

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 358400

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

1. Operator Name and Address CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706		2. OGRID Number 215099
		3. API Number 30-025-52661
4. Property Code 333771	5. Property Name CORIANDER 1 12 STATE COM	6. Well No. 303H

7. Surface Location

UL - Lot A	Section 1	Township 23S	Range 32E	Lot Idn 1	Feet From 211	N/S Line N	Feet From 671	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 12	Township 23S	Range 32E	Lot Idn P	Feet From 100	N/S Line S	Feet From 330	E/W Line E	County Lea
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9. Pool Information

DIAMONDTAIL;BONE SPRING	17644
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3749
16. Multiple N	17. Proposed Depth 21569	18. Formation 3rd Bone Spring Carbonate	19. Contractor	20. Spud Date 1/1/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	1306	802	0
Int1	12.25	9.625	40	4977	1020	0
Prod	8.75	7	29	11615	499	4777
Liner1	6	4.5	11.6	21569	739	11415

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	50	2000	
Pipe	50	2000	
Double Ram	50	2000	
Annular	50	3000	
Double Ram	50	3000	
Annular	50	5000	
Pipe	50	5000	
Double Ram	50	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Shelly Bowen

Title: Regulatory Analyst

Email Address: shelly.bowen@coterra.com

Date: 3/15/2024

Phone: 432-620-1644

OIL CONSERVATION DIVISION

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 3/19/2024

Expiration Date: 3/19/2026

Conditions of Approval Attached

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	17644	³ Pool Code	Diamondtail; Bone Spring
⁴ Property Code	⁵ Property Name CORIANDER 1-12 STATE COM		⁶ Well Number 303H
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.		⁹ Elevation 3749.2'

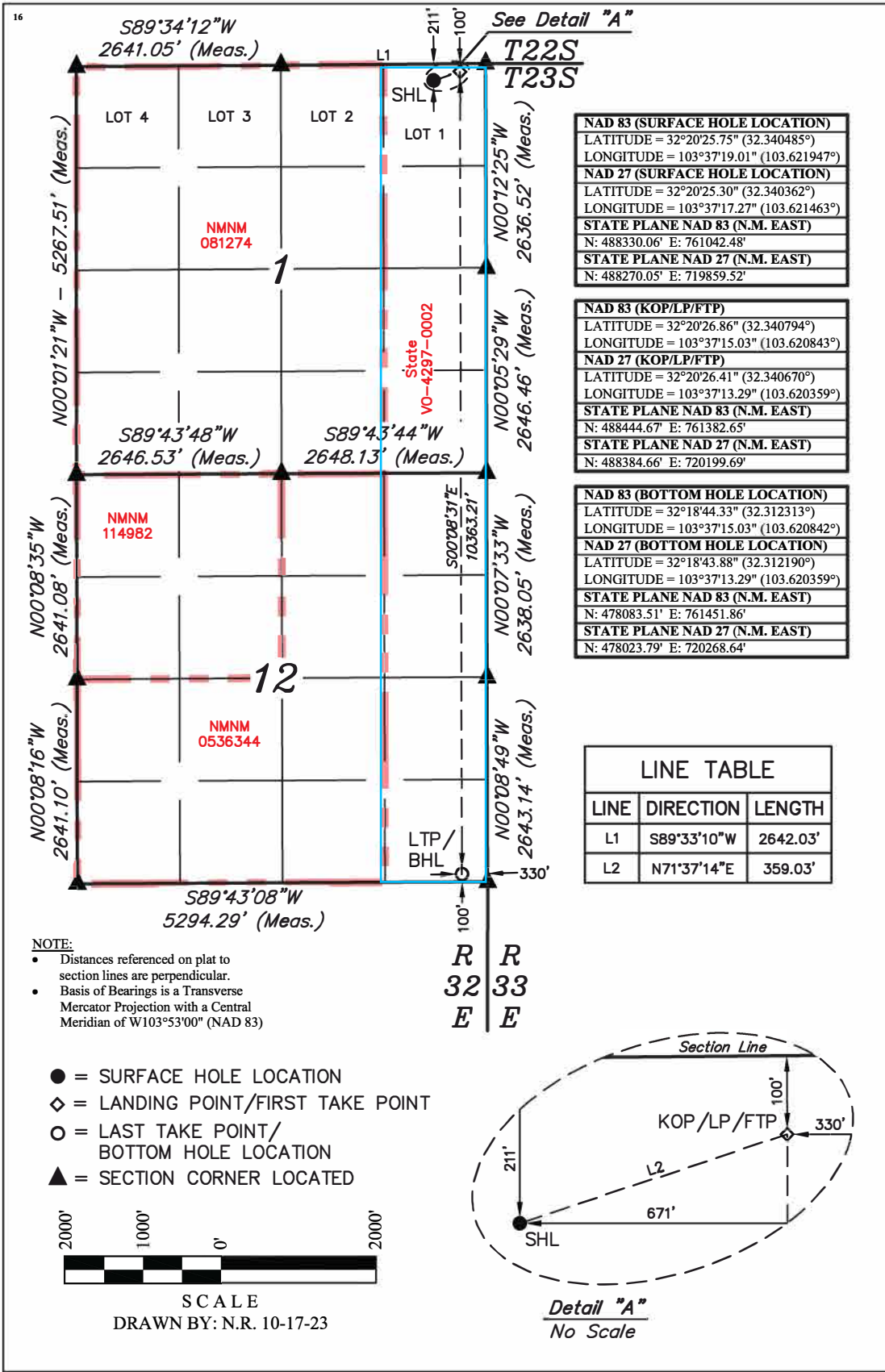
¹⁰ Surface Location

UL or lot no. 1	Section 1	Township 23S	Range 32E	Lot Idn	Feet from the 211	North/South line NORTH	Feet from the 671	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 12	Township 23S	Range 32E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 330	East/West line EAST	County LEA
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



¹⁷ OPERATOR
CERTIFICATION

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

Shelly Bowen 1/26/24
Signature Date

Shelly Bowen

Printed Name

shelly.bowen@coterra.com

E-mail Address

¹⁸ SURVEYOR
CERTIFICATION

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

September 9, 2021

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

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

Form APD Conditions
Permit 358400

PERMIT CONDITIONS OF APPROVAL

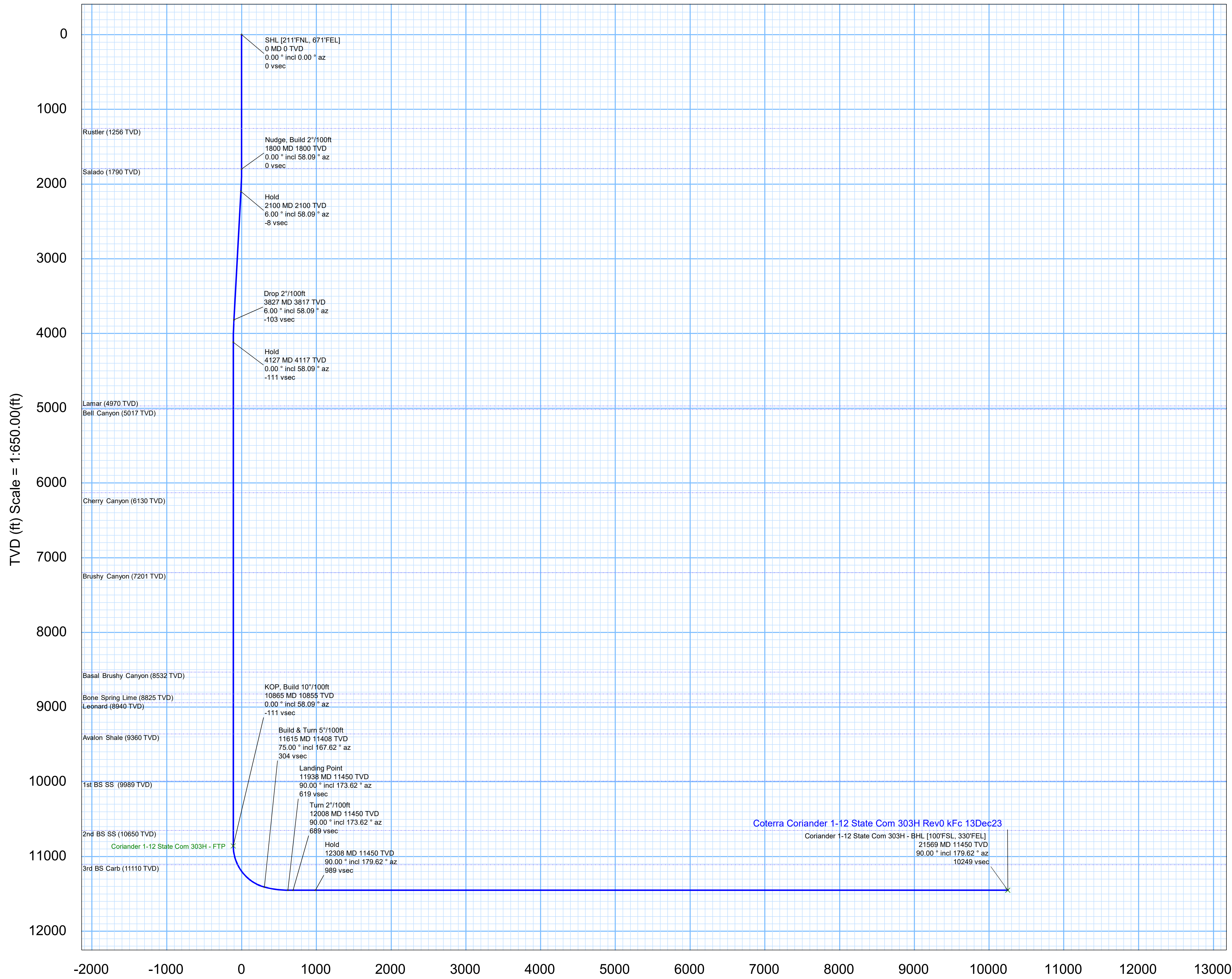
Operator Name and Address: CIMAREX ENERGY CO. [215099] 6001 Deauville Blvd Midland, TX 79706	API Number: 30-025-52661
	Well: CORIANDER 1 12 STATE COM #303H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

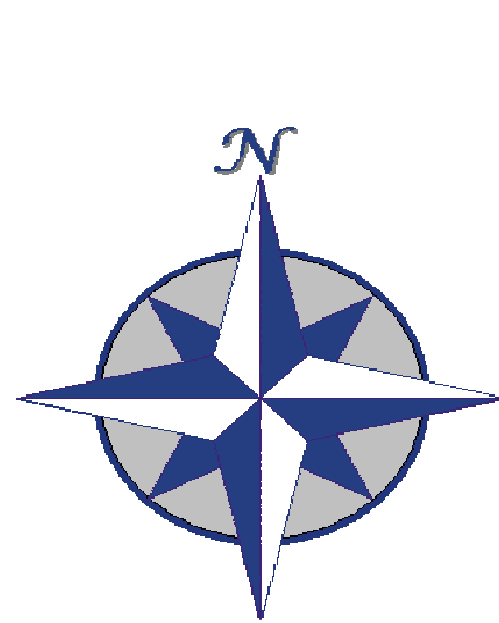
Borehole: Coriander 1-12 State Com 303H			Well: Coriander 1-12 State Com 303H			Field: NM Lea County (NAD 83)			Structure: Cimarex Coriander 1-12 State Com Lot 1 Pad		
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Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2023	Dip:	59.9°	Date:	13-Dec-2023	Lat:	N 32 20 25.75	Northing:	488330.06ftUS	Grid Conv:	0.3806°
MagDec:	6.254°	FS:	47509.735nT	Gravity FS:	998.44mgN (9.80665 Based)	Lon:	W 103 37 19.01	Easting:	761042.48ftUS	Scale Fact:	0.99996437
				NAD83 New Mexico State Plane, Eastern Zone, US Feet				TVD Ref: RKB (3772.200 ft above MSL)			
								Plan: Coriander 1-12 State Com 303H Coterra Coriander 1-12 State Com 303H Rev0 kFc 13Dec23			

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [211°FNL, 671°FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	1256.00	0.00	58.09	1256.00	0.00	0.00	0.00	0.00
Salado	1790.00	0.00	58.09	1790.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	1800.00	0.00	58.09	1800.00	0.00	0.00	0.00	0.00
Hold	2100.22	6.00	58.09	2099.67	-8.22	8.31	13.34	2.00
Drop 2°/100ft	3826.89	6.00	58.09	3816.87	-102.68	103.79	166.66	0.00
Hold	4127.11	0.00	58.09	4116.54	-110.90	112.10	180.00	2.00
Lamar	4980.57	0.00	58.09	4970.00	-110.90	112.10	180.00	0.00
Bell Canyon	5027.57	0.00	58.09	5017.00	-110.90	112.10	180.00	0.00
Cherry Canyon	6140.57	0.00	58.09	6130.00	-110.90	112.10	180.00	0.00
Brushy Canyon	7211.57	0.00	58.09	7201.00	-110.90	112.10	180.00	0.00
Basal Brushy Canyon	8542.57	0.00	58.09	8532.00	-110.90	112.10	180.00	0.00
Bone Spring Lime	8835.57	0.00	58.09	8825.00	-110.90	112.10	180.00	0.00
Leonard	8950.57	0.00	58.09	8940.00	-110.90	112.10	180.00	0.00
Avalon Shale	9370.57	0.00	58.09	9360.00	-110.90	112.10	180.00	0.00
1st BS SS	9999.57	0.00	58.09	9989.00	-110.90	112.10	180.00	0.00
2nd BS SS	10660.57	0.00	58.09	10650.00	-110.90	112.10	180.00	0.00
KOP, Build 10°/100ft	10865.11	0.00	58.09	10854.54	-110.90	112.10	180.00	0.00
3rd BS Carb	11129.90	26.48	167.62	11110.00	-52.12	53.40	192.89	10.00
Build & Turn 5°/100ft	11615.11	75.00	167.62	11407.97	304.48	-302.69	271.07	10.00
Landing Point	11937.73	90.00	173.62	11450.00	619.39	-617.26	322.74	5.00
Turn 2°/100ft	12007.73	90.00	173.62	11450.00	689.01	-686.83	330.52	0.00
Hold	12307.80	90.00	179.62	11450.00	988.53	-986.24	348.20	2.00
Coriander 1-12 State Com 303H - BHL [100°FSL, 330°FEL]	21568.69	90.00	179.62	11450.00	10249.43	-10246.94	409.40	0.00



