

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-52660
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Coterra Energy Operating Co.		6. State Oil & Gas Lease No.
3. Address of Operator 6001 Deauville Blvd., Suite 300N Midland, Texas 79706		7. Lease Name or Unit Agreement Name Coriander 1 12 State Com
4. Well Location Unit Letter <u>A</u> : <u>211</u> feet from the <u>N</u> line and <u>691</u> feet from the <u>E</u> line Section <u>1</u> Township <u>23S</u> Range <u>32E</u> NMPM		8. Well Number 213H
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 215099
10. Pool name or Wildcat Red Tank; Bone Spring Diamondtail; Bone Spring		

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☒	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Coterra Energy Operating Co, proposes changes:

SHL from 211 FNL/ 691 FEL to 211 FNL/ 711 FEL

TVD change from 10,760' to 10720' (MD 20872').

No other changes proposed.

Spud Date:

4/15/2025

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):

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

WELL LOCATION INFORMATION

API Number	Pool Code 17644	Pool Name DIAMONDTAIL, BONE SPRING
Property Code	Property Name CORIANDER 1-12 STATE COM	Well Number 213H
OGRID No. 215099	Operator Name COTERRA ENERGY OPERATING CO.	Ground Level Elevation 3749.2'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
1	1	23S	32E		211' NORTH	711' EAST	32.340484°	-103.622076°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
P	12	23S	32E		100' SOUTH	660' EAST	32.312311°	-103.621910°	LEA

Dedicated Acres 240	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers. Well setbacks are under Common Ownership: ☐ Yes ☐ No				

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
1	1	23S	32E		100' NORTH	660' EAST	32.340789°	-103.621911°	LEA

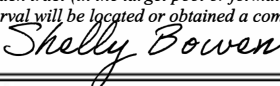
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
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Last Take Point (LTP)

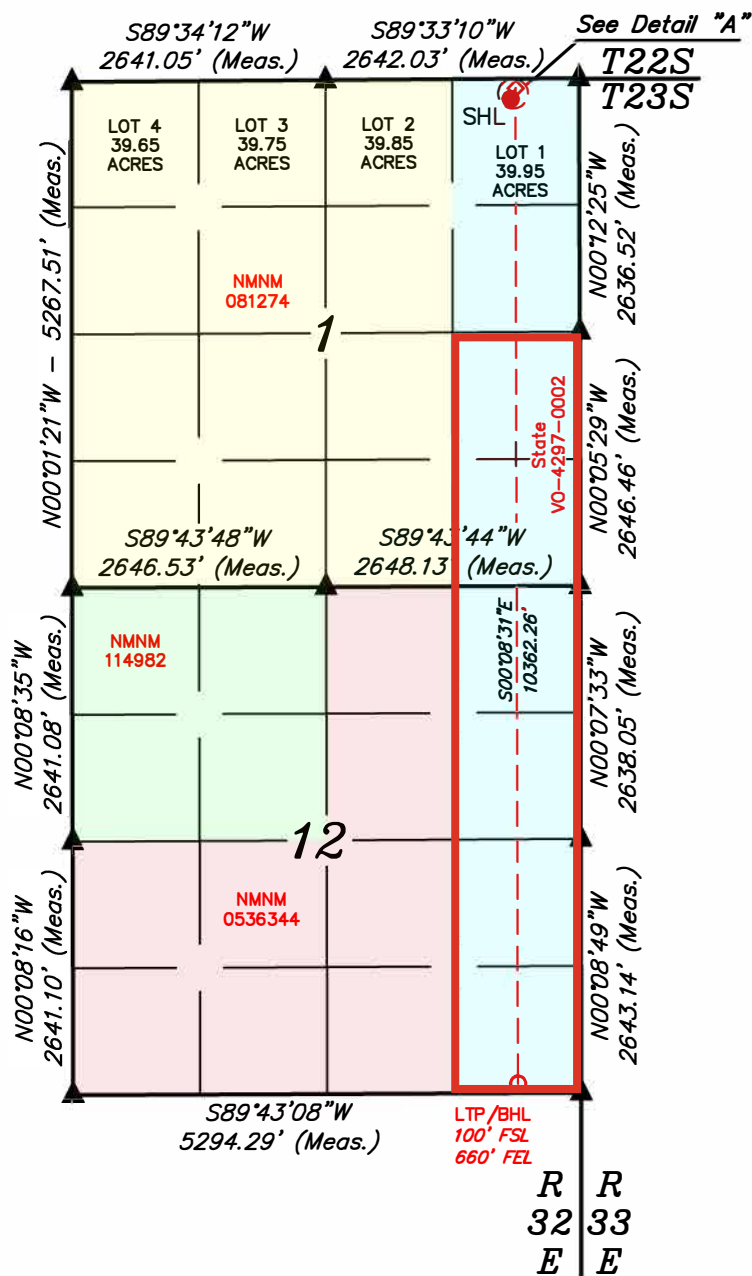
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  4/21/2025 Signature Date Shelly Bowen Printed Name shelly.bowen@coterra.com Email Address	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor 23782 September 9, 2021 Certificate Number Date of Survey
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Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

Property Name CORIANDER 1-12 STATE COM	Well Number 213H	Drawn By N.R. 10-17-23	Revised By REV. 2 E.C. 11-25-24 (UPDATE C-102 FORMAT)
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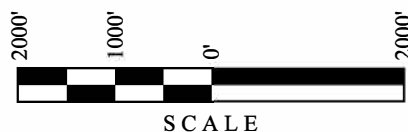
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LONGITUDE = -103°37'19.47" (-103.622076°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°20'25.30" (32.340361°)
LONGITUDE = -103°37'17.73" (-103.621592°)
STATE PLANE NAD 83 (N.M. EAST)
N: 488329.59' E: 761002.49'
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N: 488269.59' E: 719819.53'

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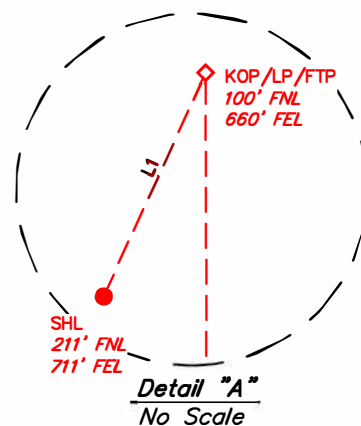
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N: 478080.50' E: 761121.93'
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N: 478020.79' E: 719938.71'

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N24°34'21"E	121.97'

- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT /FIRST TAKE POINT
- = LAST TAKE POINT/ BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED

**NOTE:**

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.



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

WELL LOCATION INFORMATION

API Number	Pool Code 51683	Pool Name RED TANK; BONE SPRING
Property Code	Property Name CORIANDER 1-12 STATE COM	Well Number 213H
OGRID No. 215099	Operator Name COTERRA ENERGY OPERATING CO.	Ground Level Elevation 3749.2'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL 1	Section 1	Township 23S	Range 32E	Lot	Ft. from N/S 211' NORTH	Ft. from E/W 711' EAST	Latitude (NAD 83) 32.340484°	Longitude (NAD 83) -103.622076°	County LEA
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Bottom Hole Location

UL P	Section 12	Township 23S	Range 32E	Lot	Ft. from N/S 100' SOUTH	Ft. from E/W 660' EAST	Latitude (NAD 83) 32.312311°	Longitude (NAD 83) -103.621910°	County LEA
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Dedicated Acres 79.95	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.		Well setbacks are under Common Ownership: ☐ Yes ☐ No		

Kick Off Point (KOP)

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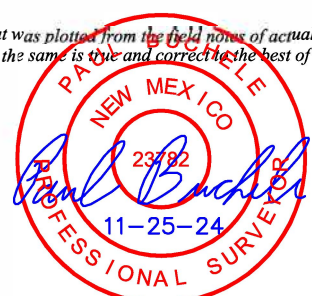
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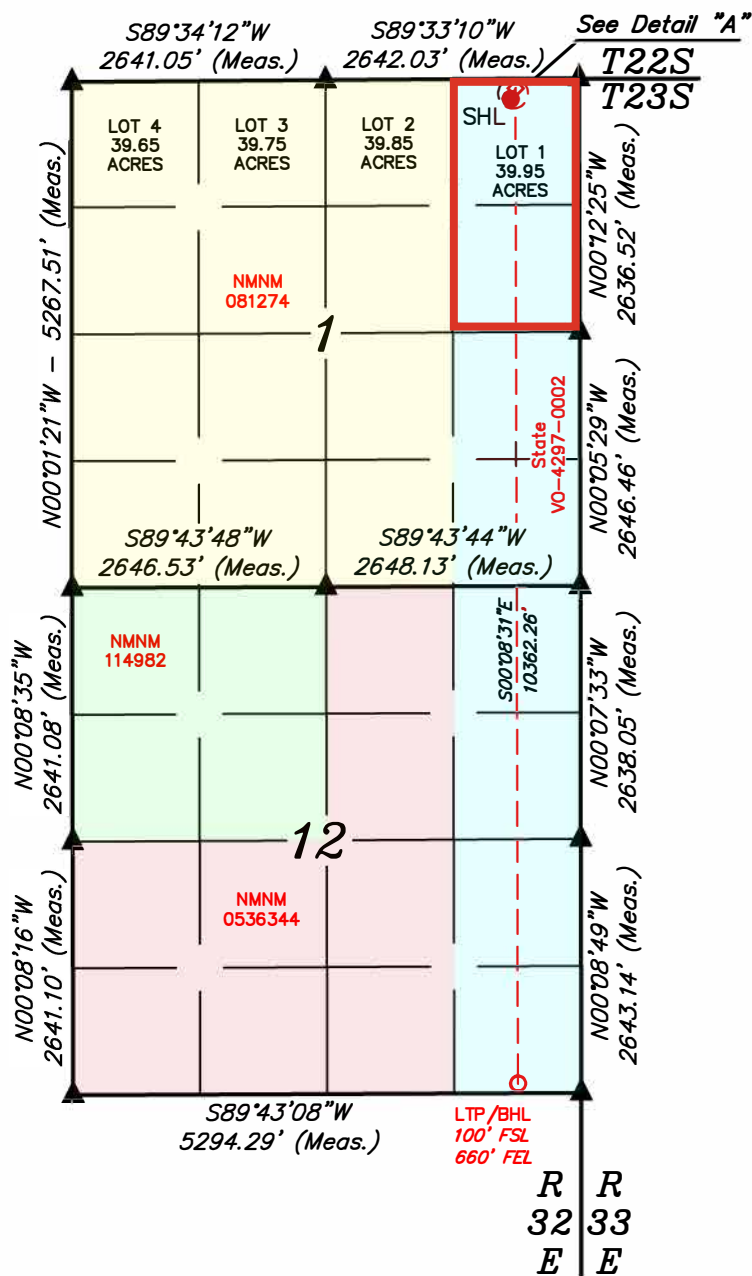
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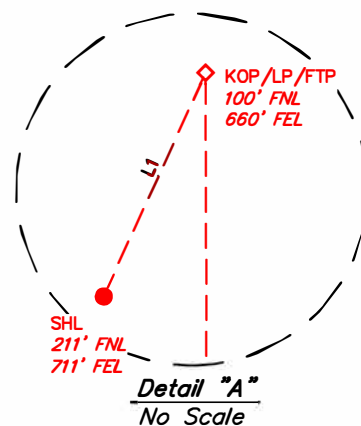
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LINE TABLE		
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1. Geological Formations

TVD of target 10,720

Pilot Hole TD N/A

MD at TD 20,872

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	
2nd Bone Spring Sand - Target	10720	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	1306	1306	13-3/8"	48.00	H-40	ST&C	1.31	3.06	5.14
12 1/4	0	4977	4967	9-5/8"	40.00	HCK-55	LT&C	1.48	1.53	2.82
8 3/4	0	10137	10137	7"						
8 3/4	10137	10887	10680	7"	29.00	L-80	BT&C	1.40	1.63	42.93
6	9637	20872	10720	4-1/2"	11.60	L-80	BT&C	1.20	1.47	21.25
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

Cimarex Energy Co., Coriander 1-12 State Com 213H

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

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	632	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	170	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	931	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	291	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	329	10.30	3.64	22.18	12	Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	513	12.90	1.88	9.65	12	Tail: 35:65 (Poz:C) + Salt + Bentonite

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	51
Production	4767	25
Completion System	10687	10

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

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min Required WP	Type		Tested To
12 1/4	13 5/8	5M	Annular	X	100% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		
8 3/4	13 5/8	5M	Annular	X	100% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6	13 5/8	5M	Annular	X	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'	Fresh Water	7.83 - 8.33	28	N/C
1306' to 4977'	Brine Water	9.50 - 10.00	30-32	N/C
4977' to 10887'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11187' to 20872'	OBM	9.00 - 9.50	50-70	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
	Will run GR/CNL from TD 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
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7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5295 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	H ₂ S is present
X	H ₂ S 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.

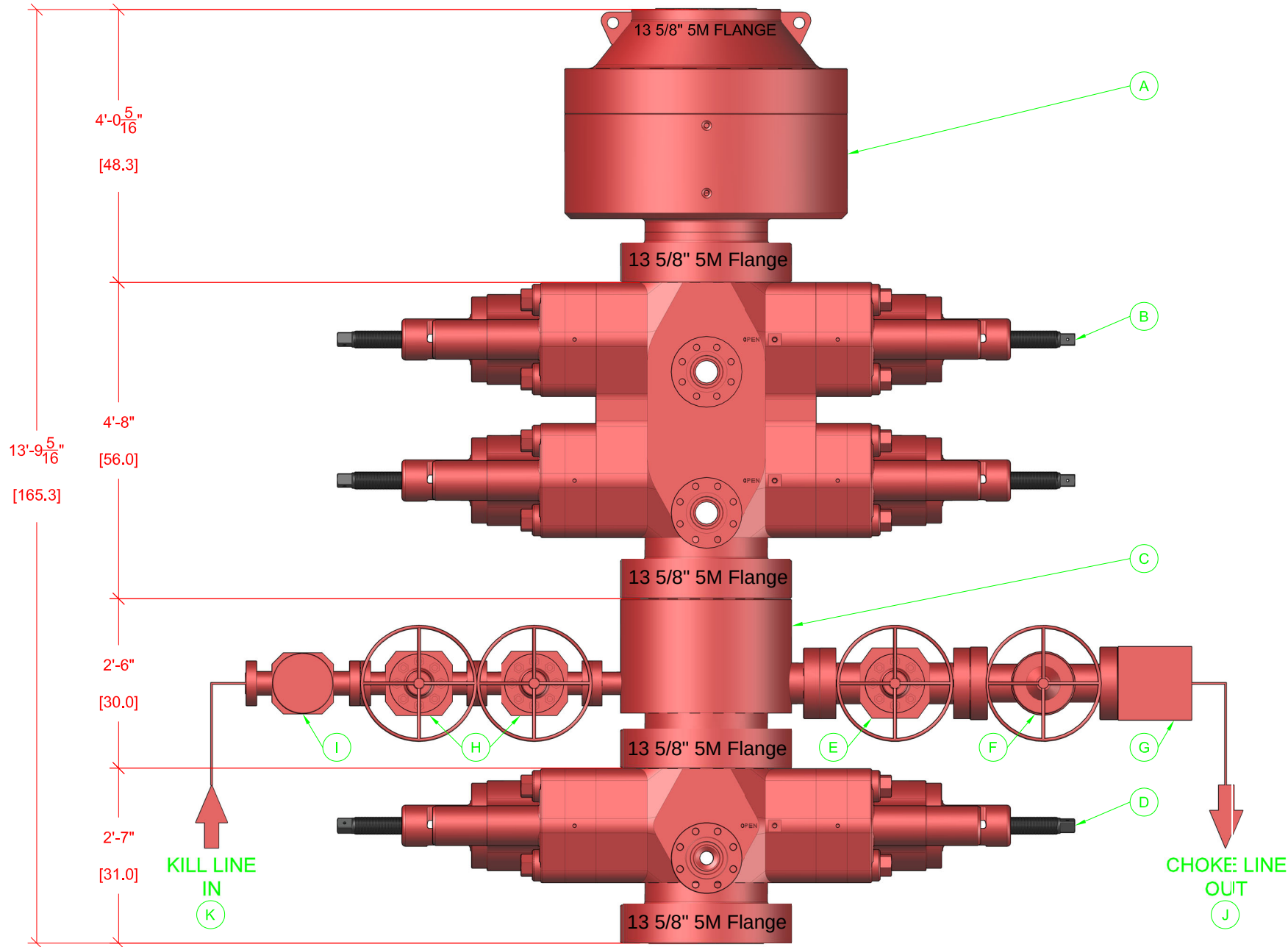
5. If well conditions dictate, conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

Wellhead

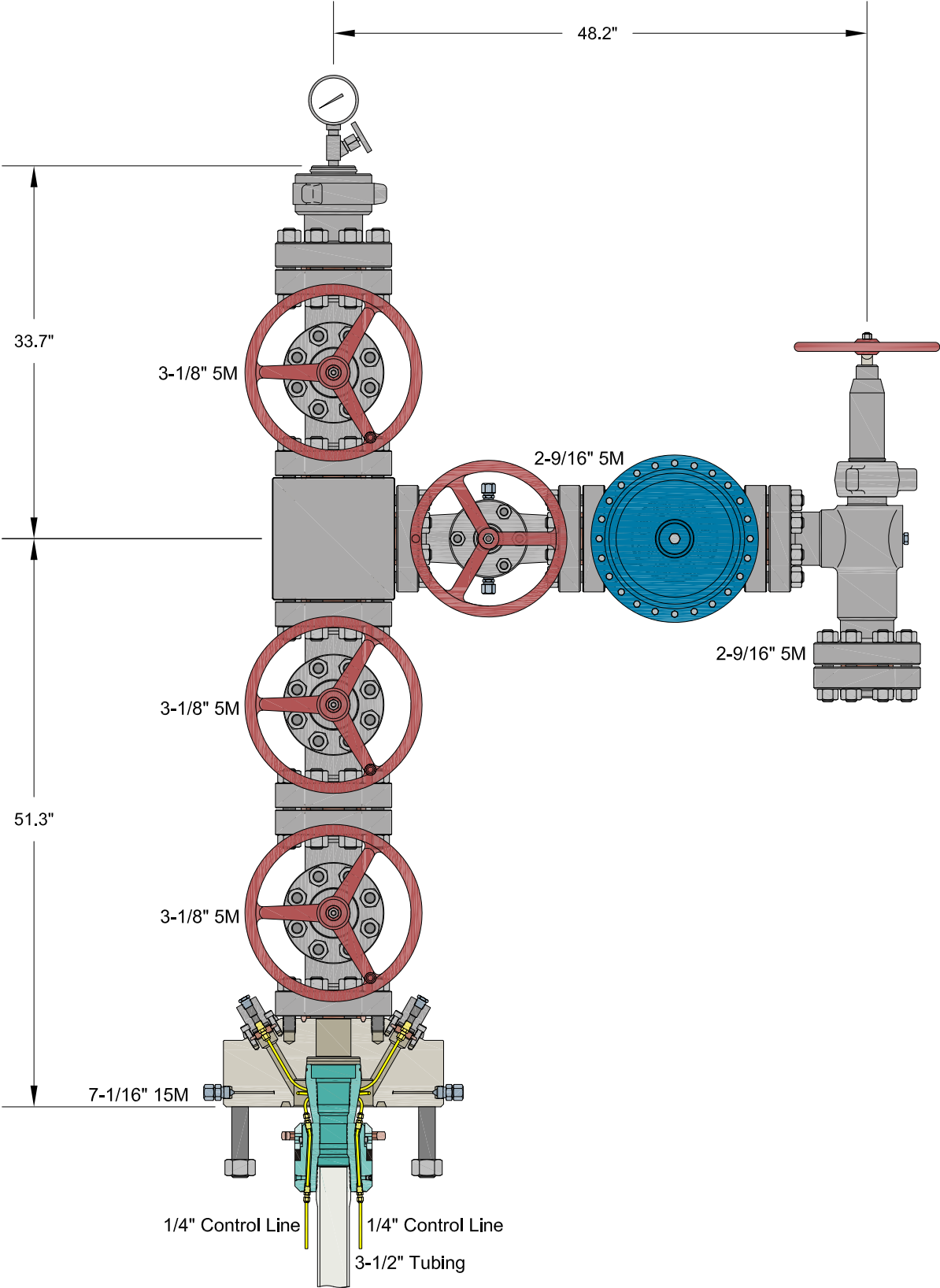
1. The multi-bowl wellhead will be installed by a vendor representative. A copy of the installation instructions has been sent to the BLM field office.

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.



