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

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

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-52661

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

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: Coriander 1 12 State Com

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

8. Well Number: 303H

2. Name of Operator: Cimarex Energy Co.

9. OGRID Number: 215099

3. Address of Operator: 6001 Deauville Blvd., Suite 300N, Midland, Texas 79706

10. Pool name or Wildcat: Red Tank; Bone Spring, Diamondtail; Bone Spring

4. Well Location
Unit Letter A : 211 feet from the N line and 671 feet from the E line
Section 1 Township 23S Range 32E NMPM

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

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

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

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

Cimarex Energy Co, proposes changes to:

Change Summary = casing design change from liner (13 3/8 x 9 5/8 x 7 x 4 ½) to long string (10 ¾ x 7 5/8 x 5 ½ x 5).

No other changes proposed.

Spud Date: 6/20/2025 Rig Release Date:

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

SIGNATURE Shelly Bowen TITLE Sr. Regulatory Analyst DATE

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

APPROVED
BY: TITLE DATE Conditions of Approval (if any):

1. Geological Formations

TVD of target 11,330
MD at TD 21,450

Pilot Hole TD N/A
Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1256	N/A	
Top of Salt	1790	N/A	
Base of Salt	4970	N/A	
Top Delaware Sands/Bell Canyon	5017	Hydrocarbons	
Cherry Canyon	6130	Hydrocarbons	
Brushy Canyon	7201	Hydrocarbons	
Basal Brushy Canyon	8532	N/A	
Bone Spring Lime	8825	N/A	
Leonard/Avalon Sand	8940	Hydrocarbons	
Avalon Shale	9360	Hydrocarbons	
1st Bone Spring Sand	9989	Hydrocarbons	
2nd Bone Spring Sand	10650	Hydrocarbons	
3rd Bone Spring Carbonate	11110	Hydrocarbons	
3rd Bone Spring Carb/Harkey - Target	11330	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
14 3/4	0	1306	1306	10-3/4"	40.50	J-55	BT&C	2.79	5.53	11.89
9 7/8	0	11506	11290	7-5/8"	29.70	L-80	LT&C	2.71	1.30	1.69
6 3/4	0	10705	10705	5-1/2"	23.00	L-80	LT&C	2.05	1.81	2.40
6 3/4	10705	21450	11330	5"	18.00	P-110	BT&C	2.33	2.36	51.56
					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 Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	N
Does casing meet API specifications? If no, attach casing specification sheet.	N
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).	N
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	N
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?	N

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	507	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	136	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	899	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	198	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Production	1385	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	49
Production	11306	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
9 7/8	**13 5/8**	**10M**	Annular	5M	100% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6 3/4	**13 5/8**	**10M**	Annular	5M	100% of working pressure
			Blind Ram		5M
			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 1306'	Brine Water	7.83 - 8.33	30-32	N/C
1306' to 11506'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
11506' to 21450'	OBM	9.30 - 9.80	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.

The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. The drilling fluid is completely salt saturated.

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	5773 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. After running the first string of casing, a 5M 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 (5K for all BOPE, including the annular). 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.

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 5K psi.

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

COTERRA Rev2

Borehole:	Well:	Field:	Structure:
Coriander 1-12 State Com 303H	Coriander 1-12 State Com 303H	NM Lea County (NAD 83)	Cimarex Coriander 1-12 State Com Lot 1 Pad

Gravity & Magnetic Parameters

Model:	HDGM 2025	Dip:	59.869°	Date:	15-Apr-2025
MagDec:	6.147°	FS:	47331.779nT	Gravity FS:	998.44mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

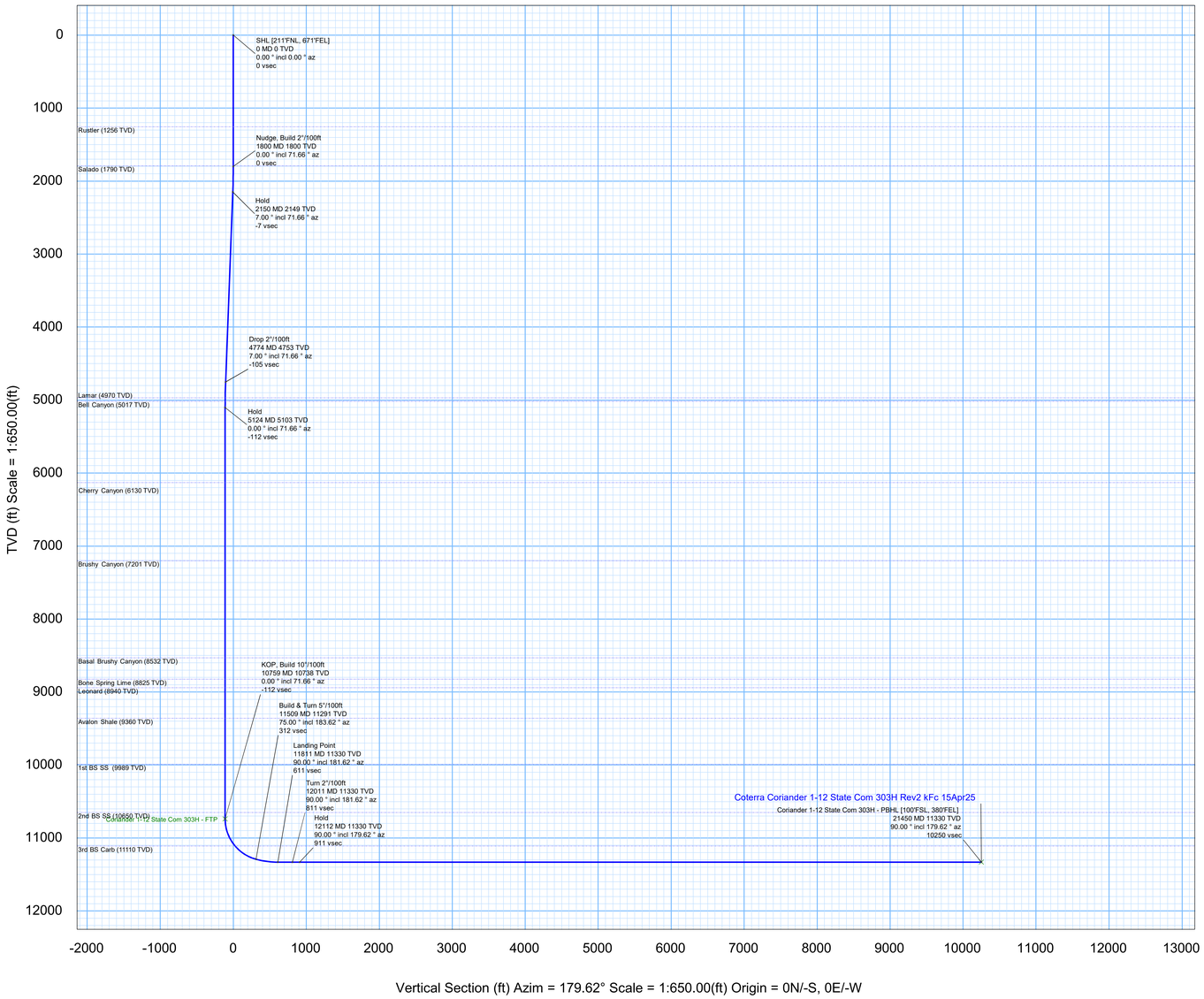
Lat:	N 32 20 25.75	Northing:	488330.06ftUS	Grid Conv:	0.3806°
Lon:	W 103 37 19.01	Easting:	761042.48ftUS	Scale Fact:	0.99996437

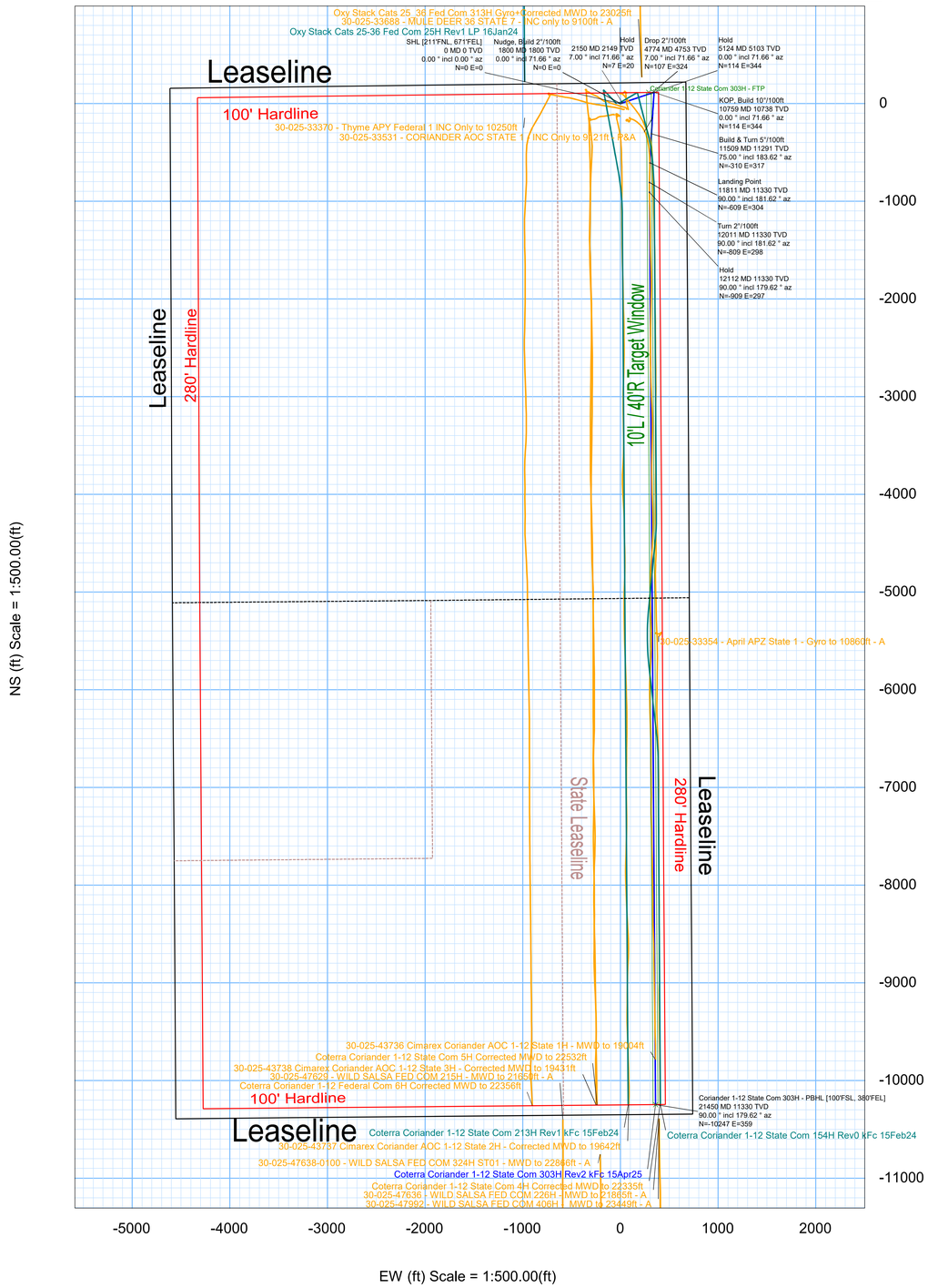
Miscellaneous

Slot:	Coriander 1-12 State Com 303H	TVD Ref:	RKB (3772.200 ft above MSL)
Plan:	Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25		

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [211'FNL, 671'FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	1256.00	0.00	71.66	1256.00	0.00	0.00	0.00	0.00
Salado	1790.00	0.00	71.66	1790.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	1800.00	0.00	71.66	1800.00	0.00	0.00	0.00	0.00
Hold	2149.93	7.00	71.66	2149.06	-6.58	6.72	20.26	2.00
Drop 2°/100ft	4773.88	7.00	71.66	4753.46	-105.15	107.30	323.74	0.00
Lamar	4991.24	2.65	71.66	4970.00	-110.78	113.05	341.09	2.00
Bell Canyon	5038.28	1.71	71.66	5017.00	-111.34	113.61	342.79	2.00
Hold	5123.81	0.00	71.66	5102.52	-111.73	114.01	344.00	2.00
Cherry Canyon	6151.29	0.00	71.66	6130.00	-111.73	114.01	344.00	0.00
Brushy Canyon	7222.29	0.00	71.66	7201.00	-111.73	114.01	344.00	0.00
Basal Brushy Canyon	8553.29	0.00	71.66	8532.00	-111.73	114.01	344.00	0.00
Bone Spring Lime	8846.29	0.00	71.66	8825.00	-111.73	114.01	344.00	0.00
Leonard	8961.29	0.00	71.66	8940.00	-111.73	114.01	344.00	0.00
Avalon Shale	9381.29	0.00	71.66	9360.00	-111.73	114.01	344.00	0.00
1st BS SS	10010.29	0.00	71.66	9989.00	-111.73	114.01	344.00	0.00
2nd BS SS	10671.29	0.00	71.66	10650.00	-111.73	114.01	344.00	0.00
KOP, Build 10°/100ft	10758.81	0.00	71.66	10737.52	-111.73	114.01	344.00	0.00
3rd BS Carb	11164.30	40.55	183.62	11110.00	25.53	-23.31	335.31	10.00
Build & Turn 5°/100ft	11508.81	75.00	183.62	11290.95	311.90	-309.80	317.19	10.00
Landing Point	11811.40	90.00	181.62	11330.34	610.63	-608.63	303.60	5.00
Turn 2°/100ft	12011.40	90.00	181.62	11330.34	810.51	-808.55	297.95	0.00
Hold	12111.59	90.00	179.62	11330.34	910.67	-908.72	296.87	2.00
Coriander 1-12 State Com 303H - PBHL [100'FSL, 380'FEL]	21450.47	90.00	179.62	11330.00	10249.55	-10247.40	359.40	0.00





Grid North
Tot Corr (M->G 5.766°)
Mag Dec (6.147°)
Grid Conv (0.381°)

D
E
C

CONTROLLED

Plan ref	Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25
Drawing ref	
Copy number	of 3
Date	15-Apr-2025