Vertical Section (ft) Azim = 179.62° Scale = 1:650.00(ft) Origin = 0N/-S, 0E/-W



Grid
True
Mag

Grid North
Tot Corr (M->G 5.874°)
Mag Dec (6.254°)
Grid Conv (0.381°)

CONTROLLED

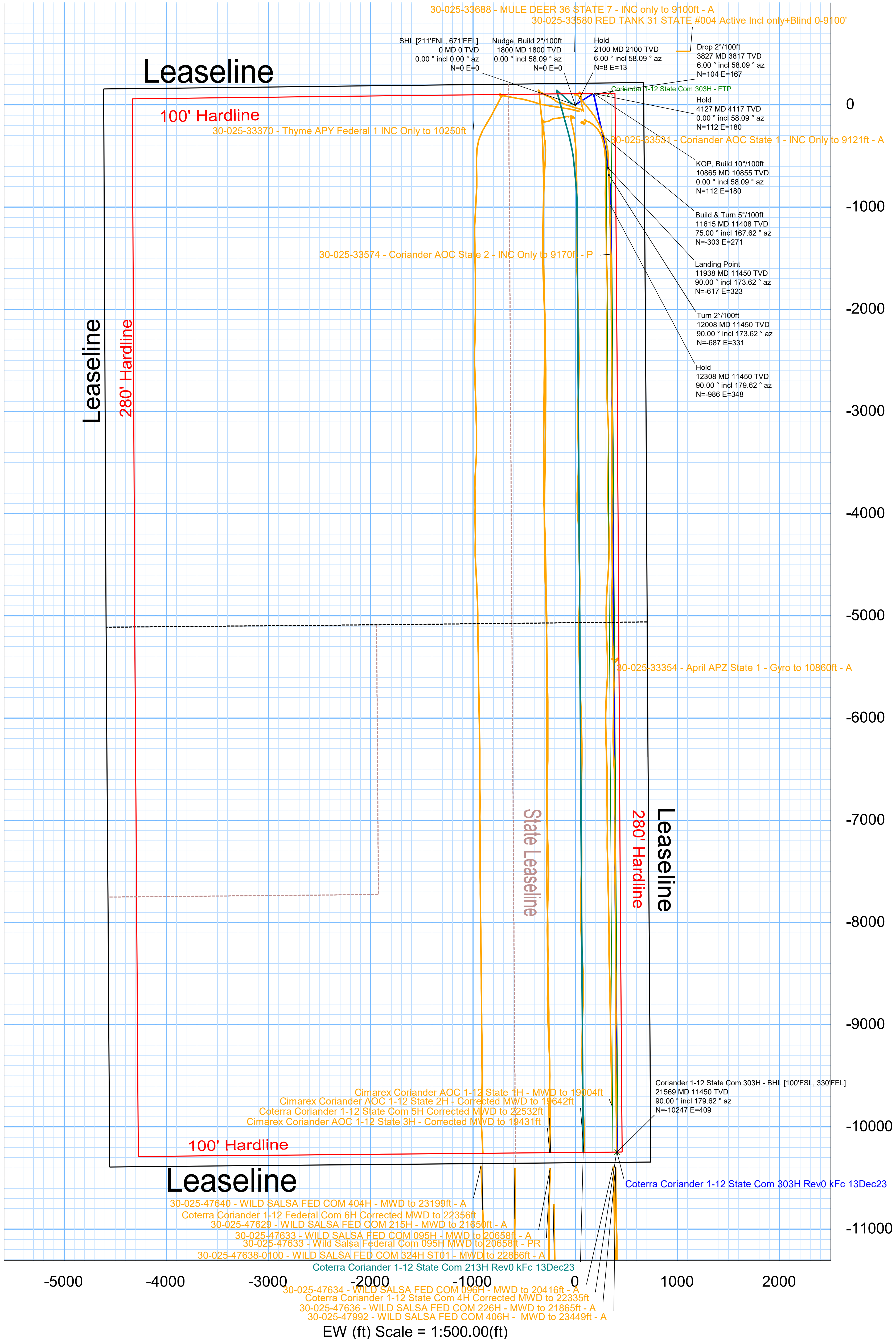
Plan ref
Drawing ref
Copy number
Date

Coterra Coriander 1-12 State Com 303H Rev0 kFc 13Dec23
of 3
14-Dec-2023

1	Client	
2	Client	
3	Office	
4	Office	

Copy number for

NS (ft) Scale = 1:500.00(ft)



EW (ft) Scale = 1:500.00(ft)

Schlumberger

Coterra Coriander 1-12 State Com 303H Rev0 kFc 13Dec23 Proposal Geodetic

Report
Def Plan

Report Date: December 14, 2023 - 03:51 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 303H
Borehole: Coriander 1-12 State Com 303H
UBH / API#: Unknown / Unknown
Survey Name: Coterra Coriander 1-12 State Com 303H Rev0 kFc 13Dec23
Survey Date: December 14, 2023
Tort / AHD / DDI / ERD Ratio: 109.141' / 10586.623 ft / 6.338' / 0.925
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°20'25.7456"N, 103°37'19.0862"W
Location Grid N/E Y/X: N 488330 060 RJUS, E 761042 480 RJUS
CRS Grid Convergence Angle: 0.381"
Grid Scale Factor: 0.99996437
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: 6.254°
Total Gravity Field Strength: 998.44mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47509.735 nT
Magnetic Dip Angle: 59.9°
Declination Date: December 13, 2023
Magnetic Declination Model: HDGM 2023
North Reference: Grid North
Grid Convergence Used: 0.381"
Total Corr Mag North->Grid North: 5.874"
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSECC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
SHL [211FNL, 671FEL]	0.00	0.00	0.00	0.00	-3.772.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672			
	100.00	0.00	58.09	100.00	-3.672.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	200.00	0.00	58.09	200.00	-3.572.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	300.00	0.00	58.09	300.00	-3.472.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	400.00	0.00	58.09	400.00	-3.372.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	500.00	0.00	58.09	500.00	-3.272.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	600.00	0.00	58.09	600.00	-3.172.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	700.00	0.00	58.09	700.00	-3.072.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	800.00	0.00	58.09	800.00	-2.972.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	900.00	0.00	58.09	900.00	-2.872.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
Rustler	1,000.00	0.00	58.09	1,000.00	-2.772.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,100.00	0.00	58.09	1,100.00	-2.672.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,200.00	0.00	58.09	1,200.00	-2.572.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,256.00	0.00	58.09	1,256.00	-2.516.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,300.00	0.00	58.09	1,300.00	-2.472.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,400.00	0.00	58.09	1,400.00	-2.372.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,500.00	0.00	58.09	1,500.00	-2.272.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,600.00	0.00	58.09	1,600.00	-2.172.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,700.00	0.00	58.09	1,700.00	-2.072.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,790.00	0.00	58.09	1,790.00	-1.982.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
Salado	1,800.00	0.00	58.09	1,800.00	-1.972.20	0.00	0.00	0.00	488,330.06	761,042.48	32.34048491	-103.62194672	0.00	0.00	0.00
	1,900.00	0.00	58.09	1,899.98	-1.872.22	-0.91	1.48	1.48	488,330.98	761,043.96	32.34048741	-103.62194191	2.00	2.00	0.00
	2,000.00	4.00	58.09	1,999.84	-1.772.36	-3.65	3.69	5.92	488,333.75	761,048.40	32.34049494	-103.62192747	2.00	2.00	0.00
	2,100.00	6.00	58.09	2,099.45	-1.672.75	-8.21	8.30	13.32	488,338.36	761,055.80	32.34050747	-103.62190342	2.00	2.00	0.00
	2,100.22	6.00	58.09	2,099.67	-1.672.53	-8.22	8.31	13.34	488,338.37	761,055.82	32.34050750	-103.62190335	2.00	2.00	0.00
	2,200.00	6.00	58.09	2,198.90	-1.573.30	-13.68	13.83	22.20	488,343.89	761,064.68	32.34052250	-103.62187455	0.00	0.00	0.00
	2,300.00	6.00	58.09	2,298.35	-1.473.85	-19.15	19.36	31.08	488,349.42	761,073.56	32.34053754	-103.62184568	0.00	0.00	0.00
	2,400.00	6.00	58.09	2,397.81	-1.374.39	-24.62	24.89	39.96	488,354.95	761,082.44	32.34055258	-103.62181682	0.00	0.00	0.00
	2,500.00	6.00	58.09	2,497.26	-1.274.94	-30.09	30.42	48.84	488,360.47	761,091.32	32.34056761	-103.62178795	0.00	0.00	0.00
	2,600.00	6.00	58.09	2,596.71	-1.175.49	-35.56	35.95	57.72	488,366.00	761,100.20	32.34058265	-103.62175908	0.00	0.00	0.00
Hold	2,700.00	6.00	58.09	2,696.16	-1.076.04	-41.03	41.48	66.60	488,371.53	761,109.08	32.34059769	-103.62173022	0.00	0.00	0.00
	2,800.00	6.00	58.09	2,795.61	-0.976.59	-46.50	47.01	75.48	488,377.06	761,117.95	32.34061272	-103.62170135	0.00	0.00	0.00
	2,900.00	6.00	58.09	2,895.06	-0.877.14	-51.97	52.54	84.36	488,382.59	761,126.83	32.34062776	-103.62167248	0.00	0.00	0.00
	3,000.00	6.00	58.09	2,994.51	-0.777.69	-57.45	58.07	93.24	488,388.12	761,135.71	32.34064280	-103.62164362	0.00	0.00	0.00
	3,100.00	6.00	58.09	3,093.97	-0.678.23	-62.92	63.60	102.12	488,393.65	761,144.59	32.34065784	-103.62161475	0.00	0.00	0.00
	3,200.00	6.00	58.09	3,193.42	-0.578.78	-68.39	69.13	110.99	488,399.18	761,153.47	32.34067287	-103.62158588	0.00	0.00	0.00
	3,300.00	6.00	58.09	3,292.87	-0.479.33	-73.86	74.66	119.87	488,404.71	761,162.35	32.34068791	-103.62155702	0.00	0.00	0.00
	3,400.00	6.00	58.09	3,392.32	-0.379.88	-79.33	80.18	128.75	488,410.24	761,171.23	32.34070295	-103.62152815	0.00	0.00	0.00
	3,500.00	6.00	58.09	3,491.77	-0.280.43	-84.80	85.71	137.63	488,415.77	761,180.11	32.34071798	-103.62149928	0.00	0.00	0.00
	3,600.00	6.00	58.09	3,591.22	-0.180.98	-90.27	91.24	146.51	488,421.30	761,188.99	32.34073302	-103.62147041	0.00	0.00	0.00
Drop 2°/100ft	3,700.00	6.00	58.09	3,690.67	-0.153.35	-95.74	96.77	155.39	488,426.83	761,197.87	32.34074806	-103.62144155	0.00	0.00	0.00
	3,800.00	6.00	58.09	3,790.13	-0.101.21	-101.21	102.30	164.27	488,432.36	761,206.75	32.34076309	-103.62141268	0.00	0.00	0.00
	3,826.89	6.00	58.09	3,816.87	-0.026.68	-102.68	103.79	166.66	488,433.85	761,209.13	32.34076714	-103.62140492	0.00	0.00	0.00
	3,900.00	4.54	58.09	3,889.67	-0.062.10	-106.20	107.34	172.36	488,437.40	761,214.84	32.34077680	-103.62138638	2.00	-2.00	0.00
	4,000.00	2.54	58.09	3,989.47	-0.094.43	-109.43	110.61	177.61	488,440.67	761,220.08	32.34078568	-103.62136933	2.00	-2.00	0.00
	4,100.00	0.54	58.09	4,089.43	-0.034.98	-110.84	112.03	179.63	488,442.16	761,222.36	32.34078973	-103.62136155	0.00	0.00	0.00
	4,127.11	0.00	58.09	4,116.54	-0.004.44	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,200.00	0.00	58.09	4,189.43	-0.074.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,300.00	0.00	58.09	4,289.43	-0.054.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,400.00	0.00	58.09	4,389.43	-0.034.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
Hold	4,500.00	0.00	58.09	4,489.43	-0.014.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,600.00	0.00	58.09	4,589.43	-0.004.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,700.00	0.00	58.09	4,689.43	-0.004.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,800.00	0.00	58.09	4,789.43	-0.004.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,900.00	0.00	58.09	4,889.43	-0.004.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	4,980.57	0.00	58.09	4,970.00	-0.197.80	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	5,000.00	0.00	58.09	4,989.43	-0.127.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	5,027.57	0.00	58.09	5,017.00	-0.124.80	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	5,100.00	0.00	58.09	5,089.43	-0.137.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	5,200.00	0.00	58.09	5,189.											