BOP EQUIPMENT INFORMATION			
DESCRIPTION	MODEL	QTY	
ANNULAR BOP	13 5/8" 5M	1	
DOUBLE RAM BOP	13 5/8" 5M TYPE-U	1	
MUD CROSS	13 5/8" 5M	1	
SINGLE RAM BOP	13 5/8" 5M TYPE-U	1	
GATE VALVE	4 1/2" 5M FC MANUAL	1	



INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

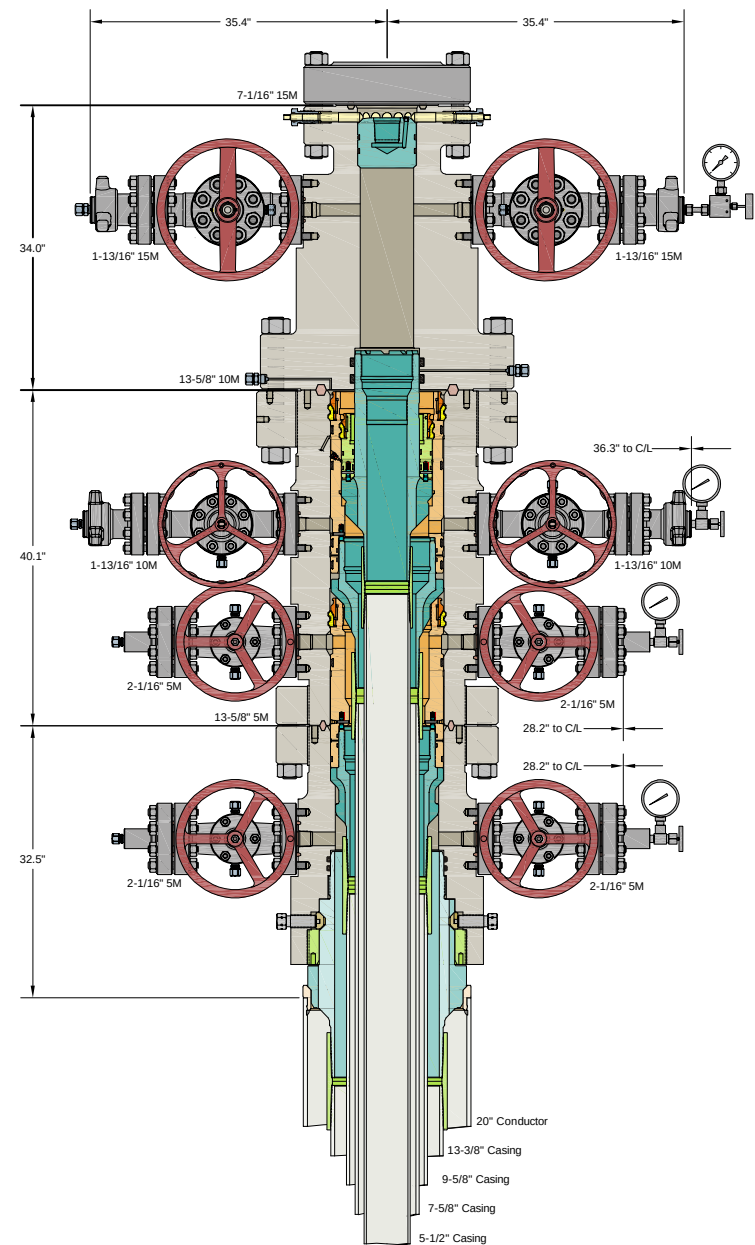
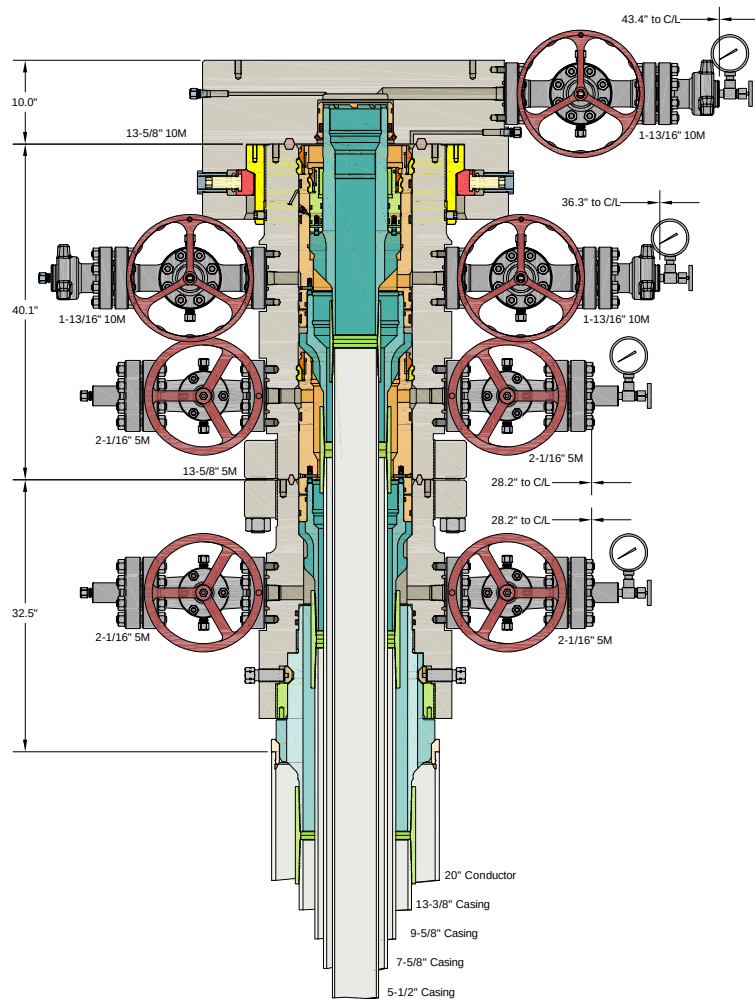
ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

7-1/16" 15M x 3-1/8" x 2-9/16" 5M Production Tree Assembly
With 7-1/16" 15M x 3-1/8" 5M T40-CCL Tubing Head Adapter
And 7-1/16" x 3-1/2" T40-CCL Tubing Hanger

DRAWN	VJK	01SEP23
APPRV		
DRAWING NO.	HBE0001017	



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

CIMAREX
HOBBS, NM

20" x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" 10M MBU-4T-CFL
Wellhead Sys. With 7-5/8" And 5-1/2" Mandrel Casing Hangers
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

DRAWN	VJK	01NOV23
APPRV		
DRAWING NO.	HBE0001077	

Coterra: H2S Plan



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

Coterra: H2S Plan

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 time
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.

Coterra: H2S Plan

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 (SO₂). 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

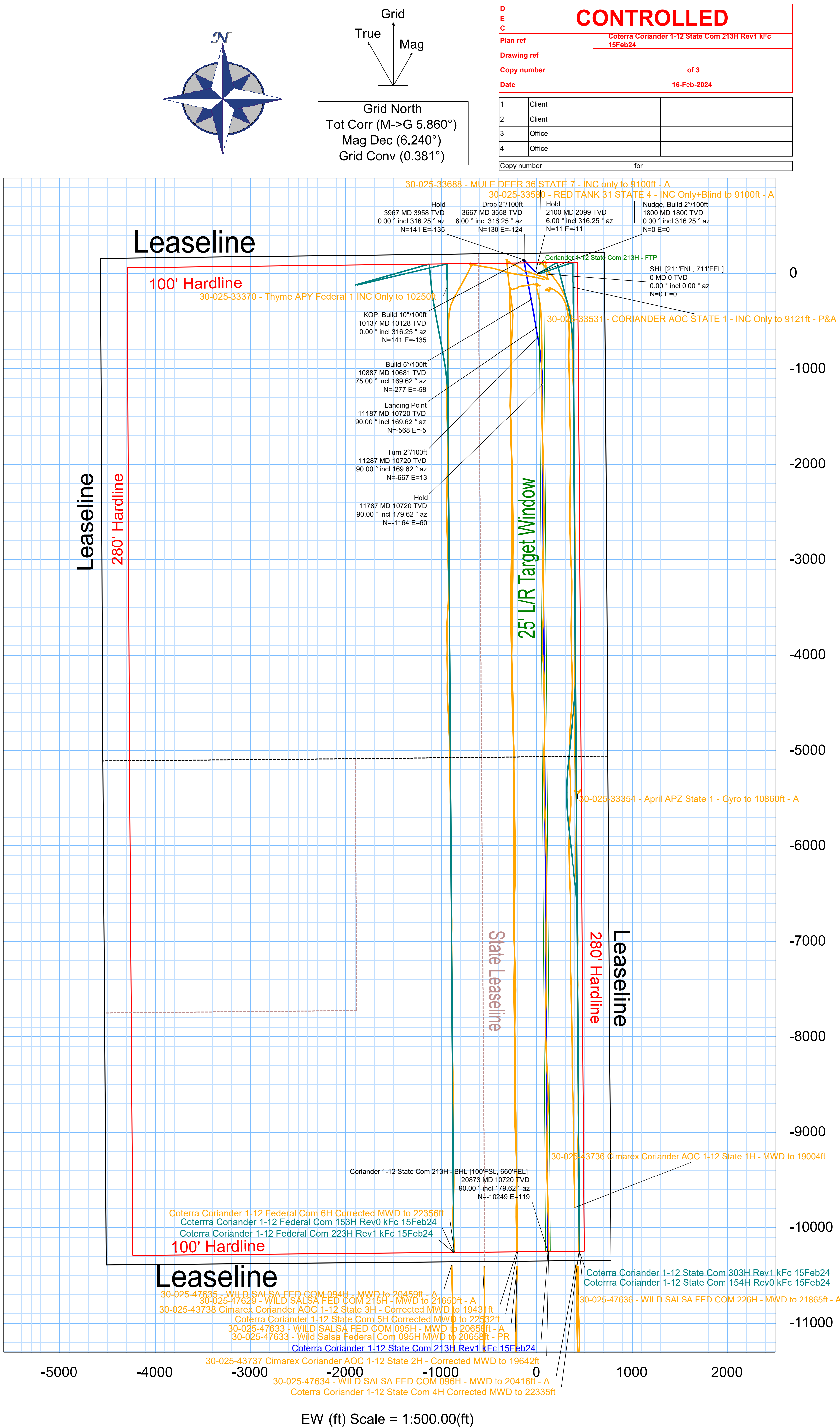
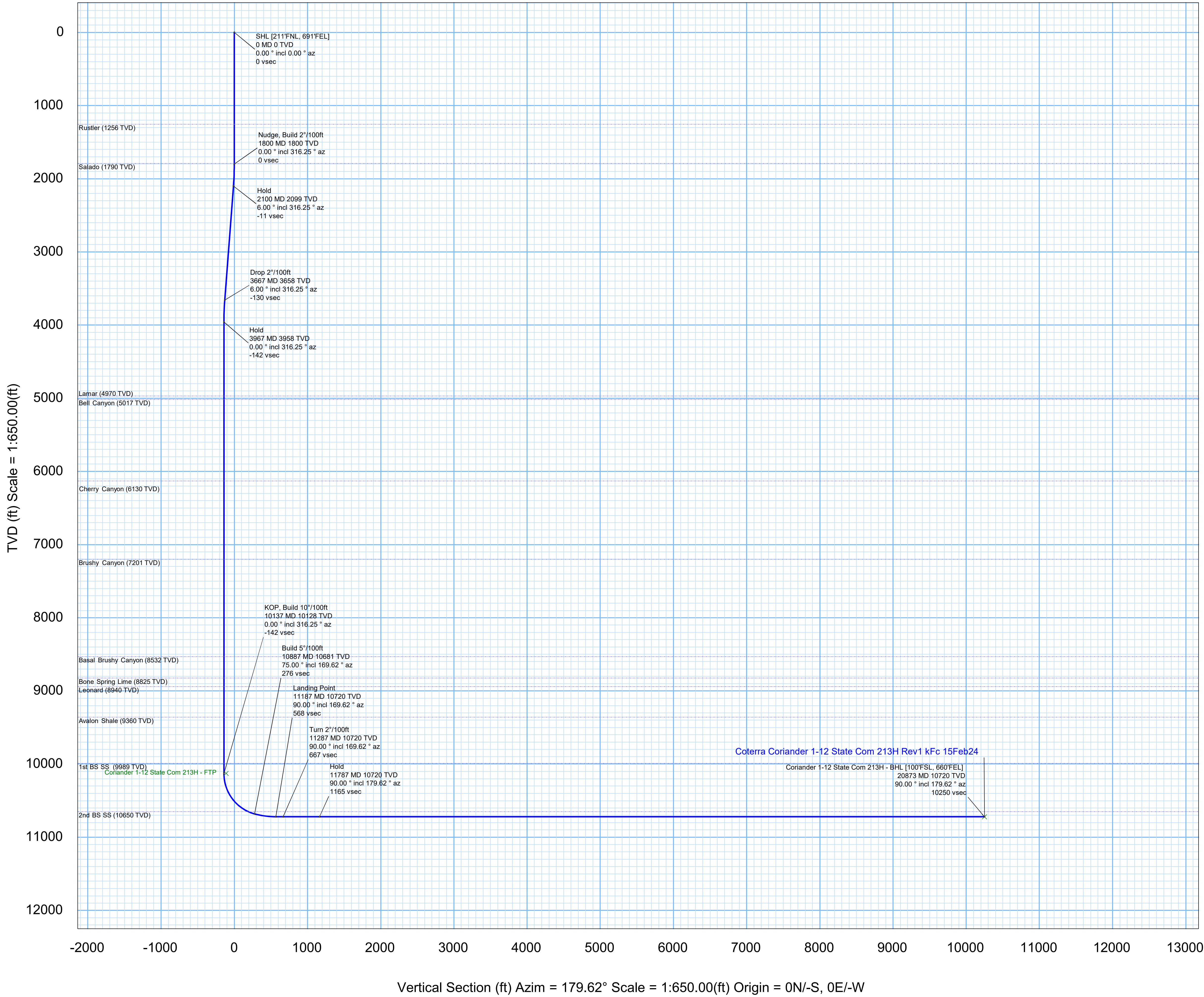
Third Party

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	Kernit	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

Borehole: Coriander 1-12 State Com 213H			Well: Coriander 1-12 State Com 213H			Field: NM Lea County (NAD 83)			Structure: Cimarex Coriander 1-12 State Com Lot 1 Pad		
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Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2024	Dip:	59.907°	Date:	15-Feb-2024	Lat:	N 32 20 25.74	Northing:	488329.59ftUS	Grid Conv:	0.3805°
MagDec:	6.24°	FS:	47468.389NT	Gravity FS:	998.44mgN (9.80665 Based)	Lon:	W 103 37 19.47	Easting:	761002.49ftUS	Scale Fact:	0.99996435
				NAD83 New Mexico State Plane, Eastern Zone, US Feet				TVD Ref: RKB (3772.200 ft above MSL)			
								Plan: Coriander 1-12 State Com 213H Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24			

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [211°FNL, 711°FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	1256.00	0.00	316.25	1256.00	0.00	0.00	0.00	0.00
Salado	1790.00	0.00	316.25	1790.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	1800.00	0.00	316.25	1800.00	0.00	0.00	0.00	0.00
Hold	2100.01	6.00	316.25	2099.46	-11.41	11.34	-10.85	2.00
Drop 2°/100ft	3667.20	6.00	316.25	3658.06	-130.48	129.66	-124.15	0.00
Hold	3967.20	0.00	316.25	3957.52	-141.89	141.00	-135.00	2.00
Lamar	4979.68	0.00	316.25	4970.00	-141.89	141.00	-135.00	0.00
Bel Canyon	5026.68	0.00	316.25	5017.00	-141.89	141.00	-135.00	0.00
Cherry Canyon	6139.68	0.00	316.25	6130.00	-141.89	141.00	-135.00	0.00
Brushy Canyon	7210.68	0.00	316.25	7201.00	-141.89	141.00	-135.00	0.00
Basal Brushy Canyon	8541.68	0.00	316.25	8532.00	-141.89	141.00	-135.00	0.00
Bone Spring Lime	8834.68	0.00	316.25	8825.00	-141.89	141.00	-135.00	0.00
Leonard	8949.68	0.00	316.25	8940.00	-141.89	141.00	-135.00	0.00
Avalon Shale	9369.68	0.00	316.25	9360.00	-141.89	141.00	-135.00	0.00
1st BS SS	9998.68	0.00	316.25	9989.00	-141.89	141.00	-135.00	0.00
KOP, Build 10°/100ft	10137.20	0.00	316.25	10127.52	-141.89	141.00	-135.00	0.00
2nd BS SS	10794.89	65.77	169.62	10650.00	190.78	-191.28	-74.12	10.00
Build 5°/100ft	10887.20	75.00	169.62	10680.95	276.32	-276.71	-58.47	10.00
Landing Point	11187.20	90.00	169.62	10720.00	568.40	-568.44	-5.02	5.00
Turn 2°/100ft	11287.20	90.00	169.62	10720.00	666.88	-666.81	13.00	0.00
Hold	11787.40	90.00	179.62	10720.00	1164.54	-1164.17	59.82	2.00
Coriander 1-12 State Com 213H - BHL [100°FSL, 660°FEL]	20872.90	90.00	179.62	10720.00	10250.04	-10249.48	119.44	0.00





Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 Proposal Geodetic

Report
Def Plan

Report Date: February 16, 2024 - 05:48 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Coriander 1-12 State Com Lot 1 Pad / Coriander 1-12 State Com
Well: Coriander 1-12 State Com 213H
Borehole: Coriander 1-12 State Com 213H
UBH / API#: Unknown / Unknown
Survey Name: Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24
Survey Date: February 16, 2024
Tort / AHD / DDI / ERD Ratio: 112.004 * / 10602.158 ft / 6.364 / 0.989
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°20'25.7436"N, 103°37'19.47436"W
Location Grid N/E Y/X: N 488329.590 I/R, E 761002.490 I/R
CRS Grid Convergence Angle: 0.381"
Grid Scale Factor: 0.99996435
Version / Patch: 2023.1.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.620 °(GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3772.200 ft above MSL
Sealed / Ground Elevation: 3749.200 ft above MSL
Magnetic Declination: 6.240"
Total Gravity Field Strength: 998.44mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47468.389 nT
Magnetic Dip Angle: 59.907°
Declination Date: February 15, 2024
Magnetic Declination Model: HDGM 2024
North Reference: Grid North
Grid Convergence Used: 0.381"
Total Corr Mag North->Grid North: 5.86"
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS ("/100ft)	BR ("/100ft)	TR ("/100ft)
SHL [211°FNL, 711°FEL]	0.00	0.00	0.00	0.00	-3.772.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621			
	100.00	0.00	316.25	100.00	-3.672.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	200.00	0.00	316.25	200.00	-3.572.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	300.00	0.00	316.25	300.00	-3.472.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	400.00	0.00	316.25	400.00	-3.372.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	500.00	0.00	316.25	500.00	-3.272.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	600.00	0.00	316.25	600.00	-3.172.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	700.00	0.00	316.25	700.00	-3.072.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	800.00	0.00	316.25	800.00	-2.972.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	900.00	0.00	316.25	900.00	-2.872.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
Rustler	1,000.00	0.00	316.25	1,000.00	-2.772.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,100.00	0.00	316.25	1,100.00	-2.672.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,200.00	0.00	316.25	1,200.00	-2.572.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,256.00	0.00	316.25	1,256.00	-2.516.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,300.00	0.00	316.25	1,300.00	-2.472.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,400.00	0.00	316.25	1,400.00	-2.372.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,500.00	0.00	316.25	1,500.00	-2.272.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,600.00	0.00	316.25	1,600.00	-2.172.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,700.00	0.00	316.25	1,700.00	-2.072.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,790.00	0.00	316.25	1,790.00	-1.982.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
Nudge, Build 2"/100ft	1,800.00	0.00	316.25	1,800.00	-1.972.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
	1,900.00	2.00	316.25	1,899.98	-1.872.22	-1.27	1.26	-1.21	488,330.85	761,001.28	32.34048783	-103.62208009	2.00	2.00	0.00
	2,000.00	4.00	316.25	1,999.84	-1.772.36	-5.07	5.04	-4.83	488,334.63	760,997.66	32.34049829	-103.62209173	2.00	2.00	0.00
	2,100.00	6.00	316.25	2,099.45	-1.672.75	-11.41	11.34	-10.85	488,340.93	760,991.64	32.34051570	-103.62211110	2.00	2.00	0.00
	2,100.01	6.00	316.25	2,099.46	-1.672.74	-11.41	11.34	-10.85	488,340.93	760,991.64	32.34051570	-103.62211111	2.00	2.00	0.00
	2,200.00	6.00	316.25	2,198.90	-1.573.30	-19.01	18.89	-18.08	488,348.48	760,984.41	32.34053658	-103.62213435	0.00	0.00	0.00
	2,300.00	6.00	316.25	2,298.36	-1.473.84	-26.60	26.44	-25.31	488,356.03	760,977.18	32.34055747	-103.62215759	0.00	0.00	0.00
	2,400.00	6.00	316.25	2,397.81	-1.374.39	-34.20	33.99	-32.54	488,363.58	760,969.95	32.34057835	-103.62218083	0.00	0.00	0.00
	2,500.00	6.00	316.25	2,497.26	-1.274.94	-41.80	41.54	-39.77	488,371.13	760,962.72	32.34059924	-103.62220407	0.00	0.00	0.00
	2,600.00	6.00	316.25	2,596.71	-1.175.49	-49.40	49.09	-47.00	488,378.68	760,955.49	32.34062012	-103.62222732	0.00	0.00	0.00
Hold	2,700.00	6.00	316.25	2,696.16	-1.076.04	-57.00	56.64	-54.23	488,386.23	760,948.26	32.34064100	-103.62225056	0.00	0.00	0.00
	2,800.00	6.00	316.25	2,795.62	-976.58	-64.59	64.19	-61.46	488,393.78	760,941.04	32.34066189	-103.62227380	0.00	0.00	0.00
	2,900.00	6.00	316.25	2,895.07	-877.13	-72.19	71.74	-68.69	488,401.33	760,933.81	32.34068277	-103.62229704	0.00	0.00	0.00
	3,000.00	6.00	316.25	2,994.52	-777.68	-79.79	79.29	-75.91	488,408.88	760,926.58	32.34070366	-103.62232029	0.00	0.00	0.00
	3,100.00	6.00	316.25	3,093.97	-678.23	-87.39	86.84	-83.14	488,416.43	760,919.35	32.34072454	-103.62234353	0.00	0.00	0.00
	3,200.00	6.00	316.25	3,193.43	-578.77	-94.99	94.39	-90.37	488,423.98	760,912.12	32.34074543	-103.62236677	0.00	0.00	0.00
	3,300.00	6.00	316.25	3,292.88	-479.32	-102.58	101.94	-97.60	488,431.53	760,904.89	32.34076631	-103.62239001	0.00	0.00	0.00
	3,400.00	6.00	316.25	3,392.33	-379.87	-110.18	109.49	-104.83	488,439.08	760,897.66	32.34078719	-103.62241325	0.00	0.00	0.00
	3,500.00	6.00	316.25	3,491.78	-280.42	-117.78	117.04	-112.06	488,446.63	760,890.43	32.34080808	-103.62243650	0.00	0.00	0.00
	3,600.00	6.00	316.25	3,591.23	-180.97	-125.38	124.59	-119.29	488,454.18	760,883.21	32.34082896	-103.62245974	0.00	0.00	0.00
Drop 2"/100ft	3,667.20	6.00	316.25	3,658.06	-114.14	-130.48	129.66	-124.15	488,459.25	760,878.35	32.34084300	-103.62247536	0.00	0.00	0.00
	3,700.00	5.34	316.25	3,690.71	-81.49	-132.84	132.01	-126.39	488,461.59	760,876.11	32.34084947	-103.62248257	2.00	-2.00	0.00
	3,800.00	3.34	316.25	3,790.41	18.21	-138.35	137.48	-131.63	488,467.06	760,870.87	32.34086461	-103.62249841	2.00	-2.00	0.00
	3,900.00	1.34	316.25	3,890.32	118.12	-141.32	140.43	-134.45	488,470.02	760,868.04	32.34087278	-103.62250850	2.00	-2.00	0.00
	3,967.20	0.00	316.25	3,957.52	185.32	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	2.00	-2.00	0.00
	4,000.00	0.00	316.25	3,990.32	218.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,100.00	0.00	316.25	4,090.32	318.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,200.00	0.00	316.25	4,190.32	418.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,300.00	0.00	316.25	4,290.32	518.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,400.00	0.00	316.25	4,390.32	618.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
Lamar	4,500.00	0.00	316.25	4,490.32	718.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,600.00	0.00	316.25	4,590.32	818.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,700.00	0.00	316.25	4,690.32	918.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,800.00	0.00	316.25	4,790.32	1,018.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,900.00	0.00	316.25	4,890.32	1,118.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	4,979.68	0.00	316.25	4,970.00	1,197.80	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	5,000.00	0.00	316.25	4,990.32	1,218.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	5,026.68	0.00	316.25	5,017.00	1,244.80	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	5,100.00	0.00	316.25	5,090.32	1,318.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	5,200.00	0.00	316.25	5,											