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for

Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25 Proposal Geodetic Report

Def Plan

Report Date:	April 15, 2025 - 04:39 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	179.620 °(GRID North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Coriander 1-12 State Com Lot 1 Pad / Coriander 1-12 State Com	**TVD Reference Datum:**	RKB
Well:	Coriander 1-12 State Com 303H	**TVD Reference Elevation:**	3772.200 ft above MSL
Borehole:	Coriander 1-12 State Com 303H	**Seabed / Ground Elevation:**	3749.200 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.147°
Survey Name:	Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25	**Total Gravity Field Strength:**	998.44mgn (9.80665 Based)
Survey Date:	April 15, 2025	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	106.130 ° / 10725.283 ft / 6.333 / 0.947	**Total Magnetic Field Strength:**	47331.779 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.869°
Location Lat / Long:	32°20'25.74566"N , 103°37'19.00821"W	**Declination Date:**	April 15, 2025
Location Grid N/E Y/X:	N 488330.060 ftUS , E 761042.480 ftUS	**Magnetic Declination Model:**	HDGM 2025
CRS Grid Convergence Angle:	0.381°	**North Reference:**	Grid North
Grid Scale Factor:	0.99996437(Applied)	**Grid Convergence Used:**	0.381°
Version / Patch:	2024.5.0.1	**Total Corr Mag North->Grid North:**	5.766°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [211'FNL, 671'FEL]	0.00	0.00	0.00	0.00	-3,772.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672			
	100.00	0.00	71.66	100.00	-3,672.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	200.00	0.00	71.66	200.00	-3,572.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	300.00	0.00	71.66	300.00	-3,472.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	400.00	0.00	71.66	400.00	-3,372.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	500.00	0.00	71.66	500.00	-3,272.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	600.00	0.00	71.66	600.00	-3,172.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	700.00	0.00	71.66	700.00	-3,072.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	800.00	0.00	71.66	800.00	-2,972.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	900.00	0.00	71.66	900.00	-2,872.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,000.00	0.00	71.66	1,000.00	-2,772.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,100.00	0.00	71.66	1,100.00	-2,672.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,200.00	0.00	71.66	1,200.00	-2,572.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
Rustler□	1,256.00	0.00	71.66	1,256.00	-2,516.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,300.00	0.00	71.66	1,300.00	-2,472.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,400.00	0.00	71.66	1,400.00	-2,372.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,500.00	0.00	71.66	1,500.00	-2,272.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,600.00	0.00	71.66	1,600.00	-2,172.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,700.00	0.00	71.66	1,700.00	-2,072.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
Salado□	1,790.00	0.00	71.66	1,790.00	-1,982.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
Nudge, Build 2°/100ft	1,800.00	0.00	71.66	1,800.00	-1,972.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,900.00	2.00	71.66	1,899.98	-1,872.22	-0.54	0.55	1.66	488,330.61	761,044.14	32.34048638	-103.62194135	2.00	2.00	0.00
	2,000.00	4.00	71.66	1,999.84	-1,772.36	-2.15	2.20	6.62	488,332.26	761,049.10	32.34049082	-103.62192523	2.00	2.00	0.00
	2,100.00	6.00	71.66	2,099.45	-1,672.75	-4.84	4.94	14.90	488,335.00	761,057.38	32.34049820	-103.62189839	2.00	2.00	0.00
Hold	2,149.93	7.00	71.66	2,149.06	-1,623.14	-6.58	6.72	20.26	488,336.77	761,062.74	32.34050299	-103.62188098	2.00	2.00	0.00
	2,200.00	7.00	71.66	2,198.76	-1,573.44	-8.46	8.63	26.05	488,338.69	761,068.53	32.34050816	-103.62186219	0.00	0.00	0.00
	2,300.00	7.00	71.66	2,298.01	-1,474.19	-12.22	12.47	37.62	488,342.53	761,080.10	32.34051849	-103.62182466	0.00	0.00	0.00
	2,400.00	7.00	71.66	2,397.27	-1,374.93	-15.97	16.30	49.18	488,346.36	761,091.66	32.34052881	-103.62178714	0.00	0.00	0.00
	2,500.00	7.00	71.66	2,496.52	-1,275.68	-19.73	20.13	60.75	488,350.19	761,103.23	32.34053914	-103.62174961	0.00	0.00	0.00
	2,600.00	7.00	71.66	2,595.78	-1,176.42	-23.49	23.97	72.31	488,354.03	761,114.79	32.34054946	-103.62171208	0.00	0.00	0.00
	2,700.00	7.00	71.66	2,695.03	-1,077.17	-27.24	27.80	83.88	488,357.86	761,126.36	32.34055979	-103.62167456	0.00	0.00	0.00
	2,800.00	7.00	71.66	2,794.29	-977.91	-31.00	31.63	95.45	488,361.69	761,137.92	32.34057011	-103.62163703	0.00	0.00	0.00
	2,900.00	7.00	71.66	2,893.54	-878.66	-34.76	35.47	107.01	488,365.53	761,149.49	32.34058044	-103.62159950	0.00	0.00	0.00
	3,000.00	7.00	71.66	2,992.80	-779.40	-38.51	39.30	118.58	488,369.36	761,161.05	32.34059076	-103.62156197	0.00	0.00	0.00
	3,100.00	7.00	71.66	3,092.05	-680.15	-42.27	43.13	130.14	488,373.19	761,172.62	32.34060109	-103.62152445	0.00	0.00	0.00
	3,200.00	7.00	71.66	3,191.31	-580.89	-46.03	46.97	141.71	488,377.03	761,184.18	32.34061141	-103.62148692	0.00	0.00	0.00
	3,300.00	7.00	71.66	3,290.56	-481.64	-49.78	50.80	153.27	488,380.86	761,195.75	32.34062173	-103.62144939	0.00	0.00	0.00
	3,400.00	7.00	71.66	3,389.82	-382.38	-53.54	54.63	164.84	488,384.69	761,207.31	32.34063206	-103.62141186	0.00	0.00	0.00
	3,500.00	7.00	71.66	3,489.07	-283.13	-57.30	58.47	176.41	488,388.53	761,218.88	32.34064238	-103.62137434	0.00	0.00	0.00
	3,600.00	7.00	71.66	3,588.33	-183.87	-61.05	62.30	187.97	488,392.36	761,230.44	32.34065271	-103.62133681	0.00	0.00	0.00
	3,700.00	7.00	71.66	3,687.58	-84.62	-64.81	66.13	199.54	488,396.19	761,242.01	32.34066303	-103.62129928	0.00	0.00	0.00
	3,800.00	7.00	71.66	3,786.84	14.64	-68.57	69.97	211.10	488,400.02	761,253.58	32.34067336	-103.62126176	0.00	0.00	0.00
	3,900.00	7.00	71.66	3,886.09	113.89	-72.32	73.80	222.67	488,403.86	761,265.14	32.34068368	-103.62122423	0.00	0.00	0.00
	4,000.00	7.00	71.66	3,985.35	213.15	-76.08	77.63	234.23	488,407.69	761,276.71	32.34069401	-103.62118670	0.00	0.00	0.00
	4,100.00	7.00	71.66	4,084.60	312.40	-79.84	81.47	245.80	488,411.52	761,288.27	32.34070433	-103.62114917	0.00	0.00	0.00
	4,200.00	7.00	71.66	4,183.86	411.66	-83.59	85.30	257.37	488,415.36	761,299.84	32.34071466	-103.62111165	0.00	0.00	0.00
	4,300.00	7.00	71.66	4,283.11	510.91	-87.35	89.13	268.93	488,419.19	761,311.40	32.34072498	-103.62107412	0.00	0.00	0.00
	4,400.00	7.00	71.66	4,382.37	610.17	-91.10	92.97	280.50	488,423.02	761,322.97	32.34073531	-103.62103659	0.00	0.00	0.00
	4,500.00	7.00	71.66	4,481.62	709.42	-94.86	96.80	292.06	488,426.86	761,334.53	32.34074563	-103.62099906	0.00	0.00	0.00
	4,600.00	7.00	71.66	4,580.88	808.68	-98.62	100.63	303.63	488,430.69	761,346.10	32.34075595	-103.62096154	0.00	0.00	0.00
	4,700.00	7.00	71.66	4,680.13	907.93	-102.37	104.47	315.19	488,434.52	761,357.66	32.34076628	-103.62092401	0.00	0.00	0.00
Drop 2°/100ft	4,773.88	7.00	71.66	4,753.46	981.26	-105.15	107.30	323.74	488,437.36	761,366.21	32.34077391	-103.62089628	0.00	0.00	0.00
	4,800.00	6.48	71.66	4,779.40	1,007.20	-106.09	108.26	326.65	488,438.32	761,369.12	32.34077650	-103.62088684	2.00	-2.00	0.00
	4,900.00	4.48	71.66	4,878.94	1,106.74	-109.04	111.27	335.71	488,441.32	761,378.17	32.34078459	-103.62085745	2.00	-2.00	0.00
Lamar□	4,991.24	2.65	71.66	4,970.00	1,197.80	-110.78	113.05	341.09	488,443.11	761,383.56	32.34078939	-103.62083999	2.00	-2.00	0.00
	5,000.00	2.48	71.66	4,978.75	1,206.55	-110.91	113.17	341.46	488,443.23	761,383.93	32.34078973	-103.62083878	2.00	-2.00	0.00
Bell Canyon□	5,038.28	1.71	71.66	5,017.00	1,244.80	-111.34	113.61	342.79	488,443.67	761,385.26	32.34079091	-103.62083447	2.00	-2.00	0.00
	5,100.00	0.48	71.66	5,078.71	1,306.51	-111.70	113.98	343.91	488,444.04	761,386.37	32.34079191	-103.62083085	2.00	-2.00	0.00
Hold	5,123.81	0.00	71.66	5,102.52	1,330.32	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	2.00	-2.00	0.00
	5,200.00	0.00	71.66	5,178.71	1,406.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,300.00	0.00	71.66	5,278.71	1,506.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,400.00	0.00	71.66	5,378.71	1,606.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,500.00	0.00	71.66	5,478.71	1,706.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,600.00	0.00	71.66	5,578.71	1,806.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,700.00	0.00	71.66	5,678.71	1,906.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,800.00	0.00	71.66	5,778.71	2,006.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	5,900.00	0.00	71.66	5,878.71	2,106.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,000.00	0.00	71.66	5,978.71	2,206.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,100.00	0.00	71.66	6,078.71	2,306.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Cherry Canyon□	6,151.29	0.00	71.66	6,130.00	2,357.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,200.00	0.00	71.66	6,178.71	2,406.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,300.00	0.00	71.66	6,278.71	2,506.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,400.00	0.00	71.66	6,378.71	2,606.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,500.00	0.00	71.66	6,478.71	2,706.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,600.00	0.00	71.66	6,578.71	2,806.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,700.00	0.00	71.66	6,678.71	2,906.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,800.00	0.00	71.66	6,778.71	3,006.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	6,900.00	0.00	71.66	6,878.71	3,106.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,000.00	0.00	71.66	6,978.71	3,206.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,100.00	0.00	71.66	7,078.71	3,306.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,200.00	0.00	71.66	7,178.71	3,406.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Brushy Canyon□	7,222.29	0.00	71.66	7,201.00	3,428.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,300.00	0.00	71.66	7,278.71	3,506.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,400.00	0.00	71.66	7,378.71	3,606.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,500.00	0.00	71.66	7,478.71	3,706.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,600.00	0.00	71.66	7,578.71	3,806.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,700.00	0.00	71.66	7,678.71	3,906.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,800.00	0.00	71.66	7,778.71	4,006.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	7,900.00	0.00	71.66	7,878.71	4,106.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,000.00	0.00	71.66	7,978.71	4,206.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,100.00	0.00	71.66	8,078.71	4,306.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,200.00	0.00	71.66	8,178.71	4,406.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,300.00	0.00	71.66	8,278.71	4,506.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,400.00	0.00	71.66	8,378.71	4,606.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,500.00	0.00	71.66	8,478.71	4,706.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Basal Brushy Canyon□	8,553.29	0.00	71.66	8,532.00	4,759.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,600.00	0.00	71.66	8,578.71	4,806.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,700.00	0.00	71.66	8,678.71	4,906.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,800.00	0.00	71.66	8,778.71	5,006.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Bone Spring Lime□	8,846.29	0.00	71.66	8,825.00	5,052.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	8,900.00	0.00	71.66	8,878.71	5,106.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Leonard□	8,961.29	0.00	71.66	8,940.00	5,167.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,000.00	0.00	71.66	8,978.71	5,206.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	9,100.00	0.00	71.66	9,078.71	5,306.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,200.00	0.00	71.66	9,178.71	5,406.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,300.00	0.00	71.66	9,278.71	5,506.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Avalon Shale□	9,381.29	0.00	71.66	9,360.00	5,587.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,400.00	0.00	71.66	9,378.71	5,606.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,500.00	0.00	71.66	9,478.71	5,706.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,600.00	0.00	71.66	9,578.71	5,806.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,700.00	0.00	71.66	9,678.71	5,906.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,800.00	0.00	71.66	9,778.71	6,006.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	9,900.00	0.00	71.66	9,878.71	6,106.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,000.00	0.00	71.66	9,978.71	6,206.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
1st BS SS □	10,010.29	0.00	71.66	9,989.00	6,216.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,100.00	0.00	71.66	10,078.71	6,306.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,200.00	0.00	71.66	10,178.71	6,406.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,300.00	0.00	71.66	10,278.71	6,506.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,400.00	0.00	71.66	10,378.71	6,606.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,500.00	0.00	71.66	10,478.71	6,706.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,600.00	0.00	71.66	10,578.71	6,806.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
2nd BS SS□	10,671.29	0.00	71.66	10,650.00	6,877.80	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,700.00	0.00	71.66	10,678.71	6,906.51	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
KOP, Build 10°/100ft	10,758.81	0.00	71.66	10,737.52	6,965.32	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
	10,800.00	4.12	183.62	10,778.68	7,006.48	-110.25	112.54	343.91	488,442.59	761,386.37	32.34078794	-103.62083088	10.00	10.00	0.00
	10,900.00	14.12	183.62	10,877.29	7,105.09	-94.46	96.74	342.91	488,426.80	761,385.37	32.34074454	-103.62083445	10.00	10.00	0.00
	11,000.00	24.12	183.62	10,971.65	7,199.45	-61.83	64.09	340.84	488,394.15	761,383.31	32.34065484	-103.62084184	10.00	10.00	0.00
	11,100.00	34.12	183.62	11,058.90	7,286.70	-13.35	15.59	337.77	488,345.65	761,380.24	32.34052158	-103.62085282	10.00	10.00	0.00
3rd BS Carb□	11,164.30	40.55	183.62	11,110.00	7,337.80	25.53	-23.31	335.31	488,306.75	761,377.78	32.34041472	-103.62086163	10.00	10.00	0.00
	11,200.00	44.12	183.62	11,136.39	7,364.19	49.51	-47.30	333.79	488,282.76	761,376.26	32.34034881	-103.62086706	10.00	10.00	0.00