	MD (ft)	Incl (°)	Azin (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (°/100ft)	BR (°/100ft)	TR (°/100ft)
Avalon Shale	9,100.00	0.00	58.09	9,089.43	5,317.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,200.00	0.00	58.09	9,189.43	5,417.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,300.00	0.00	58.09	9,289.43	5,517.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,370.57	0.00	58.09	9,360.00	5,587.80	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,400.00	0.00	58.09	9,389.43	5,617.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,500.00	0.00	58.09	9,489.43	5,717.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,600.00	0.00	58.09	9,589.43	5,817.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,700.00	0.00	58.09	9,689.43	5,917.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,800.00	0.00	58.09	9,789.43	6,017.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	9,900.00	0.00	58.09	9,889.43	6,117.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
1st BS SS	9,999.57	0.00	58.09	9,989.00	6,216.80	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,000.00	0.00	58.09	9,989.43	6,217.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,100.00	0.00	58.09	10,089.43	6,317.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,200.00	0.00	58.09	10,189.43	6,417.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,300.00	0.00	58.09	10,289.43	6,517.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,400.00	0.00	58.09	10,389.43	6,617.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,500.00	0.00	58.09	10,489.43	6,717.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,600.00	0.00	58.09	10,589.43	6,817.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,660.57	0.00	58.09	10,650.00	6,877.80	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,700.00	0.00	58.09	10,689.43	6,917.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
KOP, Build 10"/100ft	10,800.00	0.00	58.09	10,789.43	7,017.23	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,855.11	0.00	58.09	10,854.54	7,082.24	-110.90	112.10	180.00	488,442.16	761,222.47	32.34078973	-103.62136155	0.00	0.00	0.00
	10,900.00	3.49	167.62	10,889.41	7,117.21	-109.87	111.06	180.23	488,441.12	761,222.70	32.34078687	-103.62136083	10.00	10.00	0.00
	11,000.00	13.49	167.62	10,988.19	7,215.99	-95.44	96.66	183.39	488,426.72	761,225.86	32.34074724	-103.62135091	10.00	10.00	0.00
	11,100.00	23.49	167.62	11,082.90	7,310.70	-64.46	65.73	190.18	488,395.79	761,232.65	32.34066209	-103.62132958	10.00	10.00	0.00
	11,129.90	26.48	167.62	11,110.00	7,337.80	-52.12	53.40	192.89	488,383.45	761,235.36	32.34062814	-103.62132108	10.00	10.00	0.00
	11,200.00	33.49	167.62	11,170.68	7,398.48	-17.87	19.20	200.40	488,349.26	761,242.87	32.34053401	-103.62129751	10.00	10.00	0.00
	11,300.00	43.49	167.62	11,248.86	7,467.66	-42.93	41.51	213.73	488,285.55	761,256.20	32.34036990	-103.62125586	10.00	10.00	0.00
	11,400.00	53.49	167.62	11,315.05	7,542.85	-116.08	-114.56	229.76	488,215.50	761,272.23	32.34016583	-103.62120531	10.00	10.00	0.00
	11,500.00	63.49	167.62	11,367.25	7,595.05	-199.37	-197.73	248.02	488,132.34	761,290.49	32.33993692	-103.62114799	10.00	10.00	0.00
Build & Turn 5"/100ft	11,600.00	73.49	167.62	11,403.87	7,631.67	-290.25	-288.48	267.95	488,041.59	761,310.42	32.33968711	-103.62108544	10.00	10.00	0.00
	11,615.11	75.00	167.62	11,407.97	7,635.77	-304.48	-302.69	271.07	488,027.38	761,313.54	32.33964801	-103.62107564	10.00	10.00	0.00
	11,700.00	78.94	169.24	11,427.11	7,654.91	-385.59	-383.69	287.64	487,946.38	761,330.11	32.33942506	-103.62102373	5.00	4.64	1.92
	11,800.00	83.59	171.11	11,442.30	7,670.10	-483.06	-481.05	307.49	487,849.03	761,346.96	32.33915715	-103.62097127	5.00	4.65	1.86
	11,900.00	88.24	172.93	11,449.42	7,677.22	-581.90	-579.80	318.33	487,750.28	761,360.80	32.33888548	-103.62092870	5.00	4.66	1.83
	11,937.73	90.00	173.62	11,450.00	7,677.80	-619.39	-617.26	322.74	487,712.82	761,365.21	32.33878243	-103.62091511	5.00	4.66	1.82
	12,000.00	90.00	173.62	11,450.00	7,677.80	-681.32	-679.15	329.66	487,650.94	761,372.13	32.33861221	-103.62089044	0.00	0.00	0.00
	12,007.73	90.00	173.62	11,450.00	7,677.80	-689.01	-686.83	330.52	487,643.26	761,372.99	32.33859109	-103.62089142	0.00	0.00	0.00
	12,100.00	90.00	175.47	11,450.00	7,677.80	-780.91	-778.68	339.30	487,551.41	761,381.77	32.33833847	-103.62086499	2.00	0.00	2.00
	12,200.00	90.00	177.47	11,450.00	7,677.80	-880.76	-878.48	345.46	487,451.61	761,387.93	32.33806404	-103.62084718	2.00	0.00	2.00
Landing Point	12,300.00	90.00	179.47	11,450.00	7,677.80	-980.73	-978.44	348.14	487,351.65	761,390.61	32.33778925	-103.62084066	2.00	0.00	2.00
	12,307.80	90.00	179.62	11,450.00	7,677.80	-988.53	-986.24	348.20	487,343.85	761,390.67	32.33776782	-103.62084063	2.00	0.00	2.00
	12,400.00	90.00	179.62	11,450.00	7,677.80	-1,080.73	-1,078.44	348.81	487,251.66	761,391.28	32.33751439	-103.62084064	0.00	0.00	0.00
	12,500.00	90.00	179.62	11,450.00	7,677.80	-1,180.73	-1,178.44	349.47	487,151.67	761,391.94	32.33723953	-103.62084066	0.00	0.00	0.00
	12,600.00	90.00	179.62	11,450.00	7,677.80	-1,280.73	-1,278.44	350.13	487,051.67	761,392.60	32.33696467	-103.62084067	0.00	0.00	0.00
	12,700.00	90.00	179.62	11,450.00	7,677.80	-1,380.73	-1,378.43	350.79	486,951.68	761,393.26	32.33668891	-103.62084069	0.00	0.00	0.00
	12,800.00	90.00	179.62	11,450.00	7,677.80	-1,480.73	-1,478.43	351.46	486,851.68	761,393.92	32.33641495	-103.62084070	0.00	0.00	0.00
	12,900.00	90.00	179.62	11,450.00	7,677.80	-1,580.73	-1,578.43	352.12	486,751.69	761,394.58	32.33614009	-103.62084071	0.00	0.00	0.00
	13,000.00	90.00	179.62	11,450.00	7,677.80	-1,680.73	-1,678.43	352.78	486,651.69	761,395.24	32.33586523	-103.62084073	0.00	0.00	0.00
	13,100.00	90.00	179.62	11,450.00	7,677.80	-1,780.73	-1,778.43	353.44	486,551.70	761,395.90	32.33559037	-103.62084074	0.00	0.00	0.00
Turn 2"/100ft	13,200.00	90.00	179.62	11,450.00	7,677.80	-1,880.73	-1,878.42	354.10	486,451.71	761,396.57	32.33531551	-103.62084076	0.00	0.00	0.00
	13,300.00	90.00	179.62	11,450.00	7,677.80	-1,980.73	-1,978.42	354.76	486,351.71	761,397.23	32.33504065	-103.62084077	0.00	0.00	0.00
	13,400.00	90.00	179.62	11,450.00	7,677.80	-2,080.73	-2,0								

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)
Coriander 1-12 State Com 303H	21,100.00	90.00	179.62	11,450.00	7,677.80	9,780.73	-9,778.25	406.30	478,552.18	761,448.76	32.31360151	-103.62084183	0.00	0.00	0.00
	21,200.00	90.00	179.62	11,450.00	7,677.80	9,880.73	-9,878.25	406.96	478,452.18	761,449.42	32.31332665	-103.62084184	0.00	0.00	0.00
	21,300.00	90.00	179.62	11,450.00	7,677.80	9,980.73	-9,978.25	407.62	478,352.19	761,450.08	32.31305179	-103.62084186	0.00	0.00	0.00
	21,400.00	90.00	179.62	11,450.00	7,677.80	10,080.73	-10,078.24	408.28	478,252.19	761,450.75	32.31277693	-103.62084187	0.00	0.00	0.00
	21,500.00	90.00	179.62	11,450.00	7,677.80	10,180.73	-10,178.24	408.94	478,152.20	761,451.41	32.31250207	-103.62084188	0.00	0.00	0.00
	21,568.69	90.00	179.62	11,450.00	7,677.80	10,249.43	-10,246.94	409.40	478,083.51	761,451.86	32.31231325	-103.62084189	0.00	0.00	0.00

Survey Type: Def Plan

Survey Error Model: ISCSA0 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	10,800.000	1/100,000 '5 – 12.25 – 8.75 3.375 – 9.625 – 7				A001Mb_MWD		Coriander 1-12 State Com 303H / Coterra Coriande
	1	10,800.000	21,560.426	1/100,000	8.75 – 6	7 – 4.5		A008Mb_MWD+IFR1+MS		Coriander 1-12 State Com 303H / Coterra Coriande

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
1,325.600	17.500	13.375	
4,986.600	12.250	9.625	
11,369.600	8.750	7.000	
21,568.694	6.000	4.500	



Coterra Coriander 1-12 State Com 303H Rev0 kFc 13Dec23 Anti-Collision Summary Report

Analysis Date-24hr Time:	December 14, 2023 - 03:51 PM (UTC 0)	Analysis Method:	3D Least Distance
Client:	COTERRA	Reference Trajectory:	Coterra Coriander 1-12 State Com 303H Rev0 kFc 13Dec23 (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 303H	Min Pts:	Absolute minima indicated.
Well:	Coriander 1-12 State Com 303H	Engine Version:	2023.1.0.1
Borehole:	Coriander 1-12 State Com 303H	Database \ Project:	Coriander 1-12 State Com 303H-COTERRA
Scan MD Range:	0.00ft ~ 21568.69ft		

Trajectory Error Model: ISCSA0 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 36 are selected

Offset Trajectory	Separation			Allow	Sep.	Controlling	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.

30-025-33531 - Coriander AOC State 1 - INC Only to 9121ft - A (DefinitiveSurvey)													Fail Major
360.82	32.81	358.84	328.01	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
360.18	32.81	358.10	327.37	3591.23	MAS = 10.00 (m)	10.00	10.00					MinPt-SF	
359.75	32.81	357.71	326.95	5452.07	MAS = 10.00 (m)	23.00	23.00					WRP	
358.04	108.98	284.80	249.06	4.98	OSF1.50	1930.00	1929.96	OSF<5.00				Enter Alert	
295.41	229.92	141.54	65.49	1.93	OSF1.50	3930.00	3919.58					MinPt-CtCt	
295.48	296.16	97.46	-0.67	1.50	OSF1.50	4780.00	4769.43	OSF<1.50				Enter Minor	
295.48	442.53	-0.07	-147.04	1.00	OSF1.50	6940.00	6929.43					Enter Major	
295.49	575.43	-88.67	-279.94	0.77	OSF1.50	9160.00	9149.43					MinPts	
336.92	507.54	-1.98	-170.62	0.99	OSF1.50	9320.00	9309.43					Exit Major	
415.33	416.63	137.04	-1.30	1.50	OSF1.50	9450.00	9439.43	OSF>1.50				Exit Minor	
789.27	238.08	630.01	551.18	5.00	OSF1.50	9890.00	9879.43	OSF>5.00				Exit Alert	
3188.91	412.31	2913.53	2776.60	11.64	OSF1.50	13670.00	11450.00					MinPt-SF	
10363.99	571.95	9982.19	9792.04	27.25	OSF1.50	21568.69	11450.00					TD	

