	23.07	249.16	2,452.62	1,915.10	1,876.32	38.77	49.394	
5,500.00	5,463.11	5,522.98	5,525.26	19.98	19.80	23.07	254.06	2,449.35	1,900.41	1,860.92	39.49	48.123	
5,600.00	5,562.34	5,621.89	5,624.00	20.35	20.15	23.06	258.95	2,446.07	1,885.72	1,845.51	40.21	46.897	
5,700.00	5,661.56	5,720.81	5,722.74	20.72	20.51	23.06	263.85	2,442.80	1,871.03	1,830.10	40.93	45.714	
5,800.00	5,760.79	5,819.72	5,821.48	21.08	20.87	23.06	268.75	2,439.52	1,856.34	1,814.69	41.65	44.571	
5,900.00	5,860.02	5,918.64	5,920.22	21.45	21.22	23.05	273.64	2,436.25	1,841.65	1,799.28	42.37	43.468	
6,000.00	5,959.24	6,017.55	6,018.96	21.82	21.58	23.05	278.54	2,432.97	1,826.96	1,783.87	43.09	42.401	
6,100.00	6,058.47	6,116.47	6,117.70	22.19	21.94	23.04	283.43	2,429.70	1,812.27	1,768.46	43.81	41.370	
6,200.00	6,157.69	6,215.38	6,216.44	22.56	22.29	23.04	288.33	2,426.43	1,797.58	1,753.05	44.53	40.371	
6,300.00	6,256.92	6,314.30	6,315.18	22.93	22.65	23.04	293.23	2,423.15	1,782.89	1,737.65	45.25	39.405	
6,400.00	6,356.14	6,413.21	6,413.92	23.29	23.01	23.03	298.12	2,419.88	1,768.20	1,722.24	45.97	38.468	
6,500.00	6,455.37	6,512.13	6,512.66	23.66	23.36	23.03	303.02	2,416.60	1,753.51	1,706.83	46.68	37.561	
6,600.00	6,554.59	6,611.04	6,611.40	24.03	23.72	23.03	307.91	2,413.33	1,738.82	1,691.42	47.40	36.680	
6,700.00	6,653.82	6,709.96	6,710.14	24.40	24.08	23.02	312.81	2,410.05	1,724.13	1,676.01	48.12	35.827	
6,800.00	6,753.04	6,808.87	6,808.88	24.77	24.43	23.02	317.71	2,406.78	1,709.44	1,660.60	48.84	34.998	
6,900.00	6,852.27	6,907.79	6,907.62	25.14	24.79	23.01	322.60	2,403.50	1,694.75	1,645.19	49.56	34.193	
7,000.00	6,951.50	7,006.70	7,006.36	25.50	25.15	23.01	327.50	2,400.23	1,680.07	1,629.78	50.28	33.412	
7,100.00	7,050.72	7,105.62	7,105.10	25.87	25.51	23.01	332.39	2,396.95	1,665.38	1,614.37	51.00	32.652	
7,200.00	7,149.95	7,204.53	7,203.84	26.24	25.86	23.00	337.29	2,393.68	1,650.69	1,598.96	51.72	31.914	
7,300.00	7,249.17	7,303.45	7,302.58	26.61	26.22	23.00	342.19	2,390.40	1,636.00	1,583.55	52.44	31.196	
7,400.00	7,348.40	7,402.36	7,401.32	26.98	26.58	22.99	347.08	2,387.13	1,621.31	1,568.15	53.16	30.497	
7,500.00	7,447.62	7,501.28	7,500.06	27.35	26.93	22.99	351.98	2,383.86	1,606.62	1,552.74	53.88	29.817	
7,600.00	7,546.85	7,600.19	7,598.80	27.71	27.29	22.98	356.87	2,380.58	1,591.93	1,537.33	54.60	29.155	
7,700.00	7,646.07	7,699.11	7,697.54	28.08	27.65	22.98	361.77	2,377.31	1,577.24	1,521.92	55.32	28.510	
7,800.00	7,745.30	7,798.02	7,796.28	28.45	28.00	22.97	366.67	2,374.03	1,562.55	1,506.51	56.04	27.881	
7,900.00	7,844.52	7,896.94	7,895.02	28.82	28.36	22.97	371.56	2,370.76	1,547.86	1,491.10	56.76	27.269	
8,000.00	7,943.75	7,995.86	7,993.76	29.19	28.72	22.96	376.46	2,367.48	1,533.17	1,475.69	57.48	26.672	
8,100.00	8,042.98	8,094.77	8,092.50	29.56	29.07	22.96	381.35	2,364.21	1,518.48	1,460.28	58.20	26.089	
8,200.00	8,142.20	8,193.69	8,191.23	29.92	29.43	22.95	386.25	2,360.93	1,503.79	1,444.87	58.92	25.521	
8,300.00	8,241.43	8,292.60	8,289.97	30.29	29.79	22.95	391.15	2,357.66	1,489.11	1,429.46	59.64	24.967	
8,400.00	8,340.65	8,391.52	8,388.71	30.66	30.14	22.94	396.04	2,354.38	1,474.42	1,414.05	60.36	24.425	
8,500.00	8,439.88	8,490.43	8,487.45	31.03	30.50	22.94	400.94	2,351.11	1,459.73	1,398.64	61.08	23.897	
8,600.00	8,539.10	8,589.35	8,586.19	31.40	30.86	22.93	405.83	2,347.83	1,445.04	1,383.23	61.80	23.381	
8,700.00	8,638.33	8,688.26	8,684.93	31.77	31.21	22.93	410.73	2,344.56	1,430.35	1,367.82	62.53	22.876	
8,800.00	8,737.55	8,787.18	8,783.67	32.14	31.57	22.92	415.63	2,341.29	1,415.66	1,352.41	63.25	22.383	
8,900.00	8,836.78	8,886.09	8,882.41	32.51	31.93	22.91	420.52	2,338.01	1,400.97	1,337.00	63.97	21.902	
9,000.00	8,936.08	8,985.16	8,981.31	32.87	32.29	43.64	425.43	2,334.73	1,387.47	1,322.78	64.69	21.450	
9,100.00	9,035.51	9,044.97	9,041.02	33.23	32.50	80.35	428.58	2,333.53	1,380.72	1,315.38	65.33	21.134	
9,188.34	9,122.53	9,129.24	9,124.49	33.54	32.81	89.71	439.59	2,333.41	1,379.73	1,313.79	65.94	20.924	
9,200.00	9,134.12	9,141.01	9,135.99	33.58	32.85	90.22	442.10	2,333.39	1,380.35	1,314.33	66.02	20.908	
9,300.00	9,228.64	9,242.62	9,232.51	33.93	33.21	90.29	473.43	2,333.05	1,380.29	1,313.58	66.71	20.691	
9,400.00	9,316.12	9,344.48	9,322.20	34.26	33.54	90.35	521.43	2,332.54	1,380.19	1,312.82	67.37	20.486	
9,500.00	9,393.91	9,446.54	9,402.12	34.55	33.84	90.40	584.67	2,331.87	1,380.06	1,312.07	68.00	20.296	
9,600.00	9,459.64	9,548.71	9,469.65	34.79	34.08	90.44	661.16	2,331.05	1,379.90	1,311.33	68.57	20.125	
9,700.00	9,511.32	9,650.94	9,522.56	34.99	34.29	90.46	748.47	2,330.12	1,379.71	1,310.64	69.08	19.973	
9,800.00	9,547.36	9,753.15	9,559.13	35.14	34.50	90.47	843.77	2,329.10	1,379.50	1,309.99	69.52	19.843	
9,900.00	9,566.69	9,855.28	9,578.19	35.27	34.67	90.47	943.95	2,328.03	1,379.28	1,309.40	69.89	19.736	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
10,000.00	9,570.00	9,956.39	9,581.00	35.39	34.82	90.46	1,044.97	2,326.96	1,379.06	1,308.88	70.18	19.650	
10,100.00	9,570.00	10,056.39	9,581.00	35.54	34.97	90.46	1,144.97	2,325.89	1,378.84	1,308.35	70.49	19.562	
10,200.00	9,570.00	10,156.39	9,581.00	35.71	35.14	90.46	1,244.96	2,324.82	1,378.62	1,307.79	70.83	19.465	
10,300.00	9,570.00	10,256.39	9,581.00	35.91	35.32	90.46	1,344.95	2,323.76	1,378.40	1,307.20	71.20	19.361	
10,400.00	9,570.00	10,356.39	9,581.00	36.12	35.52	90.46	1,444.95	2,322.69	1,378.18	1,306.58	71.60	19.249	
10,500.00	9,570.00	10,456.39	9,581.00	36.34	35.74	90.46	1,544.94	2,321.62	1,377.96	1,305.93	72.03	19.131	
10,600.00	9,570.00	10,556.39	9,581.00	36.58	35.97	90.46	1,644.94	2,320.56	1,377.74	1,305.25	72.49	19.006	
10,700.00	9,570.00	10,656.39	9,581.00	36.84	36.22	90.46	1,744.93	2,319.49	1,377.52	1,304.53	72.98	18.875	
10,800.00	9,570.00	10,756.39	9,581.00	37.11	36.48	90.46	1,844.92	2,318.43	1,377.30	1,303.79	73.50	18.738	
10,900.00	9,570.00	10,856.39	9,581.00	37.39	36.75	90.46	1,944.92	2,317.36	1,377.07	1,303.02	74.05	18.596	
11,000.00	9,570.00	10,956.39	9,581.00	37.69	37.04	90.46	2,044.91	2,316.29	1,376.85	1,302.23	74.63	18.449	
11,100.00	9,570.00	11,056.39	9,581.00	38.00	37.34	90.46	2,144.91	2,315.23	1,376.63	1,301.40	75.23	18.298	
11,200.00	9,570.00	11,156.39	9,581.00	38.32	37.66	90.46	2,244.90	2,314.16	1,376.41	1,300.55	75.86	18.143	
11,300.00	9,570.00	11,256.39	9,581.00	38.66	37.99	90.46	2,344.90	2,313.09	1,376.19	1,299.67	76.52	17.985	
11,400.00	9,570.00	11,356.39	9,581.00	39.00	38.33	90.46	2,444.89	2,312.03	1,375.97	1,298.77	77.20	17.823	
11,500.00	9,570.00	11,456.39	9,581.00	39.36	38.68	90.46	2,544.88	2,310.96	1,375.75	1,297.85	77.91	17.659	
11,600.00	9,570.00	11,556.39	9,581.00	39.73	39.05	90.46	2,644.88	2,309.89	1,375.53	1,296.90	78.64	17.492	
11,700.00	9,570.00	11,656.39	9,581.00	40.11	39.43	90.46	2,744.87	2,308.83	1,375.31	1,295.92	79.39	17.324	
11,800.00	9,570.00	11,756.39	9,581.00	40.50	39.81	90.46	2,844.87	2,307.76	1,375.09	1,294.93	80.16	17.153	
11,900.00	9,570.00	11,856.39	9,581.00	40.90	40.21	90.46	2,944.86	2,306.70	1,374.87	1,293.91	80.96	16.982	
12,000.00	9,570.00	11,956.39	9,581.00	41.31	40.62	90.46	3,044.85	2,305.63	1,374.65	1,292.87	81.78	16.809	
12,100.00	9,570.00	12,056.39	9,581.00	41.74	41.04	90.46	3,144.85	2,304.56	1,374.43	1,291.81	82.62	16.636	
12,200.00	9,570.00	12,156.39	9,581.00	42.17	41.48	90.46	3,244.84	2,303.50	1,374.21	1,290.73	83.48	16.462	
12,300.00	9,570.00	12,256.39	9,581.00	42.61	41.92	90.46	3,344.84	2,302.43	1,373.99	1,289.63	84.36	16.288	
12,400.00	9,570.00	12,356.39	9,581.00	43.06	42.36	90.46	3,444.83	2,301.36	1,373.77	1,288.52	85.25	16.114	
12,500.00	9,570.00	12,456.39	9,581.00	43.52	42.82	90.46	3,544.82	2,300.30	1,373.55	1,287.38	86.17	15.941	
12,600.00	9,570.00	12,556.39	9,581.00	43.99	43.29	90.46	3,644.82	2,299.23	1,373.33	1,286.23	87.10	15.767	
12,700.00	9,570.00	12,656.39	9,581.00	44.46	43.77	90.46	3,744.81	2,298.16	1,373.11	1,285.06	88.05	15.595	
12,800.00	9,570.00	12,756.39	9,581.00	44.94	44.25	90.46	3,844.81	2,297.10	1,372.89	1,283.87	89.02	15.423	
12,900.00	9,570.00	12,856.39	9,581.00	45.44	44.74	90.46	3,944.80	2,296.03	1,372.67	1,282.67	90.00	15.252	
13,000.00	9,570.00	12,956.39	9,581.00	45.94	45.24	90.46	4,044.79	2,294.96	1,372.45	1,281.45	91.00	15.083	
13,100.00	9,570.00	13,056.39	9,581.00	46.44	45.75	90.46	4,144.79	2,293.90	1,372.23	1,280.22	92.01	14.914	
13,200.00	9,570.00	13,156.39	9,581.00	46.95	46.27	90.46	4,244.78	2,292.83	1,372.01	1,278.97	93.04	14.747	
13,300.00	9,570.00	13,256.39	9,581.00	47.47	46.79	90.46	4,344.78	2,291.77	1,371.79	1,277.71	94.08	14.582	
13,400.00	9,570.00	13,356.39	9,581.00	48.00	47.32	90.46	4,444.77	2,290.70	1,371.57	1,276.43	95.13	14.418	
13,500.00	9,570.00	13,456.39	9,581.00	48.54	47.85	90.46	4,544.76	2,289.63	1,371.35	1,275.15	96.20	14.255	
13,600.00	9,570.00	13,556.39	9,581.00	49.07	48.39	90.46	4,644.76	2,288.57	1,371.13	1,273.85	97.28	14.095	
13,700.00	9,570.00	13,656.38	9,581.00	49.62	48.94	90.46	4,744.75	2,287.50	1,370.90	1,272.53	98.37	13.936	
13,800.00	9,570.00	13,756.38	9,581.00	50.17	49.49	90.46	4,844.75	2,286.43	1,370.68	1,271.21	99.48	13.779	
13,900.00	9,570.00	13,856.38	9,581.00	50.73	50.05	90.46	4,944.74	2,285.37	1,370.46	1,269.87	100.59	13.624	
14,000.00	9,570.00	13,956.38	9,581.00	51.29	50.62	90.46	5,044.74	2,284.30	1,370.24	1,268.53	101.72	13.471	
14,100.00	9,570.00	14,056.38	9,581.00	51.86	51.19	90.46	5,144.73	2,283.23	1,370.02	1,267.17	102.86	13.320	
14,200.00	9,570.00	14,156.38	9,581.00	52.43	51.76	90.46	5,244.72	2,282.17	1,369.80	1,265.80	104.00	13.171	
14,300.00	9,570.00	14,256.38	9,581.00	53.01	52.34	90.46	5,344.72	2,281.10	1,369.58	1,264.42	105.16	13.024	
14,400.00	9,570.00	14,356.38	9,581.00	53.59	52.93	90.46	5,444.71	2,280.04	1,369.36	1,263.03	106.33	12.878	
14,500.00	9,570.00	14,456.38	9,581.00	54.18	53.52	90.46	5,544.71	2,278.97	1,369.14	1,261.64	107.51	12.735	
14,600.00	9,570.00	14,556.38	9,581.00	54.77	54.11	90.46	5,644.70	2,277.90	1,368.92	1,260.23	108.69	12.594	
14,700.00	9,570.00	14,656.38	9,581.00	55.37	54.71	90.46	5,744.69	2,276.84	1,368.70	1,258.81	109.89	12.456	
14,800.00	9,570.00	14,756.38	9,581.00	55.97	55.31	90.46	5,844.69	2,275.77	1,368.48	1,257.39	111.09	12.319	
14,900.00	9,570.00	14,856.38	9,581.00	56.57	55.92	90.46	5,944.68	2,274.70	1,368.26	1,255.96	112.30	12.184	
15,000.00	9,570.00	14,956.38	9,581.00	57.18	56.53	90.46	6,044.68	2,273.64	1,368.04	1,254.52	113.52	12.051	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
15,100.00	9,570.00	15,056.38	9,581.00	57.79	57.15	90.46	6,144.67	2,272.57	1,367.82	1,253.07	114.75	11.920	
15,200.00	9,570.00	15,156.38	9,581.00	58.41	57.77	90.46	6,244.66	2,271.50	1,367.60	1,251.62	115.98	11.791	
15,300.00	9,570.00	15,256.38	9,581.00	59.03	58.39	90.46	6,344.66	2,270.44	1,367.38	1,250.15	117.22	11.665	
15,400.00	9,570.00	15,356.38	9,581.00	59.65	59.01	90.46	6,444.65	2,269.37	1,367.16	1,248.68	118.47	11.540	
15,500.00	9,570.00	15,456.38	9,581.00	60.27	59.64	90.46	6,544.65	2,268.30	1,366.94	1,247.21	119.73	11.417	
15,600.00	9,570.00	15,556.38	9,581.00	60.90	60.27	90.46	6,644.64	2,267.24	1,366.72	1,245.73	120.99	11.296	
15,700.00	9,570.00	15,656.38	9,581.00	61.54	60.91	90.46	6,744.63	2,266.17	1,366.50	1,244.24	122.26	11.177	
15,800.00	9,570.00	15,756.38	9,581.00	62.17	61.55	90.46	6,844.63	2,265.11	1,366.28	1,242.74	123.53	11.060	
15,900.00	9,570.00	15,856.38	9,581.00	62.81	62.19	90.46	6,944.62	2,264.04	1,366.06	1,241.24	124.82	10.945	
16,000.00	9,570.00	15,956.38	9,581.00	63.45	62.83	90.46	7,044.62	2,262.97	1,365.84	1,239.73	126.10	10.831	
16,100.00	9,570.00	16,056.38	9,581.00	64.10	63.48	90.46	7,144.61	2,261.91	1,365.62	1,238.22	127.39	10.720	
16,200.00	9,570.00	16,156.38	9,581.00	64.74	64.13	90.46	7,244.60	2,260.84	1,365.40	1,236.70	128.69	10.610	
16,300.00	9,570.00	16,256.38	9,581.00	65.39	64.78	90.46	7,344.60	2,259.77	1,365.18	1,235.18	129.99	10.502	
16,400.00	9,570.00	16,356.38	9,581.00	66.05	65.44	90.46	7,444.59	2,258.71	1,364.95	1,233.65	131.30	10.396	
16,500.00	9,570.00	16,456.38	9,581.00	66.70	66.10	90.46	7,544.59	2,257.64	1,364.73	1,232.12	132.61	10.291	
16,600.00	9,570.00	16,556.38	9,581.00	67.36	66.76	90.46	7,644.58	2,256.57	1,364.51	1,230.58	133.93	10.188	
16,700.00	9,570.00	16,656.38	9,581.00	68.02	67.42	90.46	7,744.58	2,255.51	1,364.29	1,229.04	135.25	10.087	
16,800.00	9,570.00	16,756.38	9,581.00	68.68	68.08	90.46	7,844.57	2,254.44	1,364.07	1,227.49	136.58	9.987	
16,900.00	9,570.00	16,856.38	9,581.00	69.34	68.75	90.46	7,944.56	2,253.37	1,363.85	1,225.94	137.91	9.889	
17,000.00	9,570.00	16,956.38	9,581.00	70.01	69.42	90.46	8,044.56	2,252.31	1,363.63	1,224.38	139.25	9.793	
17,100.00	9,570.00	17,056.38	9,581.00	70.68	70.09	90.46	8,144.55	2,251.24	1,363.41	1,222.82	140.59	9.698	
17,200.00	9,570.00	17,156.38	9,581.00	71.35	70.76	90.46	8,244.55	2,250.18	1,363.19	1,221.26	141.93	9.605	
17,300.00	9,570.00	17,256.38	9,581.00	72.02	71.44	90.46	8,344.54	2,249.11	1,362.97	1,219.69	143.28	9.513	
17,400.00	9,570.00	17,356.38	9,581.00	72.69	72.11	90.46	8,444.53	2,248.04	1,362.75	1,218.12	144.63	9.422	
17,500.00	9,570.00	17,456.38	9,581.00	73.37	72.79	90.46	8,544.53	2,246.98	1,362.53	1,216.54	145.99	9.333	
17,600.00	9,570.00	17,556.38	9,581.00	74.05	73.47	90.46	8,644.52	2,245.91	1,362.31	1,214.96	147.35	9.246	
17,700.00	9,570.00	17,656.38	9,581.00	74.73	74.16	90.46	8,744.52	2,244.84	1,362.09	1,213.38	148.71	9.159	
17,800.00	9,570.00	17,756.38	9,581.00	75.41	74.84	90.46	8,844.51	2,243.78	1,361.87	1,211.80	150.07	9.075	
17,900.00	9,570.00	17,856.37	9,581.00	76.09	75.52	90.46	8,944.50	2,242.71	1,361.65	1,210.21	151.44	8.991	
18,000.00	9,570.00	17,956.37	9,581.00	76.78	76.21	90.46	9,044.50	2,241.64	1,361.43	1,208.61	152.82	8.909	