	11,300.00	54.12	183.62	11,201.75	7,429.55	124.84	-122.66	329.03	488,207.41	761,371.49	32.34014176	-103.62088411	10.00	10.00	0.00
	11,400.00	64.12	183.62	11,253.01	7,480.81	210.34	-208.20	323.61	488,121.87	761,366.08	32.33990674	-103.62090348	10.00	10.00	0.00
	11,500.00	74.12	183.62	11,288.61	7,516.41	303.43	-301.33	317.72	488,028.74	761,360.19	32.33965089	-103.62092456	10.00	10.00	0.00
Build & Turn 5°/100ft	11,508.81	75.00	183.62	11,290.95	7,518.75	311.90	-309.80	317.19	488,020.27	761,359.66	32.33962760	-103.62092648	10.00	10.00	0.00
	11,600.00	79.52	183.00	11,311.06	7,538.86	400.64	-398.58	312.06	487,931.50	761,354.52	32.33938370	-103.62094500	5.00	4.96	-0.68
	11,700.00	84.48	182.34	11,324.98	7,552.78	499.49	-497.47	307.45	487,832.61	761,349.92	32.33911199	-103.62096205	5.00	4.96	-0.66
	11,800.00	89.43	181.69	11,330.29	7,558.09	599.23	-597.23	303.93	487,732.85	761,346.40	32.33883784	-103.62097558	5.00	4.96	-0.65
Landing Point	11,811.40	90.00	181.62	11,330.34	7,558.14	610.63	-608.63	303.60	487,721.45	761,346.07	32.33880652	-103.62097689	5.00	4.96	-0.65
	11,900.00	90.00	181.62	11,330.34	7,558.14	699.17	-697.19	301.10	487,632.90	761,343.57	32.33856315	-103.62098690	0.00	0.00	0.00
	12,000.00	90.00	181.62	11,330.34	7,558.14	799.11	-797.15	298.27	487,532.94	761,340.74	32.33828846	-103.62099821	0.00	0.00	0.00
Turn 2°/100ft	12,011.40	90.00	181.62	11,330.34	7,558.14	810.51	-808.55	297.95	487,521.54	761,340.42	32.33825713	-103.62099950	0.00	0.00	0.00
	12,100.00	90.00	179.85	11,330.34	7,558.14	899.08	-897.13	296.81	487,432.96	761,339.28	32.33801367	-103.62100508	2.00	0.00	-2.00
Hold	12,111.59	90.00	179.62	11,330.34	7,558.14	910.67	-908.72	296.87	487,421.37	761,339.34	32.33798182	-103.62100516	2.00	0.00	-2.00
	12,200.00	90.00	179.62	11,330.34	7,558.14	999.08	-997.13	297.46	487,332.96	761,339.93	32.33773881	-103.62100514	0.00	0.00	0.00
	12,300.00	90.00	179.62	11,330.33	7,558.13	1,099.08	-1,097.13	298.13	487,232.97	761,340.60	32.33746395	-103.62100513	0.00	0.00	0.00
	12,400.00	90.00	179.62	11,330.33	7,558.13	1,199.08	-1,197.13	298.80	487,132.98	761,341.27	32.33718909	-103.62100511	0.00	0.00	0.00
	12,500.00	90.00	179.62	11,330.33	7,558.13	1,299.08	-1,297.13	299.47	487,032.98	761,341.94	32.33691423	-103.62100510	0.00	0.00	0.00
	12,600.00	90.00	179.62	11,330.32	7,558.12	1,399.08	-1,397.12	300.14	486,932.99	761,342.61	32.33663937	-103.62100508	0.00	0.00	0.00
	12,700.00	90.00	179.62	11,330.32	7,558.12	1,499.08	-1,497.12	300.81	486,832.99	761,343.28	32.33636451	-103.62100507	0.00	0.00	0.00
	12,800.00	90.00	179.62	11,330.32	7,558.12	1,599.08	-1,597.12	301.48	486,733.00	761,343.95	32.33608965	-103.62100505	0.00	0.00	0.00
	12,900.00	90.00	179.62	11,330.31	7,558.11	1,699.08	-1,697.12	302.15	486,633.01	761,344.62	32.33581479	-103.62100504	0.00	0.00	0.00
	13,000.00	90.00	179.62	11,330.31	7,558.11	1,799.08	-1,797.11	302.82	486,533.01	761,345.29	32.33553993	-103.62100502	0.00	0.00	0.00
	13,100.00	90.00	179.62	11,330.30	7,558.10	1,899.08	-1,897.11	303.49	486,433.02	761,345.96	32.33526507	-103.62100501	0.00	0.00	0.00
	13,200.00	90.00	179.62	11,330.30	7,558.10	1,999.08	-1,997.11	304.16	486,333.02	761,346.63	32.33499021	-103.62100499	0.00	0.00	0.00
	13,300.00	90.00	179.62	11,330.30	7,558.10	2,099.08	-2,097.11	304.83	486,233.03	761,347.30	32.33471535	-103.62100498	0.00	0.00	0.00
	13,400.00	90.00	179.62	11,330.29	7,558.09	2,199.08	-2,197.11	305.50	486,133.04	761,347.96	32.33444049	-103.62100496	0.00	0.00	0.00
	13,500.00	90.00	179.62	11,330.29	7,558.09	2,299.08	-2,297.10	306.17	486,033.04	761,348.63	32.33416563	-103.62100495	0.00	0.00	0.00
	13,600.00	90.00	179.62	11,330.29	7,558.09	2,399.08	-2,397.10	306.84	485,933.05	761,349.30	32.33389077	-103.62100493	0.00	0.00	0.00
	13,700.00	90.00	179.62	11,330.28	7,558.08	2,499.08	-2,497.10	307.50	485,833.05	761,349.97	32.33361591	-103.62100492	0.00	0.00	0.00
	13,800.00	90.00	179.62	11,330.28	7,558.08	2,599.08	-2,597.10	308.17	485,733.06	761,350.64	32.33334105	-103.62100490	0.00	0.00	0.00
	13,900.00	90.00	179.62	11,330.28	7,558.08	2,699.08	-2,697.09	308.84	485,633.07	761,351.31	32.33306619	-103.62100489	0.00	0.00	0.00
	14,000.00	90.00	179.62	11,330.27	7,558.07	2,799.08	-2,797.09	309.51	485,533.07	761,351.98	32.33279133	-103.62100487	0.00	0.00	0.00
	14,100.00	90.00	179.62	11,330.27	7,558.07	2,899.08	-2,897.09	310.18	485,433.08	761,352.65	32.33251647	-103.62100486	0.00	0.00	0.00
	14,200.00	90.00	179.62	11,330.26	7,558.06	2,999.08	-2,997.09	310.85	485,333.08	761,353.32	32.33224161	-103.62100484	0.00	0.00	0.00
	14,300.00	90.00	179.62	11,330.26	7,558.06	3,099.08	-3,097.09	311.52	485,233.09	761,353.99	32.33196675	-103.62100483	0.00	0.00	0.00
	14,400.00	90.00	179.62	11,330.26	7,558.06	3,199.08	-3,197.08	312.19	485,133.10	761,354.66	32.33169189	-103.62100481	0.00	0.00	0.00
	14,500.00	90.00	179.62	11,330.25	7,558.05	3,299.08	-3,297.08	312.86	485,033.10	761,355.33	32.33141703	-103.62100480	0.00	0.00	0.00
	14,600.00	90.00	179.62	11,330.25	7,558.05	3,399.08	-3,397.08	313.53	484,933.11	761,356.00	32.33114216	-103.62100478	0.00	0.00	0.00
	14,700.00	90.00	179.62	11,330.25	7,558.05	3,499.08	-3,497.08	314.20	484,833.11	761,356.67	32.33086730	-103.62100477	0.00	0.00	0.00
	14,800.00	90.00	179.62	11,330.24	7,558.04	3,599.08	-3,597.07	314.87	484,733.12	761,357.34	32.33059244	-103.62100475	0.00	0.00	0.00
	14,900.00	90.00	179.62	11,330.24	7,558.04	3,699.08	-3,697.07	315.54	484,633.13	761,358.01	32.33031758	-103.62100474	0.00	0.00	0.00
	15,000.00	90.00	179.62	11,330.24	7,558.04	3,799.08	-3,797.07	316.21	484,533.13	761,358.68	32.33004272	-103.62100472	0.00	0.00	0.00
	15,100.00	90.00	179.62	11,330.23	7,558.03	3,899.08	-3,897.07	316.88	484,433.14	761,359.35	32.32976786	-103.62100471	0.00	0.00	0.00
	15,200.00	90.00	179.62	11,330.23	7,558.03	3,999.08	-3,997.07	317.55	484,333.14	761,360.02	32.32949300	-103.62100469	0.00	0.00	0.00
	15,300.00	90.00	179.62	11,330.22	7,558.02	4,099.08	-4,097.06	318.22	484,233.15	761,360.69	32.32921814	-103.62100468	0.00	0.00	0.00
	15,400.00	90.00	179.62	11,330.22	7,558.02	4,199.08	-4,197.06	318.89	484,133.16	761,361.36	32.32894328	-103.62100466	0.00	0.00	0.00
	15,500.00	90.00	179.62	11,330.22	7,558.02	4,299.08	-4,297.06	319.56	484,033.16	761,362.03	32.32866842	-103.62100464	0.00	0.00	0.00
	15,600.00	90.00	179.62	11,330.21	7,558.01	4,399.08	-4,397.06	320.23	483,933.17	761,362.70	32.32839356	-103.62100463	0.00	0.00	0.00
	15,700.00	90.00	179.62	11,330.21	7,558.01	4,499.08	-4,497.05	320.90	483,833.18	761,363.37	32.32811870	-103.62100461	0.00	0.00	0.00
	15,800.00	90.00	179.62	11,330.21	7,558.01	4,599.08	-4,597.05	321.57	483,733.18	761,364.03	32.32784384	-103.62100460	0.00	0.00	0.00
	15,900.00	90.00	179.62	11,330.20	7,558.00	4,699.08	-4,697.05	322.24	483,633.19	761,364.70	32.32756898	-103.62100458	0.00	0.00	0.00
	16,000.00	90.00	179.62	11,330.20	7,558.00	4,799.08	-4,797.05	322.91	483,533.19	761,365.37	32.32729412	-103.62100457	0.00	0.00	0.00
	16,100.00	90.00	179.62	11,330.20	7,558.00	4,899.08	-4,897.05	323.58	483,433.20	761,366.04	32.32701926	-103.62100455	0.00	0.00	0.00
	16,200.00	90.00	179.62	11,330.19	7,557.99	4,999.08	-4,997.04	324.25	483,333.21	761,366.71	32.32674440	-103.62100454	0.00	0.00	0.00
	16,300.00	90.00	179.62	11,330.19	7,557.99	5,099.08	-5,097.04	324.92	483,233.21	761,367.38	32.32646954	-103.62100452	0.00	0.00	0.00
	16,400.00	90.00	179.62	11,330.18	7,557.98	5,199.08	-5,197.04	325.58	483,133.22	761,368.05	32.32619468	-103.62100451	0.00	0.00	0.00
	16,500.00	90.00	179.62	11,330.18	7,557.98	5,299.08	-5,297.04	326.25	483,033.22	761,368.72	32.32591981	-103.62100449	0.00	0.00	0.00
	16,600.00	90.00	179.62	11,330.18	7,557.98	5,399.08	-5,397.03	326.92	482,933.23	761,369.39	32.32564495	-103.62100447	0.00	0.00	0.00
	16,700.00	90.00	179.62	11,330.17	7,557.97	5,499.08	-5,497.03	327.59	482,833.24	761,370.06	32.32537009	-103.62100446	0.00	0.00	0.00
	16,800.00	90.00	179.62	11,330.17	7,557.97	5,599.08	-5,597.03	328.26	482,733.24	761,370.73	32.32509523	-103.62100444	0.00	0.00	0.00
	16,900.00	90.00	179.62	11,330.17	7,557.97	5,699.08	-5,697.03	328.93	482,633.25	761,371.40	32.32482037	-103.62100443	0.00	0.00	0.00
	17,000.00	90.00	179.62	11,330.16	7,557.96	5,799.08	-5,797.03	329.60	482,533.25	761,372.07	32.32454551	-103.62100441	0.00	0.00	0.00
	17,100.00	90.00	179.62	11,330.16	7,557.96	5,899.08	-5,897.02	330.27	482,433.26	761,372.74	32.32427065	-103.62100440	0.00	0.00	0.00
	17,200.00	90.00	179.62	11,330.16	7,557.96	5,999.08	-5,997.02	330.94	482,333.27	761,373.41	32.32399579	-103.62100438	0.00	0.00	0.00
	17,300.00	90.00	179.62	11,330.15	7,557.95	6,099.08	-6,097.02	331.61	482,233.27	761,374.08	32.32372093	-103.62100437	0.00	0.00	0.00
	17,400.00	90.00	179.62	11,330.15	7,557.95	6,199.08	-6,197.02	332.28	482,133.28	761,374.75	32.32344607	-103.62100435	0.00	0.00	0.00
	17,500.00	90.00	179.62	11,330.14	7,557.94	6,299.08	-6,297.01	332.95	482,033.28	761,375.42	32.32317121	-103.62100433	0.00	0.00	0.00
	17,600.00	90.00	179.62	11,330.14	7,557.94	6,399.08	-6,397.01	333.62	481,933.29	761,376.09	32.32289635	-103.62100432	0.00	0.00	0.00
	17,700.00	90.00	179.62	11,330.14	7,557.94	6,499.08	-6,497.01	334.29	481,833.30	761,376.76	32.32262149	-103.62100430	0.00	0.00	0.00
	17,800.00	90.00	179.62	11,330.13	7,557.93	6,599.08	-6,597.01	334.96	481,733.30	761,377.43	32.32234662	-103.62100429	0.00	0.00	0.00
	17,900.00	90.00	179.62	11,330.13	7,557.93	6,699.08	-6,697.00	335.63	481,633.31	761,378.10	32.32207176	-103.62100427	0.00	0.00	0.00
	18,000.00	90.00	179.62	11,330.13	7,557.93	6,799.08	-6,797.00	336.30	481,533.31	761,378.77	32.32179690	-103.62100426	0.00	0.00	0.00
	18,100.00	90.00	179.62	11,330.12	7,557.92	6,899.08	-6,897.00	336.97	481,433.32	761,379.44	32.32152204	-103.62100424	0.00	0.00	0.00
	18,200.00	90.00	179.62	11,330.12	7,557.92	6,999.08	-6,997.00	337.64	481,333.33	761,380.11	32.32124718	-103.62100422	0.00	0.00	0.00
	18,300.00	90.00	179.62	11,330.11	7,557.91	7,099.08	-7,097.00	338.31	481,233.33	761,380.77	32.32097232	-103.62100421	0.00	0.00	0.00
	18,400.00	90.00	179.62	11,330.11	7,557.91	7,199.08	-7,196.99	338.98	481,133.34	761,381.44	32.32069746	-103.62100419	0.00	0.00	0.00
	18,500.00	90.00	179.62	11,330.11	7,557.91	7,299.08	-7,296.99	339.65	481,033.34	761,382.11	32.32042260	-103.62100418	0.00	0.00	0.00
	18,600.00	90.00	179.62	11,330.10	7,557.90	7,399.08	-7,396.99	340.32	480,933.35	761,382.78	32.32014774	-103.62100416	0.00	0.00	0.00
	18,700.00	90.00	179.62	11,330.10	7,557.90	7,499.08	-7,496.99	340.99	480,833.36	761,383.45	32.31987288	-103.62100415	0.00	0.00	0.00
	18,800.00	90.00	179.62	11,330.10	7,557.90	7,599.08	-7,596.98	341.66	480,733.36	761,384.12	32.31959802	-103.62100413	0.00	0.00	0.00
	18,900.00	90.00	179.62	11,330.09	7,557.89	7,699.08	-7,696.98	342.33	480,633.37	761,384.79	32.31932315	-103.62100411	0.00	0.00	0.00
	19,000.00	90.00	179.62	11,330.09	7,557.89	7,799.08	-7,796.98	342.99	480,533.37	761,385.46	32.31904829	-103.62100410	0.00	0.00	0.00
	19,100.00	90.00	179.62	11,330.09	7,557.89	7,899.08	-7,896.98	343.66	480,433.38	761,386.13	32.31877343	-103.62100408	0.00	0.00	0.00
	19,200.00	90.00	179.62	11,330.08	7,557.88	7,999.08	-7,996.98	344.33	480,333.39	761,386.80	32.31849857	-103.62100407	0.00	0.00	0.00
	19,300.00	90.00	179.62	11,330.08	7,557.88	8,099.08	-8,096.97	345.00	480,233.39	761,387.47	32.31822371	-103.62100405	0.00	0.00	0.00
	19,400.00	90.00	179.62	11,330.07	7,557.87	8,199.08	-8,196.97	345.67	480,133.40	761,388.14	32.31794885	-103.62100403	0.00	0.00	0.00
	19,500.00	90.00	179.62	11,330.07	7,557.87	8,299.08	-8,296.97	346.34	480,033.40	761,388.81	32.31767399	-103.62100402	0.00	0.00	0.00
	19,600.00	90.00	179.62	11,330.07	7,557.87	8,399.08	-8,396.97	347.01	479,933.41	761,389.48	32.31739913	-103.62100400	0.00	0.00	0.00
	19,700.00	90.00	179.62	11,330.06	7,557.86	8,499.08	-8,496.96	347.68	479,833.42	761,390.15	32.31712427	-103.62100399	0.00	0.00	0.00
	19,800.00	90.00	179.62	11,330.06	7,557.86	8,599.08	-8,596.96	348.35	479,733.42	761,390.82	32.31684941	-103.62100397	0.00	0.00	0.00
	19,900.00	90.00	179.62	11,330.06	7,557.86	8,699.08	-8,696.96	349.02	479,633.43	761,391.49	32.31657454	-103.62100395	0.00	0.00	0.00
	20,000.00	90.00	179.62	11,330.05	7,557.85	8,799.08	-8,796.96	349.69	479,533.43	761,392.16	32.31629968	-103.62100394	0.00	0.00	0.00
	20,100.00	90.00	179.62	11,330.05	7,557.85	8,899.08	-8,896.96	350.36	479,433.44	761,392.83	32.31602482	-103.62100392	0.00	0.00	0.00
	20,200.00	90.00	179.62	11,330.05	7,557.85	8,999.08	-8,996.95	351.03	479,333.45	761,393.50	32.31574996	-103.62100391	0.00	0.00	0.00
	20,300.00	90.00	179.62	11,330.04	7,557.84	9,099.08	-9,096.95	351.70	479,233.45	761,394.17	32.31547510	-103.62100389	0.00	0.00	0.00
	20,400.00	90.00	179.62	11,330.04	7,557.84	9,199.08	-9,196.95	352.37	479,133.46	761,394.84	32.31520024	-103.62100387	0.00	0.00	0.00
	20,500.00	90.00	179.62	11,330.03	7,557.83	9,299.08	-9,296.95	353.04	479,033.46	761,395.51	32.31492538	-103.62100386	0.00	0.00	0.00
	20,600.00	90.00	179.62	11,330.03	7,557.83	9,399.08	-9,396.94	353.71	478,933.47	761,396.18	32.31465052	-103.62100384	0.00	0.00	0.00
	20,700.00	90.00	179.62	11,330.03	7,557.83	9,499.08	-9,496.94	354.38	478,833.48	761,396.84	32.31437566	-103.62100382	0.00	0.00	0.00
	20,800.00	90.00	179.62	11,330.02	7,557.82	9,599.08	-9,596.94	355.05	478,733.48	761,397.51	32.31410079	-103.62100381	0.00	0.00	0.00
	20,900.00	90.00	179.62	11,330.02	7,557.82	9,699.08	-9,696.94	355.72	478,633.49	761,398.18	32.31382593	-103.62100379	0.00	0.00	0.00
	21,000.00	90.00	179.62	11,330.02	7,557.82	9,799.08	-9,796.94	356.39	478,533.49	761,398.85	32.31355107	-103.62100378	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
	21,100.00	90.00	179.62	11,330.01	7,557.81	9,899.08	-9,896.93	357.06	478,433.50	761,399.52	32.31327621	-103.62100376	0.00	0.00	0.00
	21,200.00	90.00	179.62	11,330.01	7,557.81	9,999.08	-9,996.93	357.73	478,333.51	761,400.19	32.31300135	-103.62100374	0.00	0.00	0.00
	21,300.00	90.00	179.62	11,330.01	7,557.81	10,099.08	-10,096.93	358.40	478,233.51	761,400.86	32.31272649	-103.62100373	0.00	0.00	0.00
	21,400.00	90.00	179.62	11,330.00	7,557.80	10,199.08	-10,196.93	359.07	478,133.52	761,401.53	32.31245163	-103.62100371	0.00	0.00	0.00
Coriander 1-12 State Com 303H	21,450.47	90.00	179.62	11,330.00	7,557.80	10,249.55	-10,247.40	359.40	478,083.05	761,401.87	32.31231290	-103.62100370	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	10,750.000	1/100.000	′.5 – 12.25 – 8.75	3.375 – 9.625 – 7		A001Mb_MWD		Coriander 1-12 State Com 303H / Coterra Coriande
	1	10,750.000	21,446.305	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Coriander 1-12 State Com 303H / Coterra Coriande