Coterra Coriander 1-12 State Com 213H Rev0 kFc 13Dec23 (DefinitivePlan)													Fail Minor
20.00	16.26	18.72	3.74	N/A	MAS = 4.96 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
20.00	16.26	18.72	3.74	N/A	MAS = 4.96 (m)	23.00	23.00					WRP	
20.00	19.76	6.40	0.25	1.82	OSF1.50	1290.00	1290.00					MinPts	
20.00	20.05	6.31	-0.05	1.50	OSF1.50	1330.00	1330.00	OSF<1.50				Enter Minor	
20.00	27.12	1.59	-7.12	1.09	OSF1.50	1800.00	1800.00					MinPt-CtCt	
20.14	27.57	1.43	-7.43	1.08	OSF1.50	1830.00	1830.00					MinPt-EOU	
20.24	27.72	1.44	-7.47	1.08	OSF1.50	1840.00	1840.00					MinPt-SF	
20.38	27.87	1.47	-7.49	1.08	OSF1.50	1850.00	1850.00					MinPt-ADP	
30.70	30.99	9.71	-0.29	1.49	OSF1.50	2060.00	2059.64	OSF>1.50				Exit Minor	
136.19	41.67	108.09	94.53	4.99	OSF1.50	2790.00	2785.67	OSF>5.00				Exit Alert	
364.75	110.19	290.96	254.56	5.00	OSF1.50	7350.00	7339.43	OSF<5.00				Enter Alert	
340.55	155.07	236.84	185.48	3.31	OSF1.50	10530.00	10519.43					MinPt-CtCt	
340.68	155.13	236.93	185.55	3.31	OSF1.50	10540.00	10529.43					MinPts	
456.47	138.27	363.96	318.19	4.98	OSF1.50	10930.00	10919.29	OSF>5.00				MinPt-SF	
764.67	115.00	687.67	649.67	10.05	OSF1.50	12320.00	11450.00					Exit Alert	
764.76	230.27	610.92	534.49	5.00	OSF1.50	17460.00	11450.00	OSF<5.00				MinPt-CtCt	
764.83	354.41	528.23	410.42	3.24	OSF1.50	21568.69	11450.00					Enter Alert	
												MinPts	

30-025-33688 - MULE DEER 36 STATE 7 - INC only to 9100ft - A (DefinitiveSurvey)													Fail Minor
515.13	32.81	513.15	482.32	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
514.87	32.81	512.86	482.06	16314.94	MAS = 10.00 (m)	10.00	10.00					MinPt-SF	
514.81	32.81	512.74	482.00	6136.52	MAS = 10.00 (m)	23.00	23.00					WRP	
490.92	148.81	391.13	342.11	4.99	OSF1.50	2420.00	2417.70	OSF<5.00				Enter Alert	
442.69	443.21	146.67	-0.52	1.50	OSF1.50	6680.00	6669.43	OSF<1.50				Enter Minor	
442.69	590.49	48.48	-147.81	1.12	OSF1.50	9120.00	9109.43					MinPt-CtCt	
442.70	590.90	48.22	-148.21	1.12	OSF1.50	9130.00	9119.43					MinPts	
509.98	516.11	165.37	-6.13	1.48	OSF1.50	9380.00	9369.43	OSF>1.50				Exit Minor	
952.34	291.78	757.28	680.56	4.91	OSF1.50	9970.00	9959.43	OSF>5.00				Exit Alert	
3242.92	422.87	2960.51	2820.05	11.54	OSF1.50	13030.00	11450.00					MinPt-SF	
11019.62	587.85	10627.22	10431.77	28.19	OSF1.50	21568.69	11450.00					TD	

Coterra Coriander 1-12 State Com 5H Corrected MWD to 22532ft (DefinitiveSurvey)													Warning Alert
84.84	32.81	83.66	82.03	2909113.18	MAS = 10.00 (m)	0.00	0.00					MinPts	
84.85	32.81	83.67	52.04	15448.86	MAS = 10.00 (m)	23.00	23.00					WRP	
85.91	32.81	83.25	53.10	57.18	MAS = 10.00 (m)	220.00	220.00					MinPt-EOU	
79.49	32.81	62.68	46.68	4.96	MAS = 10.00 (m)	1670.00	1670.00	OSF<5.00				Enter Alert	
44.82	32.81	23.53	12.02	2.16	MAS = 10.00 (m)	2123.16	2122.48					MinPts	
44.85	32.81	23.48	12.04	2.15	MAS = 10.00 (m)	2130.00	2129.29					MinPt-EOU	
44.97	32.81	23.50	12.16	2.15	MAS = 10.00 (m)	2140.00	2139.23					MinPt-SF	
133.79	41.15	106.03	92.64	4.96	OSF1.50	2790.00	2785.67	OSF>5.00				Exit Alert	
511.48	119.42	431.54	392.07	6.47	OSF1.50	8000.00	7989.43					MinPt-ADP	
517.83	126.01	433.50	391.82	6.20	OSF1.50	8440.00	8429.43					MinPt-EOU	
523.05	137.52	431.04	385.53	5.74	OSF1.50	9210.00	9199.43					MinPt-EOU	
523.91	138.56	431.22	385.17	5.70	OSF1.50	9280.00	9269.43					MinPt-ADP	
527.48	144.83	430.60	382.65	5.49	OSF1.50	9700.00	9689.43					MinPt-EOU	
528.90	146.61	430.83	382.25	5.44	OSF1.50	9820.00	9809.43					MinPt-ADP	
536.74	161.77	428.57	374.97	5.00	OSF1.50	10850.00	10839.43	OSF<5.00				Enter Alert	
535.51	162.31	426.98	373.20	4.97	OSF1.50	10920.00	10909.34					MinPt-CtCt	
535.54	162.38	426.96	373.16	4.97	OSF1.50	10930.00	10919.29					MinPts	
535.96	162.59	427.24	373.37	4.97	OSF1.50	10960.00	10949.00					MinPt-SF	
541.56	163.28	432.38	378.28	5.00	OSF1.50	11060.00	11045.69	OSF>5.00				Exit Alert	
1148.86	133.37	1059.62	1015.50	13.01	OSF1.50	12160.00	11450.00					MinPt-SF	
1186.35	145.03	1089.33	1041.31	12.34	OSF1.50	13310.00	11450.00					MinPt-CtCt	
1186.51	145.57	1089.14	1040.94	12.30	OSF1.50	13360.00	11450.00					MinPt-EOU	
1186.91	146.04	1089.22	1040.87	12.26	OSF1.50	13400.00	11450.00					MinPt-ADP	
1195.31	151.95	1093.68	1043.35	11.87	OSF1.50	13770.00	11450.00					MinPt-ADP	
1200.85	161.09	1093.12	1039.75	11.24	OSF1.50	14240.00	11450.00					MinPt-CtCt	
1194.46	183.16	1072.02	1011.30	9.83	OSF1.50	15260.00	11450.00					MinPt-CtCt	
1195.67	194.70	1065.54	1000.97	9.25	OSF1.50	15770.00	11450.00					MinPt-CtCt	
1202.92	223.48	1053.60	979.44	8.10	OSF1.50	16910.00	11450.00					MinPt-CtCt	

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		
1203.30	224.67	1053.19	978.63	8.06		OSF1.50	16970.00	11450.00				MinPt-EOU	
1205.48	229.11	1052.41	976.37	7.92		OSF1.50	17140.00	11450.00				MinPt-EOU	
1208.54	234.78	1051.65	973.76	7.75		OSF1.50	17350.00	11450.00				MinPt-EOU	
1214.68	249.80	1047.72	964.78	7.32		OSF1.50	17870.00	11450.00				MinPt-CtCt	
1214.98	260.04	1041.29	954.94	7.03		OSF1.50	18230.00	11450.00				MinPt-CtCt	
1215.29	261.02	1040.94	954.27	7.00		OSF1.50	18280.00	11450.00				MinPt-EOU	
1215.60	261.41	1041.00	954.19	7.00		OSF1.50	18300.00	11450.00				MinPt-ADP	
1218.74	267.21	1040.28	951.53	6.86		OSF1.50	18500.00	11450.00				MinPt-EOU	
1219.66	268.58	1040.28	951.08	6.83		OSF1.50	18550.00	11450.00				MinPt-EOU	
1214.07	308.34	1008.19	905.74	5.92		OSF1.50	19890.00	11450.00				MinPt-CtCt	
1214.01	319.02	1001.00	894.99	5.72		OSF1.50	20250.00	11450.00				MinPt-CtCt	
1215.23	332.78	993.05	882.45	5.49		OSF1.50	20710.00	11450.00				MinPt-CtCt	
1212.59	353.68	976.47	858.91	5.15		OSF1.50	21400.00	11450.00				MinPt-CtCt	
1212.75	358.85	973.20	853.92	5.08		OSF1.50	21568.69	11450.00				MinPts	

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

Warning Alert

72.10	32.81	70.81	39.29	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
72.09	32.81	70.80	39.28	27647.31		MAS = 10.00 (m)	23.00	23.00				WRP	
72.01	32.81	70.28	39.20			MAS = 10.00 (m)	100.00	100.00				MinPts	
70.84	32.81	57.44	38.03	5.74		MAS = 10.00 (m)	1280.00	1280.00				MinPt-EOU	
70.69	32.81	56.24	37.88	5.18		MAS = 10.00 (m)	1470.00	1470.00				MinPts	
70.64	32.81	55.72	37.83	5.00		MAS = 10.00 (m)	1550.00	1550.00	OSF<5.00			Enter Alert	
54.78	32.81	37.13	21.97	3.23		MAS = 10.00 (m)	1949.20	1949.13				MinPts	
54.84	32.81	37.11	22.03	3.22		MAS = 10.00 (m)	1960.00	1959.92				MinPt-EOU	
55.00	32.81	37.20	22.19	3.21		MAS = 10.00 (m)	1970.00	1969.90				MinPt-SF	
94.63	32.81	74.75	61.82	4.96		MAS = 10.00 (m)	2250.00	2248.63	OSF>5.00			Exit Alert	
521.83	56.88	483.58	464.94	13.98		OSF1.50	4280.00	4269.43				MinPt-SF	
535.75	58.57	496.38	477.19	13.93		OSF1.50	4400.00	4389.43				MinPt-SF	
585.24	64.45	541.95	520.79	13.81		OSF1.50	4800.00	4789.43				MinPt-SF	
630.75	68.85	584.52	561.90	13.92		OSF1.50	5120.00	5109.43				MinPt-SF	
755.67	81.61	700.93	674.06	14.04		OSF1.50	5980.00	5969.43				MinPt-SF	
913.65	110.87	839.40	802.78	12.46		OSF1.50	7910.00	7899.43				MinPt-CtCt	
909.18	127.81	823.65	781.37	10.74		OSF1.50	9100.00	9089.43				MinPt-CtCt	
910.11	130.99	822.46	779.13	10.49		OSF1.50	9320.00	9309.43				MinPt-EOU	
910.73	131.70	822.60	779.03	10.44		OSF1.50	9370.00	9359.43				MinPt-ADP	
900.48	153.66	797.71	746.82	8.84		OSF1.50	10940.00	10929.22				MinPt-CtCt	
900.50	153.73	797.69	746.77	8.83		OSF1.50	10950.00	10939.12				MinPt-EOU	
900.55	153.79	797.70	746.76	8.83		OSF1.50	10960.00	10949.00				MinPt-ADP	
902.17	154.25	799.01	747.92	8.82		OSF1.50	11030.00	11017.16				MinPt-SF	
1503.73	153.38	1401.15	1350.35	14.79		OSF1.50	12420.00	11450.00				MinPt-SF	
1514.05	155.78	1409.86	1358.26	14.66		OSF1.50	12710.00	11450.00				MinPt-CtCt	
1514.07	155.92	1409.80	1358.16	14.65		OSF1.50	12730.00	11450.00				MinPt-EOU	
1514.13	155.99	1409.81	1358.14	14.64		OSF1.50	12740.00	11450.00				MinPt-ADP	
1514.63	157.55	1409.26	1357.07	14.50		OSF1.50	12920.00	11450.00				MinPt-CtCt	
1514.67	157.71	1409.20	1356.96	14.49		OSF1.50	12940.00	11450.00				MinPt-EOU	
1514.73	157.78	1409.21	1356.94	14.48		OSF1.50	12950.00	11450.00				MinPt-ADP	
1528.37	179.70	1408.24	1348.66	12.82		OSF1.50	14520.00	11450.00				MinPt-CtCt	
1528.58	180.46	1407.95	1348.12	12.77		OSF1.50	14570.00	11450.00				MinPt-EOU	
1528.96	180.92	1408.02	1348.04	12.74		OSF1.50	14600.00	11450.00				MinPt-ADP	
1530.52	182.81	1408.32	1347.71	12.62		OSF1.50	14700.00	11450.00				MinPt-EOU	
1530.64	182.96	1408.35	1347.65	12.61		OSF1.50	14710.00	11450.00				MinPt-ADP	
1545.36	192.47	1416.72	1352.89	12.10		OSF1.50	15170.00	11450.00				MinPt-CtCt	
1545.67	193.30	1416.48	1352.38	12.05		OSF1.50	15220.00	11450.00				MinPt-EOU	
1545.95	193.63	1416.54	1352.32	12.03		OSF1.50	15240.00	11450.00				MinPt-ADP	
1550.06	198.37	1417.48	1351.68	11.77		OSF1.50	15460.00	11450.00				MinPt-CtCt	
1550.30	199.22	1417.16	1351.07	11.72		OSF1.50	15510.00	11450.00				MinPt-EOU	
1550.72	199.74	1417.23	1350.98	11.70		OSF1.50	15540.00	11450.00				MinPt-ADP	
1537.97	218.79	1391.78	1319.18	10.58		OSF1.50	16380.00	11450.00				MinPt-CtCt	
1538.33	219.97	1391.35	1318.36	10.53		OSF1.50	16440.00	11450.00				MinPt-EOU	
1538.80	220.53	1391.45	1318.27	10.51		OSF1.50	16470.00	11450.00				MinPt-ADP	
1534.69	249.21	1368.22	1285.48	9.27		OSF1.50	17610.00	11450.00				MinPt-CtCt	
1535.45	257.36	1363.55	1278.09	8.98		OSF1.50	17920.00	11450.00				MinPt-CtCt	
1535.60	262.93	1359.99	1272.68	8.79		OSF1.50	18130.00	11450.00				MinPt-CtCt	
1537.40	270.75	1356.57	1266.65	8.54		OSF1.50	18420.00	11450.00				MinPt-CtCt	
1520.01	319.93	1306.40	1200.08	7.14		OSF1.50	20170.00	11450.00				MinPt-CtCt	
1520.14	336.07	1295.76	1184.07	6.80		OSF1.50	20730.00	11450.00				MinPt-CtCt	
1520.67	337.70	1295.21	1182.97	6.77		OSF1.50	20800.00	11450.00				MinPt-EOU	
1522.64	340.77	1295.13	1181.87	6.72		OSF1.50	20910.00	11450.00				MinPt-EOU	
1523.97	342.31	1295.43	1181.68	6.69		OSF1.50	20970.00	11450.00				MinPt-ADP	
1514.62	360.68	1273.84	1153.94	6.31		OSF1.50	21568.69	11450.00				MinPts	