18,100.00	9,570.00	18,056.37	9,581.00	77.46	76.90	90.46	9,144.49	2,240.58	1,361.21	1,207.02	154.19	8.828	
18,200.00	9,570.00	18,156.37	9,581.00	78.15	77.59	90.46	9,244.49	2,239.51	1,360.99	1,205.42	155.57	8.748	
18,300.00	9,570.00	18,256.37	9,581.00	78.84	78.28	90.46	9,344.48	2,238.45	1,360.77	1,203.82	156.95	8.670	
18,400.00	9,570.00	18,356.37	9,581.00	79.53	78.98	90.46	9,444.47	2,237.38	1,360.55	1,202.21	158.34	8.593	
18,500.00	9,570.00	18,456.37	9,581.00	80.22	79.67	90.46	9,544.47	2,236.31	1,360.33	1,200.60	159.72	8.517	
18,600.00	9,570.00	18,556.37	9,581.00	80.92	80.37	90.46	9,644.46	2,235.25	1,360.11	1,198.99	161.11	8.442	
18,700.00	9,570.00	18,656.37	9,581.00	81.61	81.06	90.46	9,744.46	2,234.18	1,359.89	1,197.38	162.51	8.368	
18,800.00	9,570.00	18,756.37	9,581.00	82.31	81.76	90.46	9,844.45	2,233.11	1,359.67	1,195.76	163.90	8.296	
18,900.00	9,570.00	18,856.37	9,581.00	83.01	82.46	90.46	9,944.44	2,232.05	1,359.45	1,194.15	165.30	8.224	
19,000.00	9,570.00	18,956.37	9,581.00	83.70	83.16	90.46	10,044.44	2,230.98	1,359.23	1,192.52	166.70	8.154	
19,100.00	9,570.00	19,056.37	9,581.00	84.40	83.87	90.46	10,144.43	2,229.91	1,359.01	1,190.90	168.10	8.084	
19,200.00	9,570.00	19,156.37	9,581.00	85.11	84.57	90.46	10,244.43	2,228.85	1,358.78	1,189.28	169.51	8.016	
19,300.00	9,570.00	19,256.37	9,581.00	85.81	85.27	90.46	10,344.42	2,227.78	1,358.56	1,187.65	170.92	7.949	
19,400.00	9,570.00	19,356.37	9,581.00	86.51	85.98	90.46	10,444.42	2,226.71	1,358.34	1,186.02	172.33	7.882	
19,500.00	9,570.00	19,456.37	9,581.00	87.22	86.69	90.46	10,544.41	2,225.65	1,358.12	1,184.38	173.74	7.817	
19,600.00	9,570.00	19,556.37	9,581.00	87.92	87.39	90.46	10,644.40	2,224.58	1,357.90	1,182.75	175.15	7.753	
19,700.00	9,570.00	19,656.37	9,581.00	88.63	88.10	90.46	10,744.40	2,223.52	1,357.68	1,181.11	176.57	7.689	
19,800.00	9,570.00	19,756.37	9,581.00	89.34	88.81	90.46	10,844.39	2,222.45	1,357.46	1,179.47	177.99	7.627	
19,900.00	9,570.00	19,856.37	9,581.00	90.05	89.52	90.46	10,944.39	2,221.38	1,357.24	1,177.83	179.41	7.565	
20,000.00	9,570.00	19,956.37	9,581.00	90.76	90.24	90.46	11,044.38	2,220.32	1,357.02	1,176.19	180.83	7.504	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
20,100.00	9,570.00	20,056.37	9,581.00	91.47	90.95	90.46	11,144.37	2,219.25	1,356.80	1,174.55	182.26	7.445	
20,200.00	9,570.00	20,156.37	9,581.00	92.18	91.66	90.46	11,244.37	2,218.18	1,356.58	1,172.90	183.68	7.386	
20,300.00	9,570.00	20,256.37	9,581.00	92.89	92.38	90.46	11,344.36	2,217.12	1,356.36	1,171.25	185.11	7.327	
20,400.00	9,570.00	20,356.37	9,581.00	93.60	93.09	90.46	11,444.36	2,216.05	1,356.14	1,169.60	186.54	7.270	
20,500.00	9,570.00	20,456.37	9,581.00	94.32	93.81	90.46	11,544.35	2,214.98	1,355.92	1,167.95	187.97	7.213	
20,600.00	9,570.00	20,556.37	9,581.00	95.03	94.53	90.46	11,644.34	2,213.92	1,355.70	1,166.30	189.40	7.158	
20,700.00	9,570.00	20,656.37	9,581.00	95.75	95.24	90.46	11,744.34	2,212.85	1,355.48	1,164.64	190.84	7.103	
20,800.00	9,570.00	20,756.37	9,581.00	96.47	95.96	90.47	11,844.33	2,211.79	1,355.26	1,162.98	192.27	7.049	
20,900.00	9,570.00	20,856.37	9,581.00	97.19	96.68	90.47	11,944.33	2,210.72	1,355.04	1,161.33	193.71	6.995	
21,000.00	9,570.00	20,956.37	9,581.00	97.90	97.40	90.47	12,044.32	2,209.65	1,354.82	1,159.67	195.15	6.942	
21,100.00	9,570.00	21,056.37	9,581.00	98.62	98.13	90.47	12,144.31	2,208.59	1,354.60	1,158.00	196.59	6.890	
21,200.00	9,570.00	21,156.37	9,581.00	99.34	98.85	90.47	12,244.31	2,207.52	1,354.38	1,156.34	198.04	6.839	
21,300.00	9,570.00	21,256.37	9,581.00	100.06	99.57	90.47	12,344.30	2,206.45	1,354.16	1,154.68	199.48	6.788	
21,400.00	9,570.00	21,356.37	9,581.00	100.79	100.29	90.47	12,444.30	2,205.39	1,353.94	1,153.01	200.93	6.739	
21,500.00	9,570.00	21,456.37	9,581.00	101.51	101.02	90.47	12,544.29	2,204.32	1,353.72	1,151.34	202.37	6.689	
21,600.00	9,570.00	21,556.37	9,581.00	102.23	101.74	90.47	12,644.28	2,203.25	1,353.50	1,149.68	203.82	6.641	
21,700.00	9,570.00	21,656.37	9,581.00	102.95	102.47	90.47	12,744.28	2,202.19	1,353.28	1,148.01	205.27	6.593	
21,800.00	9,570.00	21,756.37	9,581.00	103.68	103.19	90.47	12,844.27	2,201.12	1,353.06	1,146.33	206.72	6.545	
21,900.00	9,570.00	21,856.37	9,581.00	104.40	103.92	90.47	12,944.27	2,200.05	1,352.83	1,144.66	208.17	6.499	
22,000.00	9,570.00	21,956.36	9,581.00	105.13	104.65	90.47	13,044.26	2,198.99	1,352.61	1,142.99	209.63	6.453	
22,100.00	9,570.00	22,056.36	9,581.00	105.86	105.38	90.47	13,144.26	2,197.92	1,352.39	1,141.31	211.08	6.407	
22,200.00	9,570.00	22,156.36	9,581.00	106.58	106.10	90.47	13,244.25	2,196.86	1,352.17	1,139.64	212.54	6.362	
22,300.00	9,570.00	22,256.36	9,581.00	107.31	106.83	90.47	13,344.24	2,195.79	1,351.95	1,137.96	213.99	6.318	
22,400.00	9,570.00	22,356.36	9,581.00	108.04	107.56	90.47	13,444.24	2,194.72	1,351.73	1,136.28	215.45	6.274	
22,500.00	9,570.00	22,456.36	9,581.00	108.77	108.29	90.47	13,544.23	2,193.66	1,351.51	1,134.60	216.91	6.231	
22,600.00	9,570.00	22,556.36	9,581.00	109.50	109.02	90.47	13,644.23	2,192.59	1,351.29	1,132.92	218.37	6.188	
22,700.00	9,570.00	22,656.36	9,581.00	110.22	109.75	90.47	13,744.22	2,191.52	1,351.07	1,131.24	219.83	6.146	
22,800.00	9,570.00	22,756.36	9,581.00	110.96	110.49	90.47	13,844.21	2,190.46	1,350.85	1,129.56	221.29	6.104	
22,900.00	9,570.00	22,856.36	9,581.00	111.69	111.22	90.47	13,944.21	2,189.39	1,350.63	1,127.87	222.76	6.063	
23,000.00	9,570.00	22,956.36	9,581.00	112.42	111.95	90.47	14,044.20	2,188.32	1,350.41	1,126.19	224.22	6.023	
23,100.00	9,570.00	23,056.36	9,581.00	113.15	112.68	90.47	14,144.20	2,187.26	1,350.19	1,124.50	225.69	5.983	
23,200.00	9,570.00	23,156.36	9,581.00	113.88	113.42	90.47	14,244.19	2,186.19	1,349.97	1,122.82	227.15	5.943	
23,300.00	9,570.00	23,256.36	9,581.00	114.61	114.15	90.47	14,344.18	2,185.12	1,349.75	1,121.13	228.62	5.904	
23,400.00	9,570.00	23,356.36	9,581.00	115.35	114.89	90.47	14,444.18	2,184.06	1,349.53	1,119.44	230.09	5.865	
23,500.00	9,570.00	23,456.36	9,581.00	116.08	115.62	90.47	14,544.17	2,182.99	1,349.31	1,117.75	231.56	5.827	
23,600.00	9,570.00	23,556.36	9,581.00	116.81	116.36	90.47	14,644.17	2,181.93	1,349.09	1,116.06	233.03	5.789	
23,700.00	9,570.00	23,656.36	9,581.00	117.55	117.09	90.47	14,744.16	2,180.86	1,348.87	1,114.37	234.50	5.752	
23,800.00	9,570.00	23,756.36	9,581.00	118.28	117.83	90.47	14,844.15	2,179.79	1,348.65	1,112.67	235.97	5.715	
23,900.00	9,570.00	23,856.36	9,581.00	119.02	118.57	90.47	14,944.15	2,178.73	1,348.43	1,110.98	237.45	5.679	
24,000.00	9,570.00	23,956.36	9,581.00	119.76	119.31	90.47	15,044.14	2,177.66	1,348.21	1,109.29	238.92	5.643	
24,100.00	9,570.00	24,056.36	9,581.00	120.49	120.04	90.47	15,144.14	2,176.59	1,347.99	1,107.59	240.39	5.607	
24,200.00	9,570.00	24,156.36	9,581.00	121.23	120.78	90.47	15,244.13	2,175.53	1,347.77	1,105.90	241.87	5.572	
24,300.00	9,570.00	24,256.36	9,581.00	121.97	121.52	90.47	15,344.12	2,174.46	1,347.55	1,104.20	243.35	5.538	
24,400.00	9,570.00	24,356.36	9,581.00	122.70	122.26	90.47	15,444.12	2,173.39	1,347.33	1,102.50	244.82	5.503	
24,500.00	9,570.00	24,456.36	9,581.00	123.44	123.00	90.47	15,544.11	2,172.33	1,347.11	1,100.81	246.30	5.469	
24,600.00	9,570.00	24,556.36	9,581.00	124.18	123.74	90.47	15,644.11	2,171.26	1,346.88	1,099.11	247.78	5.436	
24,700.00	9,570.00	24,656.36	9,581.00	124.92	124.48	90.47	15,744.10	2,170.20	1,346.66	1,097.41	249.26	5.403	
24,800.00	9,570.00	24,756.36	9,581.00	125.66	125.22	90.47	15,844.09	2,169.13	1,346.44	1,095.71	250.74	5.370	
24,900.00	9,570.00	24,856.36	9,581.00	126.40	125.96	90.47	15,944.09	2,168.06	1,346.22	1,094.01	252.22	5.338	
25,000.00	9,570.00	24,956.36	9,581.00	127.14	126.70	90.47	16,044.08	2,167.00	1,346.00	1,092.30	253.70	5.306	
25,100.00	9,570.00	25,056.36	9,581.00	127.88	127.44	90.47	16,144.08	2,165.93	1,345.78	1,090.60	255.18	5.274	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
25,200.00	9,570.00	25,156.36	9,581.00	128.62	128.18	90.47	16,244.07	2,164.86	1,345.56	1,088.90	256.66	5.243	
25,300.00	9,570.00	25,256.36	9,581.00	129.36	128.93	90.47	16,344.07	2,163.80	1,345.34	1,087.20	258.15	5.212	
25,400.00	9,570.00	25,356.36	9,581.00	130.10	129.67	90.47	16,444.06	2,162.73	1,345.12	1,085.49	259.63	5.181	
25,500.00	9,570.00	25,456.36	9,581.00	130.84	130.41	90.47	16,544.05	2,161.66	1,344.90	1,083.79	261.12	5.151	
25,600.00	9,570.00	25,556.36	9,581.00	131.58	131.15	90.47	16,644.05	2,160.60	1,344.68	1,082.08	262.60	5.121	
25,700.00	9,570.00	25,656.36	9,581.00	132.33	131.90	90.47	16,744.04	2,159.53	1,344.46	1,080.37	264.09	5.091	
25,800.00	9,570.00	25,756.36	9,581.00	133.07	132.64	90.47	16,844.04	2,158.46	1,344.24	1,078.67	265.57	5.062	
25,900.00	9,570.00	25,856.36	9,581.00	133.81	133.39	90.47	16,944.03	2,157.40	1,344.02	1,076.96	267.06	5.033	
26,000.00	9,570.00	25,956.36	9,581.00	134.55	134.13	90.47	17,044.02	2,156.33	1,343.80	1,075.25	268.55	5.004	
26,100.00	9,570.00	26,056.36	9,581.00	135.30	134.87	90.47	17,144.02	2,155.27	1,343.58	1,073.54	270.04	4.976	
26,200.00	9,570.00	26,156.35	9,581.00	136.04	135.62	90.47	17,244.01	2,154.20	1,343.36	1,071.83	271.53	4.947	
26,300.00	9,570.00	26,256.35	9,581.00	136.78	136.36	90.47	17,344.01	2,153.13	1,343.14	1,070.12	273.01	4.920	
26,400.00	9,570.00	26,356.35	9,581.00	137.53	137.11	90.47	17,444.00	2,152.07	1,342.92	1,068.41	274.50	4.892	
26,500.00	9,570.00	26,456.35	9,581.00	138.27	137.86	90.47	17,543.99	2,151.00	1,342.70	1,066.70	276.00	4.865	
26,600.00	9,570.00	26,556.35	9,581.00	139.02	138.60	90.47	17,643.99	2,149.93	1,342.48	1,064.99	277.49	4.838	
26,700.00	9,570.00	26,656.35	9,581.00	139.76	139.35	90.47	17,743.98	2,148.87	1,342.26	1,063.28	278.98	4.811	
26,800.00	9,570.00	26,756.35	9,581.00	140.51	140.09	90.47	17,843.98	2,147.80	1,342.04	1,061.57	280.47	4.785	
26,900.00	9,570.00	26,856.35	9,581.00	141.25	140.84	90.47	17,943.97	2,146.73	1,341.82	1,059.85	281.96	4.759	
27,000.00	9,570.00	26,956.35	9,581.00	142.00	141.59	90.47	18,043.96	2,145.67	1,341.60	1,058.14	283.46	4.733	
27,100.00	9,570.00	27,056.35	9,581.00	142.75	142.33	90.47	18,143.96	2,144.60	1,341.38	1,056.43	284.95	4.707	
27,200.00	9,570.00	27,156.35	9,581.00	143.49	143.08	90.47	18,243.95	2,143.54	1,341.16	1,054.71	286.44	4.682	
27,300.00	9,570.00	27,256.35	9,581.00	144.24	143.83	90.47	18,343.95	2,142.47	1,340.94	1,053.00	287.94	4.657	
27,400.00	9,570.00	27,356.35	9,581.00	144.99	144.58	90.47	18,443.94	2,141.40	1,340.71	1,051.28	289.43	4.632	
27,500.00	9,570.00	27,456.35	9,581.00	145.73	145.33	90.47	18,543.93	2,140.34	1,340.49	1,049.57	290.93	4.608	
27,600.00	9,570.00	27,556.35	9,581.00	146.48	146.07	90.47	18,643.93	2,139.27	1,340.27	1,047.85	292.42	4.583	
27,700.00	9,570.00	27,656.35	9,581.00	147.23	146.82	90.47	18,743.92	2,138.20	1,340.05	1,046.13	293.92	4.559	
27,800.00	9,570.00	27,756.35	9,581.00	147.97	147.57	90.47	18,843.92	2,137.14	1,339.83	1,044.42	295.42	4.535	
27,900.00	9,570.00	27,856.35	9,581.00	148.72	148.32	90.47	18,943.91	2,136.07	1,339.61	1,042.70	296.91	4.512	
28,000.00	9,570.00	27,956.35	9,581.00	149.47	149.07	90.47	19,043.91	2,135.00	1,339.39	1,040.98	298.41	4.488	
28,100.00	9,570.00	28,056.35	9,581.00	150.22	149.82	90.47	19,143.90	2,133.94	1,339.17	1,039.26	299.91	4.465	
28,200.00	9,570.00	28,156.35	9,581.00	150.97	150.57	90.47	19,243.89	2,132.87	1,338.95	1,037.54	301.41	4.442	
28,300.00	9,570.00	28,256.35	9,581.00	151.72	151.32	90.47	19,343.89	2,131.80	1,338.73	1,035.82	302.91	4.420	
28,400.00	9,570.00	28,356.35	9,581.00	152.47	152.07	90.47	19,443.88	2,130.74	1,338.51	1,034.10	304.41	4.397	
28,500.00	9,570.00	28,456.35	9,581.00	153.22	152.82	90.47	19,543.88	2,129.67	1,338.29	1,032.38	305.91	4.375	
28,600.00	9,570.00	28,556.35	9,581.00	153.96	153.57	90.47	19,643.87	2,128.61	1,338.07	1,030.66	307.41	4.353	
28,700.00	9,570.00	28,656.35	9,581.00	154.71	154.32	90.47	19,743.86	2,127.54	1,337.85	1,028.94	308.91	4.331	
28,800.00	9,570.00	28,756.35	9,581.00	155.46	155.07	90.47	19,843.86	2,126.47	1,337.63	1,027.22	310.41	4.309	
28,900.00	9,570.00	28,856.35	9,581.00	156.21	155.82	90.47	19,943.85	2,125.41	1,337.41	1,025.50	311.91	4.288	
29,000.00	9,570.00	28,956.35	9,581.00	156.96	156.57	90.47	20,043.85	2,124.34	1,337.19	1,023.78	313.41	4.267	
29,100.00	9,570.00	29,056.35	9,581.00	157.71	157.33	90.47	20,143.84	2,123.27	1,336.97	1,022.06	314.91	4.246	
29,200.00	9,570.00	29,156.35	9,581.00	158.47	158.08	90.47	20,243.83	2,122.21	1,336.75	1,020.33	316.42	4.225	
29,300.00	9,570.00	29,256.35	9,581.00	159.22	158.83	90.47	20,343.83	2,121.14	1,336.53	1,018.61	317.92	4.204	
29,400.00	9,570.00	29,356.35	9,581.00	159.97	159.58	90.47	20,443.82	2,120.07	1,336.31	1,016.89	319.42	4.184	
29,500.00	9,570.00	29,456.35	9,581.00	160.72	160.33	90.47	20,543.82	2,119.01	1,336.09	1,015.16	320.93	4.163	
29,600.00	9,570.00	29,556.35	9,581.00	161.47	161.08	90.47	20,643.81	2,117.94	1,335.87	1,013.44	322.43	4.143	
29,700.00	9,570.00	29,656.35	9,581.00	162.22	161.84	90.47	20,743.80	2,116.87	1,335.65	1,011.71	323.93	4.123	
29,800.00	9,570.00	29,756.35	9,581.00	162.97	162.59	90.47	20,843.80	2,115.81	1,335.43	1,009.99	325.44	4.103	
29,900.00	9,570.00	29,856.35	9,581.00	163.72	163.34	90.47	20,943.79	2,114.74	1,335.21	1,008.26	326.94	4.084	
30,000.00	9,570.00	29,956.35	9,581.00	164.48	164.10	90.47	21,043.79	2,113.68	1,334.99	1,006.54	328.45	4.065	
30,100.00	9,570.00	30,056.35	9,581.00	165.23	164.85	90.47	21,143.78	2,112.61	1,334.76	1,004.81	329.95	4.045	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
30,200.00	9,570.00	30,156.35	9,581.00	165.98	165.60	90.47	21,243.77	2,111.54	1,334.54	1,003.09	331.46	4.026	
30,264.95	9,570.00	30,219.49	9,581.00	166.47	166.08	90.47	21,306.92	2,110.87	1,334.40	1,001.98	332.43	4.014	CC, ES, SF