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,325.600	17.500	13.375	
4,986.600	12.250	9.625	
11,369.600	8.750	7.000	
21,450.470	6.000	4.500	

Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25 Proposal Geodetic Report

Def Plan

Report Date:	April 15, 2025 - 04:41 PM (UTC 0)	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	COTERRA	**Vertical Section Azimuth:**	179.620 °(GRID North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Coriander 1-12 State Com Lot 1 Pad / Coriander 1-12 State	**TVD Reference Datum:**	RKB
Well:	Coriander 1-12 State Com 303H	**TVD Reference Elevation:**	3772.200 ft above MSL
Borehole:	Coriander 1-12 State Com 303H	**Seabed / Ground Elevation:**	3749.200 ft above MSL
UBHI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.147°
Survey Name:	Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25	**Total Gravity Field Strength:**	998.44mgn (9.80665 Based)
Survey Date:	April 15, 2025	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	106.130 ° / 10725.283 ft / 6.333 / 0.947	**Total Magnetic Field Strength:**	47331.779 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	59.869°
Location Lat / Long:	32°20'25.74566"N , 103°37'19.00821"W	**Declination Date:**	April 15, 2025
Location Grid N/E Y/X:	N 488330.060 ftUS , E 761042.480 ftUS	**Magnetic Declination Model:**	HDGM 2025
CRS Grid Convergence Angle:	0.381°	**North Reference:**	Grid North
Grid Scale Factor:	0.99996437(Applied)	**Grid Convergence Used:**	0.381°
Version / Patch:	2024.5.0.1	**Total Corr Mag North->Grid North:**	5.766°
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [211'FNL, 671'FEL]	0.00	0.00	0.00	0.00	-3,772.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672			
Nudge, Build 2°/100ft	1,800.00	0.00	71.66	1,800.00	-1,972.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
Hold	2,149.93	7.00	71.66	2,149.06	-1,623.14	-6.58	6.72	20.26	488,336.77	761,062.74	32.34050299	-103.62188098	2.00	2.00	0.00
Drop 2°/100ft	4,773.88	7.00	71.66	4,753.46	981.26	-105.15	107.30	323.74	488,437.36	761,366.21	32.34077391	-103.62089628	0.00	0.00	0.00
Hold	5,123.81	0.00	71.66	5,102.52	1,330.32	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	2.00	-2.00	0.00
KOP, Build 10°/100ft	10,758.81	0.00	71.66	10,737.52	6,965.32	-111.73	114.01	344.00	488,444.07	761,386.47	32.34079199	-103.62083054	0.00	0.00	0.00
Build & Turn 5°/100ft	11,508.81	75.00	183.62	11,290.95	7,518.75	311.90	-309.80	317.19	488,020.27	761,359.66	32.33962760	-103.62092648	10.00	10.00	0.00
Landing Point	11,811.40	90.00	181.62	11,330.34	7,558.14	610.63	-608.63	303.60	487,721.45	761,346.07	32.33880652	-103.62097689	5.00	4.96	-0.66
Turn 2°/100ft	12,011.40	90.00	181.62	11,330.34	7,558.14	810.51	-808.55	297.95	487,521.54	761,340.42	32.33825713	-103.62099950	0.00	0.00	0.00
Hold	12,111.59	90.00	179.62	11,330.34	7,558.14	910.67	-908.72	296.87	487,421.37	761,339.34	32.33798182	-103.62100516	2.00	0.00	-2.00
Coriander 1-12 State Com 303H - PBHL [100'FSL, 380'FEL]	21,450.47	90.00	179.62	11,330.00	7,557.80	10,249.55	-10,247.40	359.40	478,083.05	761,401.87	32.31231290	-103.62100370	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Code	Vendor / Tool	Borehole / Survey
	1	0.000	10,750.000	1/100.000 '.5 – 12.25 – 8.75	3.375 – 9.625 – 7			A001Mb_MWD		Coriander 1-12 State Com 303H / Coterra Coriande
	1	10,750.000	21,446.305	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Coriander 1-12 State Com 303H / Coterra Coriande

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,325.600	17.500	13.375	
4,986.600	12.250	9.625	
11,369.600	8.750	7.000	
21,450.470	6.000	4.500	

Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25 Anti-Collision Summary Report

Analysis Date-24hr Time:	April 15, 2025 - 04:40 PM (UTC 0)	**Analysis Method:**	3D Least Distance
Client:	COTERRA	**Reference Trajectory:**	Coterra Coriander 1-12 State Com 303H Rev2 kFc 15Apr25
Field:	NM Lea County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Cimarex Coriander 1-12 State Com Lot 1 Pad	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:	Coriander 1-12 State Com 303H	**Min Pts:**	Absolute minima indicated.
Well:	Coriander 1-12 State Com 303H	**Engine Version:**	2024.5.0.1
Borehole:	Coriander 1-12 State Com 303H	**Database \ Project:**	Coriander 1-12 State Com 303H–COTERRA
Scan MD Range:	0.00ft ~ 21450.47ft		

Trajectory Error Model: ISCWSA0 3 - D 95 % Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria

Bounding box scan: minimum Ct-Ct separation <= 2000ft

Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

18 out of 33 are selected

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
30-025-33531 - CORIANDER AOC STATE 1 - INC Only to 9121ft - P&A (DefinitiveSurvey) - **Fail Major**												
	360.82	32.81	358.84	328.01	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	360.18	32.81	358.10	327.37	3591.23	MAS = 10.00 (m)	10.00	10.00				MinPt-SF
	359.75	32.81	357.71	326.95	5452.07	MAS = 10.00 (m)	23.00	23.00				WRP
	357.52	108.98	284.28	248.54	4.98	OSF1.50	1930.00	1929.96	OSF<=5.00			Enter Alert
	239.35	239.45	79.13	-0.10	1.50	OSF1.50	4070.00	4054.82		OSF<=1.50		Enter Minor
	238.97	247.29	73.52	-8.32	1.45	OSF1.50	4180.06	4164.07				MinPt-CtCt
	256.62	384.57	-0.30	-127.95	1.00	OSF1.50	6010.00	5988.71			OSF<=1.00	Enter Major
	256.62	575.55	-127.61	-318.92	0.67	OSF1.50	9170.00	9148.71				MinPts
	314.12	474.39	-2.68	-160.27	0.99	OSF1.50	9350.00	9328.71			OSF>1.00	Exit Major
	388.10	389.16	128.13	-1.05	1.50	OSF1.50	9460.00	9438.71		OSF>1.50		Exit Minor
	737.25	224.66	586.94	512.60	4.95	OSF1.50	9860.00	9838.71	OSF>5.00			Exit Alert
	3025.45	412.20	2750.15	2613.25	11.04	OSF1.50	13440.00	11330.29				MinPt-SF
	10338.18	572.83	9955.79	9765.35	27.14	OSF1.50	21450.47	11330.00				TD
Coterra Coriander 1-12 State Com 154H Rev0 kFc 15Feb24 (DefinitivePlan) - **Fail Minor**												
	20.00	16.26	18.72	3.74	N/A	MAS = 4.96 (m)	0.00	0.00	CtCt<=15.00m			Enter Alert
	20.00	16.26	18.72	3.74	N/A	MAS = 4.96 (m)	23.00	23.00				WRP
	20.00	19.75	6.40	0.25	1.52	OSF1.50	1290.00	1290.00				MinPts
	20.00	20.05	6.31	-0.05	1.50	OSF1.50	1330.00	1330.00		OSF<=1.50		Enter Minor
	20.00	27.12	1.59	-7.12	1.09	OSF1.50	1800.00	1800.00				MinPt-CtCt
	20.15	27.57	1.45	-7.41	1.08	OSF1.50	1830.00	1830.00				MinPts
	20.27	27.71	1.46	-7.45	1.08	OSF1.50	1840.00	1840.00				MinPt-ADP
	30.86	30.97	9.89	-0.10	1.49	OSF1.50	2060.00	2059.64		OSF>1.50		Exit Minor
	166.13	145.34	68.91	20.79	1.72	OSF1.50	9850.00	9828.71				MinPts
	166.16	145.38	68.91	20.78	1.72	OSF1.50	9860.00	9838.71				MinPts
	384.90	117.08	306.52	267.83	4.96	OSF1.50	10390.00	10368.71	OSF>5.00			Exit Alert
	1110.81	93.66	1048.04	1017.15	17.96	OSF1.50	11860.00	11330.34				MinPt-CtCt
	1110.20	183.20	987.74	927.00	9.13	OSF1.50	16020.00	11330.20				MinPt-CtCt
	1110.15	221.50	962.16	888.65	7.54	OSF1.50	17320.00	11330.15				MinPt-CtCt
	1111.14	334.05	888.12	777.09	5.00	OSF1.50	20940.00	11330.02	OSF<=5.00			Enter Alert
	1111.13	350.25	877.30	760.88	4.77	OSF1.50	21450.47	11330.00				MinPts
30-025-47636 - WILD SALSA FED COM 226H - MWD to 21865ft - A (DefinitiveSurvey) - **Fail Minor**												
	15228.13	212.10	15086.07	15016.03	108.70	OSF1.50	0.00	0.00				Surface
	15211.36	212.04	15069.34	14999.32	108.61	OSF1.50	23.00	23.00				WRP
	693.42	212.54	551.23	480.88	4.92	OSF1.50	20950.00	11330.02	OSF<=5.00			Enter Alert
	295.71	302.27	93.70	-6.56	1.47	OSF1.50	21410.00	11330.00		OSF<=1.50		Enter Minor
	270.35	320.37	56.27	-50.02	1.26	OSF1.50	21450.47	11330.00				MinPts
30-025-33688 - MULE DEER 36 STATE 7 - INC only to 9100ft - A (DefinitiveSurvey) - **Fail Minor**												
	515.13	32.81	513.15	482.32	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	514.87	32.81	512.86	482.06	16314.94	MAS = 10.00 (m)	10.00	10.00				MinPt-SF
	514.81	32.81	512.74	482.00	6136.52	MAS = 10.00 (m)	23.00	23.00				WRP
	499.80	151.32	398.34	348.49	5.00	OSF1.50	2460.00	2456.82	OSF<=5.00			Enter Alert
	489.87	199.46	356.31	290.41	3.70	OSF1.50	3273.77	3264.53				MinPt-CtCt
	530.70	531.26	175.98	-0.56	1.50	OSF1.50	8130.00	8108.71		OSF<=1.50		Enter Minor
	530.70	590.99	136.17	-60.28	1.35	OSF1.50	9140.00	9118.71				MinPts
	558.02	563.26	181.98	-5.24	1.49	OSF1.50	9310.00	9288.71		OSF>1.50		Exit Minor
	1038.34	316.94	826.51	721.40	4.93	OSF1.50	10030.00	10008.71	OSF>5.00			Exit Alert
	3074.99	422.30	2792.95	2652.69	10.96	OSF1.50	12800.00	11330.32				MinPt-SF
	10993.52	588.72	10600.54	10404.80	28.08	OSF1.50	21450.47	11330.00				TD
Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 (DefinitivePlan) - **Warning Alert**												
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	0.00	0.00	CtCt<=15.00m			Enter Alert
	39.99	32.25	38.71	7.74	N/A	MAS = 9.83 (m)	23.00	23.00				WRP
	39.99	32.25	26.40	7.74	3.14	MAS = 9.83 (m)	1290.00	1290.00				MinPt-EOU
	39.99	32.25	21.59	7.74	2.24	MAS = 9.83 (m)	1800.00	1800.00				MinPts
	40.11	32.25	21.50	7.86	2.22	MAS = 9.83 (m)	1820.00	1820.00				MinPt-EOU
	40.45	32.25	21.65	8.20	2.22	MAS = 9.83 (m)	1840.00	1840.00				MinPt-SF
	114.85	35.22	91.04	79.63	4.99	OSF1.50	2360.00	2357.57	OSF>5.00			Exit Alert
	410.78	59.79	370.59	350.99	10.45	OSF1.50	3970.00	3955.57				MinPt-SF
	508.66	153.46	406.02	355.20	4.99	OSF1.50	10400.00	10378.71	OSF<=5.00			Enter Alert
	505.72	154.34	402.49	351.37	4.94	OSF1.50	10500.00	10478.71				MinPt-CtCt
	505.76	154.41	402.49	351.35	4.94	OSF1.50	10510.00	10488.71				MinPts

Results highlighted in red: Sep-Factor <= 1.5

Result highlighted in boxed, red and bold: all local minima indicated.