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

Warning Alert

99.98	32.81	98.70	67.17	N/A	MAS = 10.00 (m)	0.00	0.00		Surface
99.98	32.81	98.70	67.17	N/A	MAS = 10.00 (m)	10.00	10.00		MinPts
99.98	32.81	98.69	67.18	35559.00	MAS = 10.00 (m)	23.00	23.00		WRP
103.93	32.81	90.64	71.12	8.55	MAS = 10.00 (m)	1280.00	1280.00		MinPt-EOU
100.16	32.81	83.64	67.35	6.38	MAS = 10.00 (m)	1640.00	1640.00		MinPts
100.36	32.81	83.44	67.55	6.24	MAS = 10.00 (m)	1680.00	1680.00		MinPt-EOU
100.86	32.81	79.80	68.05	4.98	MAS = 10.00 (m)	2100.00	2099.45	OSF<5.00	Enter Alert
98.22	34.05	75.19	64.16	4.41	OSF1.50	2300.00	2298.35		MinPt-CtCt
98.73	35.54	74.71	63.19	4.24	OSF1.50	2400.00	2397.81		MinPt-EOU
90.31	44.53	60.29	45.78	3.08	OSF1.50	3006.83	3001.30		MinPt-CtCt
90.68	45.61	59.95	45.07	3.01	OSF1.50	3080.00	3074.08		MinPt-EOU
91.19	46.20	60.06	44.99	2.99	OSF1.50	3120.00	3113.86		MinPt-ADP
93.83	47.96	61.53	45.87	2.96	OSF1.50	3240.00	3233.20		MinPt-SF
126.31	64.53	82.95	61.77	2.96	OSF1.50	4360.00	4349.43		MinPt-CtCt
116.77	77.26	64.93	39.51	2.28	OSF1.50	5220.00	5209.43		MinPt-CtCt
117.23	78.58	64.52	38.65	2.25	OSF1.50	5310.00	5299.43		MinPt-EOU
118.53	80.06	64.83	38.47	2.23	OSF1.50	5410.00	5399.43		MinPt-ADP
123.54	84.53	66.85	39.00	2.20	OSF1.50	5710.00	5699.43		MinPt-ADP
131.01	90.33	70.46	40.68	2.18	OSF1.50	6100.00	6089.43		MinPt-SF
137.86	96.47	73.21	41.38	2.15	OSF1.50	6510.00	6499.43		MinPt-CtCt
138.20	101.75	70.04	36.45	2.04	OSF1.50	6870.00	6859.43		MinPt-CtCt
143.11	118.20	63.98	24.91	1.82	OSF1.50	7970.00	7979.43		MinPt-EOU
145.68	121.14	64.59	24.54	1.81	OSF1.50	8190.00	8179.43		MinPt-ADP
146.66	122.02	64.98	24.64	1.81	OSF1.50	8250.00	8239.43		MinPt-SF
148.30	123.51	65.63	24.79	1.80	OSF1.50	8350.00	8339.43		MinPt-ADP
153.50	128.25	67.68	25.26	1.80	OSF1.50	8670.00	8659.43		MinPt-SF
156.59	130.77	69.09	25.83	1.80	OSF1.50	8840.00	8829.43		MinPt-SF
161.41	134.63	71.33	26.78	1.80	OSF1.50	9100.00	9089.43		MinPt-SF
168.67	140.44	74.72	28.24	1.80	OSF1.50	9480.00	9479.43		MinPt-SF
178.23	160.89	70.64	17.34	1.66	OSF1.50	10900.00	10889.41		MinPt-CtCt
178.28	161.04	70.60	17.25	1.66	OSF1.50	10920.00	10909.34		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		
543.98	165.49	433.32	378.49	4.95		OSF1.50	11680.00	11423.12	OSF>5.00			Exit Alert	
680.54	107.03	608.86	573.51	9.61		OSF1.50	11900.00	11449.42				MinPt-CtCt	
680.57	107.09	608.84	573.47	9.61		OSF1.50	11910.00	11449.69				MinPts	
685.86	108.18	613.41	577.68	9.58		OSF1.50	12070.00	11450.00				MinPt-SF	
691.99	109.18	618.88	582.81	9.58		OSF1.50	12190.00	11450.00				MinPt-SF	
693.11	109.36	619.88	583.75	9.58		OSF1.50	12210.00	11450.00				MinPt-SF	
718.47	122.37	636.56	596.10	8.87		OSF1.50	13170.00	11450.00				MinPt-EOU	
719.27	123.29	636.76	595.98	8.81		OSF1.50	13230.00	11450.00				MinPt-ADP	
752.69	147.37	654.11	605.31	7.70		OSF1.50	14390.00	11450.00				MinPt-CtCt	
752.76	147.62	654.02	605.14	7.69		OSF1.50	14410.00	11450.00				MinPt-EOU	
752.86	147.74	654.04	605.12	7.68		OSF1.50	14420.00	11450.00				MinPt-ADP	
756.99	153.64	654.23	603.35	7.43		OSF1.50	14670.00	11450.00				MinPt-EOU	
757.65	154.42	654.37	603.22	7.40		OSF1.50	14710.00	11450.00				MinPt-ADP	
760.45	157.54	655.09	602.91	7.28		OSF1.50	14840.00	11450.00				MinPt-ADP	
765.33	164.59	655.27	600.74	7.01		OSF1.50	15100.00	11450.00				MinPt-CtCt	
765.75	165.77	654.91	599.98	6.96		OSF1.50	15160.00	11450.00				MinPt-EOU	
766.26	166.36	655.03	599.91	6.94		OSF1.50	15190.00	11450.00				MinPt-ADP	
763.31	177.83	644.43	585.48	6.47		OSF1.50	15610.00	11450.00				MinPt-CtCt	
763.67	178.78	644.15	584.88	6.43		OSF1.50	15660.00	11450.00				MinPt-EOU	
767.69	185.99	643.37	581.70	6.22		OSF1.50	15930.00	11450.00				MinPt-EOU	
774.50	194.47	644.53	580.03	6.00		OSF1.50	16240.00	11450.00				MinPt-EOU	
774.69	194.69	644.57	580.01	5.99		OSF1.50	16250.00	11450.00				MinPt-ADP	
780.54	199.64	647.12	580.90	5.89		OSF1.50	16430.00	11450.00				MinPt-EOU	
787.23	210.81	646.38	576.41	5.62		OSF1.50	16820.00	11450.00				MinPt-EOU	
787.79	211.48	646.47	576.30	5.61		OSF1.50	16850.00	11450.00				MinPt-ADP	
791.86	216.25	647.37	575.61	5.51		OSF1.50	17010.00	11450.00				MinPt-EOU	
792.85	217.45	647.55	575.40	5.49		OSF1.50	17060.00	11450.00				MinPt-ADP	
794.92	221.94	646.64	572.98	5.39		OSF1.50	17190.00	11450.00				MinPt-CtCt	
795.26	223.01	646.26	572.25	5.37		OSF1.50	17240.00	11450.00				MinPt-EOU	
795.76	223.64	646.34	572.12	5.35		OSF1.50	17270.00	11450.00				MinPt-ADP	
801.36	235.99	643.71	565.37	5.11		OSF1.50	17670.00	11450.00				MinPt-CtCt	
802.43	241.60	641.04	560.83	5.00		OSF1.50	17860.00	11450.00				Enter Alert	
802.77	247.54	637.41	555.23	4.88		OSF1.50	18060.00	11450.00				MinPt-CtCt	
803.66	250.58	636.28	553.08	4.82		OSF1.50	18180.00	11450.00				MinPt-EOU	
802.20	262.52	626.86	539.68	4.60		OSF1.50	18560.00	11450.00				MinPt-CtCt	
802.52	264.49	625.87	538.03	4.56		OSF1.50	18640.00	11450.00				MinPt-EOU	
802.86	264.88	625.95	537.98	4.56		OSF1.50	18660.00	11450.00				MinPt-ADP	
804.57	285.30	614.04	519.27	4.24		OSF1.50	19310.00	11450.00				MinPt-CtCt	
803.60	296.39	605.68	507.22	4.08		OSF1.50	19670.00	11450.00				MinPt-CtCt	
804.01	297.72	605.20	506.29	4.06		OSF1.50	19730.00	11450.00				MinPt-EOU	
792.19	326.10	574.46	466.09	3.65		OSF1.50	20630.00	11450.00				MinPt-CtCt	
792.81	328.02	573.80	464.79	3.63		OSF1.50	20710.00	11450.00				MinPt-EOU	
793.40	328.72	573.92	464.68	3.63		OSF1.50	20740.00	11450.00				MinPt-ADP	
790.50	355.47	553.19	435.02	3.34		OSF1.50	21560.00	11450.00				MinPts	
790.46	355.41	553.19	435.05	3.34		OSF1.50	21568.69	11450.00				MinPt-CtCt	