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
0.00	0.00	0.00	11.20	0.00	0.00	89.79	9.82	2,652.80	2,652.84				
100.00	100.00	88.80	100.00	0.26	0.25	89.79	9.82	2,652.80	2,652.82	2,652.31	0.51	5,216.069	
200.00	200.00	188.80	200.00	0.62	0.59	89.79	9.82	2,652.80	2,652.82	2,651.60	1.22	2,181.065	
300.00	300.00	288.80	300.00	0.98	0.95	89.79	9.82	2,652.80	2,652.82	2,650.88	1.93	1,372.215	
400.00	400.00	388.80	400.00	1.34	1.31	89.79	9.82	2,652.80	2,652.82	2,650.17	2.65	1,000.995	
500.00	500.00	488.80	500.00	1.70	1.67	89.79	9.82	2,652.80	2,652.82	2,649.45	3.37	787.859	
600.00	599.98	547.68	558.88	2.05	1.88	23.12	9.97	2,653.17	2,651.90	2,647.97	3.93	674.937	
700.00	699.84	600.00	611.18	2.41	2.06	23.16	10.46	2,654.42	2,649.51	2,645.05	4.46	593.544	
800.00	799.45	655.08	666.21	2.76	2.26	23.21	11.36	2,656.70	2,645.65	2,640.65	5.01	528.201	
900.00	898.74	700.00	711.04	3.12	2.42	23.25	12.39	2,659.29	2,640.66	2,635.15	5.52	478.595	
1,000.00	997.97	762.61	773.44	3.48	2.64	23.28	14.24	2,663.98	2,636.85	2,630.76	6.09	432.931	
1,100.00	1,097.19	800.00	810.65	3.84	2.77	23.29	15.59	2,667.39	2,634.91	2,628.33	6.57	400.898	
1,166.55	1,163.23	852.35	862.66	4.08	2.96	23.30	17.78	2,672.92	2,634.42	2,627.43	6.99	376.667	CC
1,200.00	1,196.42	882.95	893.01	4.20	3.07	23.30	19.22	2,676.57	2,634.58	2,627.35	7.22	364.695	
1,300.00	1,295.65	959.62	968.99	4.56	3.35	23.30	22.98	2,686.07	2,635.47	2,627.61	7.86	335.494	
1,400.00	1,394.87	1,059.61	1,068.10	4.93	3.71	23.30	27.88	2,698.46	2,636.46	2,627.88	8.58	307.379	
1,500.00	1,494.10	1,159.61	1,167.20	5.29	4.07	23.30	32.78	2,710.85	2,637.45	2,628.16	9.30	283.657	
1,600.00	1,593.32	1,259.60	1,266.30	5.66	4.43	23.30	37.68	2,723.25	2,638.45	2,628.42	10.03	263.175	
1,700.00	1,692.55	1,359.60	1,365.41	6.02	4.80	23.30	42.58	2,735.64	2,639.44	2,628.69	10.75	245.466	
1,800.00	1,791.77	1,459.59	1,464.51	6.39	5.16	23.30	47.48	2,748.03	2,640.43	2,628.95	11.48	229.978	
1,900.00	1,891.00	1,559.59	1,563.61	6.75	5.53	23.30	52.39	2,760.43	2,641.43	2,629.22	12.21	216.321	
2,000.00	1,990.22	1,659.58	1,662.72	7.12	5.89	23.30	57.29	2,772.82	2,642.42	2,629.48	12.94	204.192	
2,100.00	2,089.45	1,759.58	1,761.82	7.48	6.26	23.30	62.19	2,785.21	2,643.42	2,629.74	13.67	193.348	
2,200.00	2,188.67	1,859.57	1,860.92	7.85	6.62	23.30	67.09	2,797.61	2,644.41	2,630.01	14.40	183.598	
2,300.00	2,287.90	1,959.57	1,960.02	8.22	6.99	23.30	71.99	2,810.00	2,645.40	2,630.27	15.14	174.785	
2,400.00	2,387.13	2,059.56	2,059.13	8.58	7.36	23.30	76.89	2,822.39	2,646.40	2,630.53	15.87	166.780	
2,500.00	2,486.35	2,159.56	2,158.23	8.95	7.73	23.30	81.79	2,834.78	2,647.39	2,630.79	16.60	159.478	
2,600.00	2,585.58	2,259.55	2,257.33	9.32	8.09	23.30	86.70	2,847.18	2,648.38	2,631.05	17.33	152.791	
2,700.00	2,684.80	2,359.55	2,356.44	9.69	8.46	23.30	91.60	2,859.57	2,649.38	2,631.31	18.07	146.645	
2,800.00	2,784.03	2,459.54	2,455.54	10.05	8.83	23.30	96.50	2,871.96	2,650.37	2,631.57	18.80	140.976	
2,900.00	2,883.25	2,559.54	2,554.64	10.42	9.20	23.30	101.40	2,884.36	2,651.36	2,631.83	19.53	135.731	
3,000.00	2,982.48	2,659.53	2,653.75	10.79	9.57	23.31	106.30	2,896.75	2,652.36	2,632.09	20.27	130.865	
3,100.00	3,081.70	2,759.53	2,752.85	11.15	9.93	23.31	111.20	2,909.14	2,653.35	2,632.35	21.00	126.338	
3,200.00	3,180.93	2,859.52	2,851.95	11.52	10.30	23.31	116.11	2,921.54	2,654.34	2,632.61	21.74	122.116	
3,300.00	3,280.15	2,959.52	2,951.05	11.89	10.67	23.31	121.01	2,933.93	2,655.34	2,632.87	22.47	118.169	
3,400.00	3,379.38	3,059.51	3,050.16	12.26	11.04	23.31	125.91	2,946.32	2,656.33	2,633.13	23.21	114.471	
3,500.00	3,478.61	3,159.51	3,149.26	12.62	11.41	23.31	130.81	2,958.71	2,657.32	2,633.38	23.94	111.000	
3,600.00	3,577.83	3,259.50	3,248.36	12.99	11.78	23.31	135.71	2,971.11	2,658.32	2,633.64	24.67	107.735	
3,700.00	3,677.06	3,359.50	3,347.47	13.36	12.15	23.31	140.61	2,983.50	2,659.31	2,633.90	25.41	104.658	
3,800.00	3,776.28	3,459.49	3,446.57	13.73	12.52	23.31	145.51	2,995.89	2,660.30	2,634.16	26.14	101.754	
3,900.00	3,875.51	3,559.49	3,545.67	14.09	12.88	23.31	150.42	3,008.29	2,661.30	2,634.42	26.88	99.009	
4,000.00	3,974.73	3,659.48	3,644.77	14.46	13.25	23.31	155.32	3,020.68	2,662.29	2,634.68	27.61	96.409	
4,100.00	4,073.96	3,759.48	3,743.88	14.83	13.62	23.31	160.22	3,033.07	2,663.28	2,634.94	28.35	93.944	
4,200.00	4,173.18	3,859.47	3,842.98	15.20	13.99	23.31	165.12	3,045.47	2,664.28	2,635.19	29.08	91.604	
4,300.00	4,272.41	3,959.47	3,942.08	15.56	14.36	23.31	170.02	3,057.86	2,665.27	2,635.45	29.82	89.379	
4,400.00	4,371.63	4,059.46	4,041.19	15.93	14.73	23.31	174.92	3,070.25	2,666.27	2,635.71	30.56	87.260	
4,500.00	4,470.86	4,159.46	4,140.29	16.30	15.10	23.31	179.82	3,082.64	2,667.26	2,635.97	31.29	85.241	
4,600.00	4,570.08	4,259.45	4,239.39	16.67	15.47	23.31	184.73	3,095.04	2,668.25	2,636.23	32.03	83.315	
4,700.00	4,669.31	4,359.45	4,338.50	17.04	15.84	23.31	189.63	3,107.43	2,669.25	2,636.48	32.76	81.475	
4,800.00	4,768.54	4,459.45	4,437.60	17.40	16.21	23.31	194.53	3,119.82	2,670.24	2,636.74	33.50	79.716	
4,900.00	4,867.76	4,559.44	4,536.70	17.77	16.57	23.31	199.43	3,132.22	2,671.23	2,637.00	34.23	78.032	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
5,000.00	4,966.99	4,659.44	4,635.80	18.14	16.94	23.31	204.33	3,144.61	2,672.23	2,637.26	34.97	76.419	
5,100.00	5,066.21	4,759.43	4,734.91	18.51	17.31	23.31	209.23	3,157.00	2,673.22	2,637.52	35.70	74.873	
5,200.00	5,165.44	4,859.43	4,834.01	18.88	17.68	23.31	214.13	3,169.40	2,674.21	2,637.77	36.44	73.388	
5,300.00	5,264.66	4,959.42	4,933.11	19.24	18.05	23.31	219.04	3,181.79	2,675.21	2,638.03	37.17	71.963	
5,400.00	5,363.89	5,059.42	5,032.22	19.61	18.42	23.31	223.94	3,194.18	2,676.20	2,638.29	37.91	70.593	
5,500.00	5,463.11	5,159.41	5,131.32	19.98	18.79	23.31	228.84	3,206.57	2,677.19	2,638.55	38.65	69.274	
5,600.00	5,562.34	5,259.41	5,230.42	20.35	19.16	23.31	233.74	3,218.97	2,678.19	2,638.81	39.38	68.005	
5,700.00	5,661.56	5,359.40	5,329.53	20.72	19.53	23.31	238.64	3,231.36	2,679.18	2,639.06	40.12	66.783	
5,800.00	5,760.79	5,459.40	5,428.63	21.08	19.90	23.31	243.54	3,243.75	2,680.17	2,639.32	40.85	65.605	
5,900.00	5,860.02	5,559.39	5,527.73	21.45	20.27	23.31	248.44	3,256.15	2,681.17	2,639.58	41.59	64.468	
6,000.00	5,959.24	5,659.39	5,626.83	21.82	20.64	23.31	253.35	3,268.54	2,682.16	2,639.84	42.33	63.371	
6,100.00	6,058.47	5,759.38	5,725.94	22.19	21.01	23.31	258.25	3,280.93	2,683.15	2,640.09	43.06	62.311	
6,200.00	6,157.69	5,859.38	5,825.04	22.56	21.38	23.31	263.15	3,293.33	2,684.15	2,640.35	43.80	61.287	
6,300.00	6,256.92	5,959.37	5,924.14	22.93	21.75	23.32	268.05	3,305.72	2,685.14	2,640.61	44.53	60.296	
6,400.00	6,356.14	6,059.37	6,023.25	23.29	22.12	23.32	272.95	3,318.11	2,686.14	2,640.87	45.27	59.338	
6,500.00	6,455.37	6,159.36	6,122.35	23.66	22.49	23.32	277.85	3,330.50	2,687.13	2,641.12	46.00	58.410	
6,600.00	6,554.59	6,259.36	6,221.45	24.03	22.86	23.32	282.75	3,342.90	2,688.12	2,641.38	46.74	57.512	
6,700.00	6,653.82	6,359.35	6,320.56	24.40	23.23	23.32	287.66	3,355.29	2,689.12	2,641.64	47.48	56.642	
6,800.00	6,753.04	6,459.35	6,419.66	24.77	23.60	23.32	292.56	3,367.68	2,690.11	2,641.90	48.21	55.798	
6,900.00	6,852.27	6,559.34	6,518.76	25.14	23.96	23.32	297.46	3,380.08	2,691.10	2,642.15	48.95	54.979	
7,000.00	6,951.50	6,659.34	6,617.86	25.50	24.33	23.32	302.36	3,392.47	2,692.10	2,642.41	49.68	54.185	
7,100.00	7,050.72	6,759.33	6,716.97	25.87	24.70	23.32	307.26	3,404.86	2,693.09	2,642.67	50.42	53.413	
7,200.00	7,149.95	6,859.33	6,816.07	26.24	25.07	23.32	312.16	3,417.26	2,694.08	2,642.93	51.16	52.664	
7,300.00	7,249.17	6,959.32	6,915.17	26.61	25.44	23.32	317.06	3,429.65	2,695.08	2,643.18	51.89	51.937	
7,400.00	7,348.40	7,059.32	7,014.28	26.98	25.81	23.32	321.97	3,442.04	2,696.07	2,643.44	52.63	51.229	
7,500.00	7,447.62	7,159.31	7,113.38	27.35	26.18	23.32	326.87	3,454.43	2,697.06	2,643.70	53.36	50.541	
7,600.00	7,546.85	7,259.31	7,212.48	27.71	26.55	23.32	331.77	3,466.83	2,698.06	2,643.96	54.10	49.872	
7,700.00	7,646.07	7,359.30	7,311.59	28.08	26.92	23.32	336.67	3,479.22	2,699.05	2,644.21	54.84	49.221	
7,800.00	7,745.30	7,459.30	7,410.69	28.45	27.29	23.32	341.57	3,491.61	2,700.04	2,644.47	55.57	48.587	
7,900.00	7,844.52	7,559.29	7,509.79	28.82	27.66	23.32	346.47	3,504.01	2,701.04	2,644.73	56.31	47.969	
8,000.00	7,943.75	7,659.29	7,608.89	29.19	28.03	23.32	351.37	3,516.40	2,702.03	2,644.99	57.04	47.368	
8,100.00	8,042.98	7,759.28	7,708.00	29.56	28.40	23.32	356.28	3,528.79	2,703.02	2,645.24	57.78	46.781	
8,200.00	8,142.20	7,859.28	7,807.10	29.92	28.77	23.32	361.18	3,541.19	2,704.02	2,645.50	58.52	46.210	
8,300.00	8,241.43	7,959.27	7,906.20	30.29	29.14	23.32	366.08	3,553.58	2,705.01	2,645.76	59.25	45.653	
8,400.00	8,340.65	8,059.27	8,005.31	30.66	29.51	23.32	370.98	3,565.97	2,706.00	2,646.02	59.99	45.109	
8,500.00	8,439.88	8,159.26	8,104.41	31.03	29.88	23.32	375.88	3,578.36	2,707.00	2,646.27	60.72	44.579	
8,600.00	8,539.10	8,259.26	8,203.51	31.40	30.25	23.32	380.78	3,590.76	2,707.99	2,646.53	61.46	44.061	
8,700.00	8,638.33	8,359.25	8,302.62	31.77	30.62	23.32	385.69	3,603.15	2,708.99	2,646.79	62.20	43.555	
8,800.00	8,737.55	8,459.25	8,401.72	32.14	30.99	23.32	390.59	3,615.54	2,709.98	2,647.05	62.93	43.062	
8,900.00	8,836.78	8,559.24	8,500.82	32.51	31.36	23.32	395.49	3,627.94	2,710.97	2,647.30	63.67	42.580	
9,000.00	8,936.08	8,659.20	8,599.89	32.87	31.73	43.81	400.39	3,640.33	2,713.17	2,648.76	64.40	42.128	
9,100.00	9,035.51	8,758.79	8,698.59	33.23	32.10	80.20	405.27	3,652.67	2,720.79	2,655.67	65.12	41.780	
9,200.00	9,134.12	8,857.33	8,796.25	33.58	32.47	89.28	410.10	3,664.88	2,732.92	2,667.09	65.82	41.518	
9,300.00	9,228.64	9,308.43	9,238.67	33.93	34.08	90.35	476.84	3,686.83	2,734.08	2,666.65	67.43	40.545	
9,400.00	9,316.12	9,412.97	9,330.03	34.26	34.42	90.37	527.36	3,686.24	2,733.93	2,665.84	68.09	40.153	
9,500.00	9,393.91	9,517.40	9,410.63	34.55	34.71	90.37	593.53	3,685.47	2,733.72	2,665.01	68.70	39.790	
9,600.00	9,459.64	9,621.56	9,477.74	34.79	34.96	90.35	673.00	3,684.54	2,733.46	2,664.19	69.27	39.460	
9,700.00	9,511.32	9,725.32	9,529.21	34.99	35.15	90.33	762.93	3,683.49	2,733.17	2,663.39	69.78	39.168	
9,800.00	9,547.36	9,828.56	9,563.51	35.14	35.30	90.30	860.14	3,682.36	2,732.85	2,662.63	70.22	38.917	
9,900.00	9,566.69	9,931.17	9,579.80	35.27	35.43	90.26	961.30	3,681.18	2,732.52	2,661.93	70.59	38.708	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
10,000.00	9,570.00	10,032.00	9,581.20	35.39	35.54	90.23	1,062.10	3,680.01	2,732.19	2,661.30	70.89	38.540	
10,100.00	9,570.00	10,132.00	9,581.20	35.54	35.70	90.23	1,162.09	3,678.84	2,731.87	2,660.67	71.21	38.366	
10,200.00	9,570.00	10,232.00	9,581.20	35.71	35.88	90.23	1,262.08	3,677.68	2,731.55	2,660.01	71.55	38.177	
10,300.00	9,570.00	10,332.00	9,581.20	35.91	36.08	90.24	1,362.07	3,676.51	2,731.24	2,659.31	71.92	37.974	
10,400.00	9,570.00	10,432.00	9,581.20	36.12	36.29	90.24	1,462.07	3,675.35	2,730.92	2,658.59	72.33	37.756	
10,500.00	9,570.00	10,532.00	9,581.20	36.34	36.52	90.24	1,562.06	3,674.18	2,730.60	2,657.83	72.77	37.525	
10,600.00	9,570.00	10,632.00	9,581.20	36.58	36.77	90.24	1,662.05	3,673.02	2,730.28	2,657.05	73.23	37.282	
10,700.00	9,570.00	10,732.00	9,581.20	36.84	37.03	90.24	1,762.04	3,671.85	2,729.96	2,656.23	73.73	37.027	
10,800.00	9,570.00	10,832.00	9,581.20	37.11	37.30	90.24	1,862.04	3,670.69	2,729.64	2,655.39	74.25	36.761	
10,900.00	9,570.00	10,932.00	9,581.20	37.39	37.59	90.24	1,962.03	3,669.52	2,729.32	2,654.52	74.81	36.486	
11,000.00	9,570.00	11,031.99	9,581.20	37.69	37.89	90.24	2,062.02	3,668.36	2,729.00	2,653.62	75.38	36.201	
11,100.00	9,570.00	11,131.99	9,581.20	38.00	38.20	90.24	2,162.02	3,667.19	2,728.68	2,652.69	75.99	35.908	
11,200.00	9,570.00	11,231.99	9,581.20	38.32	38.53	90.24	2,262.01	3,666.03	2,728.37	2,651.74	76.62	35.607	
11,300.00	9,570.00	11,331.99	9,581.20	38.66	38.87	90.24	2,362.00	3,664.86	2,728.05	2,650.76	77.28	35.300	
11,400.00	9,570.00	11,431.99	9,581.20	39.00	39.21	90.24	2,461.99	3,663.70	2,727.73	2,649.76	77.96	34.987	
11,500.00	9,570.00	11,531.99	9,581.20	39.36	39.57	90.24	2,561.99	3,662.53	2,727.41	2,648.74	78.67	34.668	
11,600.00	9,570.00	11,631.99	9,581.20	39.73	39.95	90.24	2,661.98	3,661.37	2,727.09	2,647.69	79.40	34.345	
11,700.00	9,570.00	11,731.99	9,581.20	40.11	40.33	90.24	2,761.97	3,660.20	2,726.77	2,646.61	80.16	34.018	
11,800.00	9,570.00	11,831.99	9,581.20	40.50	40.72	90.24	2,861.96	3,659.04	2,726.45	2,645.52	80.93	33.688	
11,900.00	9,570.00	11,931.99	9,581.20	40.90	41.13	90.24	2,961.96	3,657.87	2,726.13	2,644.40	81.73	33.356	
12,000.00	9,570.00	12,031.99	9,581.20	41.31	41.54	90.24	3,061.95	3,656.71	2,725.81	2,643.27	82.55	33.021	
12,100.00	9,570.00	12,131.99	9,581.20	41.74	41.96	90.24	3,161.94	3,655.54	2,725.49	2,642.11	83.39	32.685	