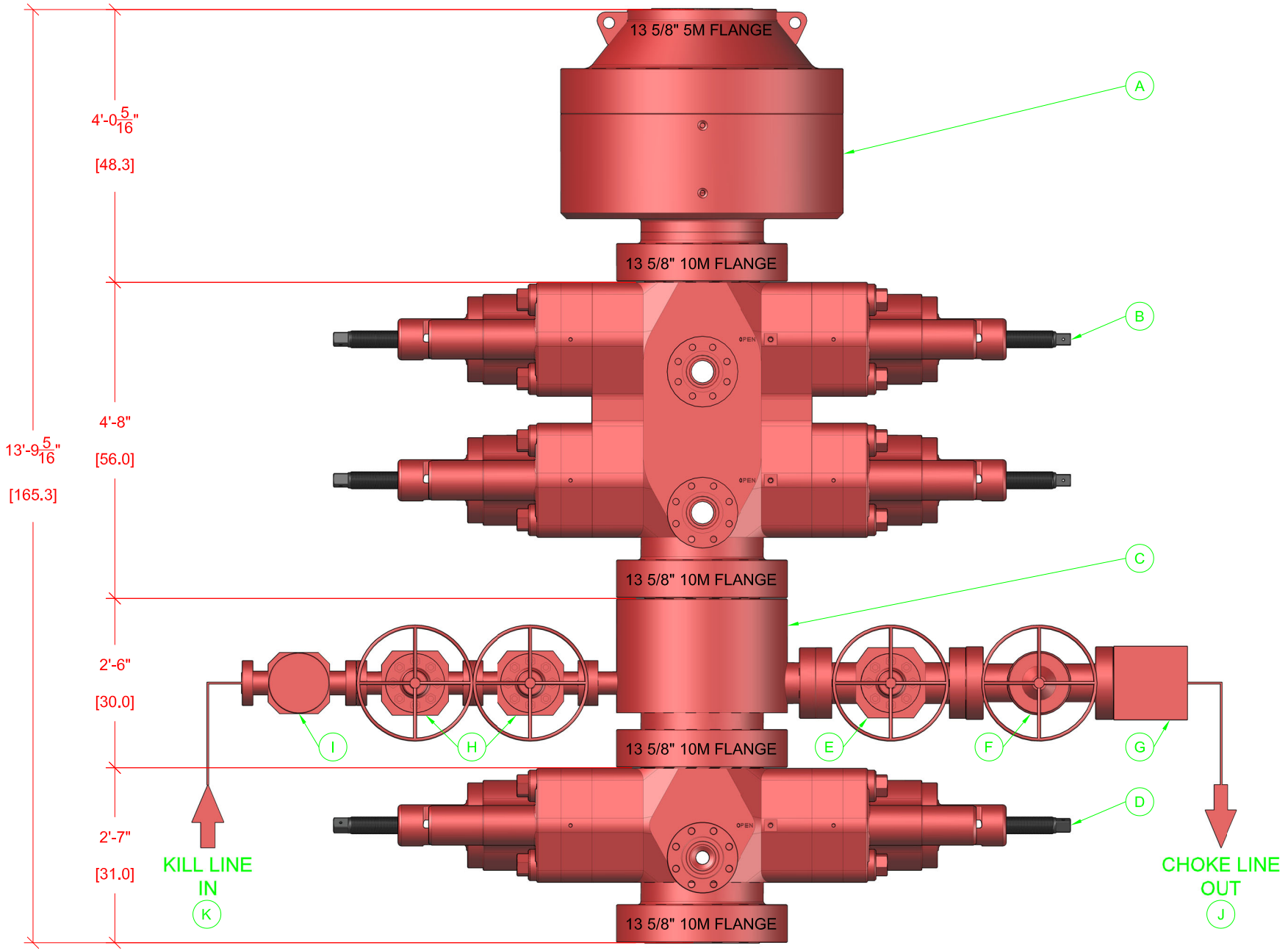
Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	505.88	154.47	402.57	351.41	4.93	OSF1.50	10520.00	10498.71				MinPt-SF
	512.15	154.47	408.84	357.67	5.00	OSF1.50	10620.00	10598.71	OSF>5.00			Exit Alert
	670.97	113.94	594.69	557.04	8.90	OSF1.50	12370.00	11330.33				MinPt-CtCt
	671.06	202.06	536.03	469.00	5.00	OSF1.50	16390.00	11330.18	OSF<=5.00			Enter Alert
	671.18	353.88	434.93	317.30	2.85	OSF1.50	21450.47	11330.00				MinPts
Coterra Coriander 1-12 State Com 5H Corrected MWD to 22532ft (DefinitiveSurvey) - **Warning Alert**												
	84.84	32.81	83.66	52.03	2909113.18	MAS = 10.00 (m)	0.00	0.00				MinPts
	84.85	32.81	83.67	52.04	15448.86	MAS = 10.00 (m)	23.00	23.00				WRP
	85.91	32.81	83.25	53.10	57.18	MAS = 10.00 (m)	220.00	220.00				MinPt-EOU
	79.49	32.81	62.68	46.68	4.96	MAS = 10.00 (m)	1670.00	1670.00	OSF<=5.00			Enter Alert
	40.63	32.81	19.23	7.82	1.94	MAS = 10.00 (m)	2135.22	2134.45				MinPts
	40.65	32.81	19.19	7.84	1.94	MAS = 10.00 (m)	2140.00	2139.20				MinPt-EOU
	40.78	32.81	19.23	7.98	1.93	MAS = 10.00 (m)	2149.93	2149.06				MinPt-SF
	129.87	39.88	102.96	89.99	4.97	OSF1.50	2710.00	2704.96	OSF>5.00			Exit Alert
	675.43	119.29	595.57	556.14	8.55	OSF1.50	8010.00	7988.71				MinPt-ADP
	681.78	125.87	597.54	555.91	8.18	OSF1.50	8450.00	8428.71				MinPt-EOU
	686.97	137.34	595.08	549.63	7.55	OSF1.50	9220.00	9198.71				MinPt-EOU
	687.82	138.36	595.25	549.46	7.50	OSF1.50	9290.00	9268.71				MinPt-ADP
	691.32	144.64	594.57	546.69	7.21	OSF1.50	9710.00	9688.71				MinPt-EOU
	692.72	146.40	594.79	546.32	7.14	OSF1.50	9830.00	9808.71				MinPt-ADP
	697.55	162.00	589.22	535.55	6.49	OSF1.50	11000.00	10971.65				MinPt-CtCt
	697.55	162.07	589.18	535.49	6.49	OSF1.50	11010.00	10980.74				MinPt-EOU
	697.60	162.13	589.19	535.47	6.48	OSF1.50	11020.00	10989.76				MinPt-ADP
	698.29	162.41	589.69	535.88	6.48	OSF1.50	11060.00	11025.03				MinPt-SF
	1262.96	139.80	1169.43	1123.16	13.64	OSF1.50	13170.00	11330.30				MinPt-CtCt
	1263.18	140.48	1169.19	1122.69	13.57	OSF1.50	13230.00	11330.30				MinPt-EOU
	1263.59	140.97	1169.29	1122.63	13.53	OSF1.50	13270.00	11330.30				MinPt-ADP
	1272.30	147.36	1173.74	1124.95	13.03	OSF1.50	13660.00	11330.28				MinPt-ADP
	1277.11	157.17	1172.01	1119.95	12.26	OSF1.50	14150.00	11330.27				MinPt-CtCt
	1269.75	177.68	1150.97	1092.07	10.77	OSF1.50	15080.00	11330.23				MinPt-CtCt
	1272.35	190.43	1145.07	1081.92	10.07	OSF1.50	15630.00	11330.21				MinPt-CtCt
	1281.00	220.24	1133.85	1060.77	8.76	OSF1.50	16790.00	11330.17				MinPt-CtCt
	1281.38	221.46	1133.41	1059.92	8.71	OSF1.50	16850.00	11330.17				MinPt-EOU
	1283.68	225.70	1132.88	1057.97	8.56	OSF1.50	17010.00	11330.16				MinPt-EOU
	1287.14	231.97	1132.17	1055.17	8.35	OSF1.50	17240.00	11330.15				MinPt-EOU
	1292.58	247.51	1127.25	1045.07	7.86	OSF1.50	17770.00	11330.13				MinPt-CtCt
	1292.84	257.24	1121.02	1035.60	7.56	OSF1.50	18110.00	11330.12				MinPt-CtCt
	1293.29	258.48	1120.64	1034.81	7.53	OSF1.50	18170.00	11330.12				MinPt-EOU
	1293.63	258.88	1120.71	1034.75	7.52	OSF1.50	18190.00	11330.12				MinPt-ADP
	1300.38	270.55	1119.69	1029.83	7.23	OSF1.50	18590.00	11330.10				MinPt-EOU
	1291.83	305.72	1087.68	986.11	6.35	OSF1.50	19760.00	11330.06				MinPt-CtCt
	1292.04	316.54	1080.69	975.50	6.14	OSF1.50	20120.00	11330.05				MinPt-CtCt
	1293.91	330.95	1072.95	962.96	5.88	OSF1.50	20600.00	11330.03				MinPt-CtCt
	1291.42	351.72	1056.61	939.69	5.52	OSF1.50	21280.00	11330.01				MinPt-CtCt
	1291.75	356.97	1053.44	934.78	5.44	OSF1.50	21450.47	11330.00				MinPts
Coterra Coriander 1-12 Federal Com 6H Corrected MWD to 22356ft (DefinitiveSurvey) - **Warning Alert**												
	72.10	32.81	70.81	39.29	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	72.09	32.81	70.80	39.28	27647.31	MAS = 10.00 (m)	23.00	23.00				WRP
	72.01	32.81	70.28	39.20	157.87	MAS = 10.00 (m)	100.00	100.00				MinPts
	70.84	32.81	57.44	38.03	5.74	MAS = 10.00 (m)	1280.00	1280.00				MinPt-EOU
	70.69	32.81	56.24	37.88	5.18	MAS = 10.00 (m)	1470.00	1470.00				MinPts
	70.64	32.81	55.72	37.83	5.00	MAS = 10.00 (m)	1550.00	1550.00	OSF<=5.00			Enter Alert
	53.93	32.81	36.22	21.12	3.17	MAS = 10.00 (m)	1958.58	1958.50				MinPts
	54.00	32.81	36.20	21.19	3.15	MAS = 10.00 (m)	1970.00	1969.90				MinPt-EOU
	54.18	32.81	36.31	21.37	3.15	MAS = 10.00 (m)	1980.00	1979.88				MinPt-SF
	95.19	32.81	75.34	62.38	4.99	MAS = 10.00 (m)	2250.00	2248.38	OSF>5.00			Exit Alert
	923.37	81.90	868.45	841.47	17.10	OSF1.50	6030.00	6008.71				MinPt-SF
	978.23	87.00	919.90	891.23	17.04	OSF1.50	6390.00	6368.71				MinPt-SF
	997.23	88.69	937.77	908.54	17.04	OSF1.50	6510.00	6488.71				MinPt-SF
	1077.66	110.77	1003.48	966.89	14.71	OSF1.50	7920.00	7898.71				MinPt-CtCt
	1073.19	127.65	987.76	945.54	12.70	OSF1.50	9110.00	9088.71				MinPt-CtCt
	1074.11	130.80	986.58	943.31	12.40	OSF1.50	9330.00	9308.71				MinPt-EOU
	1074.71	131.50	986.72	943.22	12.34	OSF1.50	9380.00	9358.71				MinPt-ADP
	1056.10	153.92	953.16	902.18	10.35	OSF1.50	11130.00	11083.28				MinPt-CtCt
	1056.10	153.98	953.12	902.13	10.34	OSF1.50	11140.00	11091.21				MinPt-EOU
	1056.15	154.04	953.14	902.12	10.34	OSF1.50	11150.00	11099.02				MinPt-ADP
	1057.55	154.38	954.30	903.17	10.33	OSF1.50	11210.00	11143.50				MinPt-SF
	1523.74	149.42	1423.80	1374.32	15.39	OSF1.50	12340.00	11330.33				MinPt-SF
	1531.82	151.52	1430.48	1380.31	15.25	OSF1.50	12590.00	11330.32				MinPt-CtCt
	1531.88	151.66	1430.44	1380.22	15.24	OSF1.50	12610.00	11330.32				MinPt-EOU
	1531.94	151.73	1430.46	1380.21	15.23	OSF1.50	12620.00	11330.32				MinPt-ADP
	1533.01	153.27	1430.50	1379.74	15.09	OSF1.50	12800.00	11330.32				MinPt-CtCt
	1533.08	153.43	1430.46	1379.65	15.08	OSF1.50	12820.00	11330.31				MinPt-EOU
	1533.15	153.51	1430.48	1379.64	15.07	OSF1.50	12830.00	11330.31				MinPt-ADP
	1549.21	175.64	1431.79	1373.57	13.30	OSF1.50	14400.00	11330.26				MinPt-CtCt
	1549.45	176.42	1431.51	1373.03	13.24	OSF1.50	14450.00	11330.26				MinPt-EOU
	1549.83	176.89	1431.57	1372.94	13.21	OSF1.50	14480.00	11330.25				MinPt-ADP
	1551.60	178.96	1431.96	1372.64	13.07	OSF1.50	14590.00	11330.25				MinPt-ADP
	1565.74	189.27	1439.23	1376.47	12.47	OSF1.50	15090.00	11330.23				MinPt-EOU
	1566.17	189.79	1439.31	1376.38	12.44	OSF1.50	15120.00	11330.23				MinPt-ADP
	1570.91	194.40	1440.98	1376.51	12.18	OSF1.50	15330.00	11330.22				MinPt-CtCt
	1571.23	195.46	1440.59	1375.77	12.11	OSF1.50	15390.00	11330.22				MinPt-EOU
	1571.67	196.00	1440.68	1375.67	12.08	OSF1.50	15420.00	11330.22				MinPt-ADP
	1560.33	215.25	1416.50	1345.08	10.92	OSF1.50	16260.00	11330.19				MinPt-CtCt
	1560.73	216.42	1416.12	1344.31	10.86	OSF1.50	16320.00	11330.19				MinPt-EOU
	1561.05	216.80	1416.20	1344.26	10.84	OSF1.50	16340.00	11330.19				MinPt-ADP
	1558.39	245.76	1394.22	1312.63	9.54	OSF1.50	17480.00	11330.14				MinPt-CtCt
	1559.15	254.23	1389.33	1304.92	9.23	OSF1.50	17800.00	11330.13				MinPt-CtCt
	1559.26	259.86	1385.71	1299.42	9.03	OSF1.50	18010.00	11330.13				MinPt-CtCt