Comments	MD (ft)	Incl (°)	Azin (°)	TVD (ft)	TVSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)
Avalon Shale	9,100.00	0.00	316.25	9,090.32	5,318.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,200.00	0.00	316.25	9,190.32	5,418.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,300.00	0.00	316.25	9,290.32	5,518.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,369.68	0.00	316.25	9,360.00	5,587.80	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,400.00	0.00	316.25	9,390.32	5,618.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,500.00	0.00	316.25	9,490.32	5,718.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,600.00	0.00	316.25	9,590.32	5,818.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,700.00	0.00	316.25	9,690.32	5,918.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,800.00	0.00	316.25	9,790.32	6,018.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	9,900.00	0.00	316.25	9,890.32	6,118.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
1st BS SS	9,998.68	0.00	316.25	9,989.00	6,216.80	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
KOP, Build 10"/100ft	10,000.00	0.00	316.25	9,990.32	6,218.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	10,100.00	0.00	316.25	10,090.32	6,318.12	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	10,137.20	0.00	316.25	10,127.52	6,355.32	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
	10,200.00	6.28	169.62	10,190.19	6,417.99	-138.51	137.62	-134.38	488,467.20	760,868.11	32.34060505	-103.62250832	10.00	10.00	0.00
	10,300.00	16.28	169.62	10,288.14	6,515.94	-119.27	118.40	-130.86	488,447.99	760,871.64	32.34081217	-103.62249733	10.00	10.00	0.00
	10,400.00	26.28	169.62	10,381.20	6,609.00	-83.57	82.75	-124.33	488,412.34	760,878.17	32.34071405	-103.62247695	10.00	10.00	0.00
	10,500.00	36.28	169.62	10,466.56	6,694.36	-32.51	31.74	-114.98	488,361.33	760,887.51	32.34057369	-103.62244779	10.00	10.00	0.00
	10,600.00	46.28	169.62	10,541.61	6,769.41	32.38	-33.07	-103.11	488,296.52	760,899.39	32.34039534	-103.62241074	10.00	10.00	0.00
	10,700.00	56.28	169.62	10,604.08	6,831.88	109.12	-109.71	-89.06	488,219.88	760,913.43	32.34018442	-103.62236692	10.00	10.00	0.00
	10,794.89	66.28	169.62	10,659.00	6,877.80	190.78	-126.48	-74.12	488,138.32	760,926.37	32.33995998	-103.62232029	10.00	10.00	0.00
2nd BS SS	10,800.00	66.28	169.62	10,652.07	6,879.87	195.38	-195.87	-73.28	488,133.73	760,929.21	32.33994733	-103.62231767	10.00	10.00	0.00
Build 5"/100ft	10,887.20	75.00	169.62	10,680.95	6,908.75	276.32	-276.71	-58.47	488,052.89	760,944.03	32.33972486	-103.62227145	10.00	10.00	0.00
Landing Point	10,900.00	75.64	169.62	10,684.20	6,912.00	288.51	-288.89	-56.23	488,040.71	760,946.26	32.33969135	-103.62226448	5.00	5.00	0.00
	11,000.00	80.64	169.62	10,704.74	6,932.54	384.86	-385.12	-38.60	487,944.48	760,963.89	32.33942652	-103.62220947	5.00	5.00	0.00
	11,100.00	85.64	169.62	10,716.68	6,944.48	482.60	-482.75	-20.72	487,846.86	760,981.77	32.33915786	-103.62215367	5.00	5.00	0.00
	11,187.20	90.00	169.62	10,720.00	6,947.80	568.40	-568.44	-5.02	487,761.17	760,997.47	32.33892526	-103.62210489	5.00	5.00	0.00
	11,200.00	90.00	169.62	10,720.00	6,947.80	581.00	-581.03	7.12	487,748.58	760,999.77	32.33887841	-103.62209748	5.00	5.00	0.00
	11,287.20	90.00	169.62	10,720.00	6,947.80	666.88	-666.81	13.00	487,662.81	761,015.45	32.33865137	-103.62204887	0.00	0.00	0.00
	11,300.00	90.00	169.88	10,720.00	6,947.80	679.49	-679.40	15.27	487,650.22	761,017.76	32.33861671	-103.62204137	2.00	0.00	2.00
	11,400.00	90.00	171.88	10,720.00	6,947.80	778.32	-778.13	31.13	487,551.49	761,033.62	32.33834506	-103.62199216	2.00	0.00	2.00
	11,500.00	90.00	173.88	10,720.00	6,947.80	877.62	-877.35	43.53	487,452.27	761,046.02	32.33807211	-103.62195414	2.00	0.00	2.00
	11,600.00	90.00	175.88	10,720.00	6,947.80	977.27	-976.95	52.46	487,352.68	761,054.95	32.33779821	-103.62192737	2.00	0.00	2.00
Hold	11,700.00	90.00	177.88	10,720.00	6,947.80	1,077.15	-1,076.75	57.91	487,252.84	761,060.40	32.33752368	-103.62191187	2.00	0.00	2.00
	11,787.40	90.00	179.88	10,720.00	6,947.80	1,164.54	-1,164.17	59.82	487,165.46	761,062.31	32.33728348	-103.62190758	2.00	0.00	2.00
	11,800.00	90.00	179.62	10,720.00	6,947.80	1,177.14	-1,176.77	59.90	487,152.87	761,062.39	32.33724885	-103.62190758	0.00	0.00	0.00
	11,900.00	90.00	179.62	10,720.00	6,947.80	1,277.14	-1,276.77	60.56	487,052.87	761,063.04	32.33697399	-103.62190761	0.00	0.00	0.00
	12,000.00	90.00	179.62	10,720.00	6,947.80	1,377.14	-1,376.76	61.21	486,952.88	761,063.70	32.33669913	-103.62190763	0.00	0.00	0.00
	12,100.00	90.00	179.62	10,720.00	6,947.80	1,477.14	-1,476.76	61.87	486,852.88	761,064.36	32.33642427	-103.62190766	0.00	0.00	0.00
	12,200.00	90.00	179.62	10,720.00	6,947.80	1,577.14	-1,576.76	62.53	486,752.89	761,065.01	32.33614941	-103.62190769	0.00	0.00	0.00
	12,300.00	90.00	179.62	10,720.00	6,947.80	1,677.14	-1,676.76	63.18	486,652.89	761,065.67	32.33587455	-103.62190771	0.00	0.00	0.00
	12,400.00	90.00	179.62	10,720.00	6,947.80	1,777.14	-1,776.76	63.84	486,552.90	761,066.33	32.33559969	-103.62190774	0.00	0.00	0.00
	12,500.00	90.00	179.62	10,720.00	6,947.80	1,877.14	-1,876.75	64.49	486,452.91	761,066.98	32.33532485	-103.62190776	0.00	0.00	0.00
2nd BS SS	12,600.00	90.00	179.62	10,720.00	6,947.80	1,977.14	-1,976.75	65.15	486,352.91	761,067.64	32.33504997	-103.62190779	0.00	0.00	0.00
	12,700.00	90.00	179.62	10,720.00	6,947.80	2,077.14	-2,076.75	65.81	486,252.92	761,068.29	32.33477511	-103.62190781	0.00	0.00	0.00
	12,800.00	90.00	179.62	10,720.00	6,947.80	2,177.14	-2,176.75	66.46	486,152.92	761,068.95	32.33450025	-103.62190784	0.00	0.00	0.00
	12,900.00	90.00	179.62	10,720.00	6,947.80	2,277.14	-2,276.75	67.12	486,052.93	761,069.61	32.33422539	-103.62190786	0.00	0.00	0.00
	13,000.00	90.00	179.62	10,720.00	6,947.80	2,377.14	-2,376.74	67.78	485,952.94	761,070.26	32.33395053	-103.62190789	0.00	0.00	0.00
	13,100.00	90.00	179.62	10,720.00	6,947.80	2,477.14	-2,476.74	68.43	485,852.94	761,070.92	32.33367567	-103.62190791	0.00	0.00	0.00
	13,200.00	90.00	179.62	10,720.00	6,947.80	2,577.14	-2,576.74	69.09	485,752.95	761,071.58	32.33340081	-103.62190794	0.00	0.00	0.00
	13,300.00	90.00	179.62	10,720.00	6,947.80	2,677.14	-2,676.74	69.74	485,652.95	761,072.23	32.33312595	-103.62190797	0.00	0.00	0.00
	13,400.00	90.00	179.62	10,720.00	6,947.80	2,777.14	-2,776.73	70.40	485,552.96	761,072.89	32.33285109	-103.62190799	0.00	0.00	0.00
	13,500.00	90.00	179.62	10,720.00	6,947.80	2,877.14									

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)
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	10,100.000	1/100.000	5 – 12.25	8.75 3.375 – 9.625	– 7	A001Mb_MWD		Coriander 1-12 State Com 213H / Coterra Coriander					
	1	10,100.000	20,869.282	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Coriander 1-12 State Com 213H / Coterra Coriander					
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												
20,872.902	6.000		4.500												

Schlumberger

Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 Proposal Geodetic Report

Def Plan

Report Date:

Client:

Field:

Structure / Slot:

Well:

Borehole:

UBHI / API#:

Survey Name:

Survey Date:

Tort / AHD / DDI / ERD Ratio:

Coordinate Reference System:

Location Lat / Long:

Location Grid NIE YX:

CRS Grid Convergence Angle:

Grid Scale Factor:

Version / Patch:

February 16, 2024 - 05:49 PM (UTC 0)

COTERRA

NM Lea County (NAD 83)

Cimarex Coriander 1-12 State Com Lot 1 Pad / Coriander 1-12 State

Coriander 1-12 State Com 213H

Coriander 1-12 State Com 213H

Unknown / Unknown

Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24

February 16, 2024

112.004 " / 10602.158 ft / 6.364 / 0.989

NAD83 New Mexico State Plane, Eastern Zone, US Feet

32°29'25.74364"N , 103°37'19.47436"W

N 488329.590 RUS , E 761002.490 RUS

0.381°

0.99996435

2023.1.0.1

Survey / DLS Computation:

Vertical Section Azimuth:

Vertical Section Origin:

TVD Reference Datum:

TVD Reference Elevation:

Seabed / Ground Elevation:

Magnetic Declination:

Total Gravity Field Strength:

Gravity Model:

Total Magnetic Field Strength:

Magnetic Dip Angle:

Declination Date:

Magnetic Declination Model:

North Reference:

Grid Convergence Used:

Total Corr Mag North→Grid North:

Local Coord Referenced To:

Minimum Curvature / Lubinski

179.620 °(GRID North)

0.000 ft, 0.000 ft

RKB

3772.200 ft above MSL

3749.200 ft above MSL

6.240°

996.44mgm (9.80665 Based)

GARM

47468.389 nT

59.907°

February 15, 2024

HOGM 2024

Grid North

0.381°

5.86°

Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [211°FNL, 711°FEL]	0.00	0.00	0.00	0.00	-3,772.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621			
Nudge, Build 2"/100ft	1,800.00	0.00	316.25	1,800.00	-1,972.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
Hold	2,100.01	6.00	316.25	2,099.46	-1,672.74	-11.41	11.34	-10.85	488,340.93	760,991.64	32.34051570	-103.62211111	2.00	2.00	0.00
Drop 2"/100ft	3,667.20	6.00	316.25	3,658.06	-114.14	-130.48	129.66	-124.15	488,459.25	760,878.35	32.34084300	-103.62247536	0.00	0.00	0.00
Hold	3,967.20	0.00	316.25	3,957.52	185.32	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	2.00	-2.00	0.00
KOP, Build 10"/100ft	10,137.20	0.00	316.25	10,127.52	6,355.32	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
Build 5"/100ft	10,887.20	75.00	169.62	10,680.95	6,908.75	276.32	-276.71	-58.47	488,052.89	760,944.03	32.33972486	-103.62271145	10.00	10.00	0.00
Landing Point	11,187.20	90.00	169.62	10,720.00	6,947.80	568.40	-568.44	-5.02	487,761.17	760,997.47	32.33892205	-103.62210469	5.00	5.00	0.00
Turn 2"/100ft	11,287.20	90.00	169.62	10,720.00	6,947.80	666.88	-666.81	13.00	487,662.81	761,015.49	32.33865137	-103.62204847	0.00	0.00	0.00
Hold	11,787.40	90.00	179.62	10,720.00	6,947.80	1,164.54	-1,164.17	59.82	487,165.46	761,062.31	32.33728348	-103.62190758	2.00	0.00	2.00
Coriander 1-12 State Com 213H - BHL [100°FSL, 660°FEL]	20,872.90	90.00	179.62	10,720.00	6,947.80	10,250.04	-10,249.48	119.44	478,080.50	761,121.93	32.31231101	-103.62190984	0.00	0.00	0.00

Survey Type:

Def Plan

Survey Error Model:

Survey Program:

ISCSWAO 3 - D 95 % Confidence 2.7955 sigma

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	10,100.000	1/100.000 '5 – 12.25 – 8.75 3.375 – 9.625 – 7				A001Mb_MWD		Coriander 1-12 State Com 213H / Coterra Coriander
	1	10,100.000	20,869.282	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Coriander 1-12 State Com 213H / Coterra Coriander

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	
20,872.902	6.000	4.500	



Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 Anti-Collision Summary Report

Analysis Date-24hr Time: February 16, 2024 - 05:48 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure: Cimarex Coriander 1-12 State Com Lot 1 Pad
Slot: Coriander 1-12 State Com 213H
Well: Coriander 1-12 State Com 213H
Borehole: Coriander 1-12 State Com 213H
Scan MD Range: 0.00ft ~ 20872.90ft

Analysis Method: 3D Least Distance
Reference Trajectory: Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 (Def Plan)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: NAL Procedure: D&M AntiCollision Standard S002
Min Pts: Absolute minima indicated.
Engine Version: 2023.1.0.1
Database 1 Project: Coriander 1-12 State Com 213H-COTERRA

Trajectory Error Model: ISCSWA0 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

21 out of 40 are selected

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		

Results highlighted in red: Sep-Factor <= 1.5

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

30-025-33580 - RED TANK 31 STATE 4 - INC Only+Blind to 9100ft - A (DefinitiveSurvey) Fail Major

1152.58	32.81	1150.60	1119.77	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
1152.19	32.81	1150.17	1119.39	27516.32	MAS = 10.00 (m)	20.00	20.00					MinPt-SF
1152.17	32.81	1150.15	1119.36	31728.06	MAS = 10.00 (m)	23.00	23.00					WRP
1152.13	95.37	1087.97	1056.76	18.43	OSF1.50	1800.00	1800.00					MinPt-CtCt
1183.69	154.54	1080.07	1029.15	11.60	OSF1.50	2880.00	2875.18					MinPt-EOU
1222.51	368.17	976.52	854.34	5.00	OSF1.50	6010.00	6000.32	OSF<5.00				Enter Alert
1222.51	1236.03	397.95	-13.52	1.48	OSF1.50	8200.00	8190.32		OSF<1.50			Enter Minor
1222.51	1846.48	-9.02	-623.97	0.99	OSF1.50	8510.00	8500.32			OSF<1.00		Enter Major
1222.55	3128.46	-863.63	-1906.91	0.59	OSF1.50	9150.00	9140.32					MinPts
1592.08	2403.54	-10.82	-811.46	0.99	OSF1.50	10160.00	10150.31			OSF>1.00		Exit Major
2051.23	2053.35	681.79	2.12	1.50	OSF1.50	10880.00	10679.05		OSF>1.50			Exit Minor
2230.98	2196.86	765.87	34.13	1.52	OSF1.50	11290.00	10720.00					MinPts
2240.00	2205.81	768.96	34.19	1.52	OSF1.50	11310.00	10720.00					MinPt-ADP
2249.23	2214.94	772.11	34.29	1.52	OSF1.50	11330.00	10720.00					MinPt-SF
10295.48	3092.26	8233.47	7203.21	5.00	OSF1.50	20230.00	10720.00	OSF>5.00				Exit Alert
10928.36	3096.58	8863.47	7831.78	5.30	OSF1.50	20872.90	10720.00					TD

Coterra Coriander 1-12 State Com 154H Rev0 kFc 15Feb24 (DefinitivePlan) Fail Minor

19.99	16.25	18.71	3.74	N/A	MAS = 4.95 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert
19.99	16.25	18.71	3.74	N/A	MAS = 4.95 (m)	23.00	23.00					WRP
19.99	19.75	6.39	0.24	1.52	OSF1.50	1290.00	1290.00					MinPts
19.99	20.05	6.30	-0.06	1.50	OSF1.50	1330.00	1330.00	OSF<1.50				Enter Minor
19.99	27.12	1.59	-7.13	1.09	OSF1.50	1800.00	1800.00					MinPt-CtCt
20.16	27.72	1.38	-7.53	1.08	OSF1.50	1840.00	1840.00					MinPts
20.43	28.02	1.42	-7.55	1.08	OSF1.50	1860.00	1860.00					MinPt-ADP
30.71	31.14	9.63	-0.42	1.48	OSF1.50	2070.00	2069.60	OSF>1.50				Exit Minor
33.91	31.58	12.53	2.33	1.61	OSF1.50	2100.01	2099.46					MinPts
134.63	41.08	106.91	93.54	5.00	OSF1.50	2750.00	2745.89	OSF>5.00				Exit Alert
322.30	59.65	282.21	262.65	8.22	OSF1.50	3980.00	3970.32					MinPt-SF
349.15	105.58	278.44	243.57	4.99	OSF1.50	7040.00	7030.32	OSF<5.00				Enter Alert
349.19	144.27	252.68	204.92	3.65	OSF1.50	9640.00	9630.32					MinPts
349.40	144.41	252.79	204.98	3.64	OSF1.50	9660.00	9650.32					MinPt-SF
454.79	137.67	362.68	317.12	4.98	OSF1.50	10190.00	10180.24	OSF>5.00				Exit Alert
598.01	115.93	520.39	482.08	7.79	OSF1.50	11787.40	10720.00					MinPt-CtCt
597.16	180.05	476.79	417.11	4.99	OSF1.50	14920.00	10720.00	OSF<5.00				Enter Alert
549.08	207.49	410.43	341.60	3.98	OSF1.50	16090.00	10720.00					MinPt-CtCt
550.59	212.04	408.90	338.55	3.91	OSF1.50	16240.00	10720.00					MinPt-EOU
552.98	214.91	409.38	338.07	3.87	OSF1.50	16330.00	10720.00					MinPt-ADP
599.06	355.96	361.42	243.10	2.53	OSF1.50	20872.90	10720.00					MinPts

30-025-33688 - MULE DEER 36 STATE 7 - INC only to 9100ft - A (DefinitiveSurvey) Fail Minor