12,200.00	9,570.00	12,231.99	9,581.20	42.17	42.40	90.24	3,261.94	3,654.38	2,725.18	2,640.93	84.24	32.348	
12,300.00	9,570.00	12,331.99	9,581.20	42.61	42.84	90.24	3,361.93	3,653.21	2,724.86	2,639.73	85.12	32.011	
12,400.00	9,570.00	12,431.99	9,581.20	43.06	43.29	90.24	3,461.92	3,652.05	2,724.54	2,638.52	86.02	31.674	
12,500.00	9,570.00	12,531.99	9,581.20	43.52	43.75	90.24	3,561.91	3,650.88	2,724.22	2,637.29	86.93	31.337	
12,600.00	9,570.00	12,631.99	9,581.20	43.99	44.22	90.24	3,661.91	3,649.72	2,723.90	2,636.03	87.87	31.001	
12,700.00	9,570.00	12,731.99	9,581.20	44.46	44.70	90.24	3,761.90	3,648.55	2,723.58	2,634.77	88.81	30.666	
12,800.00	9,570.00	12,831.99	9,581.20	44.94	45.18	90.24	3,861.89	3,647.39	2,723.26	2,633.48	89.78	30.333	
12,900.00	9,570.00	12,931.99	9,581.20	45.44	45.67	90.24	3,961.88	3,646.22	2,722.94	2,632.18	90.76	30.001	
13,000.00	9,570.00	13,031.98	9,581.20	45.94	46.17	90.24	4,061.88	3,645.06	2,722.62	2,630.87	91.76	29.672	
13,100.00	9,570.00	13,131.98	9,581.20	46.44	46.68	90.24	4,161.87	3,643.89	2,722.31	2,629.54	92.77	29.345	
13,200.00	9,570.00	13,231.98	9,581.20	46.95	47.20	90.24	4,261.86	3,642.73	2,721.99	2,628.19	93.79	29.021	
13,300.00	9,570.00	13,331.98	9,581.20	47.47	47.72	90.24	4,361.85	3,641.56	2,721.67	2,626.83	94.83	28.699	
13,400.00	9,570.00	13,431.98	9,581.20	48.00	48.24	90.24	4,461.85	3,640.40	2,721.35	2,625.46	95.89	28.381	
13,500.00	9,570.00	13,531.98	9,581.20	48.54	48.78	90.24	4,561.84	3,639.23	2,721.03	2,624.08	96.95	28.066	
13,600.00	9,570.00	13,631.98	9,581.20	49.07	49.32	90.24	4,661.83	3,638.07	2,720.71	2,622.68	98.03	27.754	
13,700.00	9,570.00	13,731.98	9,581.20	49.62	49.86	90.24	4,761.83	3,636.90	2,720.39	2,621.27	99.12	27.445	
13,800.00	9,570.00	13,831.98	9,581.20	50.17	50.42	90.24	4,861.82	3,635.74	2,720.07	2,619.85	100.22	27.140	
13,900.00	9,570.00	13,931.98	9,581.20	50.73	50.97	90.24	4,961.81	3,634.57	2,719.75	2,618.42	101.34	26.838	
14,000.00	9,570.00	14,031.98	9,581.20	51.29	51.54	90.24	5,061.80	3,633.41	2,719.43	2,616.97	102.46	26.541	
14,100.00	9,570.00	14,131.98	9,581.20	51.86	52.11	90.24	5,161.80	3,632.24	2,719.12	2,615.52	103.60	26.247	
14,200.00	9,570.00	14,231.98	9,581.20	52.43	52.68	90.24	5,261.79	3,631.08	2,718.80	2,614.05	104.74	25.956	
14,300.00	9,570.00	14,331.98	9,581.20	53.01	53.26	90.24	5,361.78	3,629.91	2,718.48	2,612.58	105.90	25.670	
14,400.00	9,570.00	14,431.98	9,581.20	53.59	53.84	90.24	5,461.77	3,628.75	2,718.16	2,611.09	107.07	25.388	
14,500.00	9,570.00	14,531.98	9,581.20	54.18	54.43	90.24	5,561.77	3,627.58	2,717.84	2,609.60	108.24	25.109	
14,600.00	9,570.00	14,631.98	9,581.20	54.77	55.02	90.24	5,661.76	3,626.42	2,717.52	2,608.10	109.43	24.834	
14,700.00	9,570.00	14,731.98	9,581.20	55.37	55.62	90.24	5,761.75	3,625.25	2,717.20	2,606.58	110.62	24.564	
14,800.00	9,570.00	14,831.98	9,581.20	55.97	56.22	90.24	5,861.75	3,624.09	2,716.88	2,605.06	111.82	24.297	
14,900.00	9,570.00	14,931.97	9,581.20	56.57	56.82	90.24	5,961.74	3,622.92	2,716.56	2,603.53	113.03	24.034	
15,000.00	9,570.00	15,031.97	9,581.20	57.18	57.43	90.24	6,061.73	3,621.76	2,716.24	2,602.00	114.25	23.775	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
15,100.00	9,570.00	15,131.97	9,581.20	57.79	58.04	90.24	6,161.72	3,620.59	2,715.93	2,600.45	115.47	23.520	
15,200.00	9,570.00	15,231.97	9,581.20	58.41	58.66	90.24	6,261.72	3,619.43	2,715.61	2,598.90	116.70	23.269	
15,300.00	9,570.00	15,331.97	9,581.20	59.03	59.28	90.24	6,361.71	3,618.26	2,715.29	2,597.34	117.94	23.022	
15,400.00	9,570.00	15,431.97	9,581.20	59.65	59.90	90.24	6,461.70	3,617.10	2,714.97	2,595.78	119.19	22.778	
15,500.00	9,570.00	15,531.97	9,581.20	60.27	60.53	90.24	6,561.69	3,615.93	2,714.65	2,594.21	120.44	22.539	
15,600.00	9,570.00	15,631.97	9,581.20	60.90	61.16	90.24	6,661.69	3,614.77	2,714.33	2,592.63	121.70	22.303	
15,700.00	9,570.00	15,731.97	9,581.20	61.54	61.79	90.24	6,761.68	3,613.60	2,714.01	2,591.04	122.97	22.070	
15,800.00	9,570.00	15,831.97	9,581.20	62.17	62.42	90.24	6,861.67	3,612.44	2,713.69	2,589.45	124.24	21.842	
15,900.00	9,570.00	15,931.97	9,581.20	62.81	63.06	90.24	6,961.67	3,611.27	2,713.37	2,587.85	125.52	21.617	
16,000.00	9,570.00	16,031.97	9,581.20	63.45	63.70	90.24	7,061.66	3,610.11	2,713.06	2,586.25	126.81	21.395	
16,100.00	9,570.00	16,131.97	9,581.20	64.10	64.35	90.24	7,161.65	3,608.94	2,712.74	2,584.64	128.10	21.177	
16,200.00	9,570.00	16,231.97	9,581.20	64.74	65.00	90.24	7,261.64	3,607.78	2,712.42	2,583.03	129.39	20.963	
16,300.00	9,570.00	16,331.97	9,581.20	65.39	65.65	90.24	7,361.64	3,606.61	2,712.10	2,581.41	130.69	20.752	
16,400.00	9,570.00	16,431.97	9,581.20	66.05	66.30	90.24	7,461.63	3,605.45	2,711.78	2,579.78	132.00	20.544	
16,500.00	9,570.00	16,531.97	9,581.20	66.70	66.95	90.24	7,561.62	3,604.28	2,711.46	2,578.15	133.31	20.340	
16,600.00	9,570.00	16,631.97	9,581.20	67.36	67.61	90.24	7,661.61	3,603.12	2,711.14	2,576.52	134.63	20.138	
16,700.00	9,570.00	16,731.97	9,581.20	68.02	68.27	90.24	7,761.61	3,601.95	2,710.82	2,574.88	135.95	19.940	
16,800.00	9,570.00	16,831.97	9,581.20	68.68	68.93	90.24	7,861.60	3,600.79	2,710.50	2,573.23	137.27	19.746	
16,900.00	9,570.00	16,931.96	9,581.20	69.34	69.60	90.24	7,961.59	3,599.62	2,710.18	2,571.58	138.60	19.554	
17,000.00	9,570.00	17,031.96	9,581.20	70.01	70.26	90.24	8,061.59	3,598.46	2,709.87	2,569.93	139.93	19.365	
17,100.00	9,570.00	17,131.96	9,581.20	70.68	70.93	90.24	8,161.58	3,597.29	2,709.55	2,568.27	141.27	19.180	
17,200.00	9,570.00	17,231.96	9,581.20	71.35	71.60	90.24	8,261.57	3,596.13	2,709.23	2,566.61	142.61	18.997	
17,300.00	9,570.00	17,331.96	9,581.20	72.02	72.27	90.24	8,361.56	3,594.96	2,708.91	2,564.95	143.96	18.817	
17,400.00	9,570.00	17,431.96	9,581.20	72.69	72.95	90.24	8,461.56	3,593.80	2,708.59	2,563.28	145.31	18.640	
17,500.00	9,570.00	17,531.96	9,581.20	73.37	73.62	90.24	8,561.55	3,592.63	2,708.27	2,561.61	146.66	18.466	
17,600.00	9,570.00	17,631.96	9,581.20	74.05	74.30	90.24	8,661.54	3,591.47	2,707.95	2,559.93	148.02	18.294	
17,700.00	9,570.00	17,731.96	9,581.20	74.73	74.98	90.24	8,761.53	3,590.30	2,707.63	2,558.25	149.38	18.126	
17,800.00	9,570.00	17,831.96	9,581.20	75.41	75.66	90.24	8,861.53	3,589.14	2,707.31	2,556.57	150.75	17.959	
17,900.00	9,570.00	17,931.96	9,581.20	76.09	76.35	90.24	8,961.52	3,587.97	2,707.00	2,554.88	152.11	17.796	
18,000.00	9,570.00	18,031.96	9,581.20	76.78	77.03	90.24	9,061.51	3,586.81	2,706.68	2,553.19	153.48	17.635	
18,100.00	9,570.00	18,131.96	9,581.20	77.46	77.72	90.24	9,161.50	3,585.64	2,706.36	2,551.50	154.86	17.476	
18,200.00	9,570.00	18,231.96	9,581.20	78.15	78.40	90.24	9,261.50	3,584.48	2,706.04	2,549.80	156.24	17.320	
18,300.00	9,570.00	18,331.96	9,581.20	78.84	79.09	90.24	9,361.49	3,583.31	2,705.72	2,548.10	157.62	17.167	
18,400.00	9,570.00	18,431.96	9,581.20	79.53	79.79	90.24	9,461.48	3,582.15	2,705.40	2,546.40	159.00	17.015	
18,500.00	9,570.00	18,531.96	9,581.20	80.22	80.48	90.24	9,561.48	3,580.98	2,705.08	2,544.70	160.38	16.866	
18,600.00	9,570.00	18,631.96	9,581.20	80.92	81.17	90.24	9,661.47	3,579.82	2,704.76	2,542.99	161.77	16.720	
18,700.00	9,570.00	18,731.96	9,581.20	81.61	81.87	90.24	9,761.46	3,578.65	2,704.44	2,541.28	163.16	16.575	
18,800.00	9,570.00	18,831.96	9,581.20	82.31	82.56	90.24	9,861.45	3,577.49	2,704.12	2,539.57	164.56	16.433	
18,900.00	9,570.00	18,931.95	9,581.20	83.01	83.26	90.24	9,961.45	3,576.32	2,703.81	2,537.85	165.95	16.292	
19,000.00	9,570.00	19,031.95	9,581.20	83.70	83.96	90.24	10,061.44	3,575.16	2,703.49	2,536.13	167.35	16.154	
19,100.00	9,570.00	19,131.95	9,581.20	84.40	84.66	90.24	10,161.43	3,573.99	2,703.17	2,534.41	168.76	16.018	
19,200.00	9,570.00	19,231.95	9,581.20	85.11	85.36	90.24	10,261.42	3,572.83	2,702.85	2,532.69	170.16	15.884	
19,300.00	9,570.00	19,331.95	9,581.20	85.81	86.06	90.24	10,361.42	3,571.66	2,702.53	2,530.96	171.57	15.752	
19,400.00	9,570.00	19,431.95	9,581.20	86.51	86.77	90.24	10,461.41	3,570.50	2,702.21	2,529.24	172.97	15.622	
19,500.00	9,570.00	19,531.95	9,581.20	87.22	87.47	90.24	10,561.40	3,569.33	2,701.89	2,527.51	174.38	15.494	
19,600.00	9,570.00	19,631.95	9,581.20	87.92	88.18	90.24	10,661.40	3,568.17	2,701.57	2,525.78	175.80	15.368	
19,700.00	9,570.00	19,731.95	9,581.20	88.63	88.88	90.24	10,761.39	3,567.00	2,701.25	2,524.04	177.21	15.243	
19,800.00	9,570.00	19,831.95	9,581.20	89.34	89.59	90.24	10,861.38	3,565.84	2,700.94	2,522.31	178.63	15.120	
19,900.00	9,570.00	19,931.95	9,581.20	90.05	90.30	90.24	10,961.37	3,564.67	2,700.62	2,520.57	180.05	14.999	
20,000.00	9,570.00	20,031.95	9,581.20	90.76	91.01	90.24	11,061.37	3,563.51	2,700.30	2,518.83	181.47	14.880	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
20,100.00	9,570.00	20,131.95	9,581.20	91.47	91.72	90.24	11,161.36	3,562.34	2,699.98	2,517.09	182.89	14.763	
20,200.00	9,570.00	20,231.95	9,581.20	92.18	92.43	90.24	11,261.35	3,561.18	2,699.66	2,515.34	184.32	14.647	
20,300.00	9,570.00	20,331.95	9,581.20	92.89	93.15	90.24	11,361.34	3,560.01	2,699.34	2,513.60	185.74	14.533	
20,400.00	9,570.00	20,431.95	9,581.20	93.60	93.86	90.24	11,461.34	3,558.85	2,699.02	2,511.85	187.17	14.420	
20,500.00	9,570.00	20,531.95	9,581.20	94.32	94.58	90.24	11,561.33	3,557.68	2,698.70	2,510.10	188.60	14.309	
20,600.00	9,570.00	20,631.95	9,581.20	95.03	95.29	90.24	11,661.32	3,556.52	2,698.38	2,508.35	190.03	14.199	
20,700.00	9,570.00	20,731.95	9,581.20	95.75	96.01	90.24	11,761.32	3,555.35	2,698.06	2,506.60	191.47	14.091	
20,800.00	9,570.00	20,831.94	9,581.20	96.47	96.72	90.24	11,861.31	3,554.19	2,697.75	2,504.84	192.90	13.985	
20,900.00	9,570.00	20,931.94	9,581.20	97.19	97.44	90.24	11,961.30	3,553.02	2,697.43	2,503.09	194.34	13.880	
21,000.00	9,570.00	21,031.94	9,581.20	97.90	98.16	90.24	12,061.29	3,551.86	2,697.11	2,501.33	195.78	13.776	
21,100.00	9,570.00	21,131.94	9,581.20	98.62	98.88	90.24	12,161.29	3,550.69	2,696.79	2,499.57	197.22	13.674	
21,200.00	9,570.00	21,231.94	9,581.20	99.34	99.60	90.24	12,261.28	3,549.53	2,696.47	2,497.81	198.66	13.573	
21,300.00	9,570.00	21,331.94	9,581.20	100.06	100.32	90.24	12,361.27	3,548.36	2,696.15	2,496.05	200.10	13.474	
21,400.00	9,570.00	21,431.94	9,581.20	100.79	101.04	90.24	12,461.26	3,547.20	2,695.83	2,494.28	201.55	13.376	
21,500.00	9,570.00	21,531.94	9,581.20	101.51	101.77	90.24	12,561.26	3,546.03	2,695.51	2,492.52	202.99	13.279	
21,600.00	9,570.00	21,631.94	9,581.20	102.23	102.49	90.24	12,661.25	3,544.87	2,695.19	2,490.75	204.44	13.183	
21,700.00	9,570.00	21,731.94	9,581.20	102.95	103.21	90.24	12,761.24	3,543.70	2,694.88	2,488.99	205.89	13.089	
21,800.00	9,570.00	21,831.94	9,581.20	103.68	103.94	90.24	12,861.24	3,542.54	2,694.56	2,487.22	207.34	12.996	
21,900.00	9,570.00	21,931.94	9,581.20	104.40	104.66	90.24	12,961.23	3,541.37	2,694.24	2,485.45	208.79	12.904	
22,000.00	9,570.00	22,031.94	9,581.20	105.13	105.39	90.24	13,061.22	3,540.21	2,693.92	2,483.68	210.24	12.813	
22,100.00	9,570.00	22,131.94	9,581.20	105.86	106.11	90.24	13,161.21	3,539.04	2,693.60	2,481.90	211.70	12.724	
22,200.00	9,570.00	22,231.94	9,581.20	106.58	106.84	90.24	13,261.21	3,537.88	2,693.28	2,480.13	213.15	12.636	
22,300.00	9,570.00	22,331.94	9,581.20	107.31	107.57	90.24	13,361.20	3,536.71	2,692.96	2,478.36	214.61	12.548	
22,400.00	9,570.00	22,431.94	9,581.20	108.04	108.30	90.24	13,461.19	3,535.55	2,692.64	2,476.58	216.06	12.462	
22,500.00	9,570.00	22,531.94	9,581.20	108.77	109.02	90.24	13,561.18	3,534.38	2,692.32	2,474.80	217.52	12.377	
22,600.00	9,570.00	22,631.94	9,581.20	109.50	109.75	90.24	13,661.18	3,533.22	2,692.00	2,473.02	218.98	12.293	
22,700.00	9,570.00	22,731.94	9,581.20	110.22	110.48	90.24	13,761.17	3,532.05	2,691.69	2,471.24	220.44	12.210	
22,800.00	9,570.00	22,831.93	9,581.20	110.96	111.21	90.24	13,861.16	3,530.89	2,691.37	2,469.46	221.90	12.129	
22,900.00	9,570.00	22,931.93	9,581.20	111.69	111.95	90.24	13,961.15	3,529.72	2,691.05	2,467.68	223.37	12.048	
23,000.00	9,570.00	23,031.93	9,581.20	112.42	112.68	90.24	14,061.15	3,528.56	2,690.73	2,465.90	224.83	11.968	
23,100.00	9,570.00	23,131.93	9,581.20	113.15	113.41	90.24	14,161.14	3,527.39	2,690.41	2,464.12	226.29	11.889	
23,200.00	9,570.00	23,231.93	9,581.20	113.88	114.14	90.24	14,261.13	3,526.23	2,690.09	2,462.33	227.76	11.811	
23,300.00	9,570.00	23,331.93	9,581.20	114.61	114.87	90.24	14,361.13	3,525.06	2,689.77	2,460.55	229.23	11.734	
23,400.00	9,570.00	23,431.93	9,581.20	115.35	115.61	90.24	14,461.12	3,523.90	2,689.45	2,458.76	230.69	11.658	
23,500.00	9,570.00	23,531.93	9,581.20	116.08	116.34	90.24	14,561.11	3,522.73	2,689.13	2,456.97	232.16	11.583	
23,600.00	9,570.00	23,631.93	9,581.20	116.81	117.08	90.24	14,661.10	3,521.57	2,688.82	2,455.18	233.63	11.509	
23,700.00	9,570.00	23,731.93	9,581.20	117.55	117.81	90.24	14,761.10	3,520.40	2,688.50	2,453.40	235.10	11.435	