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	1561.08	267.75	1382.25	1293.33	8.77	OSF1.50	18300.00	11330.11				MinPt-CtCt
	1542.16	316.43	1330.88	1225.73	7.33	OSF1.50	20020.00	11330.05				MinPt-CtCt
	1542.48	333.54	1319.79	1208.94	6.95	OSF1.50	20610.00	11330.03				MinPt-CtCt
	1542.95	334.91	1319.35	1208.04	6.93	OSF1.50	20670.00	11330.03				MinPt-EOU
	1543.31	335.35	1319.41	1207.96	6.92	OSF1.50	20690.00	11330.03				MinPt-ADP
	1545.44	338.30	1319.57	1207.14	6.87	OSF1.50	20790.00	11330.02				MinPt-EOU
	1547.47	340.72	1320.00	1206.75	6.83	OSF1.50	20880.00	11330.02				MinPt-ADP
	1536.81	358.36	1297.58	1178.45	6.45	OSF1.50	21450.47	11330.00				MinPts
Coterra Coriander 1-12 State Com 4H Corrected MWD to 22335ft (DefinitiveSurvey) - **Warning Alert**												
	99.98	32.81	98.70	67.17	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	99.98	32.81	98.70	67.17	N/A	MAS = 10.00 (m)	10.00	10.00				MinPts
	99.98	32.81	98.69	67.18	35559.00	MAS = 10.00 (m)	23.00	23.00				WRP
	103.93	32.81	90.64	71.12	8.55	MAS = 10.00 (m)	1280.00	1280.00				MinPt-EOU
	100.16	32.81	83.64	67.35	6.38	MAS = 10.00 (m)	1640.00	1640.00				MinPts
	100.36	32.81	83.44	67.55	6.24	MAS = 10.00 (m)	1680.00	1680.00				MinPt-EOU
	98.97	32.81	78.21	66.16	4.96	MAS = 10.00 (m)	2070.00	2069.60	OSF<=5.00			Enter Alert
	80.17	42.09	51.78	38.08	2.89	OSF1.50	2842.35	2836.32				MinPt-CtCt
	80.38	42.64	51.62	37.73	2.86	OSF1.50	2880.00	2873.69				MinPt-EOU
	80.50	42.79	51.65	37.71	2.85	OSF1.50	2890.00	2883.62				MinPt-ADP
	81.53	43.52	52.19	38.01	2.84	OSF1.50	2940.00	2933.24				MinPt-SF
	207.84	63.16	165.40	144.67	4.99	OSF1.50	4270.00	4253.33	OSF>5.00			Exit Alert
	280.58	77.41	228.64	203.17	5.49	OSF1.50	5230.00	5208.71				MinPt-CtCt
	280.99	78.54	228.30	202.45	5.42	OSF1.50	5310.00	5288.71				MinPt-EOU
	282.14	79.85	228.59	202.30	5.35	OSF1.50	5400.00	5378.71				MinPt-ADP
	287.66	84.72	230.85	202.93	5.14	OSF1.50	5730.00	5708.71				MinPt-ADP
	292.22	88.40	232.96	203.82	5.00	OSF1.50	5980.00	5958.71	OSF<=5.00			Enter Alert
	301.36	96.47	236.72	204.90	4.72	OSF1.50	6520.00	6498.71				MinPt-CtCt
	301.81	101.57	233.77	200.24	4.49	OSF1.50	6870.00	6848.71				MinPt-CtCt
	307.09	118.08	228.05	189.01	3.92	OSF1.50	8000.00	7978.71				MinPt-EOU
	309.66	121.00	228.67	188.66	3.86	OSF1.50	8200.00	8178.71				MinPt-ADP
	312.28	123.36	229.71	188.92	3.82	OSF1.50	8360.00	8338.71				MinPt-ADP
	337.71	143.25	241.88	194.46	3.55	OSF1.50	9710.00	9688.71				MinPt-SF
	340.15	160.51	232.81	179.64	3.19	OSF1.50	10970.00	10943.96				MinPt-CtCt
	340.15	160.59	232.77	179.57	3.19	OSF1.50	10980.00	10953.26				MinPt-EOU
	340.21	160.66	232.77	179.55	3.19	OSF1.50	10990.00	10962.49				MinPt-ADP
	340.32	160.74	232.83	179.58	3.19	OSF1.50	11000.00	10971.65				MinPt-SF
	541.28	164.22	431.47	377.05	4.96	OSF1.50	11540.00	11298.62	OSF>5.00			Exit Alert
	817.72	109.16	744.62	708.56	11.32	OSF1.50	12160.00	11330.34				MinPt-SF
	839.65	121.67	758.21	717.98	10.42	OSF1.50	13050.00	11330.31				MinPt-EOU
	840.57	122.74	758.42	717.83	10.34	OSF1.50	13120.00	11330.30				MinPt-ADP
	873.86	146.83	775.64	727.03	8.98	OSF1.50	14280.00	11330.26				MinPt-CtCt
	873.90	146.95	775.60	726.95	8.97	OSF1.50	14290.00	11330.26				MinPt-EOU
	873.99	147.08	775.61	726.91	8.96	OSF1.50	14300.00	11330.26				MinPt-ADP
	875.17	148.17	776.07	727.00	8.91	OSF1.50	14360.00	11330.26				MinPt-ADP
	878.02	153.14	775.60	724.88	8.65	OSF1.50	14560.00	11330.25				MinPt-EOU
	878.50	153.71	775.70	724.79	8.62	OSF1.50	14590.00	11330.25				MinPt-ADP
	881.49	157.03	776.48	724.46	8.46	OSF1.50	14730.00	11330.25				MinPt-ADP
	886.15	163.91	776.55	722.24	8.15	OSF1.50	14980.00	11330.24				MinPt-CtCt
	886.50	165.06	776.13	721.44	8.10	OSF1.50	15040.00	11330.23				MinPt-EOU
	886.98	165.64	776.22	721.34	8.07	OSF1.50	15070.00	11330.23				MinPt-ADP
	883.94	177.11	765.54	706.83	7.52	OSF1.50	15490.00	11330.22				MinPt-CtCt
	884.29	178.05	765.26	706.24	7.48	OSF1.50	15540.00	11330.22				MinPt-EOU
	888.74	185.81	764.54	702.94	7.20	OSF1.50	15830.00	11330.20				MinPt-EOU
	889.25	186.57	764.54	702.68	7.18	OSF1.50	15860.00	11330.20				MinPt-EOU
	894.81	193.70	765.35	701.12	6.96	OSF1.50	16120.00	11330.19				MinPt-EOU
	895.21	194.15	765.44	701.05	6.94	OSF1.50	16140.00	11330.19				MinPt-ADP
	908.16	209.87	767.92	698.29	6.51	OSF1.50	16690.00	11330.17				MinPt-EOU
	909.14	211.05	768.11	698.09	6.48	OSF1.50	16740.00	11330.17				MinPt-ADP
	913.17	215.86	768.94	697.31	6.37	OSF1.50	16900.00	11330.17				MinPt-EOU
	914.43	217.33	769.22	697.10	6.33	OSF1.50	16960.00	11330.16				MinPt-ADP
	915.89	221.34	768.01	694.55	6.23	OSF1.50	17070.00	11330.16				MinPt-CtCt
	916.29	222.60	767.56	693.69	6.20	OSF1.50	17130.00	11330.16				MinPt-EOU
	916.83	223.23	767.68	693.60	6.18	OSF1.50	17160.00	11330.16				MinPt-ADP
	922.16	235.06	765.13	687.11	5.90	OSF1.50	17540.00	11330.14				MinPt-CtCt
	922.87	237.23	764.39	685.64	5.85	OSF1.50	17630.00	11330.14				MinPt-EOU
	924.11	247.22	758.98	676.90	5.62	OSF1.50	17950.00	11330.13				MinPt-CtCt
	925.02	249.97	758.04	675.05	5.57	OSF1.50	18060.00	11330.12				MinPt-EOU
	926.05	251.19	758.26	674.86	5.55	OSF1.50	18110.00	11330.12				MinPt-ADP
	923.38	263.11	747.65	660.27	5.28	OSF1.50	18480.00	11330.11				MinPt-CtCt
	923.66	263.91	747.39	659.75	5.26	OSF1.50	18520.00	11330.11				MinPt-EOU
	923.99	264.29	747.46	659.69	5.26	OSF1.50	18540.00	11330.11				MinPt-ADP
	926.25	278.74	740.09	647.51	5.00	OSF1.50	18990.00	11330.09	OSF<=5.00			Enter Alert
	925.85	284.72	735.71	641.13	4.89	OSF1.50	19190.00	11330.08				MinPt-CtCt
	924.79	296.06	727.08	628.72	4.70	OSF1.50	19560.00	11330.07				MinPt-CtCt
	925.15	297.14	726.73	628.01	4.68	OSF1.50	19610.00	11330.07				MinPt-EOU
	923.02	312.14	714.60	610.88	4.44	OSF1.50	20080.00	11330.05				MinPt-CtCt
	913.20	325.77	695.69	587.43	4.21	OSF1.50	20520.00	11330.03				MinPt-CtCt
	913.77	327.45	695.14	586.31	4.19	OSF1.50	20590.00	11330.03				MinPt-EOU
	914.32	328.14	695.23	586.18	4.19	OSF1.50	20620.00	11330.03				MinPt-ADP
	911.71	354.94	674.75	556.77	3.86	OSF1.50	21440.00	11330.00				MinPt-SF
	911.66	354.90	674.73	556.76	3.86	OSF1.50	21450.00	11330.00				MinPts
	911.66	354.90	674.73	556.76	3.86	OSF1.50	21450.47	11330.00				TD
30-025-43737 Cimarex Coriander AOC 1-12 State 2H - Corrected MWD to 19642ft (DefinitiveSurvey) - **Warning Alert**												
	126.34	32.81	125.05	93.53	1295305.31	MAS = 10.00 (m)	0.00	0.00				Surface
	126.33	32.81	125.04	93.52	14708.07	MAS = 10.00 (m)	23.00	23.00				WRP
	125.77	32.81	121.82	92.96	46.72	MAS = 10.00 (m)	360.00	360.00				MinPts
	124.65	32.81	112.37	91.84	11.22	MAS = 10.00 (m)	1200.00	1200.00				MinPt-EOU
	124.54	32.81	111.51	91.73	10.37	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
	124.32	32.81	110.22	91.51	9.40	MAS = 10.00 (m)	1412.16	1412.16				MinPts

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	126.02	32.81	107.87	93.21	7.29	MAS = 10.00 (m)	1820.00	1820.00				MinPt-EOU
	134.51	32.81	114.12	101.71	6.88	MAS = 10.00 (m)	2050.00	2049.68				MinPt-SF
	287.65	52.86	252.08	234.79	8.29	OSF1.50	3580.00	3568.48				MinPt-SF
	424.40	76.01	373.40	348.39	8.47	OSF1.50	5140.00	5118.71				MinPt-CtCt
	444.47	130.78	356.95	313.69	5.13	OSF1.50	8890.00	8868.71				MinPt-EOU
	447.17	133.99	357.51	313.17	5.03	OSF1.50	9110.00	9088.71				MinPt-ADP
	448.65	135.29	358.13	313.36	5.00	OSF1.50	9200.00	9178.71	OSF<=5.00			Enter Alert
	449.99	135.88	359.08	314.11	4.99	OSF1.50	9250.00	9228.71				MinPt-SF
	451.87	136.28	360.69	315.59	5.00	OSF1.50	9290.00	9268.71	OSF>5.00			Exit Alert
	1591.01	112.97	1515.37	1478.04	21.30	OSF1.50	13380.00	11330.29				MinPt-CtCt
	1591.34	114.08	1514.96	1477.26	21.09	OSF1.50	13440.00	11330.29				MinPt-EOU
	1591.97	114.84	1515.09	1477.13	20.96	OSF1.50	13480.00	11330.29				MinPt-ADP
	1587.59	120.74	1506.77	1466.85	19.87	OSF1.50	13750.00	11330.28				MinPt-CtCt
	1588.33	122.62	1506.25	1465.71	19.57	OSF1.50	13840.00	11330.28				MinPt-EOU
	1572.40	141.14	1477.98	1431.27	16.82	OSF1.50	14600.00	11330.25				MinPt-CtCt
	1572.86	142.50	1477.53	1430.35	16.66	OSF1.50	14660.00	11330.25				MinPt-EOU
	1573.44	143.18	1477.66	1430.26	16.59	OSF1.50	14690.00	11330.25				MinPt-ADP
	1550.00	173.13	1434.26	1376.87	13.50	OSF1.50	15790.00	11330.21				MinPt-CtCt
	1550.80	175.45	1433.51	1375.35	13.33	OSF1.50	15880.00	11330.20				MinPt-EOU
	1552.32	177.31	1433.79	1375.01	13.20	OSF1.50	15950.00	11330.20				MinPt-ADP
	1555.83	181.99	1434.18	1373.84	12.89	OSF1.50	16110.00	11330.19				MinPt-EOU
	1558.96	185.60	1434.90	1373.36	12.66	OSF1.50	16240.00	11330.19				MinPt-ADP
	1566.13	194.64	1436.04	1371.49	12.12	OSF1.50	16540.00	11330.18				MinPt-CtCt
	1566.74	196.46	1435.44	1370.28	12.02	OSF1.50	16610.00	11330.18				MinPt-EOU
	1568.04	200.18	1434.26	1367.86	11.80	OSF1.50	16730.00	11330.17				MinPt-CtCt
	1568.96	203.76	1432.79	1365.20	11.60	OSF1.50	16860.00	11330.17				MinPt-EOU
	1570.04	205.09	1432.98	1364.94	11.53	OSF1.50	16910.00	11330.17				MinPt-ADP
	1557.91	229.06	1404.87	1328.84	10.24	OSF1.50	17700.00	11330.14				MinPt-CtCt
	1558.35	230.64	1404.26	1327.71	10.17	OSF1.50	17760.00	11330.13				MinPt-EOU
	1558.91	231.50	1404.25	1327.41	10.14	OSF1.50	17790.00	11330.13				MinPt-EOU
	1561.42	253.79	1391.90	1307.63	9.26	OSF1.50	18510.00	11330.11				MinPt-CtCt
	1563.51	260.30	1389.66	1303.22	9.04	OSF1.50	18730.00	11330.10				MinPt-EOU
	1564.69	261.69	1389.90	1303.00	9.00	OSF1.50	18780.00	11330.10				MinPt-ADP
	1573.11	276.44	1388.49	1296.67	8.56	OSF1.50	19250.00	11330.08				MinPt-EOU
	1577.04	284.15	1387.28	1292.89	8.35	OSF1.50	19500.00	11330.07				MinPt-EOU
	1578.48	285.86	1387.57	1292.61	8.31	OSF1.50	19560.00	11330.07				MinPt-ADP
	1589.17	296.69	1391.05	1292.48	8.06	OSF1.50	19910.00	11330.06				MinPt-ADP
	1599.58	310.45	1392.29	1289.13	7.75	OSF1.50	20340.00	11330.04				MinPt-EOU
	1609.00	339.17	1382.56	1269.83	7.13	OSF1.50	21240.00	11330.01				MinPt-CtCt
	1610.70	345.66	1379.94	1265.05	7.01	OSF1.50	21450.47	11330.00				MinPts
30-025-43736 Cimarex Coriander AOC 1-12 State 1H - MWD to 19004ft (DefinitiveSurvey) - **Warning Alert**												
	196.87	32.81	194.89	164.06	2208305.40	MAS = 10.00 (m)	0.00	0.00				Surface
	196.85	32.81	194.87	164.04	30717.02	MAS = 10.00 (m)	23.00	23.00				WRP
	190.92	32.81	179.44	158.11	19.90	MAS = 10.00 (m)	1030.00	1030.00				MinPts
	190.36	32.81	176.28	157.56	15.57	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
	190.17	32.81	175.41	157.36	14.49	MAS = 10.00 (m)	1380.00	1380.00				MinPts
	188.67	32.81	167.28	155.86	9.52	MAS = 10.00 (m)	2044.05	2043.75				MinPts
	189.45	33.68	166.41	155.77	8.82	OSF1.50	2210.00	2208.68				MinPt-EOU
	190.32	34.71	166.59	155.61	8.58	OSF1.50	2280.00	2278.16				MinPt-ADP
	246.71	52.99	210.79	193.72	7.17	OSF1.50	3510.00	3499.00				MinPt-SF
	388.89	73.39	339.38	315.50	8.11	OSF1.50	4890.00	4868.97				MinPt-SF
	359.98	107.24	287.95	252.74	5.09	OSF1.50	7210.00	7188.71				MinPt-CtCt
	360.04	109.16	286.73	250.88	5.00	OSF1.50	7340.00	7318.71	OSF<=5.00			Enter Alert
	359.27	115.95	281.44	243.32	4.69	OSF1.50	7800.00	7778.71				MinPt-CtCt
	359.16	119.35	279.06	239.81	4.56	OSF1.50	8030.00	8008.71				MinPt-CtCt
	363.28	128.43	277.12	234.85	4.28	OSF1.50	8650.00	8628.71				MinPt-EOU
	348.76	137.38	256.63	211.38	3.84	OSF1.50	9240.00	9218.71				MinPts
	348.87	137.48	256.68	211.39	3.83	OSF1.50	9250.00	9228.71				MinPt-SF
	421.40	128.88	334.95	292.53	4.95	OSF1.50	9550.00	9528.71	OSF>5.00			Exit Alert
	1744.95	112.44	1669.49	1632.51	23.57	OSF1.50	13420.00	11330.29				MinPt-CtCt
	1747.60	118.73	1667.95	1628.87	22.34	OSF1.50	13720.00	11330.28				MinPt-EOU
	1752.51	142.00	1657.34	1610.51	18.69	OSF1.50	14670.00	11330.25				MinPt-CtCt
	1754.72	148.35	1655.32	1606.37	17.91	OSF1.50	14920.00	11330.24				MinPt-EOU
	1757.13	151.18	1655.85	1605.96	17.59	OSF1.50	15030.00	11330.23				MinPt-ADP
	1756.92	177.68	1637.97	1579.24	14.95	OSF1.50	15970.00	11330.20				MinPt-CtCt
	1757.44	179.18	1637.49	1578.26	14.82	OSF1.50	16030.00	11330.20				MinPt-EOU
	1758.05	179.92	1637.60	1578.13	14.77	OSF1.50	16060.00	11330.20				MinPt-ADP
	1764.75	194.56	1634.55	1570.19	13.70	OSF1.50	16550.00	11330.18				MinPt-CtCt
	1766.24	198.71	1633.26	1567.52	13.42	OSF1.50	16700.00	11330.17				MinPt-EOU
	1767.82	200.64	1633.56	1567.18	13.30	OSF1.50	16770.00	11330.17				MinPt-ADP
	1763.93	231.19	1609.30	1532.74	11.51	OSF1.50	17770.00	11330.13				MinPt-CtCt
	1761.76	269.16	1581.81	1492.59	9.86	OSF1.50	19000.00	11330.09				MinPt-CtCt
	1767.63	281.94	1579.17	1485.69	9.45	OSF1.50	19420.00	11330.07				MinPt-EOU
	1770.55	302.40	1568.45	1468.15	8.82	OSF1.50	20060.00	11330.05				MinPt-CtCt
	1769.53	313.46	1560.06	1456.07	8.50	OSF1.50	20410.00	11330.04				MinPt-CtCt
	1769.93	318.21	1557.28	1451.71	8.38	OSF1.50	20560.00	11330.03				MinPt-CtCt
	1770.94	322.65	1555.34	1448.29	8.26	OSF1.50	20710.00	11330.03				MinPt-EOU
	1772.07	324.03	1555.55	1448.04	8.23	OSF1.50	20760.00	11330.03				MinPt-ADP
	1773.67	329.32	1553.63	1444.36	8.11	OSF1.50	20910.00	11330.02				MinPt-CtCt
	1773.54	331.88	1551.79	1441.67	8.05	OSF1.50	20990.00	11330.02				MinPt-CtCt
	1773.76	332.53	1551.57	1441.23	8.03	OSF1.50	21020.00	11330.02				MinPt-EOU
	1773.94	332.73	1551.62	1441.21	8.03	OSF1.50	21030.00	11330.02				MinPt-ADP
	1778.12	334.21	1554.81	1443.91	8.01	OSF1.50	21120.00	11330.01				MinPt-SF
	1831.73	334.42	1608.28	1497.31	8.25	OSF1.50	21450.47	11330.00				TD
30-025-33354 - April APZ State 1 - Gyro to 10860ft - A (DefinitiveSurvey) - **Warning Alert**												
	5427.40	32.81	5426.42	5394.60	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	5427.27	32.81	5426.27	5394.46	321129.54	MAS = 10.00 (m)	23.00	23.00				WRP
	5427.23	32.81	5426.15	5394.42	55561.80	MAS = 10.00 (m)	50.00	50.00				MinPts
	5427.33	32.81	5412.27	5394.53	385.51	MAS = 10.00 (m)	1500.00	1500.00				MinPts