516.85	32.81	514.87	484.04	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
516.53	32.81	514.46	483.72	6157.09	MAS = 10.00 (m)	23.00	23.00					WRP
486.15	147.54	387.20	338.61	4.98	OSF1.50	2400.00	2397.81	OSF<5.00				Enter Alert
411.52	411.83	136.43	-0.31	1.50	OSF1.50	6070.00	6060.32		OSF<1.50			Enter Minor
411.52	590.56	17.28	-179.03	1.04	OSF1.50	9120.00	9110.32					MinPt-CtCt
411.54	590.90	17.07	-179.35	1.04	OSF1.50	9130.00	9120.32					MinPts
494.44	495.87	163.33	-1.42	1.50	OSF1.50	9400.00	9390.32	OSF>1.50				Exit Minor
921.12	282.03	732.56	639.09	4.92	OSF1.50	9950.00	9940.32	OSF>5.00				Exit Alert
2231.92	421.05	1950.72	1810.87	7.97	OSF1.50	11660.00	10720.00					MinPt-SF
10883.87	591.31	10489.16	10292.55	27.68	OSF1.50	20872.90	10720.00					TD

Coterra Coriander 1-12 State Com 303H 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<=15m<15.00				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	7.85	2.22	MAS = 9.83 (m)	1820.00	1820.00					MinPt-EOU
40.45	32.25	21.65	8.19	2.22	MAS = 9.83 (m)	1840.00	1840.00					MinPt-SF
65.68	32.25	44.42	33.43	3.19	MAS = 9.83 (m)	2100.01	2099.46					MinPts
116.30	35.64	92.21	80.66	4.99	OSF1.50	2390.00	2387.86	OSF>5.00				Exit Alert
508.29	153.18	405.84	355.11	5.00	OSF1.50	10350.00	10335.46	OSF<5.00				Enter Alert
602.07	154.29	398.88	347.78	4.90	OSF1.50	10510.00	10474.57					MinPt-CtCt
502.09	154.36	398.86	347.73	4.90	OSF1.50	10520.00	10482.47					MinPts
502.37	154.50	399.05	347.88	4.90	OSF1.50	10540.00	10497.95					MinPt-SF
514.42	155.35	410.52	359.07	4.99	OSF1.50	10670.00	10586.78	OSF>5.00				Exit Alert
693.00	117.52	614.33	575.48	8.91	OSF1.50	11787.40	10720.00					MinPt-CtCt
693.24	208.93	553.63	484.32	4.99	OSF1.50	15990.00	10720.00	OSF<5.00				Enter Alert
693.52	354.70	456.73	338.83	2.94	OSF1.50	20872.90	10720.00					MinPts

Coterra Coriander 1-12 Federal Com 6H Corrected MWD to 22356ft (DefinitiveSurvey) Warning Alert

99.98	32.81	98.69	67.17	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
99.97	32.81	98.68	67.16	46925.97	MAS = 10.00 (m)	23.00	23.00					WRP
99.93	32.81	98.26	67.11	265.58	MAS = 10.00 (m)	90.00	90.00					MinPts
79.37	32.81	62.63	46.56	4.98	MAS = 10.00 (m)	1830.00	1830.00	OSF<5.00				Enter Alert
63.75	32.81	44.92	30.94	3.52	MAS = 10.00 (m)	2107.60	2107.01					MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
63.98	32.81	44.71	31.17	3.45		MAS = 10.00 (m)	2160.00	2159.12				MinPt-EOU	
66.04	32.81	45.85	33.23	3.39		MAS = 10.00 (m)	2270.00	2268.52				MinPt-SF	
152.24	46.39	120.99	105.85	5.00		OSF1.50	3470.00	3461.95	OSF>5.00			Exit Alert	
559.96	111.08	485.58	448.88	7.62		OSF1.50	7910.00	7900.32				MinPt-CtCt	
555.46	128.03	469.78	427.43	6.55		OSF1.50	9100.00	9090.32				MinPt-CtCt	
556.36	131.26	468.53	425.11	6.40		OSF1.50	9320.00	9310.32				MinPt-EOU	
557.12	132.13	468.71	424.99	6.36		OSF1.50	9380.00	9370.32				MinPt-ADP	
562.52	143.45	466.56	419.07	5.91		OSF1.50	10210.00	10200.12				MinPt-CtCt	
562.57	143.58	466.52	418.99	5.91		OSF1.50	10230.00	10219.91				MinPt-EOU	
562.62	143.65	466.53	418.97	5.91		OSF1.50	10240.00	10229.77				MinPt-ADP	
563.70	144.09	467.31	419.61	5.90		OSF1.50	10310.00	10297.71				MinPt-SF	
1766.29	128.06	1680.60	1638.24	20.84		OSF1.50	12190.00	10720.00				MinPt-EOU	
1766.52	128.32	1680.65	1638.20	20.80		OSF1.50	12220.00	10720.00				MinPt-ADP	
1793.23	144.16	1696.79	1649.06	18.78		OSF1.50	13220.00	10720.00				MinPt-CtCt	
1792.36	150.75	1691.53	1641.61	17.94		OSF1.50	13570.00	10720.00				MinPt-CtCt	
1791.46	155.22	1687.67	1636.26	17.41		OSF1.50	13790.00	10720.00				MinPt-CtCt	
1791.99	156.81	1687.13	1635.19	17.24		OSF1.50	13880.00	10720.00				MinPt-EOU	
1795.86	161.42	1687.92	1634.44	16.78		OSF1.50	14100.00	10720.00				MinPt-ADP	
1798.00	164.26	1688.17	1633.74	16.51		OSF1.50	14210.00	10720.00				MinPt-EOU	
1799.47	166.00	1688.47	1633.47	16.35		OSF1.50	14290.00	10720.00				MinPt-ADP	
1802.45	170.13	1688.70	1632.31	15.98		OSF1.50	14460.00	10720.00				MinPt-EOU	
1803.44	171.38	1688.86	1632.08	15.87		OSF1.50	14520.00	10720.00				MinPt-ADP	
1810.97	177.65	1692.21	1633.32	15.37		OSF1.50	14780.00	10720.00				MinPt-EOU	
1812.96	179.91	1692.69	1633.05	15.19		OSF1.50	14880.00	10720.00				MinPt-ADP	
1807.48	200.81	1673.24	1606.63	13.56		OSF1.50	15680.00	10720.00				MinPt-CtCt	
1807.65	201.52	1672.97	1606.13	13.51		OSF1.50	15720.00	10720.00				MinPt-EOU	
1807.93	201.85	1673.03	1606.09	13.49		OSF1.50	15740.00	10720.00				MinPt-ADP	
1811.20	226.62	1659.80	1584.59	12.03		OSF1.50	16630.00	10720.00				MinPt-CtCt	
1810.93	233.62	1654.85	1577.30	11.67		OSF1.50	16880.00	10720.00				MinPt-CtCt	
1811.47	243.01	1649.13	1568.46	11.22		OSF1.50	17210.00	10720.00				MinPt-CtCt	
1811.40	249.90	1644.48	1561.51	10.91		OSF1.50	17450.00	10720.00				MinPt-CtCt	
1787.75	308.03	1582.06	1479.71	8.73		OSF1.50	19410.00	10720.00				MinPt-CtCt	
1788.97	313.78	1579.45	1475.19	8.57		OSF1.50	19620.00	10720.00				MinPt-EOU	
1788.75	326.80	1570.55	1461.95	8.23		OSF1.50	20030.00	10720.00				MinPt-CtCt	
1788.93	327.35	1570.37	1461.58	8.22		OSF1.50	20060.00	10720.00				MinPt-ADP	
1789.21	327.70	1570.42	1461.51	8.21		OSF1.50	20080.00	10720.00				MinPt-EOU	
1794.97	335.19	1571.22	1459.84	8.05		OSF1.50	20320.00	10720.00				MinPt-ADP	
1795.73	336.06	1571.36	1459.67	8.03		OSF1.50	20360.00	10720.00				MinPt-EOU	
1782.45	352.74	1546.95	1429.74	7.60		OSF1.50	20872.90	10720.00				MinPts	

Coterra Coriander 1-12 State Com SH Corrected MWD to 22532ft (DefinitiveSurvey)

Warning Alert

116.60	32.81	115.42	83.79	4259583.23	MAS = 10.00 (m)	0.00	0.00					MinPts	
116.61	32.81	115.43	83.80	22698.84	MAS = 10.00 (m)	23.00	23.00					WRP	
117.62	32.81	114.96	84.81	78.65	MAS = 10.00 (m)	220.00	220.00					MinPt-EOU	
117.53	32.81	104.28	84.73	9.64	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
93.39	32.81	73.84	60.59	4.98	MAS = 10.00 (m)	1949.93	1949.93	OSF<5.00				Enter Alert	
88.65	32.81	67.37	55.85	4.32	MAS = 10.00 (m)	2125.46	2124.77					MinPts	
88.69	33.28	66.18	55.41	4.07	OSF1.50	2250.00	2248.63					MinPt-CtCt	
90.37	38.40	64.44	51.97	3.58	OSF1.50	2590.00	2586.77					MinPt-EOU	
91.24	39.47	64.60	51.77	3.52	OSF1.50	2660.00	2656.38					MinPt-ADP	
93.81	41.89	65.55	51.92	3.40	OSF1.50	2820.00	2815.51					MinPt-ADP	
101.67	46.33	70.45	55.34	3.33	OSF1.50	3110.00	3103.92					MinPt-SF	
92.48	80.45	38.52	12.04	1.73	OSF1.50	5360.00	5350.32					MinPt-CtCt	
93.35	83.26	37.52	10.09	1.68	OSF1.50	5550.00	5540.32					MinPt-EOU	
93.85	83.85	37.62	10.00	1.68	OSF1.50	5590.00	5580.32					MinPt-ADP	
94.01	84.00	37.68	10.01	1.68	OSF1.50	5600.00	5590.32					MinPt-SF	
138.48	103.29	69.29	35.19	2.02	OSF1.50	6900.00	6890.32					MinPt-SF	
146.21	109.25	73.05	36.96	2.01	OSF1.50	7300.00	7290.32					MinPt-SF	
148.63	111.04	74.28	37.60	2.01	OSF1.50	7420.00	7410.32					MinPt-SF	
158.09	119.84	77.87	38.25	1.98	OSF1.50	8010.00	8000.32					MinPt-ADP	
164.22	126.56	79.52	37.67	1.95	OSF1.50	8460.00	8450.32					MinPt-EOU	
168.96	138.06	76.59	30.90	1.84	OSF1.50	9230.00	9220.32					MinPt-EOU	
172.62	145.50	75.29	27.12	1.78	OSF1.50	9730.00	9720.32					MinPt-EOU	
173.84	147.00	75.52	26.84	1.78	OSF1.50	9830.00	9820.32					MinPt-ADP	
175.36	148.35	76.14	27.01	1.77	OSF1.50	9920.00	9910.32					MinPt-SF	
515.79	156.21	411.32	359.58	4.97	OSF1.50	10910.00	10886.64	OSF>5.00				Exit Alert	
1750.85	124.22	1667.71	1626.63	21.30	OSF1.50	12650.00	10720.00					MinPt-ADP	
1755.26	128.65	1669.16	1626.60	20.61	OSF1.50	12890.00	10720.00					MinPt-ADP	
1759.87	132.41	1671.27	1627.47	20.08	OSF1.50	13080.00	10720.00					MinPt-EOU	
1751.11	165.14	1640.69	1585.97	15.99	OSF1.50	14470.00	10720.00					MinPt-CtCt	
1753.91	171.19	1639.46	1582.73	15.45	OSF1.50	14730.00	10720.00					MinPt-EOU	
1764.05	192.40	1635.46	1571.65	13.82	OSF1.50	15520.00	10720.00					MinPt-EOU	
1771.37	212.43	1629.42	1558.94	12.56	OSF1.50	16210.00	10720.00					MinPt-CtCt	
1771.98	214.16	1628.89	1557.84	12.46	OSF1.50	16290.00	10720.00					MinPt-EOU	
1772.68	215.11	1628.94	1557.57	12.41	OSF1.50	16330.00	10720.00					MinPt-EOU	
1778.49	225.06	1628.11	1553.41	11.90	OSF1.50	16670.00	10720.00					MinPt-EOU	
1780.73	243.52	1618.05	1537.21	11.01	OSF1.50	17270.00	10720.00					MinPt-CtCt	
1781.21	250.05	1614.18	1531.16	10.72	OSF1.50	17490.00	10720.00					MinPt-CtCt	
1781.98	252.97	1613.00	1529.01	10.60	OSF1.50	17610.00	10720.00					MinPt-EOU	
1779.04	299.89	1578.78	1479.15	8.92	OSF1.50	19130.00	10720.00					MinPt-CtCt	
1779.97	302.54	1577.95	1477.43	8.85	OSF1.50	19240.00	10720.00					MinPt-EOU	
1780.45	312.57	1571.74	1467.88	8.57	OSF1.50	19540.00	10720.00					MinPt-CtCt	
1780.97	314.09	1571.25	1466.89	8.53	OSF1.50	19610.00	10720.00					MinPt-EOU	
1783.50	322.38	1568.26	1461.12	8.32	OSF1.50	19880.00	10720.00					MinPt-EOU	
1784.38	327.52	1565.69	1456.84	8.19	OSF1.50	20020.00	10720.00					MinPt-CtCt	
1782.33	348.49	1549.68	1433.84	7.69	OSF1.50	20690.00	10720.00					MinPt-CtCt	
1783.19	354.24	1546.70	1428.95	7.57	OSF1.50	20872.90	10720.00					MinPts	

30-025-43738 Cimarex Coriander AOC 1-12 State 3H - Corrected MWD to 19431ft (DefinitiveSurvey)

Warning Alert

121.59	32.81	120.31	88.78	2279229.18	MAS = 10.00 (m)	0.00	0.00					Surface	
121.59	32.81	120.29	88.78	11106.40	MAS = 10.00 (m)	23.00	23.00					WRP	
116.27	32.81	103.84	83.47	10.32	MAS = 10.00 (m)	1190.00	1190.00					MinPt-EOU	
115.97	32.81	102.70	83.16	9.46	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
115.65	32.81	101.06	82.74	8.48	MAS = 10.00 (m)	1426.77	1426.77					MinPts	
117.75	32.81	99.35	84.94	6.70	MAS = 10.00 (m)	1820.00	1820.00					MinPt-EOU	
127.02	32.81	105.93	94.21	6.27	MAS = 10.00 (m)	2090.00	2089.50					MinPt-SF	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
1217.07	91.04	1156.05	1126.03	20.26		OSF1.50	11340.00	10720.00				MinPt-EOU	
1217.28	91.28	1156.10	1126.00	20.21		OSF1.50	11360.00	10720.00				MinPt-ADP	
1166.10	139.86	1072.53	1026.24	12.58		OSF1.50	13920.00	10720.00				MinPt-CtCt	
1165.79	143.97	1069.48	1021.82	12.22		OSF1.50	14080.00	10720.00				MinPt-CtCt	
1166.20	145.16	1069.09	1021.04	12.12		OSF1.50	14130.00	10720.00				MinPt-EOU	
1166.79	145.88	1069.21	1020.91	12.07		OSF1.50	14160.00	10720.00				MinPt-ADP	
1190.57	184.70	1067.11	1005.87	9.71		OSF1.50	15580.00	10720.00				MinPt-CtCt	
1195.23	194.64	1065.14	1000.59	9.25		OSF1.50	15930.00	10720.00				MinPt-EOU	
1201.56	203.43	1065.61	998.13	8.90		OSF1.50	16230.00	10720.00				MinPt-EOU	
1216.40	220.84	1068.85	995.55	8.29		OSF1.50	16820.00	10720.00				MinPt-ADP	
1220.72	226.65	1069.29	994.06	8.11		OSF1.50	17010.00	10720.00				MinPt-EOU	
1221.19	263.06	1045.48	958.12	6.98		OSF1.50	18200.00	10720.00				MinPt-CtCt	
1194.50	322.27	979.33	872.23	5.57		OSF1.50	20090.00	10720.00				MinPt-CtCt	
1193.23	344.19	963.45	849.05	5.21		OSF1.50	20780.00	10720.00				MinPt-CtCt	
1192.83	347.13	961.06	845.70	5.16		OSF1.50	20872.90	10720.00				MinPts	

30-025-43737 Cimarex Coriander AOC 1-12 State 2H - Corrected MWD to 19642ft (DefinitiveSurvey)

Warning Alert

119.90	32.81	118.62	87.10	52235.88	MAS = 10.00 (m)	0.00	0.00					Surface	
119.89	32.81	118.60	87.08	12276.57	MAS = 10.00 (m)	23.00	23.00					WRP	
118.39	32.81	114.50	85.59	44.89	MAS = 10.00 (m)	354.26	354.26					MinPts	
119.02	32.81	110.73	86.21	16.81	MAS = 10.00 (m)	800.00	800.00					MinPts	
119.01	32.81	107.43	86.20	11.44	MAS = 10.00 (m)	1130.00	1130.00					MinPts	
119.06	32.81	106.78	86.26	10.71	MAS = 10.00 (m)	1200.00	1200.00					MinPt-EOU	
119.12	32.81	106.10	86.31	9.92	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
119.08	32.81	105.41	86.28	9.30	MAS = 10.00 (m)	1370.00	1370.00					MinPts	
121.13	32.81	103.05	86.32	7.04	MAS = 10.00 (m)	1810.00	1810.00					MinPt-EOU	
127.62	32.81	107.79	94.81	6.72	MAS = 10.00 (m)	1990.00	1989.86					MinPt-SF	
136.80	32.81	115.90	103.99	6.82	MAS = 10.00 (m)	2100.01	2099.46					MinPts	
302.14	60.30	261.61	241.84	7.62	OSF1.50	4090.00	4080.32					MinPt-CtCt	
302.41	61.01	261.41	241.40	7.53	OSF1.50	4140.00	4130.32					MinPt-EOU	
302.65	61.28	261.46	241.36	7.50	OSF1.50	4160.00	4150.32					MinPt-ADP	
310.00	93.84	247.12	216.17	4.99	OSF1.50	6360.00	6350.32		OSF<5.00			Enter Alert	
279.33	127.40	194.07	151.93	3.30	OSF1.50	8630.00	8620.32					MinPt-CtCt	
280.79	135.69	190.00	145.10	3.12	OSF1.50	9190.00	9180.32					MinPt-EOU	
280.87	135.80	190.01	145.07	3.11	OSF1.50	9200.00	9190.32					MinPts	
418.83	127.22	333.68	291.60	4.96	OSF1.50	9670.00	9660.32		OSF>5.00			Exit Alert	
957.33	108.20	884.87	849.13	13.38	OSF1.50	12800.00	10720.00					MinPt-CtCt	
957.76	109.45	884.47	848.32	13.23	OSF1.50	12860.00	10720.00					MinPt-EOU	
958.29	110.08	884.58	848.21	13.16	OSF1.50	12890.00	10720.00					MinPt-ADP	
954.04	116.60	875.98	837.44	12.36	OSF1.50	13180.00	10720.00					MinPt-CtCt	
955.10	119.12	875.35	835.97	12.11	OSF1.50	13290.00	10720.00					MinPt-EOU	
936.66	137.18	844.88	799.48	10.30	OSF1.50	14010.00	10720.00					MinPt-CtCt	
937.15	138.69	844.36	798.45	10.20	OSF1.50	14070.00	10720.00					MinPt-EOU	
937.79	139.45	844.50	798.35	10.15	OSF1.50	14100.00	10720.00					MinPt-ADP	
914.79	170.04	801.10	744.75	8.11	OSF1.50	15200.00	10720.00					MinPt-CtCt	
915.73	172.82	800.19	742.91	7.99	OSF1.50	15300.00	10720.00					MinPt-EOU	
917.34	174.78	800.49	742.55	7.91	OSF1.50	15370.00	10720.00					MinPt-ADP	
920.94	181.23	799.79	739.71	7.66	OSF1.50	15590.00	10720.00					MinPt-EOU	
923.04	183.80	800.18	739.24	7.57	OSF1.50	15680.00	10720.00					MinPt-ADP	
928.48	191.92	801.22	737.57	7.29	OSF1.50	15950.00	10720.00					MinPt-CtCt	
930.12	193.89	800.53	736.23	7.22	OSF1.50	16020.00	10720.00					MinPt-EOU	
932.96	201.05	798.60	731.91	6.99	OSF1.50	16260.00	10720.00					MinPt-EOU	
934.13	202.48	798.82	731.65	6.95	OSF1.50	16310.00	10720.00					MinPt-ADP	
936.16	206.57	798.11	729.59	6.82	OSF1.50	16440.00	10720.00					MinPt-CtCt	
924.36	227.58	772.31	696.78	6.11	OSF1.50	17130.00	10720.00					MinPt-CtCt	
926.76	250.71	759.29	676.05	5.56	OSF1.50	17880.00	10720.00					MinPt-CtCt	
928.78	259.58	755.39	669.19	5.38	OSF1.50	18170.00	10720.00					MinPt-EOU	
930.01	261.05	755.65	668.96	5.36	OSF1.50	18220.00	10720.00					MinPt-ADP	
936.15	274.58	752.77	661.58	5.13	OSF1.50	18650.00	10720.00					MinPt-EOU	
940.04	280.54	752.69	659.50	5.04	OSF1.50	18840.00	10720.00					MinPt-EOU	
942.06	282.96	753.09	659.10	5.01	OSF1.50	18920.00	10720.00					MinPt-ADP	
942.69	283.56	753.32	659.13	5.00	OSF1.50	18940.00	10720.00		OSF<5.00			Enter Alert	
969.55	317.49	757.55	652.06	4.59	OSF1.50	20010.00	10720.00					MinPt-EOU	
975.93	338.06	750.23	637.87	4.34	OSF1.50	20650.00	10720.00					MinPt-CtCt	
977.42	345.10	747.02	632.32	4.26	OSF1.50	20872.90	10720.00					MinPts	

Coterra Coriander 1-12 State Com 4H Corrected MWD to 22335ft (DefinitiveSurvey)