23,800.00	9,570.00	23,831.93	9,581.20	118.28	118.55	90.24	14,861.09	3,519.24	2,688.18	2,451.61	236.57	11.363	
23,900.00	9,570.00	23,931.93	9,581.20	119.02	119.28	90.24	14,961.08	3,518.07	2,687.86	2,449.81	238.04	11.291	
24,000.00	9,570.00	24,031.93	9,581.20	119.76	120.02	90.24	15,061.07	3,516.91	2,687.54	2,448.02	239.52	11.221	
24,100.00	9,570.00	24,131.93	9,581.20	120.49	120.75	90.24	15,161.07	3,515.74	2,687.22	2,446.23	240.99	11.151	
24,200.00	9,570.00	24,231.93	9,581.20	121.23	121.49	90.24	15,261.06	3,514.58	2,686.90	2,444.44	242.47	11.082	
24,300.00	9,570.00	24,331.93	9,581.20	121.97	122.23	90.24	15,361.05	3,513.41	2,686.58	2,442.64	243.94	11.013	
24,400.00	9,570.00	24,431.93	9,581.20	122.70	122.97	90.24	15,461.05	3,512.25	2,686.26	2,440.85	245.42	10.946	
24,500.00	9,570.00	24,531.93	9,581.20	123.44	123.70	90.24	15,561.04	3,511.08	2,685.94	2,439.05	246.89	10.879	
24,600.00	9,570.00	24,631.93	9,581.20	124.18	124.44	90.24	15,661.03	3,509.92	2,685.63	2,437.25	248.37	10.813	
24,700.00	9,570.00	24,731.93	9,581.20	124.92	125.18	90.24	15,761.02	3,508.75	2,685.31	2,435.46	249.85	10.748	
24,800.00	9,570.00	24,831.92	9,581.20	125.66	125.92	90.24	15,861.02	3,507.59	2,684.99	2,433.66	251.33	10.683	
24,900.00	9,570.00	24,931.92	9,581.20	126.40	126.66	90.24	15,961.01	3,506.42	2,684.67	2,431.86	252.81	10.619	
25,000.00	9,570.00	25,031.92	9,581.20	127.14	127.40	90.24	16,061.00	3,505.26	2,684.35	2,430.06	254.29	10.556	
25,100.00	9,570.00	25,123.88	9,581.20	127.88	128.08	90.24	16,152.95	3,504.21	2,684.07	2,428.33	255.74	10.495	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
25,100.52	9,570.00	25,123.88	9,581.20	127.88	128.08	90.24	16,152.95	3,504.21	2,684.07	2,428.32	255.74	10.495	
25,200.00	9,570.00	25,221.22	9,581.20	128.62	128.80	90.24	16,250.29	3,503.46	2,684.14	2,426.94	257.21	10.436	
25,300.00	9,570.00	25,321.22	9,581.20	129.36	129.54	90.24	16,350.29	3,502.70	2,684.22	2,425.54	258.69	10.376	
25,400.00	9,570.00	25,421.22	9,581.20	130.10	130.28	90.24	16,450.29	3,501.93	2,684.30	2,424.13	260.17	10.317	
25,500.00	9,570.00	25,521.22	9,581.20	130.84	131.02	90.24	16,550.28	3,501.16	2,684.38	2,422.73	261.65	10.259	
25,600.00	9,570.00	25,621.22	9,581.20	131.58	131.77	90.24	16,650.28	3,500.40	2,684.46	2,421.32	263.14	10.202	
25,700.00	9,570.00	25,721.22	9,581.20	132.33	132.51	90.24	16,750.28	3,499.63	2,684.54	2,419.92	264.62	10.145	
25,800.00	9,570.00	25,821.22	9,581.20	133.07	133.25	90.24	16,850.27	3,498.87	2,684.62	2,418.51	266.11	10.088	
25,900.00	9,570.00	25,921.22	9,581.20	133.81	133.99	90.24	16,950.27	3,498.10	2,684.70	2,417.11	267.60	10.033	
26,000.00	9,570.00	26,021.22	9,581.20	134.55	134.74	90.24	17,050.27	3,497.33	2,684.78	2,415.70	269.08	9.978	
26,100.00	9,570.00	26,121.22	9,581.20	135.30	135.48	90.24	17,150.27	3,496.57	2,684.86	2,414.29	270.57	9.923	
26,200.00	9,570.00	26,221.22	9,581.20	136.04	136.22	90.24	17,250.26	3,495.80	2,684.94	2,412.88	272.06	9.869	
26,300.00	9,570.00	26,321.22	9,581.20	136.78	136.97	90.24	17,350.26	3,495.03	2,685.02	2,411.48	273.55	9.816	
26,400.00	9,570.00	26,421.22	9,581.20	137.53	137.71	90.24	17,450.26	3,494.27	2,685.10	2,410.07	275.03	9.763	
26,500.00	9,570.00	26,521.22	9,581.20	138.27	138.45	90.24	17,550.25	3,493.50	2,685.18	2,408.66	276.52	9.710	
26,600.00	9,570.00	26,621.22	9,581.20	139.02	139.20	90.24	17,650.25	3,492.73	2,685.26	2,407.25	278.01	9.659	
26,700.00	9,570.00	26,721.22	9,581.20	139.76	139.94	90.24	17,750.25	3,491.97	2,685.34	2,405.84	279.50	9.608	
26,800.00	9,570.00	26,821.22	9,581.20	140.51	140.69	90.24	17,850.24	3,491.20	2,685.42	2,404.42	281.00	9.557	
26,900.00	9,570.00	26,921.22	9,581.20	141.25	141.43	90.24	17,950.24	3,490.44	2,685.50	2,403.01	282.49	9.507	
27,000.00	9,570.00	27,021.22	9,581.20	142.00	142.18	90.24	18,050.24	3,489.67	2,685.58	2,401.60	283.98	9.457	
27,100.00	9,570.00	27,121.22	9,581.20	142.75	142.93	90.24	18,150.24	3,488.90	2,685.66	2,400.19	285.47	9.408	
27,200.00	9,570.00	27,221.22	9,581.20	143.49	143.67	90.24	18,250.23	3,488.14	2,685.74	2,398.77	286.96	9.359	
27,300.00	9,570.00	27,321.22	9,581.20	144.24	144.42	90.24	18,350.23	3,487.37	2,685.82	2,397.36	288.46	9.311	
27,400.00	9,570.00	27,421.22	9,581.20	144.99	145.17	90.24	18,450.23	3,486.60	2,685.90	2,395.94	289.95	9.263	
27,500.00	9,570.00	27,521.22	9,581.20	145.73	145.91	90.24	18,550.22	3,485.84	2,685.98	2,394.53	291.45	9.216	
27,600.00	9,570.00	27,621.22	9,581.20	146.48	146.66	90.24	18,650.22	3,485.07	2,686.06	2,393.11	292.94	9.169	
27,700.00	9,570.00	27,721.22	9,581.20	147.23	147.41	90.24	18,750.22	3,484.31	2,686.14	2,391.70	294.44	9.123	
27,800.00	9,570.00	27,821.22	9,581.20	147.97	148.15	90.24	18,850.22	3,483.54	2,686.22	2,390.28	295.93	9.077	
27,900.00	9,570.00	27,921.22	9,581.20	148.72	148.90	90.24	18,950.21	3,482.77	2,686.30	2,388.87	297.43	9.032	
28,000.00	9,570.00	28,021.22	9,581.20	149.47	149.65	90.24	19,050.21	3,482.01	2,686.38	2,387.45	298.93	8.987	
28,100.00	9,570.00	28,121.22	9,581.20	150.22	150.40	90.24	19,150.21	3,481.24	2,686.46	2,386.03	300.42	8.942	
28,200.00	9,570.00	28,221.22	9,581.20	150.97	151.15	90.24	19,250.20	3,480.47	2,686.54	2,384.61	301.92	8.898	
28,300.00	9,570.00	28,321.22	9,581.20	151.72	151.90	90.24	19,350.20	3,479.71	2,686.61	2,383.20	303.42	8.854	
28,400.00	9,570.00	28,421.22	9,581.20	152.47	152.65	90.24	19,450.20	3,478.94	2,686.69	2,381.78	304.92	8.811	
28,500.00	9,570.00	28,521.22	9,581.20	153.22	153.39	90.24	19,550.19	3,478.17	2,686.77	2,380.36	306.42	8.768	
28,600.00	9,570.00	28,621.22	9,581.20	153.96	154.14	90.24	19,650.19	3,477.41	2,686.85	2,378.94	307.92	8.726	
28,700.00	9,570.00	28,721.22	9,581.20	154.71	154.89	90.24	19,750.19	3,476.64	2,686.93	2,377.52	309.42	8.684	
28,800.00	9,570.00	28,821.22	9,581.20	155.46	155.64	90.24	19,850.19	3,475.88	2,687.01	2,376.10	310.92	8.642	
28,900.00	9,570.00	28,921.22	9,581.20	156.21	156.39	90.24	19,950.18	3,475.11	2,687.09	2,374.68	312.42	8.601	
29,000.00	9,570.00	29,021.22	9,581.20	156.96	157.14	90.24	20,050.18	3,474.34	2,687.17	2,373.26	313.92	8.560	
29,100.00	9,570.00	29,121.22	9,581.20	157.71	157.89	90.24	20,150.18	3,473.58	2,687.25	2,371.83	315.42	8.520	
29,200.00	9,570.00	29,221.22	9,581.20	158.47	158.64	90.24	20,250.17	3,472.81	2,687.33	2,370.41	316.92	8.480	
29,300.00	9,570.00	29,321.22	9,581.20	159.22	159.39	90.24	20,350.17	3,472.04	2,687.41	2,368.99	318.42	8.440	
29,400.00	9,570.00	29,421.22	9,581.20	159.97	160.15	90.24	20,450.17	3,471.28	2,687.49	2,367.57	319.92	8.400	
29,500.00	9,570.00	29,521.22	9,581.20	160.72	160.90	90.24	20,550.16	3,470.51	2,687.57	2,366.14	321.43	8.361	
29,600.00	9,570.00	29,621.22	9,581.20	161.47	161.65	90.24	20,650.16	3,469.74	2,687.65	2,364.72	322.93	8.323	
29,700.00	9,570.00	29,721.22	9,581.20	162.22	162.40	90.24	20,750.16	3,468.98	2,687.73	2,363.30	324.43	8.284	
29,800.00	9,570.00	29,821.22	9,581.20	162.97	163.15	90.24	20,850.16	3,468.21	2,687.81	2,361.87	325.94	8.246	
29,900.00	9,570.00	29,921.22	9,581.20	163.72	163.90	90.24	20,950.15	3,467.45	2,687.89	2,360.45	327.44	8.209	
30,000.00	9,570.00	30,021.22	9,581.20	164.48	164.65	90.24	21,050.15	3,466.68	2,687.97	2,359.02	328.95	8.171	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sombrero State Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
30,100.00	9,570.00	30,121.22	9,581.20	165.23	165.41	90.24	21,150.15	3,465.91	2,688.05	2,357.60	330.45	8.135	
30,200.00	9,570.00	30,221.22	9,581.20	165.98	166.16	90.24	21,250.14	3,465.15	2,688.13	2,356.17	331.95	8.098	
30,264.95	9,570.00	30,286.17	9,581.20	166.47	166.65	90.24	21,315.09	3,464.65	2,688.18	2,355.25	332.93	8.074	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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
0.00	0.00	0.00	11.30	0.00	0.00	89.79	9.90	2,672.80	2,672.84				
100.00	100.00	88.70	100.00	0.26	0.24	89.79	9.90	2,672.80	2,672.82	2,672.31	0.51	5,258.248	
200.00	200.00	188.70	200.00	0.62	0.59	89.79	9.90	2,672.80	2,672.82	2,671.60	1.22	2,198.157	
300.00	300.00	288.70	300.00	0.98	0.95	89.79	9.90	2,672.80	2,672.82	2,670.89	1.93	1,382.817	
400.00	400.00	388.70	400.00	1.34	1.31	89.79	9.90	2,672.80	2,672.82	2,670.17	2.65	1,008.678	
500.00	500.00	488.70	500.00	1.70	1.67	89.79	9.90	2,672.80	2,672.82	2,669.45	3.37	793.883	
600.00	599.98	546.47	557.77	2.05	1.87	23.12	9.99	2,673.17	2,671.91	2,667.99	3.92	680.857	
700.00	699.84	600.00	611.28	2.41	2.06	23.16	10.30	2,674.50	2,669.57	2,665.11	4.46	598.183	
800.00	799.45	651.26	662.49	2.76	2.24	23.22	10.82	2,676.68	2,665.80	2,660.81	4.99	533.868	
900.00	898.74	700.00	711.14	3.12	2.41	23.27	11.51	2,679.59	2,660.91	2,655.39	5.51	482.487	
1,000.00	997.97	756.15	767.11	3.48	2.61	23.31	12.54	2,683.94	2,657.27	2,651.21	6.06	438.191	
1,100.00	1,097.19	800.00	810.75	3.84	2.77	23.34	13.52	2,688.07	2,655.46	2,648.89	6.57	404.230	
1,153.23	1,150.01	836.68	847.20	4.03	2.90	23.36	14.46	2,692.03	2,655.18	2,648.29	6.89	385.571	CC
1,200.00	1,196.42	861.75	872.09	4.20	2.99	23.37	15.16	2,694.99	2,655.37	2,648.23	7.14	371.831	ES
1,300.00	1,295.65	961.72	971.27	4.56	3.35	23.41	18.05	2,707.21	2,656.19	2,648.33	7.86	337.963	
1,400.00	1,394.87	1,061.70	1,070.46	4.93	3.71	23.45	20.95	2,719.43	2,657.01	2,648.43	8.58	309.646	
1,500.00	1,494.10	1,161.68	1,169.64	5.29	4.07	23.50	23.84	2,731.65	2,657.83	2,648.53	9.30	285.761	
1,600.00	1,593.32	1,261.65	1,268.83	5.66	4.43	23.54	26.74	2,743.87	2,658.65	2,648.63	10.03	265.132	
1,700.00	1,692.55	1,361.63	1,368.01	6.02	4.79	23.58	29.63	2,756.08	2,659.48	2,648.72	10.75	247.294	
1,800.00	1,791.77	1,461.61	1,467.20	6.39	5.16	23.63	32.53	2,768.30	2,660.30	2,648.82	11.48	231.692	
1,900.00	1,891.00	1,561.58	1,566.38	6.75	5.52	23.67	35.42	2,780.52	2,661.13	2,648.92	12.21	217.932	
2,000.00	1,990.22	1,661.56	1,665.56	7.12	5.89	23.71	38.32	2,792.74	2,661.96	2,649.02	12.94	205.710	
2,100.00	2,089.45	1,761.53	1,764.75	7.48	6.25	23.76	41.21	2,804.95	2,662.79	2,649.12	13.67	194.784	
2,200.00	2,188.67	1,861.51	1,863.93	7.85	6.62	23.80	44.11	2,817.17	2,663.62	2,649.22	14.40	184.958	
2,300.00	2,287.90	1,961.49	1,963.12	8.22	6.99	23.84	47.00	2,829.39	2,664.46	2,649.32	15.13	176.076	
2,400.00	2,387.13	2,061.46	2,062.30	8.58	7.35	23.89	49.90	2,841.61	2,665.29	2,649.43	15.86	168.009	
2,500.00	2,486.35	2,161.44	2,161.49	8.95	7.72	23.93	52.79	2,853.82	2,666.13	2,649.53	16.60	160.650	
2,600.00	2,585.58	2,261.42	2,260.67	9.32	8.09	23.97	55.69	2,866.04	2,666.97	2,649.64	17.33	153.910	
2,700.00	2,684.80	2,361.39	2,359.86	9.69	8.45	24.02	58.58	2,878.26	2,667.80	2,649.74	18.06	147.714	
2,800.00	2,784.03	2,461.37	2,459.04	10.05	8.82	24.06	61.48	2,890.48	2,668.65	2,649.85	18.79	142.000	
2,900.00	2,883.25	2,561.34	2,558.23	10.42	9.19	24.10	64.37	2,902.69	2,669.49	2,649.96	19.53	136.713	
3,000.00	2,982.48	2,661.32	2,657.41	10.79	9.55	24.15	67.27	2,914.91	2,670.33	2,650.07	20.26	131.808	
3,100.00	3,081.70	2,761.30	2,756.60	11.15	9.92	24.19	70.16	2,927.13	2,671.18	2,650.19	20.99	127.244	
3,200.00	3,180.93	2,861.27	2,855.78	11.52	10.29	24.23	73.06	2,939.35	2,672.03	2,650.30	21.73	122.988	
3,300.00	3,280.15	2,961.25	2,954.96	11.89	10.66	24.28	75.95	2,951.57	2,672.87	2,650.41	22.46	119.009	
3,400.00	3,379.38	3,061.22	3,054.15	12.26	11.03	24.32	78.85	2,963.78	2,673.72	2,650.53	23.19	115.282	
3,500.00	3,478.61	3,161.20	3,153.33	12.62	11.39	24.36	81.74	2,976.00	2,674.58	2,650.65	23.93	111.782	
3,600.00	3,577.83	3,261.18	3,252.52	12.99	11.76	24.41	84.64	2,988.22	2,675.43	2,650.77	24.66	108.491	
3,700.00	3,677.06	3,361.15	3,351.70	13.36	12.13	24.45	87.53	3,000.44	2,676.28	2,650.89	25.39	105.389	
3,800.00	3,776.28	3,461.13	3,450.89	13.73	12.50	24.49	90.43	3,012.65	2,677.14	2,651.01	26.13	102.462	
3,900.00	3,875.51	3,561.11	3,550.07	14.09	12.86	24.53	93.32	3,024.87	2,678.00	2,651.14	26.86	99.694	
4,000.00	3,974.73	3,661.08	3,649.26	14.46	13.23	24.58	96.22	3,037.09	2,678.86	2,651.26	27.60	97.073	
4,100.00	4,073.96	3,761.06	3,748.44	14.83	13.60	24.62	99.11	3,049.31	2,679.72	2,651.39	28.33	94.588	
4,200.00	4,173.18	3,861.03	3,847.63	15.20	13.97	24.66	102.01	3,061.52	2,680.58	2,651.52	29.06	92.229	
4,300.00	4,272.41	3,961.01	3,946.81	15.56	14.34	24.71	104.90	3,073.74	2,681.44	2,651.64	29.80	89.985	
4,400.00	4,371.63	4,060.99	4,046.00	15.93	14.71	24.75	107.80	3,085.96	2,682.31	2,651.78	30.53	87.850	
4,500.00	4,470.86	4,160.96	4,145.18	16.30	15.07	24.79	110.69	3,098.18	2,683.18	2,651.91	31.27	85.815	
4,600.00	4,570.08	4,260.94	4,244.37	16.67	15.44	24.83	113.59	3,110.40	2,684.04	2,652.04	32.00	83.873	
4,700.00	4,669.31	4,360.92	4,343.55	17.04	15.81	24.88	116.48	3,122.61	2,684.91	2,652.18	32.74	82.018	
4,800.00	4,768.54	4,460.89	4,442.73	17.40	16.18	24.92	119.38	3,134.83	2,685.78	2,652.31	33.47	80.244	
4,900.00	4,867.76	4,560.87	4,541.92	17.77	16.55	24.96	122.27	3,147.05	2,686.66	2,652.45	34.20	78.547	