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

Warning Alert

126.34	32.81	125.05	93.53	1295305.31	MAS = 10.00 (m)	0.00	0.00					Surface	
126.33	32.81	125.04	93.52	14708.07	MAS = 10.00 (m)	23.00	23.00					WRP	
125.77	32.81	121.82	92.96	46.72	MAS = 10.00 (m)	360.00	360.00					MinPts	
124.65	32.81	112.37	91.84	11.22	MAS = 10.00 (m)	1200.00	1200.00					MinPt-EOU	
124.54	32.81	111.51	91.73	10.37	MAS = 10.00 (m)	1290.00	1290.00					MinPt-EOU	
124.32	32.81	110.22	91.51	9.40	MAS = 10.00 (m)	1412.16	1412.16					MinPts	
126.03	32.81	107.89	93.23	7.29	MAS = 10.00 (m)	1820.00	1820.00					MinPt-EOU	
133.38	32.81	113.36	100.57	6.96	MAS = 10.00 (m)	2010.00	2009.81					MinPt-SF	
140.89	32.81	119.99	108.08	7.03	MAS = 10.00 (m)	2100.22	2099.67					MinPt-SF	
288.80	54.47	252.16	234.33	8.07	OSF1.50	3690.00	3680.73					MinPt-SF	
304.47	73.85	254.91	230.62	6.25	OSF1.50	5000.00	4989.43					MinPt-CtCt	
304.93	83.05	249.23	221.88	5.56	OSF1.50	5630.00	5619.43					MinPt-CtCt	
305.53	92.42	243.59	213.11	5.00	OSF1.50	6270.00	6259.43					Enter Alert	
304.42	99.31	237.89	205.11	4.63	OSF1.50	6740.00	6729.43					MinPt-CtCt	
304.91	104.61	234.84	200.29	4.40	OSF1.50	7100.00	7089.43					MinPt-CtCt	
307.27	116.28	229.42	190.99	3.98	OSF1.50	7890.00	7879.43					MinPt-CtCt	
311.11	130.61	223.70	180.49	3.59	OSF1.50	8860.00	8849.43					MinPt-EOU	
314.25	134.29	224.39	179.96	3.52	OSF1.50	9110.00	9099.43					MinPt-ADP	
315.79	135.59	225.08	180.21	3.51	OSF1.50	9200.00	9189.43					MinPt-SF	
431.12	130.89	343.53	300.23	4.97	OSF1.50	9690.00	9679.43					Exit Alert	
1754.40	93.15	1691.97	1661.25	28.54	OSF1.50	11960.00	11450.00					MinPt-CtCt	
1754.48	93.37	1691.91	1661.11	28.47	OSF1.50	11990.00	11450.00					MinPt-EOU	
1754.82	93.78	1691.97	1661.04	28.35	OSF1.50	12040.00	11450.00					MinPt-ADP	
1717.87	114.47	1641.23	1603.40	22.69	OSF1.50	13500.00	11450.00					MinPt-CtCt	
1718.22	115.56	1640.85	1602.66	22.48	OSF1.50	13560.00	11450.00					MinPt-EOU	
1718.65	116.11	1640.92	1602.55	22.38	OSF1.50	13590.00	11450.00					MinPt-ADP	
1714.46	122.14	1632.71	1592.32	21.21	OSF1.50	13870.00	11450.00					MinPt-CtCt	
1715.22	123.96	1632.24	1591.24	20.91	OSF1.50	13960.00	11450.00					MinPt-EOU	
1699.52	142.35	1604.30	1557.17	18.02	OSF1.50	14720.00	11450.00					MinPt-CtCt	
1699.97	143.68	1603.86	1556.30	17.86	OSF1.50	14780.00	11450.00					MinPt-EOU	
1700.55	144.34	1604.00	1556.22	17.78	OSF1.50	14810.00	11450.00					MinPt-ADP	
1677.14	174.11	1560.73	1503.03	14.52	OSF1.50	15910.00	11450.00					MinPt-CtCt	
1677.93	176.38	1560.02	1501.56	14.34	OSF1.50	16000.00	11450.00					MinPt-EOU	
1679.45	178.22	1560.31	1501.24	14.21	OSF1.50	16070.00	11450.00					MinPt-ADP	
1683.03	182.88	1560.78	1500.15	13.87	OSF1.50	16230.00	11450.00					MinPt-EOU	
1685.93	186.17	1561.49	1499.76	13.65	OSF1.50	16350.00	11450.00					MinPt-ADP	
1693.39	195.51	1562.72	1497.88	13.05	OSF1.50	16660.00	11450.00					MinPt-CtCt	
1693.99	197.28	1562.14	1496.71	12.94	OSF1.50	16730.00	11450.00					MinPt-EOU	
1695.24	201.02	1560.90	1494.22	12.70	OSF1.50	16850.00	11450.00					MinPt-CtCt	
1696.32	204.81	1559.44	1491.50	12.48	OSF1.50	16990.00	11450.00					MinPt-EOU	
1697.19	205.86	1559.62	1491.33	12.42	OSF1.50	17030.00	11450.00					MinPt-ADP	
1684.91	229.78	1531.40	1455.13	11.04	OSF1.50	17820.00	11450.00					MinPt-CtCt	
1685.38	231.32	1530.84	1454.06	10.97	OSF1.50	17880.00	11450.00					MinPt-EOU	
1688.54	254.44	1518.59	1434.10	9.99	OSF1.50	18630.00	11450.00					MinPt-CtCt	
1690.69	260.88	1516.45	1428.81	9.75	OSF1.50	18850.00	11450.00					MinPt-EOU	
1691.87	262.24	1516.71	1429.63	9.71	OSF1.50	18900.00	11450.00					MinPt-ADP	
1700.61	277.27	1513.43	1423.34	9.23	OSF1.50	19380.00	11450.00					MinPt-CtCt	
1704.21	284.69	1514.09	1419.52	9.01	OSF1.50	19620.00	11450.00					MinPt-EOU	
1705.87	286.66	1514.44	1419.21	8.95	OSF1.50	19690.00	11450.00					MinPt-ADP	
1715.44	296.54	1517.42	1418.90	8.70	OSF1.50	20010.00	11450.00					MinPt-EOU	
1726.74	310.91	1519.14	1415.83	8.35	OSF1.50	20460.00	11450.00					MinPt-ADP	
1735.96	336.29	1509.21	1396.33	7.69	OSF1.50	21360.00	11450.00					MinPt-CtCt	
1737.68	346.01	1506.67	1391.66	7.55	OSF1.50	21568.69	11450.00					MinPt-EOU	

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		
30-025-47636 - WILD SALSA FED COM 226H - MWD to 21865ft - A (DefinitiveSurvey)	196.85	32.81	194.87	164.04	30717.02	MAS = 10.00 (m)	23.00	23.00				WRP	
	190.92	32.81	179.44	158.11	19.90	MAS = 10.00 (m)	1030.00	1030.00				MinPts	
	190.36	32.81	176.28	157.56	15.57	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU	
	190.17	32.81	175.41	157.38	14.49	MAS = 10.00 (m)	1380.00	1380.00				MinPts	
	189.42	32.81	169.96	156.61	10.60	MAS = 10.00 (m)	1850.05	1850.05				MinPts	
	189.89	32.81	169.33	157.08	10.01	MAS = 10.00 (m)	1960.00	1959.92				MinPt-EOU	
	263.25	53.80	226.79	209.44	7.54	OSF1.50	3570.00	3561.39				MinPt-SF	
	306.45	66.95	261.23	239.50	7.01	OSF1.50	4470.00	4459.43				MinPt-ADP	
	313.19	73.13	263.85	240.06	6.55	OSF1.50	4890.00	4879.43				MinPt-ADP	
	301.11	91.51	239.57	209.61	5.00	OSF1.50	6140.00	6129.43	OSF<5.00			Enter Alert	
	271.66	120.23	190.97	151.43	3.41	OSF1.50	8080.00	8069.43				MinPt-CtCt	
	275.97	132.92	186.82	143.05	3.13	OSF1.50	8940.00	8929.43				MinPt-EOU	
	276.45	133.49	186.92	142.96	3.13	OSF1.50	8980.00	8969.43				MinPt-ADP	
	277.77	134.68	187.45	143.09	3.11	OSF1.50	9060.00	9049.43				MinPt-ADP	
	278.76	135.37	187.97	143.39	3.11	OSF1.50	9110.00	9099.43				MinPt-SF	
	399.72	123.07	317.14	276.65	4.92	OSF1.50	9540.00	9529.43	OSF>5.00			Exit Alert	
	1865.20	113.03	1789.35	1752.17	25.07	OSF1.50	13530.00	11450.00				MinPt-CtCt	
	1867.89	119.29	1787.86	1748.60	23.77	OSF1.50	13830.00	11450.00				MinPt-EOU	
	1872.66	142.43	1777.20	1730.23	19.92	OSF1.50	14780.00	11450.00				MinPt-CtCt	
	1874.87	148.75	1775.21	1726.13	19.08	OSF1.50	15030.00	11450.00				MinPt-EOU	
	1877.21	151.55	1775.68	1725.66	18.75	OSF1.50	15140.00	11450.00				MinPt-ADP	
	1877.72	178.08	1758.50	1699.64	15.94	OSF1.50	16080.00	11450.00				MinPt-CtCt	
	1878.32	179.81	1757.94	1698.51	15.79	OSF1.50	16150.00	11450.00				MinPt-EOU	
	1878.95	180.55	1758.09	1698.40	15.73	OSF1.50	16180.00	11450.00				MinPt-ADP	
	1885.58	195.20	1754.94	1690.38	14.59	OSF1.50	16670.00	11450.00				MinPt-CtCt	
	1887.04	199.32	1753.66	1687.72	14.30	OSF1.50	16820.00	11450.00				MinPt-EOU	
	1888.61	201.22	1753.96	1687.38	14.17	OSF1.50	16890.00	11450.00				MinPt-ADP	
	1885.06	231.82	1730.01	1653.24	12.27	OSF1.50	17890.00	11450.00				MinPt-CtCt	
	1882.77	269.76	1702.43	1613.01	10.52	OSF1.50	19120.00	11450.00				MinPt-CtCt	
	1888.58	282.47	1699.77	1606.11	10.07	OSF1.50	19540.00	11450.00				MinPt-EOU	
	1891.33	302.93	1688.87	1588.40	9.40	OSF1.50	20180.00	11450.00				MinPt-CtCt	
	1890.22	313.97	1680.41	1576.25	9.07	OSF1.50	20530.00	11450.00				MinPt-CtCt	
	1890.60	318.72	1677.62	1571.88	8.93	OSF1.50	20680.00	11450.00				MinPt-CtCt	
	1891.77	323.39	1675.68	1568.38	8.81	OSF1.50	20840.00	11450.00				MinPt-EOU	
	1892.69	324.48	1675.87	1568.21	8.78	OSF1.50	20880.00	11450.00				MinPt-ADP	
	1894.21	329.47	1674.06	1564.74	8.66	OSF1.50	21020.00	11450.00				MinPt-CtCt	
	1894.13	332.34	1672.07	1561.79	8.58	OSF1.50	21110.00	11450.00				MinPt-CtCt	
	1894.36	332.98	1671.87	1561.37	8.57	OSF1.50	21140.00	11450.00				MinPt-EOU	
	1894.54	333.18	1671.92	1561.36	8.56	OSF1.50	21150.00	11450.00				MinPt-ADP	
	1899.24	334.82	1675.53	1564.43	8.54	OSF1.50	21250.00	11450.00				MinPt-SF	
	1948.71	335.60	1724.47	1613.10	8.74	OSF1.50	21568.69	11450.00				TD	
30-025-47636 - WILD SALSA FED COM 226H - MWD to 21865ft - A (DefinitiveSurvey)													Warning Alert
15228.13	212.10	15086.07	15016.03	108.70	OSF1.50	0.00	0.00				Surface		
15211.36	212.04	15069.34	14999.32	108.61	OSF1.50	23.00	23.00				WRP		
13776.98	200.03	13643.03	13576.94	104.21	OSF1.50	2100.00	2099.45				MinPt-SF		
755.60	228.27	602.93	527.34	4.99	OSF1.50	21050.00	11450.00	OSF<5.00			Enter Alert		
372.52	335.71	148.21	36.81	1.67	OSF1.50	21568.69	11450.00				MinPts		
30-025-33580 RED TANK 31 STATE #004 Active Incl only+Blind 0-9100' (DefinitiveSurvey)													Warning Alert
1116.92	32.81	1114.94	1084.11	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1116.52	32.81	1114.50	1083.71	25837.31	MAS = 10.00 (m)	20.00	20.00				MinPt-SF		
1116.49	32.81	1114.47	1083.68	29791.96	MAS = 10.00 (m)	23.00	23.00				WRP		
1116.45	32.81	1114.33	1083.64	7682.41	MAS = 10.00 (m)	40.00	40.00				MinPts		
935.45	222.90	786.25	712.54	6.33	OSF1.50	4079.66	4069.09				MinPt-CtCt		
940.57	234.81	783.41	705.76	6.04	OSF1.50	4260.00	4249.43				MinPt-EOU		
970.80	292.66	775.09	678.14	5.00	OSF1.50	4850.00	4839.43	OSF<5.00			Enter Alert		
1018.25	476.43	700.08	541.82	3.21	OSF1.50	7740.00	7729.43				MinPt-EOU		
1033.66	655.64	596.03	378.02	2.37	OSF1.50	9150.00	9139.43				MinPts		
1523.42	464.26	1210.70	1059.16	4.99	OSF1.50	10260.00	10249.43	OSF>5.00			Exit Alert		
3245.07	479.10	2922.54	2765.97	10.33	OSF1.50	12930.00	11450.00				MinPt-SF		
11041.44	657.64	10601.74	10383.80	25.32	OSF1.50	21568.69	11450.00				TD		
30-025-47992 - WILD SALSA FED COM 406H - MWD to 23449ft - A (DefinitiveSurvey)													Warning Alert
16202.74	225.78	16051.56	15976.96	108.58	OSF1.50	0.00	0.00				Surface		
16185.11	225.74	16033.95	15959.37	108.49	OSF1.50	23.00	23.00				WRP		
14660.07	215.56	14515.77	14444.51	102.84	OSF1.50	2100.00	2099.45				MinPt-SF		
1107.49	334.84	883.76	772.65	4.98	OSF1.50	21190.00	11450.00	OSF<5.00			Enter Alert		
987.67	367.87	741.93	619.80	4.04	OSF1.50	21568.69	11450.00				MinPts		
30-025-33370 - Thyme APY Federal 1 INC Only to 10250ft (DefinitiveSurvey)													Warning Alert
1001.69	32.81	999.71	968.88	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1001.54	32.81	999.54	968.73	49722.20	MAS = 10.00 (m)	10.00	10.00				MinPt-SF		
1001.49	32.81	999.45	968.68	19538.29	MAS = 10.00 (m)	23.00	23.00				WRP		
1001.48	99.40	934.63	902.09	15.36	OSF1.50	1800.00	1800.00				MinPt-CtCt		
1003.80	106.52	932.20	897.29	14.35	OSF1.50	1920.00	1919.96				MinPt-EOU		
1006.69	110.07	932.73	896.63	13.92	OSF1.50	1980.00	1979.88				MinPt-ADP		
1199.64	361.06	958.40	838.58	5.00	OSF1.50	5880.00	5869.43	OSF<5.00			Enter Alert		
1199.64	631.02	778.42	568.62	2.86	OSF1.50	10280.00	10269.43				MinPts		
1611.95	485.79	1287.59	1126.15	4.99	OSF1.50	11410.00	11320.93	OSF>5.00			Exit Alert		
10255.10	633.05	9832.57	9622.05	24.35	OSF1.50	21568.69	11450.00				TD		
30-025-47638-0100 - WILD SALSA FED COM 324H ST01 - MWD to 22866ft - A (DefinitiveSurvey)													Warning Alert
16280.03	211.97	16138.06	16068.07	116.28	OSF1.50	0.00	0.00				Surface		
16262.78	211.92	16120.84	16050.86	116.18	OSF1.50	23.00	23.00				WRP		
14775.83	201.35	14641.01	14574.48	111.03	OSF1.50	2100.00	2099.45				MinPt-SF		
1267.41	381.72	1012.43	885.69	4.99	OSF1.50	21280.00	11450.00	OSF<5.00			Enter Alert		
1109.68	427.40	824.24	682.27	3.90	OSF1.50	21568.69	11450.00				MinPts		
30-025-47629 - WILD SALSA FED COM 215H - MWD to 21650ft - A (DefinitiveSurvey)													Warning Alert
14921.28	206.69	14782.83	14714.60	109.32	OSF1.50	0.00	0.00				Surface		
14904.82	206.61	14766.42	14698.21	109.24	OSF1.50	23.00	23.00				WRP		
13504.78	193.11	13375.45	13311.67	105.85	OSF1.50	2100.00	2099.45				MinPt-SF		
10539.57	174.93	10422.41	10364.64	91.21	OSF1.50	10690.00	10679.43				MinPt-CtCt		
10539.71	175.39	10422.24	10364.32	90.96	OSF1.50	10750.00	10738.43				MinPt-EOU		
10539.91	175.63	10422.28	10364.28	90.84	OSF1.50	10780.00	10769.43				MinPt-ADP		
1494.34	449.49	1194.18	1044.85	5.00	OSF1.50	20910.00	11450.00	OSF<5.00			Enter Alert		
1267.70	530.27	913.69	737.43	3.59	OSF1.50	21568.69	11450.00				MinPts		
30-025-33574 - Coriander AOC State 2 - INC Only to 9170ft - P (DefinitiveSurvey)													Warning Alert
1502.20	32.81	1500.22	1469.39	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1501.79	32.81	1499.75	1468.96.										