Warning Alert

134.14	32.81	132.85	101.33	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
134.14	32.81	132.85	101.33	N/A	MAS = 10.00 (m)	10.00	10.00					MinPts
134.14	32.81	132.85	101.33	49271.77	MAS = 10.00 (m)	23.00	23.00					WRP
137.70	32.81	124.42	104.90	11.37	MAS = 10.00 (m)	1280.00	1280.00					MinPt-EOU
133.51	32.81	116.93	100.70	8.50	MAS = 10.00 (m)	1644.90	1644.90					MinPts
133.69	32.81	116.78	100.88	8.33	MAS = 10.00 (m)	1680.00	1680.00					MinPt-EOU
150.40	32.81	129.72	117.59	7.59	MAS = 10.00 (m)	2060.00	2059.64					MinPt-SF
153.70	32.81	132.63	120.89	7.60	MAS = 10.00 (m)	2100.01	2099.46					MinPts
233.13	68.72	186.99	164.41	5.14	OSF1.50	4630.00	4620.32					MinPt-CtCt
233.49	69.74	186.67	163.75	5.07	OSF1.50	4700.00	4690.32					MinPt-EOU
233.96	70.31	186.75	163.64	5.04	OSF1.50	4740.00	4730.32					MinPt-ADP
235.20	71.32	187.33	163.89	5.00	OSF1.50	4810.00	4800.32		OSF<5.00			Enter Alert
218.30	95.71	154.17	122.59	3.44	OSF1.50	6450.00	6440.32					MinPt-CtCt
217.90	100.55	150.54	117.35	3.27	OSF1.50	6780.00	6770.32					MinPt-CtCt
158.08	152.13	56.34	5.95	1.56	OSF1.50	10410.00	10390.13					MinPt-CtCt
158.09	152.20	56.29	5.89	1.56	OSF1.50	10420.00	10398.97					MinPts
505.42	154.97	401.78	350.45	4.91	OSF1.50	11010.00	10706.33		OSF>5.00			Exit Alert
1482.51	116.87	1404.27	1365.64	19.18	OSF1.50	12140.00	10720.00					MinPt-ADP
1485.51	122.50	1403.51	1363.01	18.32	OSF1.50	12490.00	10720.00					MinPt-EOU
1486.42	123.56	1403.71	1362.85	18.18	OSF1.50	12560.00	10720.00					MinPt-ADP
1518.74	147.24	1420.25	1371.50	15.57	OSF1.50	13700.00	10720.00					MinPt-CtCt
1518.88	147.62	1420.14	1371.26	15.53	OSF1.50	13730.00	10720.00					MinPt-EOU
1519.00	147.75	1420.17	1371.25	15.51	OSF1.50	13740.00	10720.00					MinPt-ADP
1521.85	152.56	1419.81	1369.28	15.05	OSF1.50	13930.00	10720.00					MinPt-CtCt
1522.31	153.83	1419.43	1368.48	14.93	OSF1.50	14000.00	10720.00					MinPt-EOU
1522.78	154.38	1419.54	1368.41	14.88	OSF1.50	14030.00	10720.00					MinPt-ADP
1525.66	157.65	1420.23	1368.01	14.60	OSF1.50	14170.00	10720.00					MinPt-ADP
1529.73	164.37	1419.82	1365.36	14.04	OSF1.50	14410.00	10720.00					MinPt-CtCt
1530.06	165.48	1419.41	1364.58	13.94	OSF1.50	14470.00	10720.00					MinPt-EOU
1530.50	166.03	1419.48	1364.46	13.90	OSF1.50	14500.00	10720.00					MinPt-ADP
1527.03	177.25	1408.53	1349.78	12.99	OSF1.50	14910.00	10720.00					MinPt-CtCt
1527.35	178.18	1408.24	1349.17	12.92	OSF1.50	14960.00	10720.00					MinPt-EOU
1529.08	180.19	1408.63	1348.89	12.79	OSF1.50	15050.00	10720.00					MinPt-ADP
1533.53	189.64	1406.77	1343.89	12.18	OSF1.50	15390.00	10720.00					MinPt-EOU
1534.87	191.26	1407.04	1343.62	12.09	OSF1.50	15460.00	10720.00					MinPt-ADP
1537.09	194.17	1407.31	1342.92	11.93	OSF1.50	15560.00	10720.00					MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
1550.41	207.79	1411.56	1342.63	11.24		OSF1.50	16040.00	10720.00				MinPt-EOU	
1553.23	211.23	1412.08	1342.00	11.07		OSF1.50	16170.00	10720.00				MinPt-ADP	
1557.37	216.43	1412.76	1340.94	10.84		OSF1.50	16340.00	10720.00				MinPt-EOU	
1559.16	221.71	1411.03	1337.45	10.59		OSF1.50	16500.00	10720.00				MinPt-CiCt	
1559.64	223.14	1410.55	1336.50	10.52		OSF1.50	16570.00	10720.00				MinPt-EOU	
1560.18	223.75	1410.68	1336.43	10.50		OSF1.50	16600.00	10720.00				MinPt-ADP	
1564.62	233.88	1408.37	1330.74	10.07		OSF1.50	16920.00	10720.00				MinPt-CiCt	
1565.45	236.56	1407.41	1328.89	9.96		OSF1.50	17030.00	10720.00				MinPt-EOU	
1568.25	247.29	1403.06	1320.96	9.54		OSF1.50	17370.00	10720.00				MinPt-CiCt	
1569.17	249.94	1402.21	1319.22	9.45		OSF1.50	17480.00	10720.00				MinPt-EOU	
1570.16	251.15	1402.40	1319.01	9.41		OSF1.50	17530.00	10720.00				MinPt-ADP	
1566.99	263.20	1391.20	1303.79	8.96		OSF1.50	17900.00	10720.00				MinPt-CiCt	
1567.29	264.14	1390.87	1303.15	8.93		OSF1.50	17950.00	10720.00				MinPt-EOU	
1567.61	264.51	1390.94	1303.10	8.92		OSF1.50	17970.00	10720.00				MinPt-ADP	
1569.63	284.71	1379.50	1284.92	8.29		OSF1.50	18610.00	10720.00				MinPt-CiCt	
1568.26	296.10	1370.54	1272.17	7.97		OSF1.50	18980.00	10720.00				MinPt-CiCt	
1568.66	297.30	1370.13	1271.36	7.94		OSF1.50	19040.00	10720.00				MinPt-EOU	
1569.00	297.69	1370.21	1271.31	7.93		OSF1.50	19060.00	10720.00				MinPt-ADP	
1566.63	311.16	1358.86	1255.47	7.57		OSF1.50	19470.00	10720.00				MinPt-CiCt	
1556.25	325.72	1338.78	1230.53	7.18		OSF1.50	19940.00	10720.00				MinPt-CiCt	
1556.82	327.61	1338.09	1229.22	7.15		OSF1.50	20020.00	10720.00				MinPt-EOU	
1557.55	328.51	1338.22	1229.04	7.13		OSF1.50	20060.00	10720.00				MinPt-ADP	
1555.19	354.84	1318.29	1200.34	6.59		OSF1.50	20870.00	10720.00				MinPt-CiCt	
1555.18	354.86	1318.28	1200.32	6.59		OSF1.50	20872.90	10720.00				MinPts	

30-025-43736 Cimarex Coriander AOC 1-12 State 1H - MWD to 19004ft (DefinitiveSurvey)

Warning Alert

216.21	32.81	214.24	183.41	2148047.32	MAS = 10.00 (m)	0.00	0.00					Surface	
216.20	32.81	214.21	183.39	29604.76	MAS = 10.00 (m)	23.00	23.00					WRP	
208.24	32.81	194.16	175.43	17.04	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
206.30	32.81	187.13	173.49	11.75	MAS = 10.00 (m)	1819.87	1819.87					MinPts	
206.46	32.81	186.99	173.65	11.56	MAS = 10.00 (m)	1850.00	1850.00					MinPt-EOU	
219.36	32.81	197.39	186.55	10.77	MAS = 10.00 (m)	2100.01	2099.46					MinPt-EOU	
303.01	45.44	272.13	257.57	10.34	OSF1.50	3010.00	3004.47					MinPt-SF	
398.38	59.51	358.12	338.87	10.30	OSF1.50	3980.00	3970.32					MinPt-ADP	
409.01	66.62	364.01	342.39	9.42	OSF1.50	4460.00	4450.32					MinPt-CiCt	
409.36	67.61	363.70	341.75	9.28	OSF1.50	4530.00	4520.32					MinPt-EOU	
409.83	68.18	363.79	341.65	9.22	OSF1.50	4570.00	4560.32					MinPt-ADP	
419.22	85.36	361.78	333.87	7.48	OSF1.50	5740.00	5730.32					MinPt-CiCt	
395.21	119.85	314.77	275.35	4.99	OSF1.50	8060.00	8050.32	OSF<5.00				Enter Alert	
390.18	132.60	301.24	257.58	4.45	OSF1.50	8920.00	8910.32					MinPt-CiCt	
390.24	132.86	301.13	257.38	4.44	OSF1.50	8940.00	8930.32					MinPt-EOU	
390.33	132.99	301.13	257.34	4.44	OSF1.50	8950.00	8940.32					MinPt-ADP	
391.39	133.60	301.79	257.80	4.43	OSF1.50	9000.00	8990.32					MinPt-SF	
434.01	131.98	345.49	302.04	4.98	OSF1.50	9250.00	9240.32	OSF>5.00				Exit Alert	
1169.42	116.50	1091.25	1052.92	15.23	OSF1.50	12920.00	10720.00					MinPt-CiCt	
1171.47	122.29	1089.44	1049.18	14.53	OSF1.50	13180.00	10720.00					MinPt-EOU	
1175.57	127.94	1089.77	1047.63	13.93	OSF1.50	13410.00	10720.00					MinPt-EOU	
1178.33	146.76	1079.99	1031.57	12.15	OSF1.50	14110.00	10720.00					MinPt-CiCt	
1178.58	150.46	1077.76	1028.11	11.85	OSF1.50	14250.00	10720.00					MinPt-CiCt	
1179.76	153.61	1076.85	1026.15	11.62	OSF1.50	14370.00	10720.00					MinPt-EOU	
1181.81	156.05	1077.28	1025.75	11.46	OSF1.50	14460.00	10720.00					MinPt-ADP	
1177.10	183.44	1054.30	993.65	9.69	OSF1.50	15420.00	10720.00					MinPt-CiCt	
1177.66	184.96	1053.83	992.67	9.61	OSF1.50	15480.00	10720.00					MinPt-EOU	
1178.78	186.32	1054.06	992.46	9.55	OSF1.50	15530.00	10720.00					MinPt-ADP	
1186.40	203.96	1049.93	982.44	8.78	OSF1.50	16100.00	10720.00					MinPt-EOU	
1181.88	237.56	1023.00	944.31	7.50	OSF1.50	17190.00	10720.00					MinPt-CiCt	
1185.94	257.35	1013.88	928.59	6.94	OSF1.50	17820.00	10720.00					MinPt-CiCt	
1181.28	276.85	996.21	904.43	6.43	OSF1.50	18410.00	10720.00					MinPt-CiCt	
1192.24	311.39	984.15	880.86	5.76	OSF1.50	19460.00	10720.00					MinPt-CiCt	
1192.18	323.44	976.06	868.74	5.55	OSF1.50	19820.00	10720.00					MinPt-CiCt	
1194.01	333.21	971.37	860.79	5.39	OSF1.50	20120.00	10720.00					MinPt-EOU	
1195.00	334.42	971.55	860.57	5.38	OSF1.50	20160.00	10720.00					MinPt-ADP	
1197.23	343.09	968.00	854.13	5.25	OSF1.50	20410.00	10720.00					MinPt-CiCt	
1197.33	343.60	967.76	853.73	5.24	OSF1.50	20430.00	10720.00					MinPt-EOU	
1197.50	343.83	967.78	853.67	5.24	OSF1.50	20440.00	10720.00					MinPt-ADP	
1199.03	344.55	968.84	854.49	5.24	OSF1.50	20480.00	10720.00					MinPt-SF	
1282.12	337.27	1056.78	944.86	5.72	OSF1.50	20872.90	10720.00					TD	

30-025-33354 - April APZ State 1 - Gyro to 10860ft - A (DefinitiveSurvey)

Warning Alert

5429.81	32.81	5428.82	5397.00	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
5429.67	32.81	5428.67	5396.87	321414.30	MAS = 10.00 (m)	23.00	23.00					WRP
5429.64	32.81	5428.56	5396.83	55585.90	MAS = 10.00 (m)	50.00	50.00					MinPts
5429.73	32.81	5414.67	5396.92	385.70	MAS = 10.00 (m)	1500.00	1500.00					MinPts
5430.94	32.81	5412.70	5398.13	314.72	MAS = 10.00 (m)	1830.00	1830.00					MinPt-EOU
5443.57	32.81	5422.65	5410.76	273.02	MAS = 10.00 (m)	2100.01	2099.46					MinPt-EOU
5586.75	58.70	5547.29	5528.05	145.17	OSF1.50	3990.00	3980.32					MinPt-ADP
5589.71	62.39	5547.79	5527.32	136.51	OSF1.50	4230.00	4220.32					MinPt-EOU
5591.08	63.94	5548.13	5527.14	133.20	OSF1.50	4350.00	4340.32					MinPt-ADP
5593.74	67.42	5548.47	5526.32	126.27	OSF1.50	4570.00	4560.32					MinPt-EOU
5596.29	76.16	5547.19	5522.13	111.69	OSF1.50	5140.00	5130.32					MinPt-CiCt
5585.67	101.57	5517.63	5484.10	83.28	OSF1.50	6860.00	6850.32					MinPt-CiCt
5585.70	102.76	5516.86	5482.94	82.31	OSF1.50	6940.00	6930.32					MinPt-CiCt
5586.31	112.81	5510.77	5473.49	74.92	OSF1.50	7620.00	7610.32					MinPt-CiCt
5586.38	115.03	5509.36	5471.35	73.46	OSF1.50	7770.00	7760.32					MinPt-CiCt
5587.13	122.58	5505.08	5464.55	68.91	OSF1.50	8280.00	8270.32					MinPt-CiCt
5587.40	127.03	5502.38	5460.37	66.48	OSF1.50	8580.00	8570.32					MinPt-CiCt
5587.41	128.21	5501.61	5459.20	65.86	OSF1.50	8660.00	8650.32					MinPt-CiCt
5588.33	132.50	5499.67	5455.84	63.73	OSF1.50	8970.00	8960.32					MinPt-EOU
5588.60	132.82	5499.73	5455.78	63.58	OSF1.50	9000.00	8990.32					MinPt-ADP
5588.68	133.82	5500.14	5455.86	63.11	OSF1.50	9080.00	9070.32					MinPt-ADP
5604.71	142.83	5509.15	5461.87	59.26	OSF1.50	9700.00	9690.32					MinPt-ADP
5606.24	144.33	5509.70	5461.92	58.66	OSF1.50	9790.00	9780.32					MinPt-ADP
5606.97	145.21	5509.84	5461.77	58.31	OSF1.50	9840.00	9830.32					MinPt-EOU
5608.17	146.65	5510.08	5461.52	57.74	OSF1.50	9940.00	9930.32					MinPt-ADP
5608.70	147.20	5510.25	5461.51	57.53	OSF1.50	9980.00	9970.32					MinPt-ADP
564.97	171.06	450.60	393.91	4.97	OSF1.50	15630.00	10720.00	OSF<5.00				Enter Alert
344.83	200.91	210.57	143.93	2.58	OSF1.50	16077.54	10720.00					MinPt-CiCt
344.84	200.96	210.54	143.88	2.58	OSF1.50	16080.00	10720.00					MinPts
345.06	201.13	210.64	143.93	2.58	OSF1.50	16090.00	10720.00					MinPt-SF
593.01	178.74	473.52	414.27	5.00	OSF1.50	16560.00	10720.00	OSF>5.00				Exit Alert
4807.63	168.17	4695.19	4639.46	43.13	OSF1.50	20872.90	10720.00					TD

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	397.60	32.81	395.62	364.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	397.01	32.81	394.94	364.20	4365.60	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	396.63	32.81	394.59	363.82	6630.45	MAS = 10.00 (m)	23.00	23.00				WRP	
	396.60	100.81	328.80	295.79	5.98	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	399.26	108.96	326.02	290.28	5.56	OSF1.50	1930.00	1929.96				MinPt-EOU	
	402.92	113.38	326.74	289.53	5.39	OSF1.50	2000.00	1999.84				MinPt-ADP	
	410.84	119.67	330.47	291.17	5.20	OSF1.50	2100.01	2099.46				MinPts	
	425.17	129.04	338.56	296.13	4.99	OSF1.50	2250.00	2248.63	OSF<5.00			Enter Alert	
	579.13	575.37	195.01	3.76	1.51	OSF1.50	9160.00	9150.32				MinPts	
	1072.55	324.71	855.53	747.83	4.97	OSF1.50	10060.00	10050.32	OSF>5.00			Exit Alert	
	2184.56	410.61	1910.32	1773.95	8.00	OSF1.50	12250.00	10720.00				MinPt-SF	
	10232.36	575.82	9847.97	9656.53	26.72	OSF1.50	20872.90	10720.00				TD	
30-025-47636 - WILD SALSA FED COM 226H - MWD to 21865ft - A (DefinitiveSurvey)												Warning Alert	
	15228.90	212.23	15086.75	15016.67	108.63	OSF1.50	0.00	0.00				Surface	
	15212.13	212.17	15070.02	14999.96	108.55	OSF1.50	23.00	23.00				WRP	
	13780.84	200.30	13646.73	13580.55	104.11	OSF1.50	2100.00	2099.45				MinPt-SF	
	978.43	295.33	781.04	683.10	4.99	OSF1.50	20190.00	10720.00	OSF<5.00			Enter Alert	
	526.65	459.96	219.51	66.69	1.72	OSF1.50	20872.90	10720.00				MinPts	
30-025-47629 - WILD SALSA FED COM 215H - MWD to 21650ft - A (DefinitiveSurvey)												Warning Alert	
	14919.43	206.59	14781.04	14712.84	109.36	OSF1.50	0.00	0.00				Surface	
	14902.97	206.51	14764.63	14696.46	109.28	OSF1.50	23.00	23.00				WRP	
	13504.05	192.90	13374.87	13311.16	105.96	OSF1.50	2100.00	2099.45				MinPt-SF	
	12788.07	183.24	12665.32	12604.83	105.69	OSF1.50	3420.00	3412.22				MinPt-SF	
	1194.03	363.25	951.37	830.79	4.94	OSF1.50	20030.00	10720.00	OSF<5.00			Enter Alert	
	686.12	600.86	285.16	85.46	1.71	OSF1.50	20872.90	10720.00				MinPts	
Coterra Coriander 1-12 Federal Com 223H Rev1 kFc 15Feb24 (DefinitivePlan)												Warning Alert	
	1889.18	32.81	1888.00	1856.37	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1889.18	32.81	1888.00	1856.37	296025.08	MAS = 10.00 (m)	23.00	23.00				WRP	
	1889.18	32.81	1875.68	1856.37	153.24	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU	
	805.64	152.57	703.60	653.07	7.96	OSF1.50	10137.20	10127.52				MinPt-CtCt	
	805.70	152.74	703.54	652.96	7.95	OSF1.50	10160.00	10150.31				MinPt-EOU	
	805.76	152.81	703.56	652.95	7.95	OSF1.50	10170.00	10160.30				MinPt-ADP	
	808.50	153.72	705.69	654.77	7.93	OSF1.50	10290.00	10278.51				MinPt-SF	
	1036.95	312.03	828.61	724.92	5.00	OSF1.50	18910.00	10720.00	OSF<5.00			Enter Alert	
	1036.73	368.54	790.71	668.20	4.23	OSF1.50	20872.90	10720.00				MinPts	
30-025-33370 - Thyme APY Federal 1 INC Only to 10250ft (DefinitiveSurvey)												Warning Alert	
	951.71	32.81	949.73	918.90	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	951.55	32.81	949.55	918.75	44878.42	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	951.50	32.81	949.47	918.69	18561.16	MAS = 10.00 (m)	23.00	23.00				WRP	
	854.90	258.13	682.22	596.77	4.99	OSF1.50	4480.00	4470.32	OSF<5.00			Enter Alert	
	851.73	630.66	430.75	221.07	2.03	OSF1.50	10300.00	10288.14				MinPts	
	851.60	630.29	430.87	221.31	2.03	OSF1.50	10316.82	10304.21				MinPt-CtCt	
	2051.25	616.60	1639.69	1434.66	5.00	OSF1.50	12500.00	10720.00	OSF>5.00			Exit Alert	
	10168.64	633.74	9745.65	9534.90	24.12	OSF1.50	20872.90	10720.00				TD	
30-025-47633 - Wild Salsa Federal Com 095H MWD to 20658ft - PR (DefinitiveSurvey)												Warning Alert	
	14351.17	200.92	14216.56	14150.25	108.19	OSF1.50	0.00	0.00				Surface	
	14335.34	200.82	14200.80	14134.52	108.13	OSF1.50	23.00	23.00				WRP	
	13053.23	186.52	12928.30	12866.71	105.96	OSF1.50	2010.00	2009.81				MinPt-SF	
	10546.03	162.10	10437.42	10383.93	98.55	OSF1.50	9890.00	9880.32				MinPt-CtCt	
	10546.14	162.46	10437.30	10383.69	98.34	OSF1.50	9940.00	9930.32				MinPt-EOU	
	10546.32	162.67	10437.34	10383.65	98.21	OSF1.50	9970.00	9960.32				MinPt-ADP	
	1112.74	337.30	887.37	775.44	4.96	OSF1.50	20370.00	10720.00	OSF<5.00			Enter Alert	
	911.69	399.17	645.08	512.53	3.43	OSF1.50	20872.90	10720.00				MinPts	
30-025-47633 - WILD SALSA FED COM 095H - MWD to 20658ft - A (DefinitiveSurvey)												Warning Alert	
	14349.22	200.87	14214.65	14148.35	108.20	OSF1.50	0.00	0.00				Surface	
	14333.40	200.78	14198.89	14132.62	108.14	OSF1.50	23.00	23.00				WRP	
	13051.51	186.46	12926.62	12865.05	105.96	OSF1.50	2010.00	2009.81				MinPt-SF	
	10545.95	162.08	10437.35	10383.86	98.56	OSF1.50	9890.00	9880.32				MinPt-CtCt	
	10546.07	162.43	10437.24	10383.64	98.35	OSF1.50	9940.00	9930.32				MinPt-EOU	
	10546.19	162.58	10437.26	10383.61	98.26	OSF1.50	9960.00	9950.32				MinPt-ADP	
	1114.54	337.20	889.24	777.34	4.97	OSF1.50	20370.00	10720.00	OSF<5.00			Enter Alert	
	913.93	398.81	647.56	515.12	3.44	OSF1.50	20872.90	10720.00				MinPts	
Coterra Coriander 1-12 Federal Com 153H Rev0 kFc 15Feb24 (DefinitivePlan)												Warning Alert	
	1909.15	32.81	1907.86	1876.34	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1909.15	32.81	1907.85	1876.34	358965.91	MAS = 10.00 (m)	23.00	23.00				WRP	
	1909.15	32.81	1895.54	1876.34	154.87	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU	
	990.02	146.36	892.11	843.65	10.20	OSF1.50	9864.75	9855.06				MinPt-CtCt	
	990.07	146.53	892.06	843.54	10.19	OSF1.50	9890.00	9880.32				MinPt-EOU	
	990.13	146.60	892.07	843.54	10.19	OSF1.50	9900.00	9890.32				MinPt-ADP	
	991.89	147.10	893.50	844.79	10.17	OSF1.50	9990.00	9980.32				MinPt-SF	
	1109.71	333.71	886.90	775.99	5.00	OSF1.50	19920.00	10720.00	OSF<5.00			Enter Alert	
	1109.65	361.96	868.02	747.70	4.61	OSF1.50	20872.90	10720.00				MinPts	
30-025-47634 - WILD SALSA FED COM 096H - MWD to 20416ft - A (DefinitiveSurvey)												Warning Alert	
	14146.47	198.17	14013.70	13948.31	108.15	OSF1.50	0.00	0.00				Surface	
	14130.88	198.06	13998.18	13932.82	108.08	OSF1.50	23.00	23.00				WRP	
	12889.46	183.43	12766.58	12706.02	106.41	OSF1.50	1980.00	1979.88				MinPt-SF	
	10542.45	160.77	10434.77	10381.71	99.35	OSF1.50	9600.00	9590.32				MinPt-CtCt	
	10542.58	161.11	10434.64	10381.47	99.13	OSF1.50	9650.00	9640.32				MinPt-EOU	
	10542.75	161.32	10434.67	10381.43	99.00	OSF1.50	9680.00	9670.32				MinPt-ADP	
	1212.25	366.13	967.67	846.12	4.98	OSF1.50	20670.00	10720.00	OSF<5.00			Enter Alert	
	1171.20	379.38	917.77	791.81	4.64	OSF1.50	20872.90	10720.00				MinPts	
30-025-47635 - WILD SALSA FED COM 094H - MWD to 20459ft - A (DefinitiveSurvey)												Warning Alert	
	14229.86	200.99	14095.21	14028.87	107.24	OSF1.50	0.00	0.00				Surface	
	14214.22	200.90	14079.63	14013.33	107.17	OSF1.50	23.00	23.00				WRP	
	12967.10	186.83	12841.96	12780.28	105.09	OSF1.50	1980.00	1979.88				MinPt-SF	
	10557.56	162.03	10449.01	10395.53	98.71	OSF1.50	9690.00	9680.32				MinPt-CtCt	
	10557.67	162.37	10448.89	10395.30	98.50	OSF1.50	9740.00	9730.32				MinPt-EOU	
	10557.85	162.57	10448.93	10395.27	98.38	OSF1.50	9770.00	9760.32				MinPt-ADP	
	1547.92	465.82	1236.88	1082.10	5.00	OSF1.50	20460.00	10720.00	OSF<5.00			Enter Alert	
	1454.44	497.28	1122.42	957.16	4.40	OSF1.50	20872.90	10720.00				MinPts	