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

Total Directional

Anticollision Report

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Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
5,000.00	4,966.99	4,660.84	4,641.10	18.14	16.92	25.00	125.17	3,159.27	2,687.53	2,652.59	34.94	76.921	
5,100.00	5,066.21	4,760.82	4,740.29	18.51	17.28	25.05	128.06	3,171.48	2,688.41	2,652.73	35.67	75.362	
5,200.00	5,165.44	4,860.80	4,839.47	18.88	17.65	25.09	130.96	3,183.70	2,689.28	2,652.88	36.41	73.866	
5,300.00	5,264.66	4,960.77	4,938.66	19.24	18.02	25.13	133.85	3,195.92	2,690.16	2,653.02	37.14	72.429	
5,400.00	5,363.89	5,060.75	5,037.84	19.61	18.39	25.17	136.75	3,208.14	2,691.04	2,653.17	37.88	71.048	
5,500.00	5,463.11	5,160.73	5,137.03	19.98	18.76	25.22	139.64	3,220.35	2,691.92	2,653.31	38.61	69.719	
5,600.00	5,562.34	5,260.70	5,236.21	20.35	19.13	25.26	142.54	3,232.57	2,692.81	2,653.46	39.35	68.440	
5,700.00	5,661.56	5,360.68	5,335.40	20.72	19.49	25.30	145.43	3,244.79	2,693.69	2,653.61	40.08	67.208	
5,800.00	5,760.79	5,460.65	5,434.58	21.08	19.86	25.34	148.33	3,257.01	2,694.58	2,653.76	40.81	66.020	
5,900.00	5,860.02	5,560.63	5,533.77	21.45	20.23	25.39	151.22	3,269.22	2,695.46	2,653.92	41.55	64.874	
6,000.00	5,959.24	5,660.61	5,632.95	21.82	20.60	25.43	154.12	3,281.44	2,696.35	2,654.07	42.28	63.769	
6,100.00	6,058.47	5,760.58	5,732.14	22.19	20.97	25.47	157.01	3,293.66	2,697.24	2,654.23	43.02	62.700	
6,200.00	6,157.69	5,860.56	5,831.32	22.56	21.34	25.51	159.91	3,305.88	2,698.14	2,654.38	43.75	61.668	
6,300.00	6,256.92	5,960.54	5,930.50	22.93	21.71	25.55	162.80	3,318.10	2,699.03	2,654.54	44.49	60.670	
6,400.00	6,356.14	6,060.51	6,029.69	23.29	22.08	25.60	165.70	3,330.31	2,699.92	2,654.70	45.22	59.704	
6,500.00	6,455.37	6,160.49	6,128.87	23.66	22.44	25.64	168.59	3,342.53	2,700.82	2,654.86	45.96	58.770	
6,600.00	6,554.59	6,260.46	6,228.06	24.03	22.81	25.68	171.49	3,354.75	2,701.72	2,655.03	46.69	57.864	
6,700.00	6,653.82	6,360.44	6,327.24	24.40	23.18	25.72	174.38	3,366.97	2,702.62	2,655.19	47.43	56.987	
6,800.00	6,753.04	6,460.42	6,426.43	24.77	23.55	25.77	177.28	3,379.18	2,703.52	2,655.36	48.16	56.137	
6,900.00	6,852.27	6,560.39	6,525.61	25.14	23.92	25.81	180.17	3,391.40	2,704.42	2,655.53	48.89	55.312	
7,000.00	6,951.50	6,660.37	6,624.80	25.50	24.29	25.85	183.06	3,403.62	2,705.32	2,655.69	49.63	54.511	
7,100.00	7,050.72	6,760.35	6,723.98	25.87	24.66	25.89	185.96	3,415.84	2,706.23	2,655.86	50.36	53.734	
7,200.00	7,149.95	6,860.32	6,823.17	26.24	25.03	25.93	188.85	3,428.05	2,707.13	2,656.04	51.10	52.980	
7,300.00	7,249.17	6,960.30	6,922.35	26.61	25.39	25.98	191.75	3,440.27	2,708.04	2,656.21	51.83	52.246	
7,400.00	7,348.40	7,060.27	7,021.54	26.98	25.76	26.02	194.64	3,452.49	2,708.95	2,656.38	52.57	51.534	
7,500.00	7,447.62	7,160.25	7,120.72	27.35	26.13	26.06	197.54	3,464.71	2,709.86	2,656.56	53.30	50.841	
7,600.00	7,546.85	7,260.23	7,219.91	27.71	26.50	26.10	200.43	3,476.92	2,710.77	2,656.74	54.04	50.166	
7,700.00	7,646.07	7,360.20	7,319.09	28.08	26.87	26.14	203.33	3,489.14	2,711.69	2,656.92	54.77	49.510	
7,800.00	7,745.30	7,460.18	7,418.27	28.45	27.24	26.18	206.22	3,501.36	2,712.60	2,657.10	55.50	48.872	
7,900.00	7,844.52	7,560.16	7,517.46	28.82	27.61	26.23	209.12	3,513.58	2,713.52	2,657.28	56.24	48.250	
8,000.00	7,943.75	7,660.13	7,616.64	29.19	27.98	26.27	212.01	3,525.80	2,714.44	2,657.46	56.97	47.644	
8,100.00	8,042.98	7,760.11	7,715.83	29.56	28.35	26.31	214.91	3,538.01	2,715.36	2,657.65	57.71	47.053	
8,200.00	8,142.20	7,860.08	7,815.01	29.92	28.71	26.35	217.80	3,550.23	2,716.28	2,657.84	58.44	46.478	
8,300.00	8,241.43	7,960.06	7,914.20	30.29	29.08	26.39	220.70	3,562.45	2,717.20	2,658.02	59.18	45.917	
8,400.00	8,340.65	8,060.04	8,013.38	30.66	29.45	26.43	223.59	3,574.67	2,718.12	2,658.21	59.91	45.369	
8,500.00	8,439.88	8,160.01	8,112.57	31.03	29.82	26.48	226.49	3,586.88	2,719.05	2,658.40	60.65	44.835	
8,600.00	8,539.10	8,259.99	8,211.75	31.40	30.19	26.52	229.38	3,599.10	2,719.98	2,658.60	61.38	44.314	
8,700.00	8,638.33	8,359.97	8,310.94	31.77	30.56	26.56	232.28	3,611.32	2,720.90	2,658.79	62.11	43.805	
8,800.00	8,737.55	8,459.94	8,410.12	32.14	30.93	26.60	235.17	3,623.54	2,721.83	2,658.98	62.85	43.307	
8,900.00	8,836.78	8,559.92	8,509.31	32.51	31.30	26.64	238.07	3,635.75	2,722.76	2,659.18	63.58	42.822	
9,000.00	8,936.08	8,659.85	8,608.44	32.87	31.67	47.18	240.96	3,647.97	2,724.94	2,660.63	64.32	42.368	
9,100.00	9,035.51	8,759.34	8,707.15	33.23	32.03	83.60	243.84	3,660.13	2,732.76	2,667.72	65.03	42.020	
9,200.00	9,134.12	9,150.00	9,095.62	33.58	33.40	94.42	231.25	3,688.96	2,743.80	2,677.27	66.53	41.240	
9,300.00	9,228.64	9,211.92	9,156.19	33.93	33.58	94.60	218.54	3,689.06	2,748.57	2,681.46	67.11	40.958	
9,400.00	9,316.12	9,250.00	9,192.62	34.26	33.69	94.32	207.50	3,689.15	2,756.88	2,689.28	67.60	40.782	
9,500.00	9,393.91	9,286.34	9,226.64	34.55	33.79	93.72	194.73	3,689.25	2,769.26	2,701.22	68.04	40.701	SF
9,600.00	9,459.64	9,300.00	9,239.21	34.79	33.83	92.30	189.37	3,689.30	2,785.94	2,717.56	68.38	40.744	
9,700.00	9,511.32	9,300.00	9,239.21	34.99	33.83	90.18	189.37	3,689.30	2,806.69	2,738.07	68.63	40.898	
9,800.00	9,547.36	9,300.00	9,239.21	35.14	33.83	87.68	189.37	3,689.30	2,830.88	2,762.05	68.83	41.127	
9,900.00	9,566.69	9,300.00	9,239.21	35.27	33.83	84.91	189.37	3,689.30	2,857.68	2,788.67	69.00	41.413	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun Federal Com 224H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
10,000.00	9,570.00	9,282.79	9,223.35	35.39	33.78	82.77	196.07	3,689.24	2,886.23	2,817.14	69.10	41.772	
10,100.00	9,570.00	9,269.27	9,210.76	35.54	33.75	82.51	201.00	3,689.20	2,917.41	2,848.21	69.21	42.155	
10,200.00	9,570.00	9,250.00	9,192.62	35.71	33.69	82.14	207.50	3,689.15	2,951.53	2,882.22	69.31	42.583	
10,300.00	9,570.00	9,250.00	9,192.62	35.91	33.69	82.14	207.50	3,689.15	2,988.43	2,918.94	69.49	43.005	
10,400.00	9,570.00	9,250.00	9,192.62	36.12	33.69	82.14	207.50	3,689.15	3,028.18	2,958.51	69.68	43.460	
10,500.00	9,570.00	9,228.11	9,171.77	36.34	33.63	81.71	214.14	3,689.10	3,070.41	3,000.62	69.80	43.991	
10,600.00	9,570.00	9,220.20	9,164.17	36.58	33.61	81.56	216.34	3,689.08	3,115.30	3,045.33	69.97	44.524	
10,700.00	9,570.00	9,200.00	9,144.64	36.84	33.55	81.16	221.49	3,689.04	3,162.74	3,092.64	70.10	45.117	
10,800.00	9,570.00	9,200.00	9,144.64	37.11	33.55	81.16	221.49	3,689.04	3,212.37	3,142.06	70.31	45.691	
10,900.00	9,570.00	9,200.00	9,144.64	37.39	33.55	81.16	221.49	3,689.04	3,264.31	3,193.79	70.51	46.294	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
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	0.26	0.26	-90.23	-0.08	-20.00	20.00	19.47	0.53	37.928	
200.00	200.00	200.10	200.00	0.62	0.62	-90.23	-0.08	-20.00	20.00	18.76	1.24	16.074	
300.00	300.00	300.10	300.00	0.98	0.98	-90.23	-0.08	-20.00	20.00	18.04	1.96	10.198	
400.00	400.00	400.10	400.00	1.34	1.34	-90.23	-0.08	-20.00	20.00	17.32	2.68	7.468	
500.00	500.00	500.10	500.00	1.70	1.70	-90.23	-0.08	-20.00	20.00	16.61	3.40	5.891	CC, ES
600.00	599.98	600.08	599.98	2.05	2.06	-158.71	-0.08	-20.00	21.62	17.51	4.11	5.263	SF
700.00	699.84	699.94	699.84	2.41	2.41	-162.78	-0.08	-20.00	26.56	21.74	4.82	5.512	
800.00	799.45	799.55	799.45	2.76	2.77	-166.97	-0.08	-20.00	34.98	29.45	5.53	6.323	
900.00	898.74	898.84	898.74	3.12	3.13	-170.24	-0.08	-20.00	46.62	40.37	6.25	7.461	
1,000.00	997.97	998.07	997.97	3.48	3.48	-172.29	-0.08	-20.00	58.90	51.94	6.96	8.465	
1,100.00	1,097.19	1,097.29	1,097.19	3.84	3.84	-173.63	-0.08	-20.00	71.23	63.56	7.67	9.286	
1,200.00	1,196.42	1,196.52	1,196.42	4.20	4.19	-174.57	-0.08	-20.00	83.59	75.20	8.39	9.969	
1,300.00	1,295.65	1,295.75	1,295.65	4.56	4.55	-175.27	-0.08	-20.00	95.96	86.86	9.10	10.545	
1,400.00	1,394.87	1,394.97	1,394.87	4.93	4.91	-175.82	-0.08	-20.00	108.35	98.53	9.82	11.037	
1,500.00	1,494.10	1,494.20	1,494.10	5.29	5.26	-176.25	-0.08	-20.00	120.74	110.21	10.53	11.462	
1,600.00	1,593.32	1,593.42	1,593.32	5.66	5.62	-176.60	-0.08	-20.00	133.14	121.89	11.25	11.832	
1,700.00	1,692.55	1,692.65	1,692.55	6.02	5.97	-176.89	-0.08	-20.00	145.54	133.57	11.97	12.158	
1,800.00	1,791.77	1,791.87	1,791.77	6.39	6.33	-177.13	-0.08	-20.00	157.95	145.26	12.69	12.447	
1,900.00	1,891.00	1,887.80	1,887.69	6.75	6.67	-176.98	0.60	-21.16	171.24	157.85	13.38	12.795	
2,000.00	1,990.22	1,983.00	1,982.78	7.12	7.00	-176.09	2.89	-25.03	186.61	172.55	14.06	13.270	
2,100.00	2,089.45	2,081.58	2,081.17	7.48	7.35	-174.99	5.99	-30.29	202.99	188.23	14.77	13.745	
2,200.00	2,188.67	2,180.16	2,179.56	7.85	7.70	-174.05	9.10	-35.56	219.44	203.96	15.47	14.180	
2,300.00	2,287.90	2,278.74	2,277.95	8.22	8.05	-173.24	12.21	-40.82	235.93	219.75	16.18	14.579	
2,400.00	2,387.13	2,377.32	2,376.34	8.58	8.40	-172.54	15.32	-46.09	252.46	235.57	16.89	14.946	
2,500.00	2,486.35	2,475.90	2,474.73	8.95	8.75	-171.93	18.42	-51.36	269.02	251.42	17.60	15.285	
2,600.00	2,585.58	2,574.48	2,573.12	9.32	9.10	-171.38	21.53	-56.62	285.61	267.30	18.31	15.599	
2,700.00	2,684.80	2,673.06	2,671.51	9.69	9.45	-170.90	24.64	-61.89	302.22	283.20	19.02	15.889	
2,800.00	2,784.03	2,771.64	2,769.90	10.05	9.80	-170.47	27.75	-67.15	318.86	299.12	19.73	16.160	
2,900.00	2,883.25	2,870.22	2,868.29	10.42	10.15	-170.08	30.85	-72.42	335.50	315.06	20.44	16.411	
3,000.00	2,982.48	2,968.80	2,966.68	10.79	10.50	-169.72	33.96	-77.68	352.16	331.01	21.16	16.647	
3,100.00	3,081.70	3,067.38	3,065.07	11.15	10.85	-169.40	37.07	-82.95	368.84	346.97	21.87	16.867	
3,200.00	3,180.93	3,165.96	3,163.46	11.52	11.20	-169.11	40.18	-88.21	385.52	362.94	22.58	17.073	
3,300.00	3,280.15	3,264.54	3,261.85	11.89	11.56	-168.84	43.28	-93.48	402.21	378.92	23.29	17.267	
3,400.00	3,379.38	3,363.12	3,360.24	12.26	11.91	-168.59	46.39	-98.74	418.91	394.90	24.01	17.449	
3,500.00	3,478.61	3,461.70	3,458.63	12.62	12.26	-168.36	49.50	-104.01	435.62	410.90	24.72	17.621	
3,600.00	3,577.83	3,560.28	3,557.02	12.99	12.61	-168.15	52.61	-109.28	452.33	426.90	25.44	17.784	
3,700.00	3,677.06	3,658.86	3,655.41	13.36	12.97	-167.95	55.71	-114.54	469.05	442.90	26.15	17.937	
3,800.00	3,776.28	3,757.44	3,753.80	13.73	13.32	-167.77	58.82	-119.81	485.77	458.91	26.86	18.083	
3,900.00	3,875.51	3,856.02	3,852.19	14.09	13.67	-167.60	61.93	-125.07	502.50	474.92	27.58	18.221	
4,000.00	3,974.73	3,954.60	3,950.58	14.46	14.03	-167.44	65.04	-130.34	519.23	490.94	28.29	18.352	
4,100.00	4,073.96	4,053.18	4,048.97	14.83	14.38	-167.29	68.14	-135.60	535.97	506.96	29.01	18.476	
4,200.00	4,173.18	4,151.76	4,147.36	15.20	14.73	-167.15	71.25	-140.87	552.71	522.99	29.72	18.595	
4,300.00	4,272.41	4,250.34	4,245.76	15.56	15.09	-167.02	74.36	-146.13	569.45	539.01	30.44	18.708	
4,400.00	4,371.63	4,348.92	4,344.15	15.93	15.44	-166.89	77.47	-151.40	586.20	555.04	31.15	18.816	
4,500.00	4,470.86	4,447.50	4,442.54	16.30	15.80	-166.77	80.57	-156.67	602.95	571.08	31.87	18.918	
4,600.00	4,570.08	4,546.08	4,540.93	16.67	16.15	-166.66	83.68	-161.93	619.70	587.11	32.59	19.017	
4,700.00	4,669.31	4,644.67	4,639.32	17.04	16.50	-166.55	86.79	-167.20	636.45	603.15	33.30	19.111	
4,800.00	4,768.54	4,743.25	4,737.71	17.40	16.86	-166.45	89.90	-172.46	653.20	619.18	34.02	19.201	
4,900.00	4,867.76	4,841.83	4,836.10	17.77	17.21	-166.36	93.00	-177.73	669.96	635.22	34.74	19.288	
5,000.00	4,966.99	4,940.41	4,934.49	18.14	17.57	-166.27	96.11	-182.99	686.72	651.27	35.45	19.371	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun State Com 221H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
5,100.00	5,066.21	5,038.99	5,032.88	18.51	17.92	-166.18	99.22	-188.26	703.48	667.31	36.17	19.450	
5,200.00	5,165.44	5,137.57	5,131.27	18.88	18.28	-166.10	102.33	-193.52	720.24	683.35	36.88	19.527	
5,300.00	5,264.66	5,236.15	5,229.66	19.24	18.63	-166.02	105.43	-198.79	737.00	699.40	37.60	19.600	
5,400.00	5,363.89	5,334.73	5,328.05	19.61	18.99	-165.94	108.54	-204.05	753.76	715.45	38.32	19.671	
5,500.00	5,463.11	5,433.31	5,426.44	19.98	19.34	-165.87	111.65	-209.32	770.53	731.49	39.04	19.739	
5,600.00	5,562.34	5,531.89	5,524.83	20.35	19.70	-165.80	114.76	-214.59	787.30	747.54	39.75	19.805	
5,700.00	5,661.56	5,630.47	5,623.22	20.72	20.05	-165.74	117.86	-219.85	804.06	763.59	40.47	19.868	
5,800.00	5,760.79	5,729.05	5,721.61	21.08	20.41	-165.67	120.97	-225.12	820.83	779.64	41.19	19.930	
5,900.00	5,860.02	5,827.63	5,820.00	21.45	20.76	-165.61	124.08	-230.38	837.60	795.70	41.90	19.989	
6,000.00	5,959.24	5,926.21	5,918.39	21.82	21.12	-165.56	127.19	-235.65	854.37	811.75	42.62	20.046	
6,100.00	6,058.47	6,024.79	6,016.78	22.19	21.47	-165.50	130.29	-240.91	871.14	827.80	43.34	20.101	
6,200.00	6,157.69	6,123.37	6,115.17	22.56	21.83	-165.45	133.40	-246.18	887.91	843.86	44.06	20.154	
6,300.00	6,256.92	6,221.95	6,213.56	22.93	22.18	-165.39	136.51	-251.44	904.68	859.91	44.77	20.206	
6,400.00	6,356.14	6,320.53	6,311.95	23.29	22.54	-165.34	139.62	-256.71	921.46	875.97	45.49	20.256	
6,500.00	6,455.37	6,419.11	6,410.34	23.66	22.89	-165.30	142.72	-261.98	938.23	892.02	46.21	20.304	
6,600.00	6,554.59	6,517.69	6,508.73	24.03	23.25	-165.25	145.83	-267.24	955.01	908.08	46.93	20.351	
6,700.00	6,653.82	6,616.27	6,607.12	24.40	23.60	-165.20	148.94	-272.51	971.78	924.14	47.64	20.396	
6,800.00	6,753.04	6,714.85	6,705.51	24.77	23.96	-165.16	152.05	-277.77	988.56	940.19	48.36	20.440	
6,900.00	6,852.27	6,813.43	6,803.90	25.14	24.31	-165.12	155.15	-283.04	1,005.33	956.25	49.08	20.483	
7,000.00	6,951.50	6,912.01	6,902.30	25.50	24.67	-165.08	158.26	-288.30	1,022.11	972.31	49.80	20.525	
7,100.00	7,050.72	7,010.59	7,000.69	25.87	25.02	-165.04	161.37	-293.57	1,038.88	988.37	50.52	20.565	
7,200.00	7,149.95	7,109.17	7,099.08	26.24	25.38	-165.00	164.48	-298.83	1,055.66	1,004.43	51.24	20.604	
7,300.00	7,249.17	7,207.75	7,197.47	26.61	25.73	-164.96	167.58	-304.10	1,072.44	1,020.49	51.95	20.642	
7,400.00	7,348.40	7,306.33	7,295.86	26.98	26.09	-164.93	170.69	-309.36	1,089.22	1,036.55	52.67	20.679	
7,500.00	7,447.62	7,404.91	7,394.25	27.35	26.44	-164.89	173.80	-314.63	1,106.00	1,052.61	53.39	20.715	
7,600.00	7,546.85	7,503.49	7,492.64	27.71	26.80	-164.86	176.91	-319.90	1,122.78	1,068.67	54.11	20.750	
7,700.00	7,646.07	7,602.07	7,591.03	28.08	27.16	-164.83	180.01	-325.16	1,139.56	1,084.73	54.83	20.784	
7,800.00	7,745.30	7,700.65	7,689.42	28.45	27.51	-164.79	183.12	-330.43	1,156.34	1,100.79	55.55	20.818	
7,900.00	7,844.52	7,799.23	7,787.81	28.82	27.87	-164.76	186.23	-335.69	1,173.12	1,116.85	56.26	20.850	
8,000.00	7,943.75	7,897.81	7,886.20	29.19	28.22	-164.73	189.34	-340.96	1,189.90	1,132.91	56.98	20.881	
8,100.00	8,042.98	7,996.39	7,984.59	29.56	28.58	-164.70	192.44	-346.22	1,206.68	1,148.97	57.70	20.912	
8,200.00	8,142.20	8,094.97	8,082.98	29.92	28.93	-164.68	195.55	-351.49	1,223.46	1,165.04	58.42	20.942	
8,300.00	8,241.43	8,193.55	8,181.37	30.29	29.29	-164.65	198.66	-356.75	1,240.24	1,181.10	59.14	20.971	
8,400.00	8,340.65	8,292.13	8,279.76	30.66	29.64	-164.62	201.77	-362.02	1,257.02	1,197.16	59.86	21.000	
8,500.00	8,439.88	8,390.71	8,378.15	31.03	30.00	-164.60	204.87	-367.29	1,273.80	1,213.22	60.58	21.027	
8,600.00	8,539.10	8,489.29	8,476.54	31.40	30.36	-164.57	207.98	-372.55	1,290.58	1,229.29	61.30	21.055	
8,700.00	8,638.33	8,587.87	8,574.93	31.77	30.71	-164.55	211.09	-377.82	1,307.37	1,245.35	62.02	21.081	
8,800.00	8,737.55	8,686.45	8,673.32	32.14	31.07	-164.52	214.20	-383.08	1,324.15	1,261.41	62.74	21.107	
8,900.00	8,836.78	8,785.03	8,771.71	32.51	31.42	-164.50	217.30	-388.35	1,340.93	1,277.48	63.46	21.132	
9,000.00	8,936.08	8,883.78	8,870.27	32.87	31.78	-143.74	220.42	-393.62	1,356.65	1,292.47	64.17	21.140	
9,100.00	9,035.51	9,033.18	9,019.53	33.23	32.29	-107.61	219.12	-398.11	1,365.83	1,300.66	65.17	20.959	
9,200.00	9,134.12	9,110.59	9,096.43	33.58	32.54	-98.33	210.77	-398.07	1,370.20	1,304.48	65.72	20.850	
9,300.00	9,228.64	9,170.17	9,154.47	33.93	32.72	-98.70	197.40	-397.96	1,379.53	1,313.38	66.15	20.856	
9,400.00	9,316.12	9,214.55	9,196.62	34.26	32.85	-98.41	183.56	-397.85	1,395.66	1,329.22	66.44	21.007	
9,500.00	9,393.91	9,250.00	9,229.45	34.55	32.95	-97.26	170.18	-397.74	1,419.58	1,352.95	66.63	21.304	
9,600.00	9,459.64	9,250.00	9,229.45	34.79	32.95	-93.92	170.18	-397.74	1,451.39	1,384.88	66.50	21.825	
9,700.00	9,511.32	9,264.91	9,242.99	34.99	32.99	-90.33	163.96	-397.68	1,490.15	1,423.63	66.51	22.403	
9,800.00	9,547.36	9,250.00	9,229.45	35.14	32.95	-84.75	170.18	-397.74	1,534.66	1,468.39	66.27	23.157	
9,900.00	9,566.69	9,250.00	9,229.45	35.27	32.95	-79.33	170.18	-397.74	1,582.71	1,516.44	66.27	23.883	
10,000.00	9,570.00	9,250.00	9,229.45	35.39	32.95	-75.87	170.18	-397.74	1,633.03	1,566.67	66.35	24.611	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun State Com 221H - OH - Plan #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-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
10,100.00	9,570.00	9,223.21	9,204.71	35.54	32.88	-74.89	180.48	-397.82	1,686.57	1,620.40	66.17	25.487	
10,200.00	9,570.00	9,200.00	9,182.92	35.71	32.81	-74.03	188.46	-397.89	1,744.16	1,678.12	66.04	26.410	
10,300.00	9,570.00	9,200.00	9,182.92	35.91	32.81	-74.03	188.46	-397.89	1,805.04	1,738.87	66.17	27.280	
10,400.00	9,570.00	9,200.00	9,182.92	36.12	32.81	-74.03	188.46	-397.89	1,869.29	1,803.00	66.29	28.200	
10,500.00	9,570.00	9,180.73	9,164.59	36.34	32.75	-73.32	194.40	-397.93	1,936.25	1,870.04	66.21	29.243	
10,600.00	9,570.00	9,172.57	9,156.77	36.58	32.73	-73.02	196.73	-397.95	2,005.92	1,939.67	66.25	30.277	
10,700.00	9,570.00	9,150.00	9,134.98	36.84	32.66	-72.18	202.60	-398.00	2,078.17	2,012.02	66.15	31.415	
10,800.00	9,570.00	9,150.00	9,134.98	37.11	32.66	-72.18	202.60	-398.00	2,152.22	2,085.94	66.27	32.474	
10,900.00	9,570.00	9,150.00	9,134.98	37.39	32.66	-72.18	202.60	-398.00	2,228.29	2,161.90	66.39	33.564	
11,000.00	9,570.00	9,150.00	9,134.98	37.69	32.66	-72.18	202.60	-398.00	2,306.19	2,239.70	66.50	34.680	
11,100.00	9,570.00	9,150.00	9,134.98	38.00	32.66	-72.18	202.60	-398.00	2,385.75	2,319.14	66.60	35.820	
11,200.00	9,570.00	9,150.00	9,134.98	38.32	32.66	-72.18	202.60	-398.00	2,466.79	2,400.08	66.70	36.981	
11,300.00	9,570.00	9,150.00	9,134.98	38.66	32.66	-72.18	202.60	-398.00	2,549.17	2,482.37	66.80	38.162	
11,400.00	9,570.00	9,127.36	9,112.91	39.00	32.59	-71.33	207.62	-398.04	2,632.30	2,565.59	66.71	39.456	
11,500.00	9,570.00	9,123.40	9,109.03	39.36	32.58	-71.19	208.41	-398.05	2,716.83	2,650.05	66.78	40.685	
11,600.00	9,570.00	9,100.00	9,085.99	39.73	32.51	-70.32	212.52	-398.08	2,802.72	2,736.03	66.69	42.024	
11,700.00	9,570.00	9,100.00	9,085.99	40.11	32.51	-70.32	212.52	-398.08	2,889.03	2,822.25	66.78	43.259	
11,800.00	9,570.00	9,100.00	9,085.99	40.50	32.51	-70.32	212.52	-398.08	2,976.20	2,909.33	66.87	44.506	
11,900.00	9,570.00	9,100.00	9,085.99	40.90	32.51	-70.32	212.52	-398.08	3,064.15	2,997.20	66.96	45.764	
12,000.00	9,570.00	9,100.00	9,085.99	41.31	32.51	-70.32	212.52	-398.08	3,152.82	3,085.79	67.04	47.031	
12,100.00	9,570.00	9,100.00	9,085.99	41.74	32.51	-70.32	212.52	-398.08	3,242.15	3,175.04	67.12	48.307	