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		
	1501.64	100.19	1434.26	1401.45	22.86	OSF1.50	1800.00	1800.00				MinPt-CtCt	
	1525.60	151.93	1423.72	1373.67	15.22	OSF1.50	2620.00	2616.60				MinPt-EOU	
	1582.55	476.30	1264.47	1106.24	5.00	OSF1.50	8070.00	8059.43	OSF<5.00			Enter Alert	
	1582.58	542.63	1220.29	1039.95	4.38	OSF1.50	9230.00	9219.43				MinPts	
	1692.22	509.98	1351.70	1182.25	4.99	OSF1.50	9820.00	9809.43	OSF>5.00			Exit Alert	
	2239.89	120.65	2158.95	2119.24	28.18	OSF1.50	12780.00	11450.00				MinPt-CtCt	
	2240.37	121.61	2158.79	2118.75	27.96	OSF1.50	12830.00	11450.00				MinPt-EOU	
	2253.40	136.22	2162.08	2117.17	25.07	OSF1.50	13030.00	11450.00				MinPt-ADP	
	3081.59	391.16	2820.32	2690.43	11.86	OSF1.50	14900.00	11450.00				MinPt-SF	
	9066.13	538.12	8706.89	8528.01	25.34	OSF1.50	21568.69	11450.00				TD	
30-025-47640 - WILD SALSA FED COM 404H - MWD to 23199ft - A (DefinitiveSurvey)													Warning Alert
	16210.60	225.80	16059.41	15984.80	108.63	OSF1.50	0.00	0.00				Surface	
	16192.99	225.77	16041.82	15967.22	108.52	OSF1.50	23.00	23.00				WRP	
	1733.31	521.78	1384.96	1211.53	4.99	OSF1.50	21150.00	11450.00	OSF<5.00			Enter Alert	
	1650.77	544.32	1287.39	1106.45	4.56	OSF1.50	21568.69	11450.00				MinPts	
Cimarex Coriander AOC 1-12 State 3H - Corrected MWD to 19431ft (DefinitiveSurvey)													Pass
	134.05	32.81	132.76	101.24	3442032.11	MAS = 10.00 (m)	0.00	0.00				MinPts	
	134.05	32.81	132.75	101.24	12227.41	MAS = 10.00 (m)	23.00	23.00				WRP	
	131.19	32.81	121.55	98.38	15.56	MAS = 10.00 (m)	910.81	910.81				MinPts	
	131.52	32.81	119.10	98.72	11.69	MAS = 10.00 (m)	1190.00	1190.00				MinPts	
	131.55	32.81	118.28	98.74	10.74	MAS = 10.00 (m)	1290.00	1290.00				MinPt-EOU	
	132.05	32.81	117.04	99.24	9.34	MAS = 10.00 (m)	1480.00	1480.00				MinPt-EOU	
	134.92	32.81	116.92	102.11	7.87	MAS = 10.00 (m)	1780.00	1780.00				MinPt-EOU	
	142.96	32.81	122.87	110.15	7.43	MAS = 10.00 (m)	1990.00	1989.86				MinPt-SF	
	153.01	32.81	131.84	120.20	7.53	MAS = 10.00 (m)	2100.22	2099.67				MinPt-SF	
	556.29	110.89	482.03	445.40	7.58	OSF1.50	7480.00	7469.43				MinPt-CtCt	
	556.42	113.57	480.38	442.85	7.40	OSF1.50	7660.00	7649.43				MinPt-CtCt	
	561.15	128.13	475.40	433.01	6.61	OSF1.50	8640.00	8629.43				MinPt-EOU	
	564.81	132.44	476.18	432.36	6.43	OSF1.50	8930.00	8919.43				MinPt-ADP	
	565.55	133.20	476.43	432.36	6.41	OSF1.50	8980.00	8969.43				MinPt-ADP	
	568.52	134.63	478.43	433.89	6.37	OSF1.50	9090.00	9079.43				MinPt-SF	
	2016.55	99.00	1950.22	1917.55	30.85	OSF1.50	12000.00	11450.00				MinPt-CtCt	
	2016.65	99.24	1950.16	1917.41	30.77	OSF1.50	12030.00	11450.00				MinPt-EOU	
	2016.85	99.48	1950.20	1917.37	30.70	OSF1.50	12060.00	11450.00				MinPt-ADP	
	1962.34	144.32	1865.80	1818.02	20.53	OSF1.50	14610.00	11450.00				MinPt-CtCt	
	1962.17	148.28	1862.99	1813.89	19.97	OSF1.50	14770.00	11450.00				MinPt-CtCt	
	1962.57	149.55	1862.54	1813.02	19.81	OSF1.50	14830.00	11450.00				MinPt-EOU	
	1963.09	150.19	1862.63	1812.90	19.73	OSF1.50	14860.00	11450.00				MinPt-ADP	
	1972.72	159.87	1865.81	1812.85	18.61	OSF1.50	15240.00	11450.00				MinPt-ADP	
	1986.33	188.48	1860.35	1797.85	15.88	OSF1.50	16290.00	11450.00				MinPt-CtCt	
	1990.92	197.79	1858.73	1793.13	15.17	OSF1.50	16630.00	11450.00				MinPt-EOU	
	1997.08	206.10	1859.35	1790.98	14.60	OSF1.50	16920.00	11450.00				MinPt-EOU	
	2011.92	223.41	1862.65	1788.51	13.56	OSF1.50	17520.00	11450.00				MinPt-ADP	
	2016.33	229.22	1863.18	1787.11	13.25	OSF1.50	17710.00	11450.00				MinPt-EOU	
	2020.82	234.98	1863.84	1785.84	12.95	OSF1.50	17910.00	11450.00				MinPt-ADP	
	2016.20	265.10	1839.14	1751.11	11.45	OSF1.50	18890.00	11450.00				MinPt-CtCt	
	1990.09	323.75	1773.93	1666.35	9.24	OSF1.50	20780.00	11450.00				MinPt-CtCt	
	1991.88	330.87	1770.97	1661.01	9.05	OSF1.50	21020.00	11450.00				MinPt-EOU	
	1988.87	348.57	1756.16	1640.30	8.56	OSF1.50	21568.69	11450.00				MinPts	
30-025-33354 - April APZ State 1 - Gyro to 10860ft - A (DefinitiveSurvey)													Pass
	5427.40	32.81	5426.42	5394.60	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5427.27	32.81	5426.27	5394.46	321129.54	MAS = 10.00 (m)	23.00	23.00				WRP	
	5427.23	32.81	5426.15	5394.42	55561.80	MAS = 10.00 (m)	50.00	50.00				MinPts	
	5427.33	32.81	5412.27	5394.53	385.51	MAS = 10.00 (m)	1500.00	1500.00				MinPts	
	5428.59	32.81	5410.25	5395.78	312.77	MAS = 10.00 (m)	1840.00	1840.00				MinPt-EOU	
	5538.59	62.78	5496.41	5475.81	134.42	OSF1.50	4240.00	4229.43				MinPt-EOU	
	5542.30	68.61	5496.23	5473.69	122.92	OSF1.50	4640.00	4629.43				MinPt-EOU	
	5542.68	69.18	5496.23	5473.50	121.89	OSF1.50	4680.00	4669.43				MinPt-EOU	
	5543.17	69.92	5496.23	5473.25	120.60	OSF1.50	4730.00	4719.43				MinPt-EOU	
	5543.66	70.63	5496.25	5473.03	119.37	OSF1.50	4780.00	4769.43				MinPt-EOU	
	5530.46	101.67	5462.35	5428.79	82.38	OSF1.50	6860.00	6849.43				MinPt-CtCt	
	5530.47	102.99	5461.49	5427.49	81.31	OSF1.50	6950.00	6939.43				MinPt-CtCt	
	5531.14	111.11	5456.73	5420.02	75.32	OSF1.50	7500.00	7489.43				MinPt-CtCt	
	5531.11	112.74	5455.62	5418.37	74.23	OSF1.50	7610.00	7599.43				MinPt-CtCt	
	5533.88	132.53	5445.20	5401.35	63.09	OSF1.50	8970.00	8959.43				MinPt-EOU	
	5534.15	132.85	5445.26	5401.31	62.94	OSF1.50	9000.00	8989.43				MinPt-ADP	
	5535.27	133.83	5445.72	5401.44	62.49	OSF1.50	9080.00	9069.43				MinPt-ADP	
	5550.36	142.89	5454.77	5407.45	58.66	OSF1.50	9700.00	9689.43				MinPt-ADP	
	5551.86	144.37	5455.28	5407.48	58.07	OSF1.50	9790.00	9779.43				MinPt-ADP	
	5552.55	145.26	5455.39	5407.30	57.72	OSF1.50	9840.00	9829.43				MinPt-EOU	
	5553.62	146.53	5455.61	5407.09	57.23	OSF1.50	9930.00	9919.43				MinPt-ADP	
	5562.76	153.66	5459.99	5409.09	54.64	OSF1.50	10430.00	10419.43				MinPt-ADP	
	5563.76	154.42	5460.48	5409.33	54.38	OSF1.50	10480.00	10469.43				MinPt-ADP	
	548.90	159.79	442.04	389.10	5.18	OSF1.50	16774.67	11450.00				MinPt-CtCt	
	549.11	160.38	441.86	388.73	5.16	OSF1.50	16790.00	11450.00				MinPt-EOU	
	549.48	160.76	441.98	388.72	5.15	OSF1.50	16800.00	11450.00				MinPt-ADP	
	554.04	162.70	445.25	391.34	5.13	OSF1.50	16850.00	11450.00				MinPt-SF	
	4825.34	177.24	4706.85	4648.10	41.06	OSF1.50	21568.69	11450.00				TD	
30-025-47633 - Wild Salsa Federal Com 095H MWD to 20658ft - PR (DefinitiveSurvey)													Pass
	14352.13	201.04	14217.45	14151.10	108.14	OSF1.50	0.00	0.00				Surface	
	14336.31	200.94	14201.69	14135.37	108.07	OSF1.50	23.00	23.00				WRP	
	13002.97	186.07	12878.33	12816.89	105.81	OSF1.50	2100.00	2099.45				MinPt-SF	
	12375.02	177.42	12256.15	12197.60	105.66	OSF1.50	3320.00	3312.76				MinPt-SF	
	12107.73	173.61	11991.40	11934.11	105.67	OSF1.50	3900.00	3889.67				MinPt-SF	
	11654.23	167.21	11542.17	11487.02	105.65	OSF1.50	4890.00	4879.43				MinPt-SF	
	10525.93												

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		
10525.94	165.41	10415.13	10360.54	96.38		OSF1.50	9940.00	9929.43				MinPt-EOU	
10526.06	165.55	10415.15	10360.51	96.30		OSF1.50	9960.00	9949.43				MinPt-ADP	
1708.40	408.13	1435.81	1390.27	6.30		OSF1.50	21568.69	11450.00				MinPts	
30-025-47634 - WILD SALSA FED COM 096H - MWD to 20416ft - A (DefinitiveSurvey)													Pass
14145.71	198.02	14013.03	13947.68	108.22		OSF1.50	0.00	0.00				Surface	
14130.12	197.92	13997.51	13932.20	108.16		OSF1.50	23.00	23.00				WRP	
12910.21	183.53	12787.27	12726.68	106.52		OSF1.50	1940.00	1939.94				MinPt-SF	
10501.58	157.65	10395.92	10343.91	100.94		OSF1.50	9610.00	9599.43				MinPt-CtCt	
10501.66	157.93	10395.83	10343.73	100.76		OSF1.50	9650.00	9639.43				MinPt-EOU	
10501.83	158.14	10395.85	10343.58	100.62		OSF1.50	9680.00	9669.43				MinPt-ADP	
1861.01	358.83	1621.25	1502.18	7.81		OSF1.50	21568.69	11450.00				MinPts	