Schlumberger

Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 Proposal Geodetic Report

Def Plan

Report Date:

Client:

Field:

Structure / Slot:

Well:

Borehole:

UBHI / API#:

Survey Name:

Survey Date:

Tort / AHD / DDI / ERD Ratio:

Coordinate Reference System:

Location Lat / Long:

Location Grid N/E Y/X:

CRS Grid Convergence Angle:

Grid Scale Factor:

Version / Patch:

February 16, 2024 - 05:49 PM (UTC 0)

COTERRA

NM Lea County (NAD 83)

Cimarex Coriander 1-12 State Com Lot 1 Pad / Coriander 1-12 State

Coriander 1-12 State Com 213H

Coriander 1-12 State Com 213H

Unknown / Unknown

Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24

February 16, 2024

112.004 ° / 10602.158 ft / 6.364 / 0.989

NAD83 New Mexico State Plane, Eastern Zone, US Feet

32°29'25.74364"N , 103°37'19.47436"W

N 488329.590 RUS , E 761002.490 RUS

0.381°

0.99996435

2023.1.0.1

Survey / DLS Computation:

Vertical Section Azimuth:

Vertical Section Origin:

TVD Reference Datum:

TVD Reference Elevation:

Seabed / Ground Elevation:

Magnetic Declination:

Total Gravity Field Strength:

Gravity Model:

Total Magnetic Field Strength:

Magnetic Dip Angle:

Declination Date:

Magnetic Declination Model:

North Reference:

Grid Convergence Used:

Total Corr Mag North→Grid North:

Local Coord Referenced To:

Minimum Curvature / Lubinski

179.620 °(GRID North)

0.000 ft, 0.000 ft

RKB

3772.200 ft above MSL

3749.200 ft above MSL

6.240°

996.44mgm (9.80665 Based)

GARM

47468.389 nT

59.907°

February 15, 2024

HOGM 2024

Grid North

0.381°

5.86°

Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [211°FNL, 711°FEL]	0.00	0.00	0.00	0.00	-3,772.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621			
Nudge, Build 2°/100ft	1,800.00	0.00	316.25	1,800.00	-1,972.20	0.00	0.00	0.00	488,329.59	761,002.49	32.34048434	-103.62207621	0.00	0.00	0.00
Hold	2,100.01	6.00	316.25	2,099.46	-1,672.74	-11.41	11.34	-10.85	488,340.93	760,991.64	32.34051570	-103.62211111	2.00	2.00	0.00
Drop 2°/100ft	3,667.20	6.00	316.25	3,658.06	-114.14	-130.48	129.66	-124.15	488,459.25	760,878.35	32.34084300	-103.62247536	0.00	0.00	0.00
Hold	3,967.20	0.00	316.25	3,957.52	185.32	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	2.00	-2.00	0.00
KOP, Build 10°/100ft	10,137.20	0.00	316.25	10,127.52	6,355.32	-141.89	141.00	-135.00	488,470.58	760,867.50	32.34087435	-103.62251025	0.00	0.00	0.00
Build 5°/100ft	10,887.20	75.00	169.62	10,680.95	6,908.75	276.32	-276.71	-58.47	488,052.89	760,944.03	32.33972486	-103.62271445	10.00	10.00	0.00
Landing Point	11,187.20	90.00	169.62	10,720.00	6,947.80	568.40	-568.44	-5.02	487,761.17	760,997.47	32.33892205	-103.62210469	5.00	5.00	0.00
Turn 2°/100ft	11,287.20	90.00	169.62	10,720.00	6,947.80	666.88	-666.81	13.00	487,662.81	761,015.49	32.33865137	-103.62204847	0.00	0.00	0.00
Hold	11,787.40	90.00	179.62	10,720.00	6,947.80	1,164.54	-1,164.17	59.82	487,165.46	761,062.31	32.33728348	-103.62190758	2.00	0.00	2.00
Coriander 1-12 State Com 213H - BHL [100°FSL, 660°FEL]	20,872.90	90.00	179.62	10,720.00	6,947.80	10,250.04	-10,249.48	119.44	478,080.50	761,121.93	32.31231101	-103.62190984	0.00	0.00	0.00

Survey Type:

Def Plan

Survey Error Model:

Survey Program:

ISCSWAO 3 - D 95 % Confidence 2.7955 sigma

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	10,100.000	1/100.000 '5 – 12.25 – 8.75 3.375 – 9.625 – 7				A001Mb_MWD		Coriander 1-12 State Com 213H / Coterra Coriander
	1	10,100.000	20,869.282	1/100.000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Coriander 1-12 State Com 213H / Coterra Coriander

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	
20,872.902	6.000	4.500	



Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 Anti-Collision Summary Report

Analysis Date-24hr Time:	February 16, 2024 - 05:48 PM (UTC 0)	Analysis Method:	3D Least Distance
Client:	COTERRA	Reference Trajectory:	Coterra Coriander 1-12 State Com 213H Rev1 kFc 15Feb24 (Def Plan)
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 213H	Min Pts:	Absolute minima indicated.
Well:	Coriander 1-12 State Com 213H	Engine Version:	2023.1.0.1
Borehole:	Coriander 1-12 State Com 213H	Database 1 Project:	Coriander 1-12 State Com 213H-COTERRA
Scan MD Range:	0.00ft ~ 20872.90ft		

Trajectory Error Model: ISCSWA0 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

21 out of 40 are selected

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		

Results highlighted in red: Sep-Factor <= 1.5
Result highlighted in boxed, red and bold: all local minima indicated.

30-025-33580 - RED TANK 31 STATE 4 - INC Only+Blind to 9100ft - A (DefinitiveSurvey)													Fail Major
1152.58	32.81	1150.60	1119.77	N/A		MAS = 10.00 (m)	0.00	0.00					Surface
1152.19	32.81	1150.17	1119.39	27516.32		MAS = 10.00 (m)	20.00	23.00					MinPt-SF
1152.17	32.81	1150.15	1119.36	31728.06		MAS = 10.00 (m)	23.00	23.00					WRP
1152.13	95.37	1087.97	1056.76	18.43		OSF1.50	1800.00	1800.00					MinPt-CtCt
1183.69	154.54	1080.07	1029.15	11.60		OSF1.50	2880.00	2875.18					MinPt-EOU
1222.51	368.17	976.52	854.34	5.00		OSF1.50	6010.00	6000.32	OSF<5.00				Enter Alert
1222.51	1236.03	397.95	-13.52	1.48		OSF1.50	8200.00	8190.32		OSF<1.50			Enter Minor
1222.51	1846.48	-9.02	-623.97	0.99		OSF1.50	8510.00	8500.32			OSF<1.00		Enter Major
1222.55	3128.46	-863.63	-1906.91	0.59		OSF1.50	9150.00	9140.32					MinPts
1592.08	2403.54	-10.82	-811.46	0.99		OSF1.50	10160.00	10150.31			OSF>1.00		Exit Major
2051.23	2053.35	681.79	2.12	1.50		OSF1.50	10880.00	10679.05		OSF>1.50			Exit Minor
2230.98	2196.86	765.87	34.13	1.52		OSF1.50	11290.00	10720.00					MinPts
2240.00	2205.81	768.96	34.19	1.52		OSF1.50	11310.00	10720.00					MinPt-ADP
2249.23	2214.94	772.11	34.29	1.52		OSF1.50	11330.00	10720.00					MinPt-SF
10295.48	3092.26	8233.47	7203.21	5.00		OSF1.50	20230.00	10720.00	OSF>5.00				Exit Alert
10928.36	3096.58	8863.47	7831.78	5.30		OSF1.50	20872.90	10720.00					TD

Coterra Coriander 1-12 State Com 154H Rev0 kFc 15Feb24 (DefinitivePlan)													Fail Minor
19.99	16.25	18.71	3.74	N/A		MAS = 4.95 (m)	0.00	0.00				CtCt<=15m<15.00	Enter Alert
19.99	16.25	18.71	3.74	N/A		MAS = 4.95 (m)	23.00	23.00					WRP
19.99	19.75	6.39	0.24	1.52		OSF1.50	1290.00	1290.00					MinPts
19.99	20.05	6.30	-0.06	1.50		OSF1.50	1330.00	1330.00	OSF<1.50				Enter Minor
19.99	27.12	1.59	-7.13	1.09		OSF1.50	1800.00	1800.00					MinPt-CtCt
20.16	27.72	1.38	-7.53	1.08		OSF1.50	1840.00	1840.00					MinPts
20.43	28.02	1.42	-7.55	1.08		OSF1.50	1860.00	1860.00					MinPt-ADP
30.71	31.14	9.63	-0.42	1.48		OSF1.50	2070.00	2069.60	OSF>1.50				Exit Minor
33.91	31.58	12.53	2.33	1.61		OSF1.50	2100.01	2099.46					MinPts
134.63	41.08	106.91	93.54	5.00		OSF1.50	2750.00	2745.89	OSF>5.00				Exit Alert
322.30	59.65	282.21	262.65	8.22		OSF1.50	3980.00	3970.32					MinPt-SF
349.15	105.58	278.44	243.57	4.99		OSF1.50	7040.00	7030.32	OSF<5.00				Enter Alert
349.19	144.27	252.68	204.92	3.65		OSF1.50	9640.00	9630.32					MinPts
349.40	144.41	252.79	204.98	3.64		OSF1.50	9660.00	9650.32					MinPt-SF
454.79	137.67	362.68	317.12	4.98		OSF1.50	10190.00	10180.24	OSF>5.00				Exit Alert
598.01	115.93	520.39	482.08	7.79		OSF1.50	11787.40	10720.00					MinPt-CtCt
597.16	180.05	476.79	417.11	4.99		OSF1.50	14920.00	10720.00	OSF<5.00				Enter Alert
549.08	207.49	410.43	341.60	3.98		OSF1.50	16090.00	10720.00					MinPt-CtCt
550.59	212.04	408.90	338.55	3.91		OSF1.50	16240.00	10720.00					MinPt-EOU
552.98	214.91	409.38	338.07	3.87		OSF1.50	16330.00	10720.00					MinPt-ADP
599.06	355.96	361.42	243.10	2.53		OSF1.50	20872.90	10720.00					MinPts

30-025-33688 - MULE DEER 36 STATE 7 - INC only to 9100ft - A (DefinitiveSurvey)													Fail Minor
516.85	32.81	514.87	484.04	N/A		MAS = 10.00 (m)	0.00	0.00					Surface
516.53	32.81	514.46	483.72	6157.09		MAS = 10.00 (m)	23.00	23.00					WRP
486.15	147.54	387.20	338.61	4.98		OSF1.50	2400.00	2397.81	OSF<5.00				Enter Alert
411.52	411.83	136.43	-0.31	1.50		OSF1.50	6070.00	6060.32					Enter Minor
411.52	590.56	17.28	-179.03	1.04		OSF1.50	9120.00	9110.32	OSF<1.50				MinPt-CtCt
411.54	590.90	17.07	-179.35	1.04		OSF1.50	9130.00	9120.32					MinPts
494.44	495.87	163.33	-1.42	1.50		OSF1.50	9400.00	9390.32	OSF>1.50				Exit Minor
921.12	282.03	732.56	639.09	4.92		OSF1.50	9950.00	9940.32	OSF>5.00				Exit Alert
2231.92	421.05	1950.72	1810.87	7.97		OSF1.50	11660.00	10720.00					MinPt-SF
10883.87	591.31	10489.16	10292.55	27.68		OSF1.50	20872.90	10720.00					TD

Coterra Coriander 1-12 State Com 303H 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<=15m<15.00	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	7.85	2.22		MAS = 9.83 (m)	1820.00	1820.00					MinPt-EOU
40.45	32.25	21.65	8.19	2.22		MAS = 9.83 (m)	1840.00	1840.00					MinPt-SF
65.68	32.25	44.42	33.43	3.19		MAS = 9.83 (m)	2100.01	2099.46					MinPts
116.30	35.64	92.21	80.66	4.99		OSF1.50	2390.00	2387.86	OSF>5.00				Exit Alert
508.29	153.18	405.84	355.11	5.00		OSF1.50	10350.00	10335.46	OSF<5.00				Enter Alert
602.07	154.29	398.88	347.78	4.90		OSF1.50	10510.00	10474.57					MinPt-CtCt
502.09	154.36	398.86	347.73	4.90		OSF1.50	10520.00	10482.47					MinPts
502.37	154.50	399.05	347.88	4.90		OSF1.50	10540.00	10497.95					MinPt-SF
514.42	155.35	410.52	359.07	4.99		OSF1.50	10670.00	10586.78	OSF>5.00				Exit Alert
693.00	117.52	614.33	575.48	8.91		OSF1.50	11787.40	10720.00					MinPt-CtCt
693.24	208.93	553.63	484.32	4.99		OSF1.50	15990.00	10720.00	OSF<5.00				Enter Alert
693.52	354.70	456.73	338.83	2.94		OSF1.50	20872.90	10720.00					MinPts

Coterra Coriander 1-12 Federal Com 6H Corrected MWD to 22356ft (DefinitiveSurvey)													Warning Alert
99.98	32.81	98.69	67.17	N/A		MAS = 10.00 (m)	0.00	0.00					Surface
99.97	32.81	98.68	67.16	46925.97		MAS = 10.00 (m)	23.00	23.00					WRP
99.93	32.81	98.26	67.11	265.58		MAS = 10.00 (m)	90.00	90.00					MinPts
79.37	32.81	62.63	46.56	4.98		MAS = 10.00 (m)	1830.00	1830.00	OSF<5.00				Enter Alert
63.75	32.81	44.92	30.94	3.52		MAS = 10.00 (m)	2107.60	2107.01					MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
63.98	32.81	44.71	31.17	3.45		MAS = 10.00 (m)	2160.00	2159.12				MinPt-EOU	
66.04	32.81	45.85	33.23	3.39		MAS = 10.00 (m)	2270.00	2268.52				MinPt-SF	
152.24	46.39	120.99	105.85	5.00		OSF1.50	3470.00	3461.95	OSF>5.00			Exit Alert	
559.96	111.08	485.58	448.88	7.62		OSF1.50	7910.00	7900.32				MinPt-CtCt	
555.46	128.03	469.78	427.43	6.55		OSF1.50	9100.00	9090.32				MinPt-CtCt	
556.36	131.26	468.53	425.11	6.40		OSF1.50	9320.00	9310.32				MinPt-EOU	
557.12	132.13	468.71	424.99	6.36		OSF1.50	9380.00	9370.32				MinPt-ADP	
562.52	143.45	466.56	419.07	5.91		OSF1.50	10210.00	10200.12				MinPt-CtCt	
562.57	143.58	466.52	418.99	5.91		OSF1.50	10230.00	10219.91				MinPt-EOU	
562.62	143.65	466.53	418.97	5.91		OSF1.50	10240.00	10229.77				MinPt-ADP	
563.70	144.09	467.31	419.61	5.90		OSF1.50	10310.00	10297.71				MinPt-SF	
1766.29	128.06	1680.60	1638.24	20.84		OSF1.50	12190.00	10720.00				MinPt-EOU	
1766.52	128.32	1680.65	1638.20	20.80		OSF1.50	12220.00	10720.00				MinPt-ADP	
1793.23	144.16	1696.79	1649.06	18.78		OSF1.50	13220.00	10720.00				MinPt-CtCt	
1792.36	150.75	1691.53	1641.61	17.94		OSF1.50	13570.00	10720.00				MinPt-CtCt	
1791.46	155.22	1687.67	1636.26	17.41		OSF1.50	13790.00	10720.00				MinPt-CtCt	
1791.99	156.81	1687.13	1635.19	17.24		OSF1.50	13880.00	10720.00				MinPt-EOU	
1795.86	161.42	1687.92	1634.44	16.78		OSF1.50	14100.00	10720.00				MinPt-ADP	
1798.00	164.26	1688.17	1633.74	16.51		OSF1.50	14210.00	10720.00				MinPt-EOU	
1799.47	166.00	1688.47	1633.47	16.35		OSF1.50	14290.00	10720.00				MinPt-ADP	
1802.45	170.13	1688.70	1632.31	15.98		OSF1.50	14460.00	10720.00				MinPt-EOU	
1803.44	171.38	1688.86	1632.08	15.87		OSF1.50	14520.00	10720.00				MinPt-ADP	
1810.97	177.65	1692.21	1633.32	15.37		OSF1.50	14780.00	10720.00				MinPt-EOU	
1812.96	179.91	1692.69	1633.05	15.19		OSF1.50	14880.00	10720.00				MinPt-ADP	
1807.46	200.81	1673.24	1606.63	13.56		OSF1.50	15680.00	10720.00				MinPt-CtCt	
1807.65	201.52	1672.97	1606.13	13.51		OSF1.50	15720.00	10720.00				MinPt-EOU	
1807.93	201.85	1673.03	1606.09	13.49		OSF1.50	15740.00	10720.00				MinPt-ADP	
1811.20	226.62	1659.80	1584.59	12.03		OSF1.50	16630.00	10720.00				MinPt-CtCt	
1810.93	233.62	1654.85	1577.30	11.67		OSF1.50	16880.00	10720.00				MinPt-CtCt	
1811.47	243.01	1649.13	1568.46	11.22		OSF1.50	17210.00	10720.00				MinPt-CtCt	
1811.40	249.90	1644.48	1561.51	10.91		OSF1.50	17450.00	10720.00				MinPt-CtCt	
1787.75	308.03	1582.06	1479.71	8.73		OSF1.50	19410.00	10720.00				MinPt-CtCt	
1788.97	313.78	1579.45	1475.19	8.57		OSF1.50	19620.00	10720.00				MinPt-EOU	
1788.75	326.80	1570.55	1461.95	8.23		OSF1.50	20030.00	10720.00				MinPt-CtCt	
1788.93	327.35	1570.37	1461.58	8.22		OSF1.50	20060.00	10720.00				MinPt-EOU	
1789.21	327.70	1570.42	1461.51	8.21		OSF1.50	20080.00	10720.00				MinPt-ADP	
1794.97	335.19	1571.22	1459.84	8.05		OSF1.50	20320.00	10720.00				MinPt-EOU	
1795.73	336.06	1571.36	1459.67	8.03		OSF1.50	20360.00	10720.00				MinPt-ADP	
1782.45	352.74	1546.95	1429.74	7.60		OSF1.50	20872.90	10720.00				MinPts	