Total Directional

Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
0.00	0.00	0.00	10.90	0.00	0.00	89.79	9.74	2,632.81	2,632.85				
100.00	100.00	89.10	100.00	0.26	0.25	89.79	9.74	2,632.81	2,632.83	2,632.32	0.51	5,168.348	
200.00	200.00	189.10	200.00	0.62	0.60	89.79	9.74	2,632.81	2,632.83	2,631.61	1.22	2,162.718	
300.00	300.00	289.10	300.00	0.98	0.95	89.79	9.74	2,632.81	2,632.83	2,630.89	1.93	1,361.118	
400.00	400.00	389.10	400.00	1.34	1.31	89.79	9.74	2,632.81	2,632.83	2,630.18	2.65	993.049	
500.00	500.00	489.10	500.00	1.70	1.67	89.79	9.74	2,632.81	2,632.83	2,629.46	3.37	781.672	
600.00	599.98	589.08	599.98	2.05	2.03	23.14	9.74	2,632.81	2,631.22	2,627.14	4.08	644.853	
700.00	699.84	688.94	699.84	2.41	2.39	23.22	9.74	2,632.81	2,626.41	2,621.62	4.79	548.162	
800.00	799.45	788.55	799.45	2.76	2.74	23.36	9.74	2,632.81	2,618.40	2,612.90	5.50	475.708	
900.00	898.74	887.84	898.74	3.12	3.10	23.51	9.74	2,632.81	2,607.51	2,601.29	6.22	419.318	
1,000.00	997.97	987.07	997.97	3.48	3.46	23.62	9.74	2,632.81	2,596.11	2,589.18	6.93	374.718	
1,100.00	1,097.19	1,086.29	1,097.19	3.84	3.81	23.73	9.74	2,632.81	2,584.71	2,577.07	7.64	338.315	
1,200.00	1,196.42	1,185.52	1,196.42	4.20	4.17	23.84	9.74	2,632.81	2,573.33	2,564.98	8.35	308.061	
1,300.00	1,295.65	1,284.75	1,295.65	4.56	4.52	23.96	9.74	2,632.81	2,561.96	2,552.89	9.07	282.531	
1,400.00	1,394.87	1,383.97	1,394.87	4.93	4.88	24.07	9.74	2,632.81	2,550.60	2,540.82	9.78	260.707	
1,500.00	1,494.10	1,483.20	1,494.10	5.29	5.23	24.18	9.74	2,632.81	2,539.25	2,528.75	10.50	241.842	
1,600.00	1,593.32	1,582.42	1,593.32	5.66	5.59	24.30	9.74	2,632.81	2,527.91	2,516.69	11.22	225.375	
1,700.00	1,692.55	1,681.65	1,692.55	6.02	5.95	24.41	9.74	2,632.81	2,516.57	2,504.64	11.93	210.879	
1,800.00	1,791.77	1,780.87	1,791.77	6.39	6.30	24.53	9.74	2,632.81	2,505.25	2,492.60	12.65	198.021	
1,900.00	1,891.00	1,986.26	1,997.04	6.75	7.03	24.70	13.23	2,628.14	2,491.47	2,477.75	13.71	181.666	
2,000.00	1,990.22	2,085.03	2,095.67	7.12	7.38	24.75	16.32	2,624.00	2,475.94	2,461.52	14.42	171.674	
2,100.00	2,089.45	2,183.79	2,194.30	7.48	7.73	24.80	19.42	2,619.85	2,460.42	2,445.29	15.13	162.608	
2,200.00	2,188.67	2,282.55	2,292.93	7.85	8.08	24.85	22.51	2,615.71	2,444.90	2,429.06	15.84	154.344	
2,300.00	2,287.90	2,381.32	2,391.56	8.22	8.43	24.90	25.61	2,611.57	2,429.38	2,412.83	16.55	146.782	
2,400.00	2,387.13	2,480.08	2,490.19	8.58	8.78	24.95	28.71	2,607.42	2,413.86	2,396.60	17.26	139.838	
2,500.00	2,486.35	2,578.85	2,588.82	8.95	9.13	25.01	31.80	2,603.28	2,398.35	2,380.37	17.97	133.439	
2,600.00	2,585.58	2,677.61	2,687.45	9.32	9.48	25.06	34.90	2,599.13	2,382.83	2,364.15	18.69	127.524	
2,700.00	2,684.80	2,776.38	2,786.08	9.69	9.83	25.11	38.00	2,594.99	2,367.32	2,347.92	19.40	122.040	
2,800.00	2,784.03	2,875.14	2,884.70	10.05	10.19	25.17	41.09	2,590.85	2,351.81	2,331.70	20.11	116.943	
2,900.00	2,883.25	2,973.91	2,983.33	10.42	10.54	25.22	44.19	2,586.70	2,336.31	2,315.48	20.82	112.193	
3,000.00	2,982.48	3,072.67	3,081.96	10.79	10.89	25.28	47.28	2,582.56	2,320.80	2,299.26	21.54	107.756	
3,100.00	3,081.70	3,171.44	3,180.59	11.15	11.24	25.34	50.38	2,578.41	2,305.30	2,283.05	22.25	103.602	
3,200.00	3,180.93	3,270.20	3,279.22	11.52	11.60	25.40	53.48	2,574.27	2,289.80	2,266.83	22.97	99.705	
3,300.00	3,280.15	3,368.97	3,377.85	11.89	11.95	25.45	56.57	2,570.12	2,274.30	2,250.62	23.68	96.042	
3,400.00	3,379.38	3,467.73	3,476.48	12.26	12.30	25.51	59.67	2,565.98	2,258.81	2,234.41	24.39	92.594	
3,500.00	3,478.61	3,566.50	3,575.11	12.62	12.66	25.57	62.76	2,561.84	2,243.31	2,218.20	25.11	89.340	
3,600.00	3,577.83	3,665.26	3,673.74	12.99	13.01	25.63	65.86	2,557.69	2,227.82	2,202.00	25.82	86.267	
3,700.00	3,677.06	3,764.03	3,772.37	13.36	13.36	25.70	68.96	2,553.55	2,212.33	2,185.79	26.54	83.358	
3,800.00	3,776.28	3,862.79	3,871.00	13.73	13.72	25.76	72.05	2,549.40	2,196.85	2,169.59	27.26	80.602	
3,900.00	3,875.51	3,961.56	3,969.63	14.09	14.07	25.82	75.15	2,545.26	2,181.36	2,153.39	27.97	77.987	
4,000.00	3,974.73	4,060.32	4,068.26	14.46	14.42	25.89	78.24	2,541.12	2,165.88	2,137.20	28.69	75.501	
4,100.00	4,073.96	4,159.09	4,166.88	14.83	14.78	25.95	81.34	2,536.97	2,150.41	2,121.00	29.40	73.137	
4,200.00	4,173.18	4,257.85	4,265.51	15.20	15.13	26.02	84.44	2,532.83	2,134.93	2,104.81	30.12	70.884	
4,300.00	4,272.41	4,356.61	4,364.14	15.56	15.49	26.09	87.53	2,528.68	2,119.46	2,088.63	30.83	68.736	
4,400.00	4,371.63	4,455.38	4,462.77	15.93	15.84	26.16	90.63	2,524.54	2,103.99	2,072.44	31.55	66.685	
4,500.00	4,470.86	4,554.14	4,561.40	16.30	16.20	26.23	93.72	2,520.39	2,088.53	2,056.26	32.27	64.726	
4,600.00	4,570.08	4,652.91	4,660.03	16.67	16.55	26.30	96.82	2,516.25	2,073.06	2,040.08	32.98	62.851	
4,700.00	4,669.31	4,751.67	4,758.66	17.04	16.91	26.37	99.92	2,512.11	2,057.60	2,023.90	33.70	61.056	
4,800.00	4,768.54	4,850.44	4,857.29	17.40	17.26	26.44	103.01	2,507.96	2,042.15	2,007.73	34.42	59.335	
4,900.00	4,867.76	4,949.20	4,955.92	17.77	17.61	26.51	106.11	2,503.82	2,026.69	1,991.56	35.13	57.685	
5,000.00	4,966.99	5,047.97	5,054.55	18.14	17.97	26.59	109.21	2,499.67	2,011.24	1,975.39	35.85	56.101	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun State Com 223H - OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-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
5,100.00	5,066.21	5,146.73	5,153.18	18.51	18.32	26.67	112.30	2,495.53	1,995.80	1,959.23	36.57	54.579	
5,200.00	5,165.44	5,245.50	5,251.81	18.88	18.68	26.74	115.40	2,491.38	1,980.35	1,943.07	37.28	53.115	
5,300.00	5,264.66	5,344.26	5,350.44	19.24	19.03	26.82	118.49	2,487.24	1,964.91	1,926.91	38.00	51.706	
5,400.00	5,363.89	5,443.03	5,449.06	19.61	19.39	26.90	121.59	2,483.10	1,949.48	1,910.76	38.72	50.350	
5,500.00	5,463.11	5,541.79	5,547.69	19.98	19.74	26.98	124.69	2,478.95	1,934.05	1,894.61	39.44	49.043	
5,600.00	5,562.34	5,640.56	5,646.32	20.35	20.10	27.06	127.78	2,474.81	1,918.62	1,878.46	40.15	47.783	
5,700.00	5,661.56	5,739.32	5,744.95	20.72	20.45	27.15	130.88	2,470.66	1,903.19	1,862.32	40.87	46.567	
5,800.00	5,760.79	5,838.09	5,843.58	21.08	20.81	27.23	133.97	2,466.52	1,887.77	1,846.18	41.59	45.393	
5,900.00	5,860.02	5,936.85	5,942.21	21.45	21.16	27.32	137.07	2,462.38	1,872.36	1,830.05	42.31	44.258	
6,000.00	5,959.24	6,035.62	6,040.84	21.82	21.52	27.41	140.17	2,458.23	1,856.94	1,813.92	43.02	43.162	
6,100.00	6,058.47	6,134.38	6,139.47	22.19	21.87	27.50	143.26	2,454.09	1,841.54	1,797.80	43.74	42.102	
6,200.00	6,157.69	6,233.15	6,238.10	22.56	22.23	27.59	146.36	2,449.94	1,826.13	1,781.68	44.46	41.076	
6,300.00	6,256.92	6,331.91	6,336.73	22.93	22.58	27.68	149.45	2,445.80	1,810.73	1,765.56	45.18	40.082	
6,400.00	6,356.14	6,430.68	6,435.36	23.29	22.94	27.77	152.55	2,441.65	1,795.34	1,749.45	45.89	39.120	
6,500.00	6,455.37	6,529.44	6,533.99	23.66	23.30	27.87	155.65	2,437.51	1,779.95	1,733.34	46.61	38.187	
6,600.00	6,554.59	6,628.20	6,632.61	24.03	23.65	27.97	158.74	2,433.37	1,764.57	1,717.24	47.33	37.283	
6,700.00	6,653.82	6,726.97	6,731.24	24.40	24.01	28.07	161.84	2,429.22	1,749.19	1,701.14	48.05	36.406	
6,800.00	6,753.04	6,825.73	6,829.87	24.77	24.36	28.17	164.93	2,425.08	1,733.81	1,685.05	48.76	35.555	
6,900.00	6,852.27	6,924.50	6,928.50	25.14	24.72	28.27	168.03	2,420.93	1,718.45	1,668.96	49.48	34.728	
7,000.00	6,951.50	7,023.26	7,027.13	25.50	25.07	28.37	171.13	2,416.79	1,703.08	1,652.88	50.20	33.926	
7,100.00	7,050.72	7,122.03	7,125.76	25.87	25.43	28.48	174.22	2,412.65	1,687.73	1,636.81	50.92	33.146	
7,200.00	7,149.95	7,220.79	7,224.39	26.24	25.78	28.59	177.32	2,408.50	1,672.37	1,620.74	51.64	32.387	
7,300.00	7,249.17	7,319.56	7,323.02	26.61	26.14	28.70	180.42	2,404.36	1,657.03	1,604.67	52.35	31.650	
7,400.00	7,348.40	7,418.32	7,421.65	26.98	26.49	28.81	183.51	2,400.21	1,641.69	1,588.61	53.07	30.933	
7,500.00	7,447.62	7,517.09	7,520.28	27.35	26.85	28.93	186.61	2,396.07	1,626.35	1,572.56	53.79	30.235	
7,600.00	7,546.85	7,615.85	7,618.91	27.71	27.20	29.04	189.70	2,391.92	1,611.03	1,556.52	54.51	29.555	
7,700.00	7,646.07	7,714.62	7,717.54	28.08	27.56	29.16	192.80	2,387.78	1,595.71	1,540.48	55.23	28.893	
7,800.00	7,745.30	7,813.38	7,816.17	28.45	27.92	29.28	195.90	2,383.64	1,580.39	1,524.45	55.95	28.248	
7,900.00	7,844.52	7,912.15	7,914.79	28.82	28.27	29.41	198.99	2,379.49	1,565.09	1,508.42	56.66	27.620	
8,000.00	7,943.75	8,010.91	8,013.42	29.19	28.63	29.53	202.09	2,375.35	1,549.79	1,492.41	57.38	27.008	
8,100.00	8,042.98	8,109.68	8,112.05	29.56	28.98	29.66	205.18	2,371.20	1,534.50	1,476.39	58.10	26.411	
8,200.00	8,142.20	8,208.44	8,210.68	29.92	29.34	29.79	208.28	2,367.06	1,519.21	1,460.39	58.82	25.828	
8,300.00	8,241.43	8,307.21	8,309.31	30.29	29.69	29.92	211.38	2,362.91	1,503.94	1,444.40	59.54	25.260	
8,400.00	8,340.65	8,405.97	8,407.94	30.66	30.05	30.06	214.47	2,358.77	1,488.67	1,428.41	60.26	24.705	
8,500.00	8,439.88	8,504.74	8,506.57	31.03	30.40	30.20	217.57	2,354.63	1,473.41	1,412.43	60.98	24.164	
8,600.00	8,539.10	8,603.50	8,605.20	31.40	30.76	30.34	220.66	2,350.48	1,458.16	1,396.46	61.69	23.635	
8,700.00	8,638.33	8,702.26	8,703.83	31.77	31.12	30.49	223.76	2,346.34	1,442.92	1,380.50	62.41	23.119	
8,800.00	8,737.55	8,801.03	8,802.46	32.14	31.47	30.64	226.86	2,342.19	1,427.68	1,364.55	63.13	22.614	
8,900.00	8,836.78	8,899.79	8,901.09	32.51	31.83	30.79	229.95	2,338.05	1,412.46	1,348.61	63.85	22.121	
9,000.00	8,936.08	8,964.55	8,965.79	32.87	32.05	51.60	230.78	2,335.94	1,399.71	1,335.19	64.52	21.695	
9,098.67	9,034.18	9,027.53	9,028.74	33.23	32.26	88.03	229.08	2,335.16	1,395.36	1,330.24	65.13	21.425	CC
9,100.00	9,035.51	9,028.38	9,029.59	33.23	32.27	88.47	229.04	2,335.16	1,395.37	1,330.23	65.14	21.422	ES
9,200.00	9,134.12	9,100.00	9,100.81	33.58	32.50	98.68	221.83	2,335.20	1,398.98	1,333.25	65.72	21.286	
9,300.00	9,228.64	9,150.00	9,149.73	33.93	32.65	98.78	211.59	2,335.29	1,408.27	1,342.07	66.20	21.274	SF
9,400.00	9,316.12	9,200.00	9,197.57	34.26	32.80	98.59	197.12	2,335.40	1,424.26	1,357.65	66.60	21.384	
9,500.00	9,393.91	9,231.40	9,226.91	34.55	32.89	97.27	185.92	2,335.49	1,447.96	1,381.10	66.87	21.655	
9,600.00	9,459.64	9,250.00	9,243.97	34.79	32.94	94.69	178.53	2,335.55	1,479.47	1,412.45	67.01	22.077	
9,700.00	9,511.32	9,250.00	9,243.97	34.99	32.94	90.51	178.53	2,335.55	1,518.00	1,450.97	67.03	22.647	
9,800.00	9,547.36	9,250.00	9,243.97	35.14	32.94	85.60	178.53	2,335.55	1,562.11	1,495.05	67.07	23.292	
9,900.00	9,566.69	9,250.00	9,243.97	35.27	32.94	80.18	178.53	2,335.55	1,610.07	1,542.91	67.16	23.973	