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	5428.86	32.81	5410.13	5396.06	305.75	MAS = 10.00 (m)	1880.00	1879.99				MinPt-EOU
	5527.58	102.53	5458.90	5425.05	81.64	OSF1.50	6870.00	6848.71				MinPt-CtCt
	5527.60	103.83	5458.05	5423.76	80.60	OSF1.50	6960.00	6938.71				MinPt-CtCt
	5528.25	111.87	5453.34	5416.38	74.77	OSF1.50	7510.00	7488.71				MinPt-CtCt
	5528.24	113.48	5452.26	5414.77	73.70	OSF1.50	7620.00	7598.71				MinPt-CtCt
	5531.35	133.10	5442.29	5398.26	62.79	OSF1.50	8980.00	8958.71				MinPt-EOU
	5531.63	133.42	5442.36	5398.21	62.64	OSF1.50	9010.00	8988.71				MinPt-ADP
	5532.91	134.54	5442.90	5398.38	62.13	OSF1.50	9100.00	9078.71				MinPt-ADP
	5547.85	143.41	5451.92	5404.44	58.42	OSF1.50	9710.00	9688.71				MinPt-ADP
	5549.34	144.88	5452.42	5404.45	57.84	OSF1.50	9800.00	9778.71				MinPt-ADP
	5550.02	145.76	5452.52	5404.26	57.49	OSF1.50	9850.00	9828.71				MinPt-EOU
	5550.96	146.89	5452.71	5404.07	57.06	OSF1.50	9930.00	9908.71				MinPt-ADP
	5560.76	154.23	5457.62	5406.54	54.42	OSF1.50	10450.00	10428.71				MinPt-ADP
	5566.45	159.02	5460.10	5407.42	52.82	OSF1.50	10750.00	10728.71				MinPt-EOU
	508.68	153.75	405.86	354.93	4.99	OSF1.50	16390.00	11330.18	OSF<=5.00			Enter Alert
	433.38	160.39	326.13	272.99	4.07	OSF1.50	16656.34	11330.17				MinPt-CtCt
	433.60	160.96	325.97	272.64	4.06	OSF1.50	16670.00	11330.17				MinPts
	436.69	162.63	327.94	274.06	4.04	OSF1.50	16710.00	11330.17				MinPt-SF
	565.75	171.29	451.22	394.46	4.97	OSF1.50	17020.00	11330.16	OSF>5.00			Exit Alert
	4813.68	175.80	4696.15	4637.88	41.30	OSF1.50	21450.47	11330.00				TD
30-025-33370 - Thyme APY Federal 1 INC Only to 10250ft (DefinitiveSurvey) - **Warning Alert**												
	991.31	32.81	989.33	958.50	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	991.16	32.81	989.16	958.35	48695.78	MAS = 10.00 (m)	10.00	10.00				MinPt-SF
	991.10	32.81	989.07	958.30	19335.35	MAS = 10.00 (m)	23.00	23.00				WRP
	991.10	99.40	924.25	891.71	15.20	OSF1.50	1800.00	1800.00				MinPt-CtCt
	993.18	105.92	921.98	887.26	14.28	OSF1.50	1910.00	1909.97				MinPt-EOU
	996.07	109.47	922.50	886.60	13.85	OSF1.50	1970.00	1969.90				MinPt-ADP
	1340.15	291.84	1145.00	1048.30	6.92	OSF1.50	4890.00	4868.97				MinPt-ADP
	1349.61	406.54	1078.04	943.07	4.99	OSF1.50	6660.00	6638.71	OSF<=5.00			Enter Alert
	1349.61	630.97	928.42	718.64	3.21	OSF1.50	10290.00	10268.71				MinPts
	1668.39	502.37	1332.97	1166.01	4.99	OSF1.50	11550.00	11300.90	OSF>5.00			Exit Alert
	10244.22	633.68	9821.27	9610.55	24.30	OSF1.50	21450.47	11330.00				TD
30-025-47992 - WILD SALSA FED COM 406H - MWD to 23449ft - A (DefinitiveSurvey) - **Warning Alert**												
	16202.74	225.78	16051.56	15976.96	108.58	OSF1.50	0.00	0.00				Surface
	16185.11	225.74	16033.95	15959.37	108.49	OSF1.50	23.00	23.00				WRP
	1165.92	351.24	931.25	814.67	4.99	OSF1.50	21200.00	11330.01	OSF<=5.00			Enter Alert
	1107.03	367.80	861.34	739.24	4.53	OSF1.50	21450.47	11330.00				MinPts
30-025-47629 - WILD SALSA FED COM 215H - MWD to 21650ft - A (DefinitiveSurvey) - **Warning Alert**												
	14921.28	206.69	14782.83	14714.60	109.32	OSF1.50	0.00	0.00				Surface
	14904.82	206.61	14766.42	14698.21	109.24	OSF1.50	23.00	23.00				WRP
	10554.71	176.89	10436.24	10377.82	90.31	OSF1.50	10710.00	10688.71				MinPt-CtCt
	10554.80	177.20	10436.13	10377.61	90.16	OSF1.50	10750.00	10728.71				MinPts
	1444.48	435.24	1153.82	1009.24	4.99	OSF1.50	20720.00	11330.03	OSF<=5.00			Enter Alert
	1157.66	541.50	796.16	616.16	3.21	OSF1.50	21450.47	11330.00				MinPts
30-025-47638-0100 - WILD SALSA FED COM 324H ST01 - MWD to 22866ft - A (DefinitiveSurvey) - **Warning Alert**												
	16280.03	211.97	16138.06	16068.07	116.28	OSF1.50	0.00	0.00				Surface
	16262.78	211.92	16120.84	16050.86	116.18	OSF1.50	23.00	23.00				WRP
	1264.62	381.68	1009.66	882.94	4.98	OSF1.50	21260.00	11330.01	OSF<=5.00			Enter Alert
	1170.75	408.04	898.23	762.72	4.31	OSF1.50	21450.47	11330.00				MinPts
30-025-43738 Cimarex Coriander AOC 1-12 State 3H - Corrected MWD to 19431ft (DefinitiveSurvey) - **Pass**												
	134.05	32.81	132.76	101.24	3442032.11	MAS = 10.00 (m)	0.00	0.00				MinPts
	134.05	32.81	132.75	101.24	12227.41	MAS = 10.00 (m)	23.00	23.00				WRP
	131.19	32.81	121.55	98.38	15.56	MAS = 10.00 (m)	910.81	910.81				MinPts
	131.52	32.81	119.10	98.72	11.69	MAS = 10.00 (m)	1190.00	1190.00				MinPts
	131.55	32.81	118.28	98.74	10.74	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU
	132.05	32.81	117.04	99.24	9.34	MAS = 10.00 (m)	1480.00	1480.00				MinPt-EOU
	134.92	32.81	116.92	102.11	7.87	MAS = 10.00 (m)	1780.00	1780.00				MinPt-EOU
	144.31	32.81	123.94	111.50	7.39	MAS = 10.00 (m)	2020.00	2019.78				MinPt-SF
	703.91	109.97	630.26	593.94	9.67	OSF1.50	7430.00	7408.71				MinPt-CtCt
	709.97	126.67	625.20	583.30	8.46	OSF1.50	8560.00	8538.71				MinPt-EOU
	712.70	129.91	625.77	582.79	8.28	OSF1.50	8780.00	8758.71				MinPt-ADP
	723.03	135.38	632.44	587.65	8.06	OSF1.50	9180.00	9158.71				MinPt-SF
	1889.40	99.06	1823.03	1790.34	28.88	OSF1.50	12100.00	11330.34				MinPt-CtCt
	1889.54	99.41	1822.94	1790.13	28.78	OSF1.50	12140.00	11330.34				MinPt-EOU
	1889.70	99.60	1822.97	1790.10	28.73	OSF1.50	12160.00	11330.34				MinPt-ADP
	1832.58	143.12	1736.84	1689.46	19.33	OSF1.50	14490.00	11330.25				MinPt-CtCt
	1832.40	147.12	1733.99	1685.28	18.80	OSF1.50	14650.00	11330.25				MinPt-CtCt
	1832.79	148.44	1733.50	1684.35	18.63	OSF1.50	14710.00	11330.25				MinPt-EOU
	1833.31	149.10	1733.59	1684.21	18.56	OSF1.50	14740.00	11330.24				MinPt-ADP
	1843.18	159.14	1736.75	1684.04	17.47	OSF1.50	15130.00	11330.23				MinPt-ADP
	1856.60	187.62	1731.19	1668.98	14.91	OSF1.50	16170.00	11330.19				MinPt-CtCt
	1861.18	197.02	1729.50	1664.16	14.23	OSF1.50	16510.00	11330.18				MinPt-EOU
	1867.53	205.67	1730.09	1661.86	13.68	OSF1.50	16810.00	11330.17				MinPt-EOU
	1882.49	223.08	1733.44	1659.40	12.71	OSF1.50	17410.00	11330.15				MinPt-ADP
	1886.59	228.60	1733.86	1657.99	12.43	OSF1.50	17590.00	11330.14				MinPt-EOU
	1891.38	234.69	1734.60	1656.69	12.13	OSF1.50	17800.00	11330.13				MinPt-ADP
	1886.52	264.55	1709.83	1621.97	10.73	OSF1.50	18770.00	11330.10				MinPt-CtCt
	1860.36	323.63	1644.28	1536.73	8.64	OSF1.50	20670.00	11330.03				MinPt-CtCt
	1862.12	330.53	1641.44	1531.59	8.47	OSF1.50	20900.00	11330.02				MinPt-EOU
	1859.10	348.27	1626.59	1510.83	8.03	OSF1.50	21450.47	11330.00				MinPts
Oxy Stack Cats 25_36 Fed Com 313H Gyro+Corrected MWD to 23025ft (DefinitiveSurvey) - **Pass**												
	11906.65	32.81	11903.25	11873.84	8416.41	MAS = 10.00 (m)	0.00	0.00				Surface
	11906.65	32.81	11903.25	11873.84	8416.13	MAS = 10.00 (m)	23.00	23.00				WRP
	11906.47	32.81	11902.93	11873.67	7585.56	MAS = 10.00 (m)	150.00	150.00				MinPts