Coterra Coriander 1-12 State Com SH Corrected MWD to 22532ft (DefinitiveSurvey)

Warning Alert

116.60	32.81	115.42	83.79	4259583.23	MAS = 10.00 (m)	0.00	0.00					MinPts	
116.61	32.81	115.43	83.80	22698.84	MAS = 10.00 (m)	23.00	23.00					WRP	
117.62	32.81	114.96	84.81	78.65	MAS = 10.00 (m)	220.00	220.00					MinPt-EOU	
117.53	32.81	104.28	84.73	9.64	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
93.39	32.81	73.84	60.59	4.98	MAS = 10.00 (m)	1949.93	1949.93		OSF<5.00			Enter Alert	
88.65	32.81	67.37	55.85	4.32	MAS = 10.00 (m)	2125.46	2124.77					MinPts	
88.69	33.28	66.18	55.41	4.07	OSF1.50	2250.00	2248.63					MinPt-CtCt	
90.37	38.40	84.44	51.97	3.58	OSF1.50	2590.00	2586.77					MinPt-EOU	
91.24	39.47	84.60	51.77	3.52	OSF1.50	2660.00	2656.38					MinPt-ADP	
93.81	41.89	85.55	51.92	3.40	OSF1.50	2820.00	2815.51					MinPt-ADP	
101.67	46.33	70.45	55.34	3.33	OSF1.50	3110.00	3103.92					MinPt-SF	
92.45	80.45	38.52	12.04	1.73	OSF1.50	5360.00	5350.32					MinPt-CtCt	
93.35	83.26	37.52	10.09	1.68	OSF1.50	5550.00	5540.32					MinPt-EOU	
93.85	83.85	37.62	10.00	1.68	OSF1.50	5590.00	5580.32					MinPt-ADP	
94.01	84.00	37.68	10.01	1.68	OSF1.50	5600.00	5590.32					MinPt-SF	
138.48	103.29	69.29	35.19	2.02	OSF1.50	6900.00	6890.32					MinPt-SF	
146.21	109.25	73.05	36.96	2.01	OSF1.50	7300.00	7290.32					MinPt-SF	
148.63	111.04	74.28	37.60	2.01	OSF1.50	7420.00	7410.32					MinPt-SF	
158.09	119.84	77.87	38.25	1.98	OSF1.50	8010.00	8000.32					MinPt-ADP	
164.22	126.56	79.52	37.67	1.95	OSF1.50	8460.00	8450.32					MinPt-EOU	
168.96	138.06	76.59	30.90	1.84	OSF1.50	9230.00	9220.32					MinPt-EOU	
172.62	145.50	75.29	27.12	1.78	OSF1.50	9730.00	9720.32					MinPt-EOU	
173.84	147.00	75.52	26.84	1.78	OSF1.50	9830.00	9820.32					MinPt-ADP	
175.36	148.35	76.14	27.01	1.77	OSF1.50	9920.00	9910.32					MinPt-SF	
515.79	156.21	411.32	359.58	4.97	OSF1.50	10910.00	10886.64		OSF>5.00			Exit Alert	
1750.85	124.22	1667.71	1626.63	21.30	OSF1.50	12650.00	10720.00					MinPt-ADP	
1755.26	128.65	1669.16	1626.60	20.61	OSF1.50	12890.00	10720.00					MinPt-ADP	
1759.87	132.41	1671.27	1627.47	20.08	OSF1.50	13080.00	10720.00					MinPt-EOU	
1751.11	165.14	1640.69	1585.97	15.99	OSF1.50	14470.00	10720.00					MinPt-CtCt	
1753.91	171.19	1639.46	1582.73	15.45	OSF1.50	14730.00	10720.00					MinPt-EOU	
1764.05	192.40	1635.46	1571.65	13.82	OSF1.50	15520.00	10720.00					MinPt-EOU	
1771.37	212.43	1629.42	1558.94	12.56	OSF1.50	16210.00	10720.00					MinPt-CtCt	
1771.98	214.16	1628.89	1557.84	12.46	OSF1.50	16290.00	10720.00					MinPt-EOU	
1772.68	215.11	1628.94	1557.57	12.41	OSF1.50	16330.00	10720.00					MinPt-EOU	
1778.49	225.08	1628.11	1553.41	11.90	OSF1.50	16670.00	10720.00					MinPt-EOU	
1780.73	243.52	1618.05	1537.21	11.01	OSF1.50	17270.00	10720.00					MinPt-CtCt	
1781.21	250.05	1614.18	1531.16	10.72	OSF1.50	17490.00	10720.00					MinPt-CtCt	
1781.98	252.97	1613.00	1529.01	10.60	OSF1.50	17610.00	10720.00					MinPt-EOU	
1779.04	299.89	1578.78	1479.15	8.92	OSF1.50	19130.00	10720.00					MinPt-CtCt	
1779.97	302.54	1577.95	1477.43	8.85	OSF1.50	19240.00	10720.00					MinPt-EOU	
1780.45	312.57	1571.74	1467.88	8.57	OSF1.50	19540.00	10720.00					MinPt-CtCt	
1780.97	314.09	1571.25	1466.89	8.53	OSF1.50	19610.00	10720.00					MinPt-EOU	
1783.50	322.38	1568.26	1461.12	8.32	OSF1.50	19880.00	10720.00					MinPt-EOU	
1784.38	327.52	1565.69	1456.84	8.19	OSF1.50	20020.00	10720.00					MinPt-CtCt	
1782.33	348.49	1549.68	1433.84	7.69	OSF1.50	20690.00	10720.00					MinPt-CtCt	
1783.19	354.24	1546.70	1428.95	7.57	OSF1.50	20872.90	10720.00					MinPts	

30-025-43738 Cimarex Coriander AOC 1-12 State 3H - Corrected MWD to 19431ft (DefinitiveSurvey)

Warning Alert

121.59	32.81	120.31	88.78	2279229.18	MAS = 10.00 (m)	0.00	0.00					Surface	
121.59	32.81	120.29	88.78	11106.40	MAS = 10.00 (m)	23.00	23.00					WRP	
116.27	32.81	103.84	83.47	10.32	MAS = 10.00 (m)	1190.00	1190.00					MinPt-EOU	
115.97	32.81	102.70	83.16	9.46	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
115.65	32.81	101.06	82.74	8.48	MAS = 10.00 (m)	1426.77	1426.77					MinPts	
117.75	32.81	99.35	84.94	6.70	MAS = 10.00 (m)	1820.00	1820.00					MinPt-EOU	
127.02	32.81	105.93	94.21	6.27	MAS = 10.00 (m)	2090.00	2089.50					MinPt-SF	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
1217.07	91.04	1156.05	1126.03	20.26		OSF1.50	11340.00	10720.00				MinPt-EOU	
1217.28	91.28	1156.10	1126.00	20.21		OSF1.50	11360.00	10720.00				MinPt-ADP	
1166.10	139.86	1072.53	1026.24	12.58		OSF1.50	13920.00	10720.00				MinPt-CtCt	
1165.79	143.97	1069.48	1021.82	12.22		OSF1.50	14080.00	10720.00				MinPt-CtCt	
1166.20	145.16	1069.09	1021.04	12.12		OSF1.50	14130.00	10720.00				MinPt-EOU	
1166.79	145.88	1069.21	1020.91	12.07		OSF1.50	14160.00	10720.00				MinPt-ADP	
1190.57	184.70	1067.11	1005.87	9.71		OSF1.50	15580.00	10720.00				MinPt-CtCt	
1195.23	194.64	1065.14	1000.59	9.25		OSF1.50	15930.00	10720.00				MinPt-EOU	
1201.56	203.43	1065.61	998.13	8.90		OSF1.50	16230.00	10720.00				MinPt-EOU	
1216.40	220.84	1068.85	995.55	8.29		OSF1.50	16820.00	10720.00				MinPt-ADP	
1220.72	226.65	1069.29	994.06	8.11		OSF1.50	17010.00	10720.00				MinPt-EOU	
1221.19	263.06	1045.48	958.12	6.98		OSF1.50	18200.00	10720.00				MinPt-CtCt	
1194.50	322.27	979.33	872.23	5.57		OSF1.50	20090.00	10720.00				MinPt-CtCt	
1193.23	344.19	963.45	849.05	5.21		OSF1.50	20780.00	10720.00				MinPt-CtCt	
1192.83	347.13	961.06	845.70	5.16		OSF1.50	20872.90	10720.00				MinPts	

30-025-43737 Cimarex Coriander AOC 1-12 State 2H - Corrected MWD to 19642ft (DefinitiveSurvey)

Warning Alert

119.90	32.81	118.62	87.10	52235.88	MAS = 10.00 (m)	0.00	0.00					Surface	
119.89	32.81	118.60	87.08	12276.57	MAS = 10.00 (m)	23.00	23.00					WRP	
118.39	32.81	114.50	85.59	44.89	MAS = 10.00 (m)	354.26	354.26					MinPts	
119.02	32.81	110.73	86.21	16.81	MAS = 10.00 (m)	800.00	800.00					MinPts	
119.01	32.81	107.43	86.20	11.44	MAS = 10.00 (m)	1130.00	1130.00					MinPts	
119.06	32.81	106.78	86.26	10.71	MAS = 10.00 (m)	1200.00	1200.00					MinPt-EOU	
119.12	32.81	106.10	86.31	9.92	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
119.08	32.81	105.41	86.28	9.30	MAS = 10.00 (m)	1370.00	1370.00					MinPts	
121.13	32.81	103.00	86.32	7.04	MAS = 10.00 (m)	1810.00	1810.00					MinPt-EOU	
127.62	32.81	107.79	94.81	6.72	MAS = 10.00 (m)	1990.00	1989.86					MinPt-SF	
136.80	32.81	115.90	103.99	6.82	MAS = 10.00 (m)	2100.01	2099.46					MinPts	
302.14	60.30	261.61	241.84	7.62	OSF1.50	4090.00	4080.32					MinPt-CtCt	
302.41	61.01	261.41	241.40	7.53	OSF1.50	4140.00	4130.32					MinPt-EOU	
302.65	61.28	261.46	241.36	7.50	OSF1.50	4160.00	4150.32					MinPt-ADP	
310.00	93.84	247.12	216.17	4.99	OSF1.50	6360.00	6350.32		OSF<5.00			Enter Alert	
279.33	127.40	194.07	151.93	3.30	OSF1.50	8630.00	8620.32					MinPt-CtCt	
280.79	135.69	190.00	145.10	3.12	OSF1.50	9190.00	9180.32					MinPt-EOU	
280.87	135.80	190.01	145.07	3.11	OSF1.50	9200.00	9190.32					MinPts	
418.83	127.22	333.68	291.60	4.96	OSF1.50	9670.00	9660.32		OSF>5.00			Exit Alert	
957.33	108.20	884.87	849.13	13.38	OSF1.50	12800.00	10720.00					MinPt-CtCt	
957.76	109.45	884.47	848.32	13.23	OSF1.50	12860.00	10720.00					MinPt-EOU	
958.29	110.08	884.58	848.21	13.16	OSF1.50	12890.00	10720.00					MinPt-ADP	
954.04	116.60	875.98	837.44	12.36	OSF1.50	13180.00	10720.00					MinPt-CtCt	
955.10	119.12	875.35	835.97	12.11	OSF1.50	13290.00	10720.00					MinPt-EOU	
936.66	137.18	844.88	799.48	10.30	OSF1.50	14010.00	10720.00					MinPt-CtCt	
937.15	138.69	844.36	798.45	10.20	OSF1.50	14070.00	10720.00					MinPt-EOU	
937.79	139.45	844.50	798.35	10.15	OSF1.50	14100.00	10720.00					MinPt-ADP	
914.79	170.04	801.10	744.75	8.11	OSF1.50	15200.00	10720.00					MinPt-CtCt	
915.73	172.82	800.19	742.91	7.99	OSF1.50	15300.00	10720.00					MinPt-EOU	
917.34	174.78	800.49	742.55	7.91	OSF1.50	15370.00	10720.00					MinPt-ADP	
920.94	181.23	799.79	739.71	7.66	OSF1.50	15590.00	10720.00					MinPt-EOU	
923.04	183.80	800.18	739.24	7.57	OSF1.50	15680.00	10720.00					MinPt-ADP	
928.48	191.92	801.22	737.57	7.29	OSF1.50	15950.00	10720.00					MinPt-CtCt	
930.12	193.89	800.53	736.23	7.22	OSF1.50	16020.00	10720.00					MinPt-EOU	
932.96	201.05	798.60	731.91	6.99	OSF1.50	16260.00	10720.00					MinPt-EOU	
934.13	202.48	798.82	731.65	6.95	OSF1.50	16310.00	10720.00					MinPt-ADP	
936.16	206.57	798.11	729.59	6.82	OSF1.50	16440.00	10720.00					MinPt-CtCt	
924.36	227.58	772.31	696.78	6.11	OSF1.50	17130.00	10720.00					MinPt-CtCt	
926.76	250.71	759.29	676.05	5.56	OSF1.50	17880.00	10720.00					MinPt-CtCt	
928.78	259.58	755.39	669.19	5.38	OSF1.50	18170.00	10720.00					MinPt-EOU	
930.01	261.05	755.65	668.96	5.36	OSF1.50	18220.00	10720.00					MinPt-ADP	
936.15	274.58	752.77	661.58	5.13	OSF1.50	18650.00	10720.00					MinPt-EOU	
940.04	280.54	752.69	659.50	5.04	OSF1.50	18840.00	10720.00					MinPt-EOU	
942.06	282.96	753.09	659.10	5.01	OSF1.50	18920.00	10720.00					MinPt-ADP	
942.69	283.56	753.32	659.13	5.00	OSF1.50	18940.00	10720.00		OSF<5.00			Enter Alert	
969.55	317.49	757.55	652.06	4.59	OSF1.50	20010.00	10720.00					MinPt-EOU	
975.93	338.06	750.23	637.87	4.34	OSF1.50	20650.00	10720.00					MinPt-CtCt	
977.42	345.10	747.02	632.32	4.26	OSF1.50	20872.90	10720.00					MinPts	

Coterra Coriander 1-12 State Com 4H Corrected MWD to 22335ft (DefinitiveSurvey)

Warning Alert

134.14	32.81	132.85	101.33	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
134.14	32.81	132.85	101.33	N/A	MAS = 10.00 (m)	10.00	10.00					MinPts
134.14	32.81	132.85	101.33	49271.77	MAS = 10.00 (m)	23.00	23.00					WRP
137.70	32.81	124.42	104.90	11.37	MAS = 10.00 (m)	1280.00	1280.00					MinPt-EOU
133.51	32.81	116.93	100.70	8.50	MAS = 10.00 (m)	1644.90	1644.90					MinPts
133.69	32.81	116.78	100.88	8.33	MAS = 10.00 (m)	1680.00	1680.00					MinPt-EOU
150.40	32.81	129.72	117.59	7.59	MAS = 10.00 (m)	2060.00	2059.64					MinPt-SF
153.70	32.81	132.63	120.89	7.60	MAS = 10.00 (m)	2100.01	2099.46					MinPts
233.13	68.72	186.99	164.41	5.14	OSF1.50	4630.00	4620.32					MinPt-CiCi
233.49	69.74	186.67	163.75	5.07	OSF1.50	4700.00	4690.32					MinPt-EOU
233.96	70.31	186.75	163.64	5.04	OSF1.50	4740.00	4730.32					MinPt-ADP
235.20	71.32	187.33	163.89	5.00	OSF1.50	4810.00	4800.32		OSF<5.00			Enter Alert
218.30	95.71	154.17	122.59	3.44	OSF1.50	6450.00	6440.32					MinPt-CiCi
217.90	100.55	150.54	117.35	3.27	OSF1.50	6780.00	6770.32					MinPt-CiCi
158.08	152.13	56.34	5.95	1.56	OSF1.50	10410.00	10390.13					MinPt-CiCi
158.09	152.20	56.29	5.89	1.56	OSF1.50	10420.00	10398.97					MinPts
505.42	154.97	401.78	350.45	4.91	OSF1.50	11010.00	10706.33		OSF>5.00			Exit Alert
1482.51	116.87	1404.27	1365.64	19.18	OSF1.50	12140.00	10720.00					MinPt-ADP
1485.51	122.50	1403.51	1363.01	18.32	OSF1.50	12490.00	10720.00					MinPt-EOU
1486.42	123.56	1403.71	1362.85	18.18	OSF1.50	12560.00	10720.00					MinPt-ADP
1518.74	147.24	1420.25	1371.50	15.57	OSF1.50	13700.00	10720.00					MinPt-CiCi
1518.88	147.62	1420.14	1371.26	15.53	OSF1.50	13730.00	10720.00					MinPt-EOU
1519.00	147.75	1420.17	1371.25	15.51	OSF1.50	13740.00	10720.00					MinPt-ADP
1521.85	152.56	1419.81	1369.28	15.05	OSF1.50	13930.00	10720.00					MinPt-CiCi
1522.31	153.83	1419.43	1368.48	14.93	OSF1.50	14000.00	10720.00					MinPt-EOU
1522.78	154.38	1419.54	1368.41	14.88	OSF1.50	14030.00	10720.00					MinPt-ADP
1525.66	157.65	1420.23	1368.01	14.60	OSF1.50	14170.00	10720.00					MinPt-ADP
1529.73	164.37	1419.82	1365.36	14.04	OSF1.50	14410.00	10720.00					MinPt-CiCi
1530.06	165.48	1419.41	1364.58	13.94	OSF1.50	14470.00	10720.00					MinPt-EOU
1530.50	166.03	1419.48	1364.46	13.90	OSF1.50	14500.00	10720.00					MinPt-ADP
1527.03	177.25	1408.53	1349.78	12.99	OSF1.50	14910.00	10720.00					MinPt-CiCi
1527.35	178.18	1408.24	1349.17	12.92	OSF1.50	14960.00	10720.00					MinPt-EOU
1529.08	180.19	1408.63	1348.89	12.79	OSF1.50	15050.00	10720.00					MinPt-ADP
1533.53	189.64	1406.77	1343.89	12.18	OSF1.50	15390.00	10720.00					MinPt-EOU
1534.87	191.26	1407.04	1343.62	12.09	OSF1.50	15460.00	10720.00					MinPt-ADP
1537.09	194.17	1407.31	1342.92	11.93	OSF1.50	15560.00	10720.00					MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
1550.41	207.79	1411.56	1342.63	11.24		OSF1.50	16040.00	10720.00				MinPt-EOU	
1553.23	211.23	1412.08	1342.00	11.07		OSF1.50	16170.00	10720.00				MinPt-ADP	
1557.37	216.43	1412.76	1340.94	10.84		OSF1.50	16340.00	10720.00				MinPt-EOU	
1559.16	221.71	1411.03	1337.45	10.59		OSF1.50	16500.00	10720.00				MinPt-CiCt	
1559.64	223.14	1410.55	1336.50	10.52		OSF1.50	16570.00	10720.00				MinPt-EOU	
1560.18	223.75	1410.68	1336.43	10.50		OSF1.50	16600.00	10720.00				MinPt-ADP	
1564.62	233.88	1408.37	1330.74	10.07		OSF1.50	16920.00	10720.00				MinPt-CiCt	
1565.45	236.56	1407.41	1328.89	9.96		OSF1.50	17030.00	10720.00				MinPt-EOU	
1568.25	247.29	1403.06	1320.96	9.54		OSF1.50	17370.00	10720.00				MinPt-CiCt	
1569.17	249.94	1402.21	1319.22	9.45		OSF1.50	17480.00	10720.00				MinPt-EOU	
1570.16	251.15	1402.40	1319.01	9.41		OSF1.50	17530.00	10720.00				MinPt-ADP	
1566.99	263.20	1391.20	1303.79	8.96		OSF1.50	17900.00	10720.00				MinPt-CiCt	
1567.29	264.14	1390.87	1303.15	8.93		OSF1.50	17950.00	10720.00				MinPt-EOU	
1567.61	264.51	1390.94	1303.10	8.92		OSF1.50	17970.00	10720.00				MinPt-ADP	
1569.63	284.71	1379.50	1284.92	8.29		OSF1.50	18610.00	10720.00				MinPt-CiCt	
1568.26	296.10	1370.54	1272.17	7.97		OSF1.50	18980.00	10720.00				MinPt-CiCt	
1568.66	297.30	1370.13	1271.36	7.94		OSF1.50	19040.00	10720.00				MinPt-EOU	
1569.00	297.69	1370.21	1271.31	7.93		OSF1.50	19060.00	10720.00				MinPt-ADP	
1566.63	311.16	1358.86	1255.47	7.57		OSF1.50	19470.00	10720.00				MinPt-CiCt	
1556.25	325.72	1338.78	1230.53	7.18		OSF1.50	19940.00	10720.00				MinPt-CiCt	
1556.82	327.61	1338.09	1229.22	7.15		OSF1.50	20020.00	10720.00				MinPt-EOU	
1557.55	328.51	1338.22	1229.04	7.13		OSF1.50	20060.00	10720.00				MinPt-ADP	
1555.19	354.84	1318.29	1200.34	6.59		OSF1.50	20870.00	10720.00				MinPt-CiCt	
1555.18	354.86	1318.28	1200.32	6.59		OSF1.50	20872.90	10720.00				MinPts	