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 Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Offset Design: Sun-Sombrero Pad - Sun State Com 223H - OH - Plan #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-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
10,000.00	9,570.00	9,227.61	9,223.40	35.39	32.87	75.90	187.35	2,335.48	1,660.02	1,592.88	67.15	24.722	
10,100.00	9,570.00	9,200.00	9,197.57	35.54	32.80	74.90	197.12	2,335.40	1,713.66	1,646.55	67.12	25.533	
10,200.00	9,570.00	9,200.00	9,197.57	35.71	32.80	74.90	197.12	2,335.40	1,770.77	1,703.45	67.31	26.306	
10,300.00	9,570.00	9,200.00	9,197.57	35.91	32.80	74.90	197.12	2,335.40	1,831.55	1,764.04	67.51	27.130	
10,400.00	9,570.00	9,181.51	9,180.03	36.12	32.74	74.22	202.95	2,335.36	1,895.37	1,827.81	67.56	28.054	
10,500.00	9,570.00	9,172.76	9,171.66	36.34	32.72	73.90	205.52	2,335.34	1,962.14	1,894.45	67.69	28.988	
10,600.00	9,570.00	9,150.00	9,149.73	36.58	32.65	73.07	211.59	2,335.29	2,031.71	1,964.00	67.71	30.008	
10,700.00	9,570.00	9,150.00	9,149.73	36.84	32.65	73.07	211.59	2,335.29	2,103.31	2,035.42	67.89	30.982	
10,800.00	9,570.00	9,150.00	9,149.73	37.11	32.65	73.07	211.59	2,335.29	2,177.15	2,109.09	68.06	31.988	
10,900.00	9,570.00	9,150.00	9,149.73	37.39	32.65	73.07	211.59	2,335.29	2,253.01	2,184.79	68.23	33.023	
11,000.00	9,570.00	9,150.00	9,149.73	37.69	32.65	73.07	211.59	2,335.29	2,330.70	2,262.32	68.38	34.084	
11,100.00	9,570.00	9,150.00	9,149.73	38.00	32.65	73.07	211.59	2,335.29	2,410.03	2,341.50	68.53	35.169	
11,200.00	9,570.00	9,129.40	9,129.68	38.32	32.59	72.31	216.32	2,335.25	2,490.45	2,421.91	68.54	36.336	
11,300.00	9,570.00	9,124.96	9,125.34	38.66	32.57	72.14	217.25	2,335.24	2,572.43	2,503.78	68.65	37.472	
11,400.00	9,570.00	9,120.83	9,121.29	39.00	32.56	71.99	218.08	2,335.23	2,655.61	2,586.85	68.75	38.625	
11,500.00	9,570.00	9,100.00	9,100.81	39.36	32.50	71.23	221.83	2,335.20	2,740.15	2,671.39	68.76	39.853	
11,600.00	9,570.00	9,100.00	9,100.81	39.73	32.50	71.23	221.83	2,335.20	2,825.32	2,756.45	68.88	41.020	
11,700.00	9,570.00	9,100.00	9,100.81	40.11	32.50	71.23	221.83	2,335.20	2,911.44	2,842.45	68.99	42.201	
11,800.00	9,570.00	9,100.00	9,100.81	40.50	32.50	71.23	221.83	2,335.20	2,998.42	2,929.32	69.10	43.393	
11,900.00	9,570.00	9,100.00	9,100.81	40.90	32.50	71.23	221.83	2,335.20	3,086.18	3,016.98	69.20	44.597	
12,000.00	9,570.00	9,100.00	9,100.81	41.31	32.50	71.23	221.83	2,335.20	3,174.68	3,105.37	69.30	45.810	
12,100.00	9,570.00	9,100.00	9,100.81	41.74	32.50	71.23	221.83	2,335.20	3,263.83	3,194.44	69.40	47.032	

Total Directional

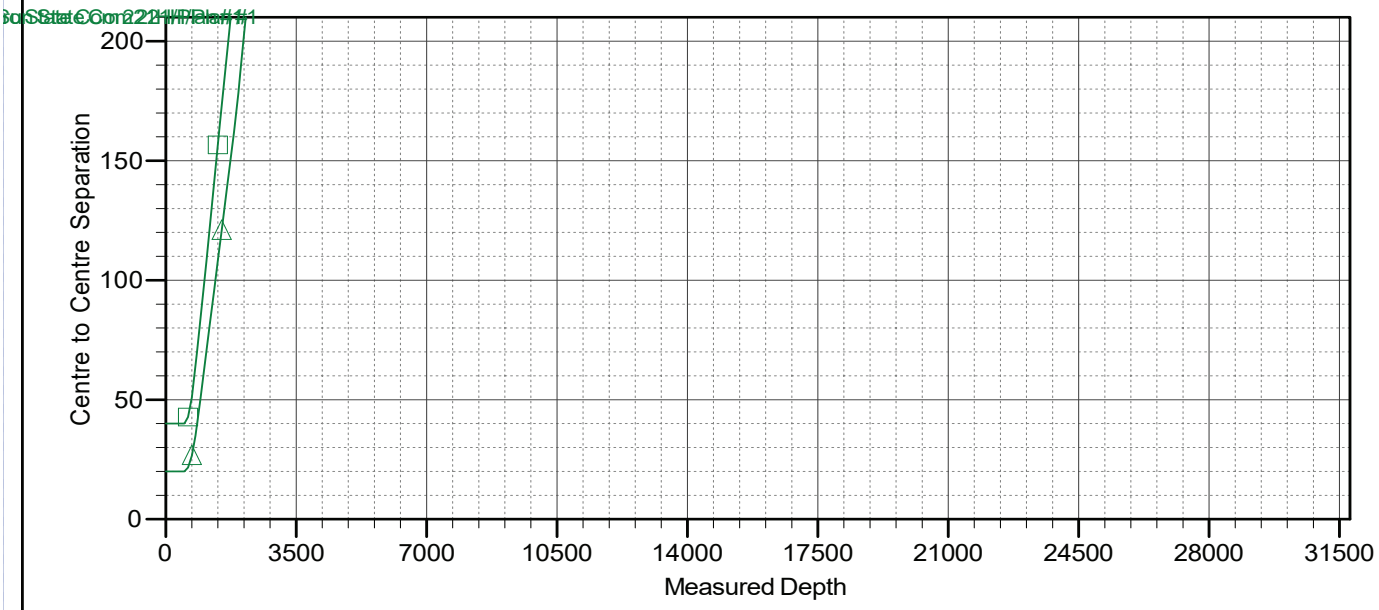
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3746.7' + KB 26.5' @ 3773.20usft (H
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Sombrero State Com 222H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

(O) State Brine #1 - P&A, OH, OH V0
Sun Federal Com 224H, OH, Plan #1 V0
Sombrero State Com 224H, OH, Plan #1 V0
(O) Rock Steady State #1, OH, OH V0
(O) Bryan 001, OH, OH V0
Sombrero State Com 223H, OH, Plan #1 V0
Sun State Com 221H, OH, Plan #1 V0
(O) Blue Box Federal Com 505H, OH, OH V0
Sombrero State Com 221H, OH, Plan #1 V0
(O) State-Lea I 1-36 - P&A, OH, OH V0
Sun State Com 223H, OH, Plan #1 V0

Total Directional

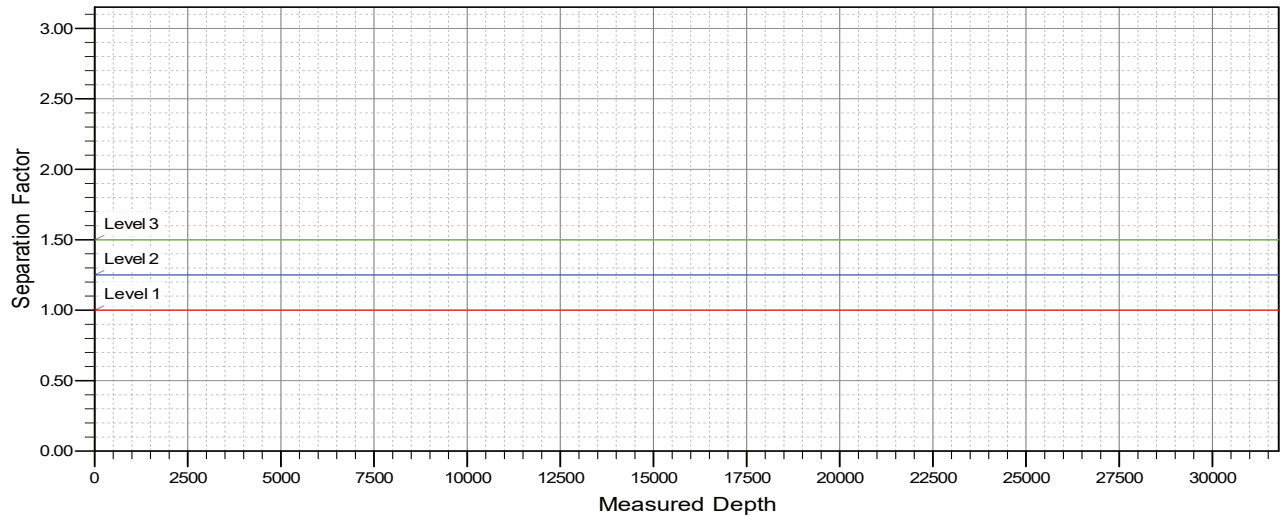
Anticollision Report

Company:	Coterra Energy	**Local Co-ordinate Reference:**	Well Sombrero State Com 222H
Project:	Lea County, NM (NAD 83)	**TVD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Reference Site:	Sun-Sombrero Pad	**MD Reference:**	GE 3746.7' + KB 26.5' @ 3773.20usft (H&P 448)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Sombrero State Com 222H	**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 #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to GE 3746.7' + KB 26.5' @ 3773.20usft (H
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: Sombrero State Com 222H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

- (O) State Brine #1 - P&A, OH, OH V0
- Sun Federal Com 224H, OH, Plan #1 V0
- Sombrero State Com 224H, OH, Plan #1 V0
- (O) Rock Steady State #1, OH, OH V0
- (O) Bryan 001, OH, OH V0
- Sombrero State Com 223H, OH, Plan #1 V0
- Sun State Com 221H, OH, Plan #1 V0
- (O) Blue Box Federal Com 505H, OH, OH V0
- Sombrero State Com 221H, OH, Plan #1 V0
- (O) State-Lea I 1-36 - P&A, OH, OH V0
- Sun State Com 223H, OH, Plan #1 V0

H2S Drilling Operations Plan

Training

All company and contract personnel admitted on location must be trained by a qualified H2S safety instructor to do the following:

1. Characteristics of H2S
2. Physical effects and hazards
3. Principle and operation of H2S detectors, warning system, and briefing areas
4. Evacuation procedure, routes and first aid
5. Proper use of safety equipment & life support systems
6. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

H2S Detection and Alarm Systems

1. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
2. An audio alarm system will be installed on the derrick floor and in the top doghouse

Windsock and/or wind streamers

1. Windsock at mudpit area should be high enough to be visible
2. Windsock on the rig floor and / or top of doghouse should be high enough to be visible

Condition Flags & Signs

1. Warning signs on access road to location
2. Flags are to be displayed on sign at the entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates

danger (H2S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

Well Control Equipment

1. See the pressure control section of this submission.

Communication

1. While working under masks, chalkboards will be used for communication
2. Hand signals will be used where chalk board is inappropriate.
3. Two way radio will be used to communicate off location in case emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

Drillstem Testing

1. No DSTs or cores are planned at this tmie
2. Drilling contractor supervisor will be required to be familiar with the effects that H2S has on tubular goods and other mechanical equipment.
3. If H2S is encountered, mud system will be altered if necessary to maintain control of the well. A mud gas separator will be brought into service along with H2S scavenger if necessary.

H2S Contingency Plan

Emergency Procedures

In the event of an H2S release, the first responder(s) must:

1. Isolate the area and prevent entry by other persons into the 100 PPM ROE.
2. Evacuate any public places encompassed by the 100 PPM ROE.
3. Be equipped with H2S monitors and air packs in order to control the release.
4. Use the buddy system
5. Take precautions to avoid personal injury during this operation
6. Contact operator and/or local officials to aid in operation. See list of emergency contacts attached.
7. Have received training the detection of H2S, measures for protection against the gas, and equipment used for protection and emergency response

Ignition of the Gas Source

1. Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Contacting Authorities

1. Coterra personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours.
2. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Coterra’s response must be in coordination with the State of New Mexico's" Hazardous Materials Emergency Response Plan" (HMER).

Emergency Contacts

Coterra Energy

Charlie Pritchard: Drilling Operations Manager: 432 – 238 – 7084

Darrell Kelly: Vice President EHS: 281 – 589 – 5795

Third Party

PERMIAN REGION CONTACT NUMBERS

CALL 911

Air Ambulance Services

Reeves County Medical - Pecos, TX	432-447-3551
Aero Care - Midland, TX	800-627-2376
Tri State Care Flight - Artesia, NM	800-800-0900
Air Methods - Hobbs, NM	800-242-6199

Fire / Police / Medical Care

Sheriff's Office		Fire Departments		Hospital / Medical Care Facilities	
Andrews County	432-523-5545	Andrews	432-523-3111	Permian Regional Med.	432-523-2200
Reagan County	325-884-2929	Big Lake	325-884-3650	Reagan Memorial Hosp.	325-884-2561
Howard County	432-264-2244	Big Springs	432-264-2303	Scenic Mountain Med Ctr	432-263-1211
Terry County	806-637-2212	Brownfield	806-637-6633		
Crane County	432-558-3571	Crane	432-558-2361	Crane Memorial Hosp.	432-558-3555
Val Verde County	830-774-7513	Del Rio	830-774-8648	Val Verde Regional Med.	830-775-8566
		Denver City	806-592-3516	Yoakum County Hospital	806-592-2121
Pecos County	432-336-3521	Ft. Stockton	432-336-8525		
Glasscock County	432-354-2361	Garden City			
Winkler County	432-586-3461	Kermit	432-586-2577	Winkler County Memorial	432-586-5864
		McCamey	432-652-8232	McCamey Hospital	432-652-8626
Loving County	432-377-2411	Mentone			
Irion County	325-835-2551	Mertzon			
Ward County	432-943-6703	Monahans	432-943-2211	Ward Memorial Hospital	432-943-2511
Ector County	432-335-3050	Odessa	432-335-4650	Odessa Regional Hosp.	432-582-8340
Crocket County	325-392-2661	Ozona	325-392-2626		
Reeves County	432-445-4901	Pecos	505-757-6511	Reeves County Hospital	432-447-3551
Yoakum County	806-456-2377	Plains	806-456-2288		
Garza County	806-495-3595	Post			
Upton County	432-693-2422	Rankin			
Coke County	915-453-2717	Robert Lee			
		Roscoe	325-766-3931		
Hockley County	806-894-3126	Levelland	806-894-3155	Covenant Health	806-894-4963
Tom Green County	325-655-8111	San Angelo	325-657-4355	San Angelo Comm. Med.	325-949-9511
Gaines County	432-758-9871	Seminole	432-758-3621	Memorial Hospital	432-758-5811
Terrell County	432-345-2525	Sanderson			
Scurry County	325-573-3551	Snyder	325-573-3546	DM Cogdell Memorial	325-573-6374
Sterling County	325-378-4771	Sterling City			
Nolan County	325-235-5471	Sweetwater	325-235-8130	Rolling Plains Memorial	325-235-1701
Culberson County	432-283-2060	Van Horn		Culberson Hospital	432-283-2760
New Mexico					
Lea County	505-396-3611	Knowles	505-392-7469	Lea Reg Med Ctr	575-492-5000
Eddy County	575-887-7551	Carlsbad	575-885-3125	Carlsbad Medical	575-887-4100
		Artesia	575-746-5050	Artesia Hospital	575-748-3333
Roosevelt County	575-356-4408				
Chaves County	575-624-7590				

Ground Ambulance Services

Reeves County Medical	Pecos, TX	432-447-3551

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: Coterra Energy Operating Co **OGRID:** 215099 **Date:** 02/10/2026

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Sun Federal Com 221H		NWNE Sec 13 T19S, R35E	320 FNL/1263 FWL	1233	740	4920

IV. Central Delivery Point Name: Chile/ Yeti CTB (New)_____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Sun Federal Com 221H		8/22/26	11/13/26	12/6/26	4/8/27	4/8/27

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Shelly Bowen
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	2/10/2026
Phone:	432/620-1644

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

XEC Standard Response

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

	SOMBRERO STATE COM 222H	SOMBRERO STATE COM 222H
Labels	GAS MCFD	OIL BOPD
1	357	596
2	715	1,191
3	635	1,058
4	550	917
5	487	811
6	448	728
7	428	661
8	413	606
9	401	559
10	392	520
11	386	486
12	381	456
13	378	430
14	377	407
15	376	386
16	369	367
17	355	350
18	343	335
19	332	321
20	322	309
21	312	297
22	304	286
23	296	276
24	288	267
25	282	258
26	275	250
27	269	242
28	264	235
29	259	228
30	254	222
31	250	216
32	245	210
33	241	205
34	238	200
35	234	195
36	231	191

Cimarex
VII. Operational Practices

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
    a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
5. Under routine production operations, Cimarex will not flare/vent unless:
    a. Venting or flaring occurs due to an emergency or equipment malfunction.
    b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
    c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
    d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
    e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
    f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
    g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
    h. Venting or flaring occurs as a result of normal dehydration unit operations.

i. Venting or flaring occurs as a result of bradenhead testing.
j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
k. Venting or flaring occurs as a result of a packer leakage test.
l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.

6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc…
9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
    a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
    b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
    a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

- **Workovers:**
  - Always strive to kill well when performing downhole maintenance.
  - If vapors or trapped pressure is present and must be relieved then:
    - Initial blowdown to production facility:
      - Route vapors to LP flare if possible/applicable
    - Blowdown to portable gas buster tank:
      - Vent to existing or portable flare if applicable.

- **Stock tank servicing:**
  - Minimize time spent with thief hatches open.
  - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
    - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
  - Isolate the vent lines and overflows on the tank being serviced from other tanks.

- **Pressure vessel/compressor servicing and associated blowdowns:**
  - Route to flare where possible.
  - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
  - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
  - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

- **Flare/combustor maintenance:**
  - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
  - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
  - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.