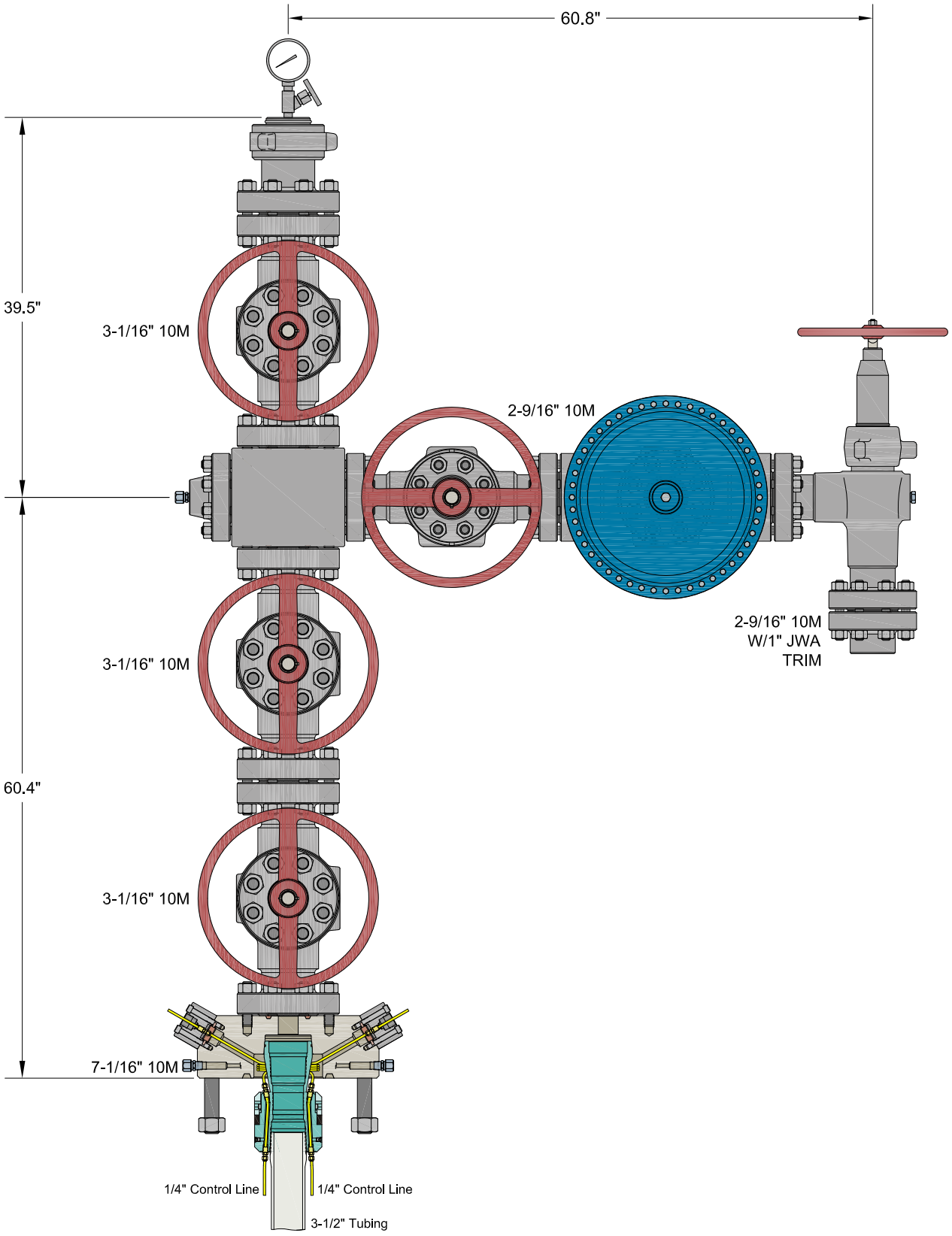
Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major	
	1232.99	168.66	1120.05	1064.33	11.05	OSF1.50	11320.00	11213.19				MinPt-SF
	1220.06	165.53	1109.21	1054.54	11.14	OSF1.50	11410.00	11257.30				MinPts
	1219.89	165.10	1109.32	1054.79	11.17	OSF1.50	11421.70	11262.11				MinPt-CtCt
	10567.08	160.37	10459.66	10406.70	99.75	OSF1.50	21450.47	11330.00				TD
Oxy Stack Cats 25-36 Fed Com 25H Rev1 LP 16Jan24 (DefinitivePlan) - **Pass**												
	10866.04	160.08	10758.96	10705.96	102.50	OSF1.50	0.00	0.00				Surface
	10843.14	160.23	10735.96	10682.91	102.19	OSF1.50	23.00	23.00				WRP
	1330.12	303.65	1127.36	1026.47	6.59	OSF1.50	10810.00	10788.64				MinPt-SF
	1329.85	303.55	1127.16	1026.30	6.59	OSF1.50	10830.00	10808.53				MinPts
	1329.83	303.49	1127.17	1026.33	6.59	OSF1.50	10837.31	10815.77				MinPt-CtCt
	10564.17	190.49	10436.85	10373.68	83.61	OSF1.50	21450.47	11330.00				TD



BOP EQUIPMENT INFORMATION

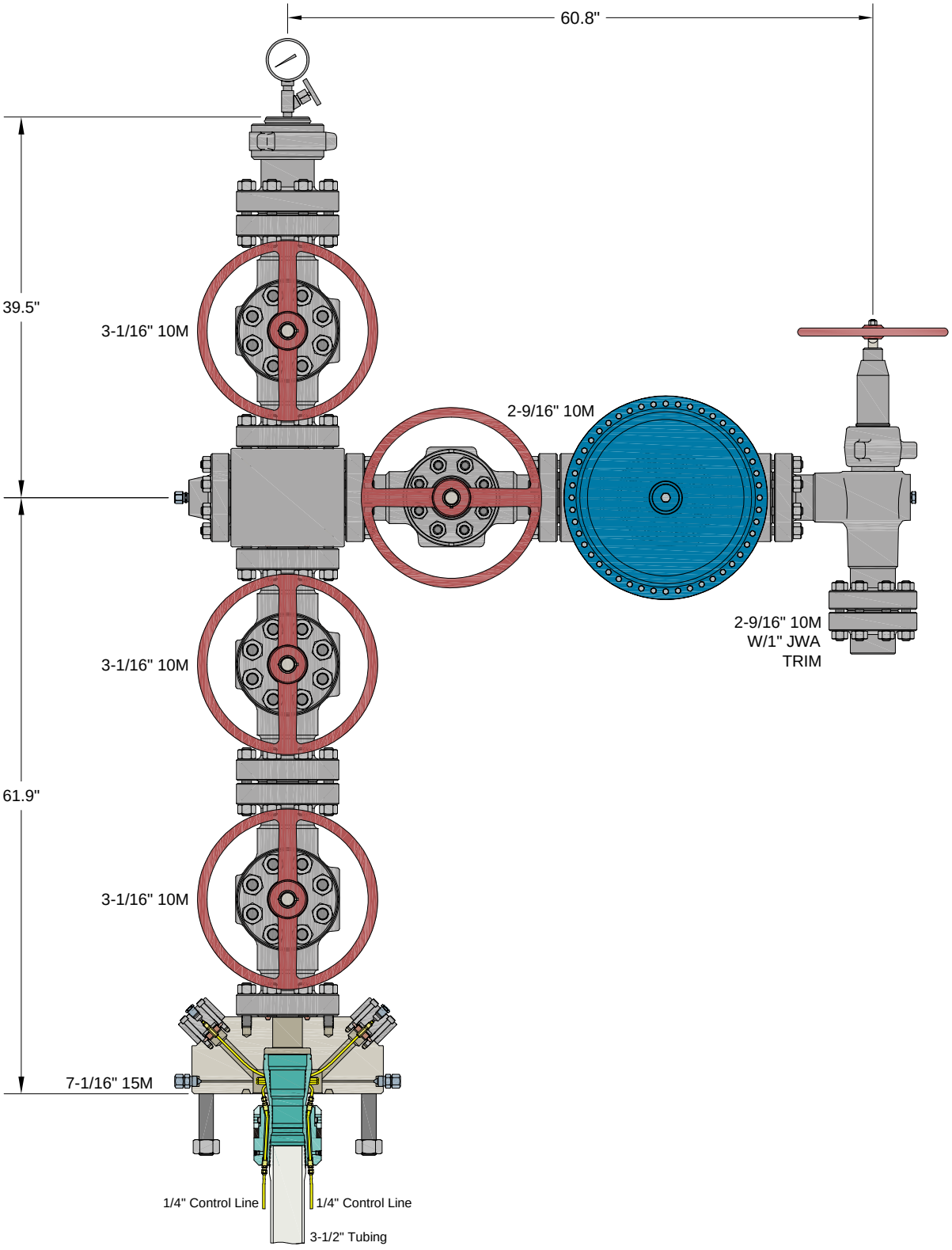
DESCRIPTION	MODEL	QTY
ANNULAR BOP	13 5/8" 5M	1
DOUBLE RAM BOP	13 5/8" 10M TYPE-U	1
MUD CROSS	13 5/8" 10M	1
SINGLE RAM BOP	13 5/8" 10M TYPE-U	1
GATE VALVE	4 1/16" 10M FC MANUAL	1
HCR VALVE	4 1/16" 10M HCR	1

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			



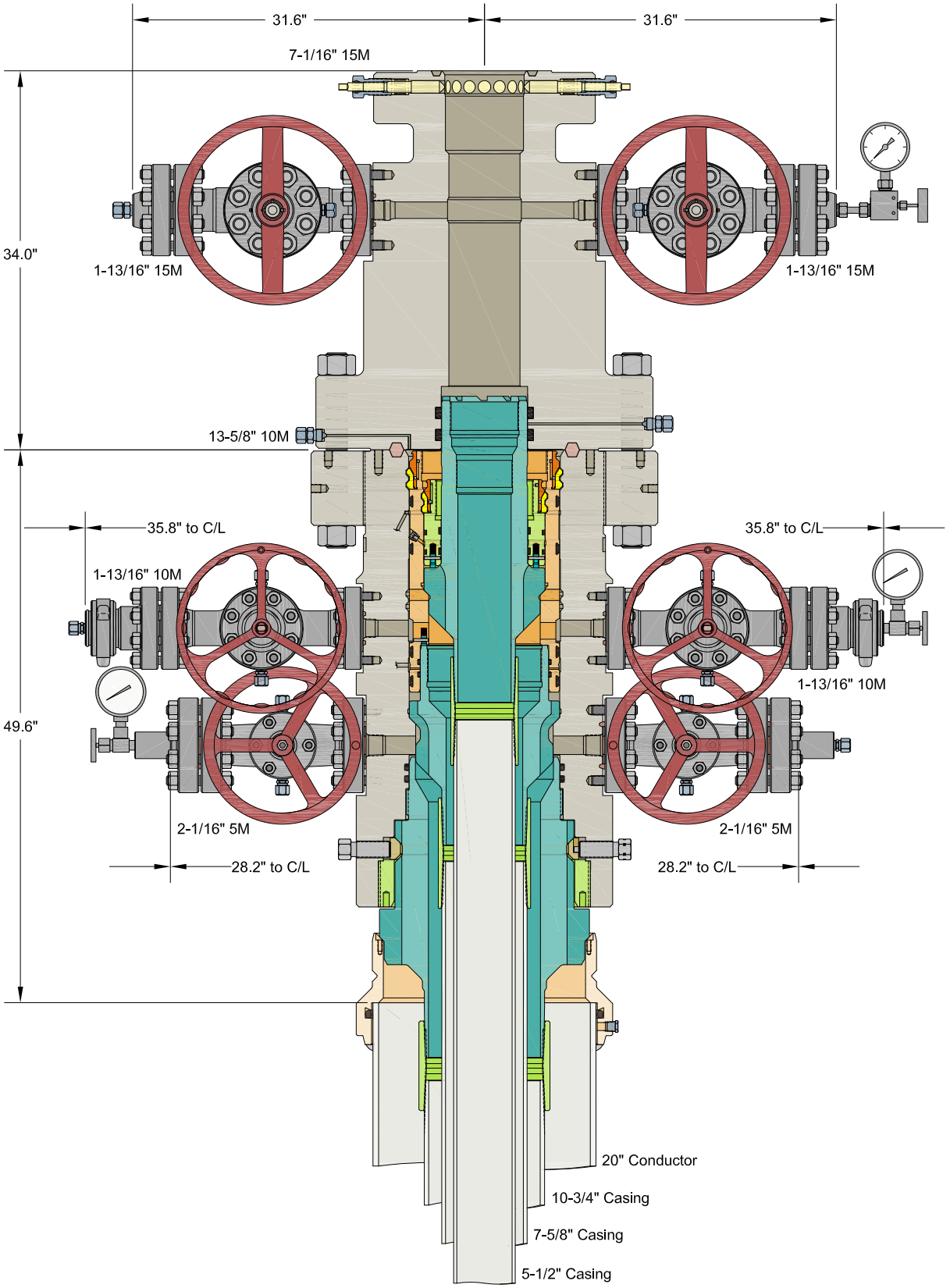
ALL DIMENSIONS APPROXIMATE

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



ALL DIMENSIONS APPROXIMATE

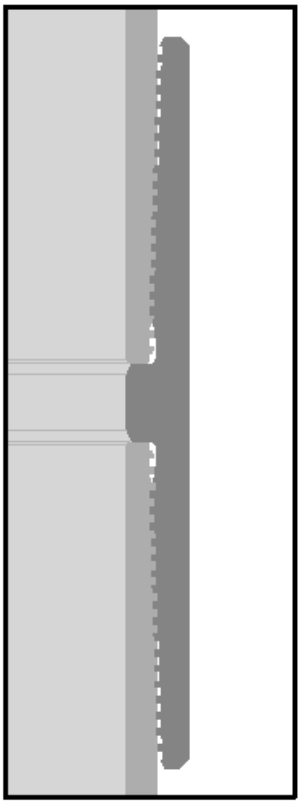
CACTUS WELLHEAD LLC	COTERRA ENERGY INC HOBBS, NM		
20" x 10-3/4" x 7-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO-SF Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And 7-5/8" & 5-1/2" Mandrel Casing Hangers	DRAWN	VJK	07JUL23
	APPRV		
	DRAWING NO.	HBE0000965	

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C-IS PLUS Casing STANDARD	5-1/2 in	23.00 lb/ft (0.415 in)	VST P110 RY

	Material
VST P110 RY	Grade
110,000	Minimum Yield Strength (psi.)
125,000	Minimum Ultimate Strength (psi.)
	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in.)
4.670	Nominal Pipe Body I.D. (in.)
0.415	Nominal Wall Thickness (in.)
23.00	Nominal Weight (lbs./ft.)
22.56	Plain End Weight (lbs./ft.)
6.630	Nominal Pipe Body Area (sq. in.)
	Pipe Body Performance Properties
729,000	Minimum Pipe Body Yield Strength (lbs.)
14,540	Minimum Collapse Pressure (psi.)
14,530	Minimum Internal Yield Pressure (psi.)
13,300	Hydrostatic Test Pressure (psi.)
	Connection Dimensions
6.300	Connection O.D. (in.)
4.670	Connection I.D. (in.)
4.545	Connection Drift Diameter (in.)
4.13	Make-up Loss (in.)
6.630	Critical Area (sq. in.)
100.0	Joint Efficiency (%)
	Connection Performance Properties
729,000	Joint Strength (lbs.)
22,640	Reference String Length (ft) 1.4 Design Factor
759,000	API Joint Strength (lbs.)
729,000	Compression Rating (lbs.)
14,540	API Collapse Pressure Rating (psi.)
14,530	API Internal Pressure Resistance (psi.)
91.7	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Approximated Field End Torque Values
17,700	Minimum Final Torque (ft.-lbs.)
20,400	Maximum Final Torque (ft.-lbs.)
23,000	Connection Yield Torque (ft.-lbs.)

VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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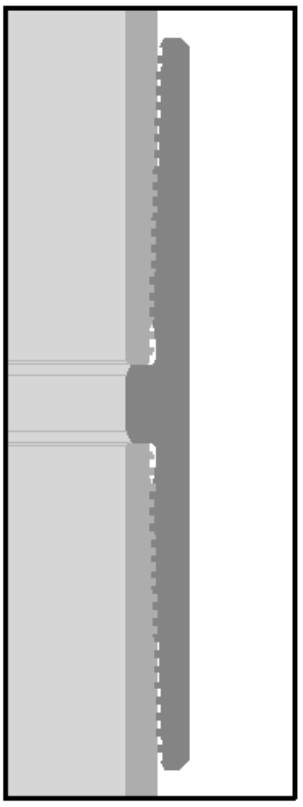
VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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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).

Coterra: H2S Plan

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

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.

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 477303
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	Any previous COA's not addressed within the updated COA's still apply.	6/20/2025