30-025-43736 Cimarex Coriander AOC 1-12 State 1H - MWD to 19004ft (DefinitiveSurvey)

Warning Alert

216.21	32.81	214.24	183.41	2148047.32	MAS = 10.00 (m)	0.00	0.00					Surface	
216.20	32.81	214.21	183.39	29604.76	MAS = 10.00 (m)	23.00	23.00					WRP	
208.24	32.81	194.16	175.43	17.04	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
206.30	32.81	187.13	173.49	11.75	MAS = 10.00 (m)	1819.87	1819.87					MinPts	
206.46	32.81	186.99	173.65	11.56	MAS = 10.00 (m)	1850.00	1850.00					MinPt-EOU	
219.36	32.81	197.39	186.55	10.77	MAS = 10.00 (m)	2100.01	2099.46					MinPt-EOU	
303.01	45.44	272.13	257.57	10.34	OSF1.50	3010.00	3004.47					MinPt-SF	
398.38	59.51	358.12	338.87	10.30	OSF1.50	3980.00	3970.32					MinPt-ADP	
409.01	66.62	364.01	342.39	9.42	OSF1.50	4460.00	4450.32					MinPt-CiCt	
409.36	67.61	363.70	341.75	9.28	OSF1.50	4530.00	4520.32					MinPt-EOU	
409.83	68.18	363.79	341.65	9.22	OSF1.50	4570.00	4560.32					MinPt-ADP	
419.22	85.36	361.78	333.87	7.48	OSF1.50	5740.00	5730.32					MinPt-CiCt	
395.21	119.85	314.77	275.35	4.99	OSF1.50	8060.00	8050.32	OSF<5.00				Enter Alert	
390.18	132.60	301.24	257.58	4.45	OSF1.50	8920.00	8910.32					MinPt-CiCt	
390.24	132.86	301.13	257.38	4.44	OSF1.50	8940.00	8930.32					MinPt-EOU	
390.33	132.99	301.13	257.34	4.44	OSF1.50	8950.00	8940.32					MinPt-ADP	
391.39	133.60	301.79	257.80	4.43	OSF1.50	9000.00	8990.32					MinPt-SF	
434.01	131.98	345.49	302.04	4.98	OSF1.50	9250.00	9240.32	OSF>5.00				Exit Alert	
1169.42	116.50	1091.25	1052.92	15.23	OSF1.50	12920.00	10720.00					MinPt-CiCt	
1171.47	122.29	1089.44	1049.18	14.53	OSF1.50	13180.00	10720.00					MinPt-EOU	
1175.57	127.94	1089.77	1047.63	13.93	OSF1.50	13410.00	10720.00					MinPt-EOU	
1178.33	146.76	1079.99	1031.57	12.15	OSF1.50	14110.00	10720.00					MinPt-CiCt	
1178.56	150.46	1077.76	1028.11	11.85	OSF1.50	14250.00	10720.00					MinPt-CiCt	
1179.76	153.61	1076.85	1026.15	11.62	OSF1.50	14370.00	10720.00					MinPt-EOU	
1181.81	156.05	1077.28	1025.75	11.46	OSF1.50	14460.00	10720.00					MinPt-ADP	
1177.10	183.44	1054.30	993.65	9.69	OSF1.50	15420.00	10720.00					MinPt-CiCt	
1177.66	184.96	1053.83	992.67	9.61	OSF1.50	15480.00	10720.00					MinPt-EOU	
1178.78	186.32	1054.06	992.46	9.55	OSF1.50	15530.00	10720.00					MinPt-ADP	
1186.40	203.96	1049.93	982.44	8.78	OSF1.50	16100.00	10720.00					MinPt-EOU	
1181.88	237.56	1023.00	944.31	7.50	OSF1.50	17190.00	10720.00					MinPt-CiCt	
1185.94	257.35	1013.88	928.59	6.94	OSF1.50	17820.00	10720.00					MinPt-CiCt	
1181.28	276.85	996.21	904.43	6.43	OSF1.50	18410.00	10720.00					MinPt-CiCt	
1192.24	311.39	984.15	880.86	5.76	OSF1.50	19460.00	10720.00					MinPt-CiCt	
1192.18	323.44	976.06	868.74	5.55	OSF1.50	19820.00	10720.00					MinPt-CiCt	
1194.01	333.21	971.37	860.79	5.39	OSF1.50	20120.00	10720.00					MinPt-EOU	
1195.00	334.42	971.55	860.57	5.38	OSF1.50	20160.00	10720.00					MinPt-ADP	
1197.23	343.09	968.00	854.13	5.25	OSF1.50	20410.00	10720.00					MinPt-CiCt	
1197.33	343.60	967.76	853.73	5.24	OSF1.50	20430.00	10720.00					MinPt-EOU	
1197.50	343.83	967.78	853.67	5.24	OSF1.50	20440.00	10720.00					MinPt-ADP	
1199.03	344.55	968.84	854.49	5.24	OSF1.50	20480.00	10720.00					MinPt-SF	
1282.12	337.27	1056.78	944.86	5.72	OSF1.50	20872.90	10720.00					TD	

30-025-33354 - April APZ State 1 - Gyro to 10860ft - A (DefinitiveSurvey)

Warning Alert

5429.81	32.81	5428.82	5397.00	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
5429.67	32.81	5428.67	5396.87	321414.30	MAS = 10.00 (m)	23.00	23.00					WRP
5429.64	32.81	5428.56	5396.83	55585.90	MAS = 10.00 (m)	50.00	50.00					MinPts
5429.73	32.81	5414.67	5396.92	385.70	MAS = 10.00 (m)	1500.00	1500.00					MinPts
5430.94	32.81	5412.70	5398.13	314.72	MAS = 10.00 (m)	1830.00	1830.00					MinPt-EOU
5443.57	32.81	5422.66	5410.76	273.02	MAS = 10.00 (m)	2100.01	2099.46					MinPt-EOU
5586.75	58.70	5547.29	5528.06	145.17	OSF1.50	3990.00	3980.32					MinPt-ADP
5589.71	62.39	5547.79	5527.32	136.51	OSF1.50	4230.00	4220.32					MinPt-EOU
5591.08	63.94	5548.13	5527.14	133.20	OSF1.50	4350.00	4340.32					MinPt-ADP
5593.74	67.42	5548.47	5526.32	126.27	OSF1.50	4570.00	4560.32					MinPt-EOU
5598.29	76.16	5547.19	5522.13	111.69	OSF1.50	5140.00	5130.32					MinPt-CiCt
5585.67	101.57	5517.63	5484.10	83.28	OSF1.50	6860.00	6850.32					MinPt-CiCt
5585.70	102.76	5516.86	5482.94	82.31	OSF1.50	6940.00	6930.32					MinPt-CiCt
5586.31	112.81	5510.77	5473.49	74.92	OSF1.50	7620.00	7610.32					MinPt-CiCt
5586.38	115.03	5509.36	5471.35	73.46	OSF1.50	7770.00	7760.32					MinPt-CiCt
5587.13	122.58	5505.08	5464.55	68.91	OSF1.50	8280.00	8270.32					MinPt-CiCt
5587.40	127.03	5502.38	5460.37	66.48	OSF1.50	8580.00	8570.32					MinPt-CiCt
5587.41	128.21	5501.61	5459.20	65.86	OSF1.50	8660.00	8650.32					MinPt-CiCt
5588.33	132.50	5499.67	5455.84	63.73	OSF1.50	8970.00	8960.32					MinPt-EOU
5588.60	132.82	5499.73	5455.78	63.58	OSF1.50	9000.00	8990.32					MinPt-ADP
5588.68	133.82	5500.14	5455.86	63.11	OSF1.50	9080.00	9070.32					MinPt-ADP
5604.71	142.83	5509.15	5461.87	59.26	OSF1.50	9700.00	9690.32					MinPt-ADP
5606.24	144.33	5509.70	5461.92	58.66	OSF1.50	9790.00	9780.32					MinPt-ADP
5606.97	145.21	5509.84	5461.77	58.31	OSF1.50	9840.00	9830.32					MinPt-EOU
5608.17	146.65	5510.08	5461.52	57.74	OSF1.50	9940.00	9930.32					MinPt-ADP
5608.70	147.20	5510.25	5461.51	57.53	OSF1.50	9980.00	9970.32					MinPt-ADP
564.97	171.06	450.60	393.91	4.97	OSF1.50	15630.00	10720.00	OSF<5.00				Enter Alert
344.83	200.91	210.57	143.93	2.58	OSF1.50	16077.54	10720.00					MinPt-CiCt
344.84	200.96	210.54	143.88	2.58	OSF1.50	16080.00	10720.00					MinPts
345.06	201.13	210.64	143.93	2.66	OSF1.50	16090.00	10720.00					MinPt-SF
593.01	178.74	473.52	414.27	5.00	OSF1.50	16560.00	10720.00	OSF>5.00				Exit Alert
4807.63	168.17	4695.19	4639.46	43.13	OSF1.50	20872.90	10720.00					TD

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	397.60	32.81	395.62	364.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	397.01	32.81	394.94	364.20	4365.60	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	396.63	32.81	394.59	363.82	6630.45	MAS = 10.00 (m)	23.00	23.00				WRP	
	396.60	100.81	328.80	295.79	5.98	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	399.26	108.96	326.02	290.28	5.56	OSF1.50	1930.00	1929.96				MinPt-EOU	
	402.92	113.38	326.74	289.53	5.39	OSF1.50	2000.00	1999.84				MinPt-ADP	
	410.84	119.67	330.47	291.17	5.20	OSF1.50	2100.01	2099.46				MinPts	
	425.17	129.04	338.56	296.13	4.99	OSF1.50	2250.00	2248.63	OSF<5.00			Enter Alert	
	579.13	575.37	195.01	3.76	1.51	OSF1.50	9160.00	9150.32				MinPts	
	1072.55	324.71	855.53	747.83	4.97	OSF1.50	10060.00	10050.32	OSF>5.00			Exit Alert	
	2184.56	410.61	1910.32	1773.95	8.00	OSF1.50	12250.00	10720.00				MinPt-SF	
	10232.36	575.82	9847.97	9656.53	26.72	OSF1.50	20872.90	10720.00				TD	
30-025-47636 - WILD SALSA FED COM 226H - MWD to 21865ft - A (DefinitiveSurvey)												Warning Alert	
	15228.90	212.23	15086.75	15016.67	108.63	OSF1.50	0.00	0.00				Surface	
	15212.13	212.17	15070.02	14999.96	108.55	OSF1.50	23.00	23.00				WRP	
	13780.84	200.30	13646.73	13580.55	104.11	OSF1.50	2100.00	2099.45				MinPt-SF	
	978.43	295.33	781.04	683.10	4.99	OSF1.50	20190.00	10720.00	OSF<5.00			Enter Alert	
	526.65	459.96	219.51	66.69	1.72	OSF1.50	20872.90	10720.00				MinPts	
30-025-47629 - WILD SALSA FED COM 215H - MWD to 21650ft - A (DefinitiveSurvey)												Warning Alert	
	14919.43	206.59	14781.04	14712.84	109.36	OSF1.50	0.00	0.00				Surface	
	14902.97	206.51	14764.63	14696.46	109.28	OSF1.50	23.00	23.00				WRP	
	13504.05	192.90	13374.87	13311.16	105.96	OSF1.50	2100.00	2099.45				MinPt-SF	
	12788.07	183.24	12665.32	12604.83	105.69	OSF1.50	3420.00	3412.22				MinPt-SF	
	1194.03	363.25	951.37	830.79	4.94	OSF1.50	20030.00	10720.00	OSF<5.00			Enter Alert	
	686.12	600.86	285.16	85.46	1.71	OSF1.50	20872.90	10720.00				MinPts	
Coterra Coriander 1-12 Federal Com 223H Rev1 kFc 15Feb24 (DefinitivePlan)												Warning Alert	
	1889.18	32.81	1888.00	1856.37	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1889.18	32.81	1888.00	1856.37	296025.08	MAS = 10.00 (m)	23.00	23.00				WRP	
	1889.18	32.81	1875.68	1856.37	153.24	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU	
	805.64	152.57	703.60	653.07	7.96	OSF1.50	10137.20	10127.52				MinPt-CtCt	
	805.70	152.74	703.54	652.96	7.95	OSF1.50	10160.00	10150.31				MinPt-EOU	
	805.76	152.81	703.56	652.95	7.95	OSF1.50	10170.00	10160.30				MinPt-ADP	
	808.50	153.72	705.69	654.77	7.93	OSF1.50	10290.00	10278.51				MinPt-SF	
	1036.95	312.03	828.61	724.92	5.00	OSF1.50	18910.00	10720.00	OSF<5.00			Enter Alert	
	1036.73	368.54	790.71	668.20	4.23	OSF1.50	20872.90	10720.00				MinPts	
30-025-33370 - Thyme APY Federal 1 INC Only to 10250ft (DefinitiveSurvey)												Warning Alert	
	951.71	32.81	949.73	918.90	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	951.55	32.81	949.55	918.75	44878.42	MAS = 10.00 (m)	10.00	10.00				MinPt-SF	
	951.50	32.81	949.47	918.69	18561.16	MAS = 10.00 (m)	23.00	23.00				WRP	
	854.90	258.13	682.22	596.77	4.99	OSF1.50	4480.00	4470.32	OSF<5.00			Enter Alert	
	851.73	630.66	430.75	221.07	2.03	OSF1.50	10300.00	10288.14				MinPts	
	851.60	630.29	430.87	221.31	2.03	OSF1.50	10316.82	10304.21				MinPt-CtCt	
	2051.25	616.60	1639.69	1434.66	5.00	OSF1.50	12500.00	10720.00	OSF>5.00			Exit Alert	
	10168.64	633.74	9745.65	9534.90	24.12	OSF1.50	20872.90	10720.00				TD	
30-025-47633 - Wild Salsa Federal Com 095H MWD to 20658ft - PR (DefinitiveSurvey)												Warning Alert	
	14351.17	200.92	14216.56	14150.25	108.19	OSF1.50	0.00	0.00				Surface	
	14335.34	200.82	14200.80	14134.52	108.13	OSF1.50	23.00	23.00				WRP	
	13053.23	186.52	12928.30	12866.71	105.96	OSF1.50	2010.00	2009.81				MinPt-SF	
	10546.03	162.10	10437.42	10383.93	98.55	OSF1.50	9890.00	9880.32				MinPt-CtCt	
	10546.14	162.46	10437.30	10383.69	98.34	OSF1.50	9940.00	9930.32				MinPt-EOU	
	10546.32	162.67	10437.34	10383.65	98.21	OSF1.50	9970.00	9960.32				MinPt-ADP	
	1112.74	337.30	887.37	775.44	4.96	OSF1.50	20370.00	10720.00	OSF<5.00			Enter Alert	
	911.69	399.17	645.08	512.53	3.43	OSF1.50	20872.90	10720.00				MinPts	
30-025-47633 - WILD SALSA FED COM 095H - MWD to 20658ft - A (DefinitiveSurvey)												Warning Alert	
	14349.22	200.87	14214.65	14148.35	108.20	OSF1.50	0.00	0.00				Surface	
	14333.40	200.78	14198.89	14132.62	108.14	OSF1.50	23.00	23.00				WRP	
	13051.51	186.46	12926.62	12865.05	105.96	OSF1.50	2010.00	2009.81				MinPt-SF	
	10545.95	162.08	10437.35	10383.86	98.56	OSF1.50	9890.00	9880.32				MinPt-CtCt	
	10546.07	162.43	10437.24	10383.64	98.35	OSF1.50	9940.00	9930.32				MinPt-EOU	
	10546.19	162.58	10437.26	10383.61	98.26	OSF1.50	9960.00	9950.32				MinPt-ADP	
	1114.54	337.20	889.24	777.34	4.97	OSF1.50	20370.00	10720.00	OSF<5.00			Enter Alert	
	913.93	398.81	647.56	515.12	3.44	OSF1.50	20872.90	10720.00				MinPts	
Coterra Coriander 1-12 Federal Com 153H Rev0 kFc 15Feb24 (DefinitivePlan)												Warning Alert	
	1909.15	32.81	1907.86	1876.34	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1909.15	32.81	1907.85	1876.34	358965.91	MAS = 10.00 (m)	23.00	23.00				WRP	
	1909.15	32.81	1895.54	1876.34	154.87	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU	
	990.02	146.36	892.11	843.65	10.20	OSF1.50	9864.75	9855.06				MinPt-CtCt	
	990.07	146.53	892.06	843.54	10.19	OSF1.50	9890.00	9880.32				MinPt-EOU	
	990.13	146.60	892.07	843.54	10.19	OSF1.50	9900.00	9890.32				MinPt-ADP	
	991.89	147.10	893.50	844.79	10.17	OSF1.50	9990.00	9980.32				MinPt-SF	
	1109.71	333.71	886.90	775.99	5.00	OSF1.50	19920.00	10720.00	OSF<5.00			Enter Alert	
	1109.65	361.96	868.02	747.70	4.61	OSF1.50	20872.90	10720.00				MinPts	
30-025-47634 - WILD SALSA FED COM 096H - MWD to 20416ft - A (DefinitiveSurvey)												Warning Alert	
	14146.47	198.17	14013.70	13948.31	108.15	OSF1.50	0.00	0.00				Surface	
	14130.88	198.06	13998.18	13932.82	108.08	OSF1.50	23.00	23.00				WRP	
	12889.46	183.43	12766.58	12706.02	106.41	OSF1.50	1980.00	1979.88				MinPt-SF	
	10542.45	160.77	10434.77	10381.71	99.35	OSF1.50	9600.00	9590.32				MinPt-CtCt	
	10542.58	161.11	10434.64	10381.47	99.13	OSF1.50	9650.00	9640.32				MinPt-EOU	
	10542.75	161.32	10434.67	10381.43	99.00	OSF1.50	9680.00	9670.32				MinPt-ADP	
	1212.25	366.13	967.67	846.12	4.98	OSF1.50	20670.00	10720.00	OSF<5.00			Enter Alert	
	1171.20	379.38	917.77	791.81	4.64	OSF1.50	20872.90	10720.00				MinPts	
30-025-47635 - WILD SALSA FED COM 094H - MWD to 20459ft - A (DefinitiveSurvey)												Warning Alert	
	14229.86	200.99	14095.21	14028.87	107.24	OSF1.50	0.00	0.00				Surface	
	14214.22	200.90	14079.63	14013.33	107.17	OSF1.50	23.00	23.00				WRP	
	12967.10	186.83	12841.96	12780.28	105.09	OSF1.50	1980.00	1979.88				MinPt-SF	
	10557.56	162.03	10449.01	10395.53	98.71	OSF1.50	9690.00	9680.32				MinPt-CtCt	
	10557.67	162.37	10448.89	10395.30	98.50	OSF1.50	9740.00	9730.32				MinPt-EOU	
	10557.85	162.57	10448.93	10395.27	98.38	OSF1.50	9770.00	9760.32				MinPt-ADP	
	1547.92	465.82	1236.88	1082.10	5.00	OSF1.50	20460.00	10720.00	OSF<5.00			Enter Alert	
	1454.44	497.28	1122.42	957.16	4.40	OSF1.50	20872.90	10720.00				MinPts	

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Cimarex Energy Company **OGRID:** 215099 **Date:** 1/2/24

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Coriander 1-12 State Com 213H		1, Sec 1 T23S, R32E	211 FNL/711 FEL	1834	3117	4782

IV. Central Delivery Point Name: Coriander CTB [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Coriander 1-12 State Com 213H		5/1/25	8/16/25	1/1/26	3/15/26	3/15/26

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: 
Printed Name: Sarah Jordan
Title: Regulatory Analyst
E-mail Address: sarah.jordan@coterra.com
Date: 1/2/24
Phone: 432/620-1909
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

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

Cimarex

VII. Operational Practices

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

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

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

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

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

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

- **Workovers:**
 - Always strive to kill well when performing downhole maintenance.
 - If vapors or trapped pressure is present and must be relieved then:
 - Initial blowdown to production facility:
 - Route vapors to LP flare if possible/applicable
 - Blowdown to portable gas buster tank:
 - Vent to existing or portable flare if applicable.
- **Stock tank servicing:**
 - Minimize time spent with thief hatches open.
 - When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
 - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
 - Isolate the vent lines and overflows on the tank being serviced from other tanks.
- **Pressure vessel/compressor servicing and associated blowdowns:**
 - Route to flare where possible.
 - Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
 - Preemptively changing anodes to reduce failures and extended corrosion related servicing.
 - When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.
- **Flare/combustor maintenance:**
 - Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
 - Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
 - Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

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

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

CONDITIONS

Action 453922

CONDITIONS

Operator: Coterra Energy Operating Co. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 453922
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	For future reference, please report the addition of a pool in the description of changes when going from one pool to two.	5/9/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	5/9/2025