1. Geological Formations

TVD of target 11,450

Pilot Hole TD N/A

MD at TD 21,569

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1256	N/A	
Top of Salt	1790	N/A	
Base of Salt	4970	N/A	
Top Delaware Sands/Bell Canyon	5017	Hydrocarbons	
Cherry Canyon	6130	Hydrocarbons	
Brushy Canyon	7201	Hydrocarbons	
Basal Brushy Canyon	8532	N/A	
Bone Spring Lime	8825	N/A	
Leonard/Avalon Sand	8940	Hydrocarbons	
Avalon Shale	9360	Hydrocarbons	
1st Bone Spring Sand	9989	Hydrocarbons	
2nd Bone Spring Sand	10650	Hydrocarbons	
3rd Bone Spring Carbonate	11110	Hydrocarbons	
3rd Bone Spring Carb/Harkey - Target	11450	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	10865	10865	7"	29.00	L-80	BT&C	1.38	1.60	2.04
8 3/4	10865	11615	11407	7"	29.00	L-80	BT&C	1.32	1.53	43.01
6	10365	21569	11450	4-1/2"	11.60	P-110	BT&C	1.27	1.80	29.16
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 Fed Com 303H

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

3. Cementing Program

Casing	# 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	729	11.90	2.40	13.80	30	Lead: 35:65 (poz/H) + Salt + Sodium Metasilcate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder
	291	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	374	10.30	3.64	22.18		Lead: Tuned Light + LCM
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	739	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	45
Intermediate	0	51
Production	4777	25
Completion System	11415	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	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram	X	
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other		
6	13 5/8	5M	Annular	X	50% of working pressure
			Blind Ram		5M
			Pipe Ram	X	
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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 11615'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11938' to 21569'	OBM	9.50 - 10.00	50-70	N/C

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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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	5954 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**

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

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

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

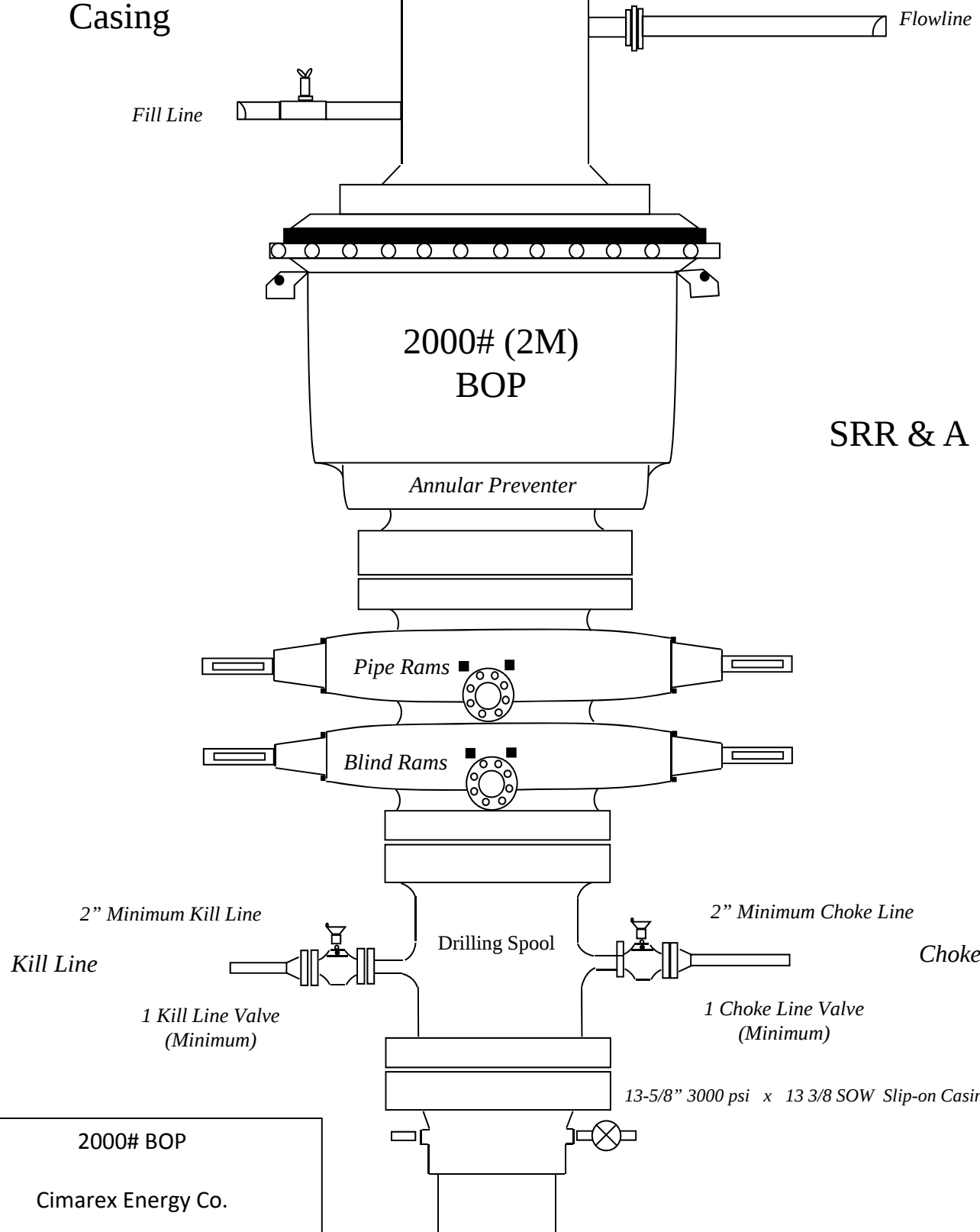
A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

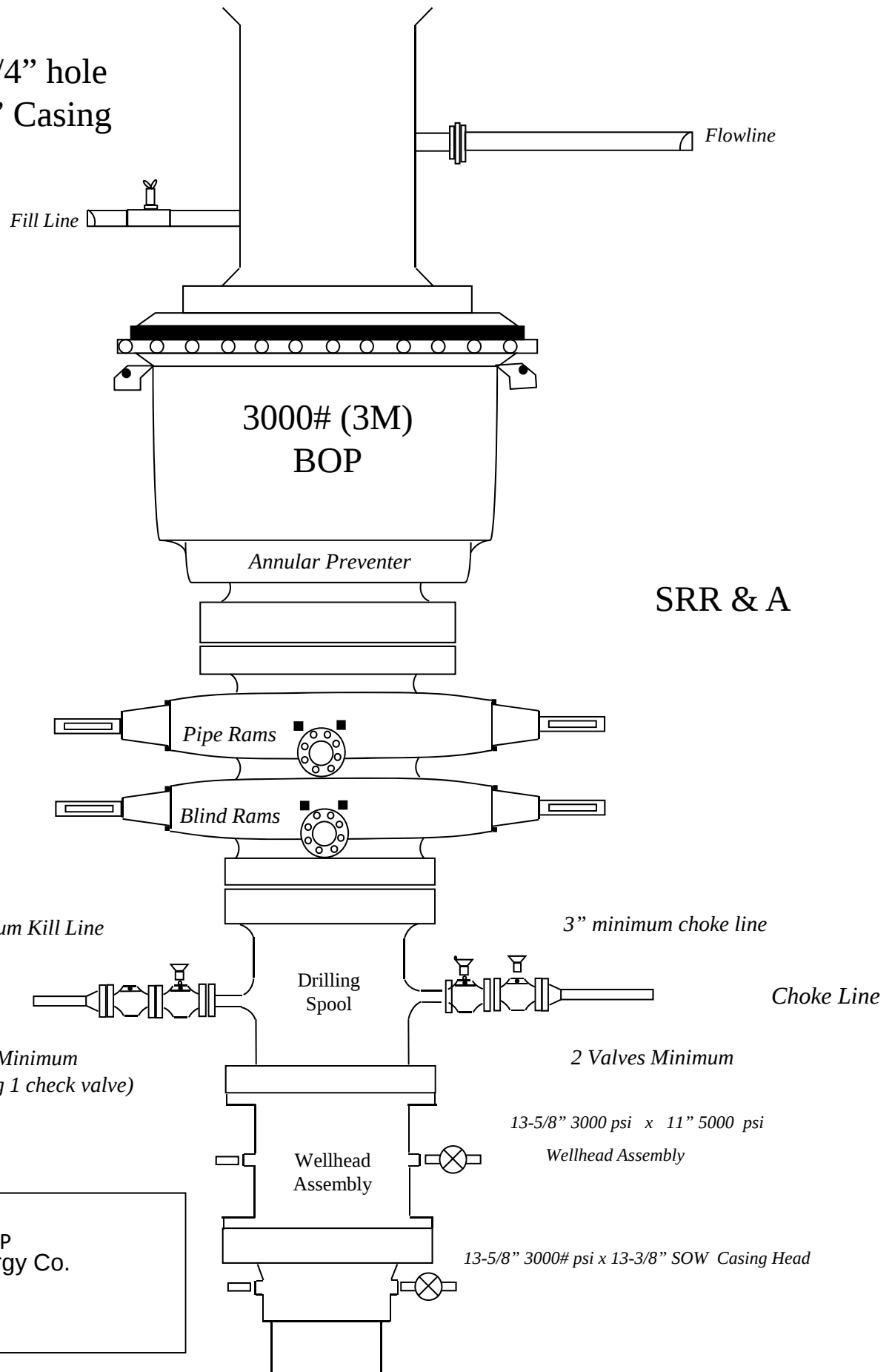
All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

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

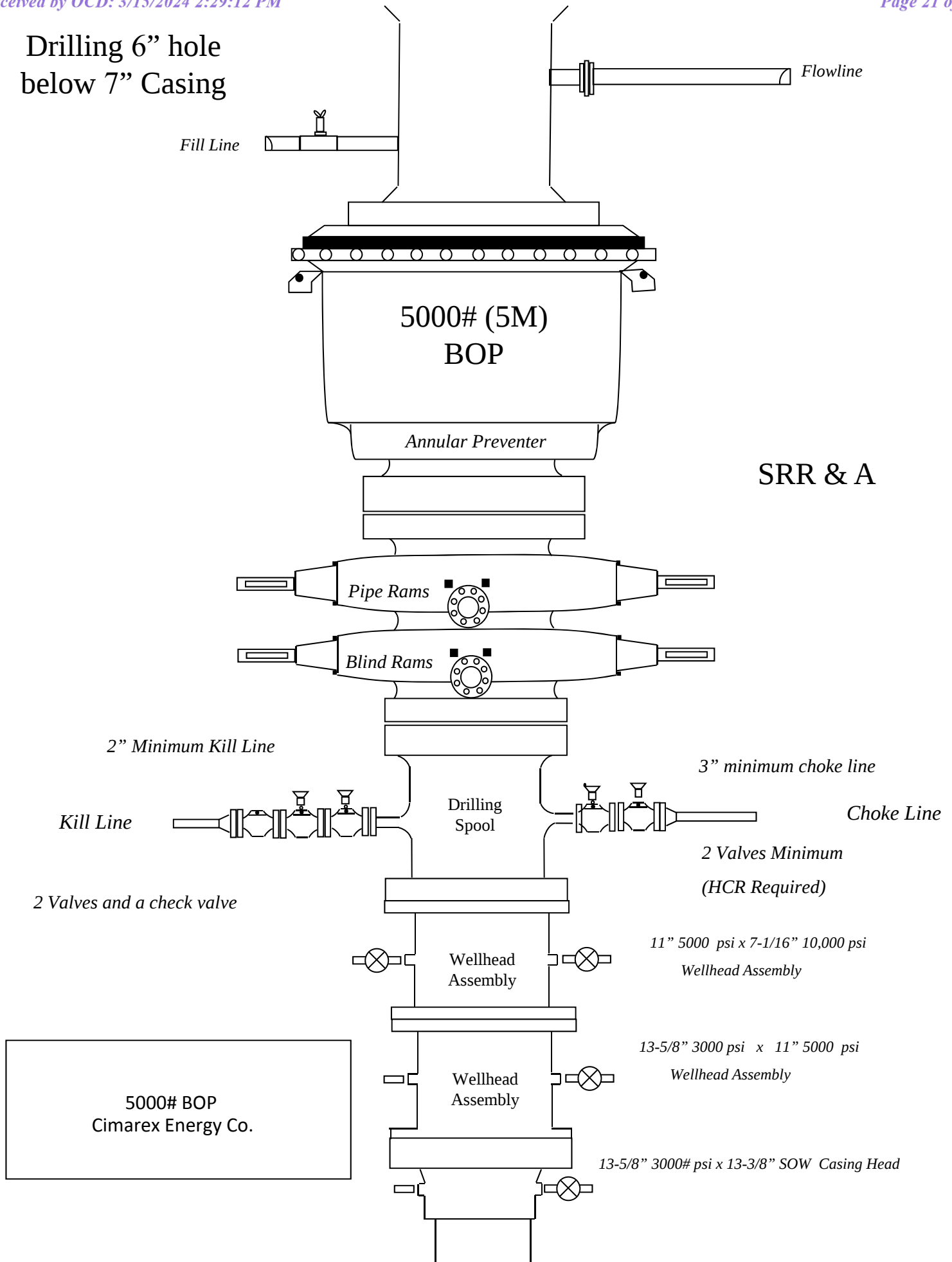
Drilling 12 1/4" hole
below 13 3/8"
Casing

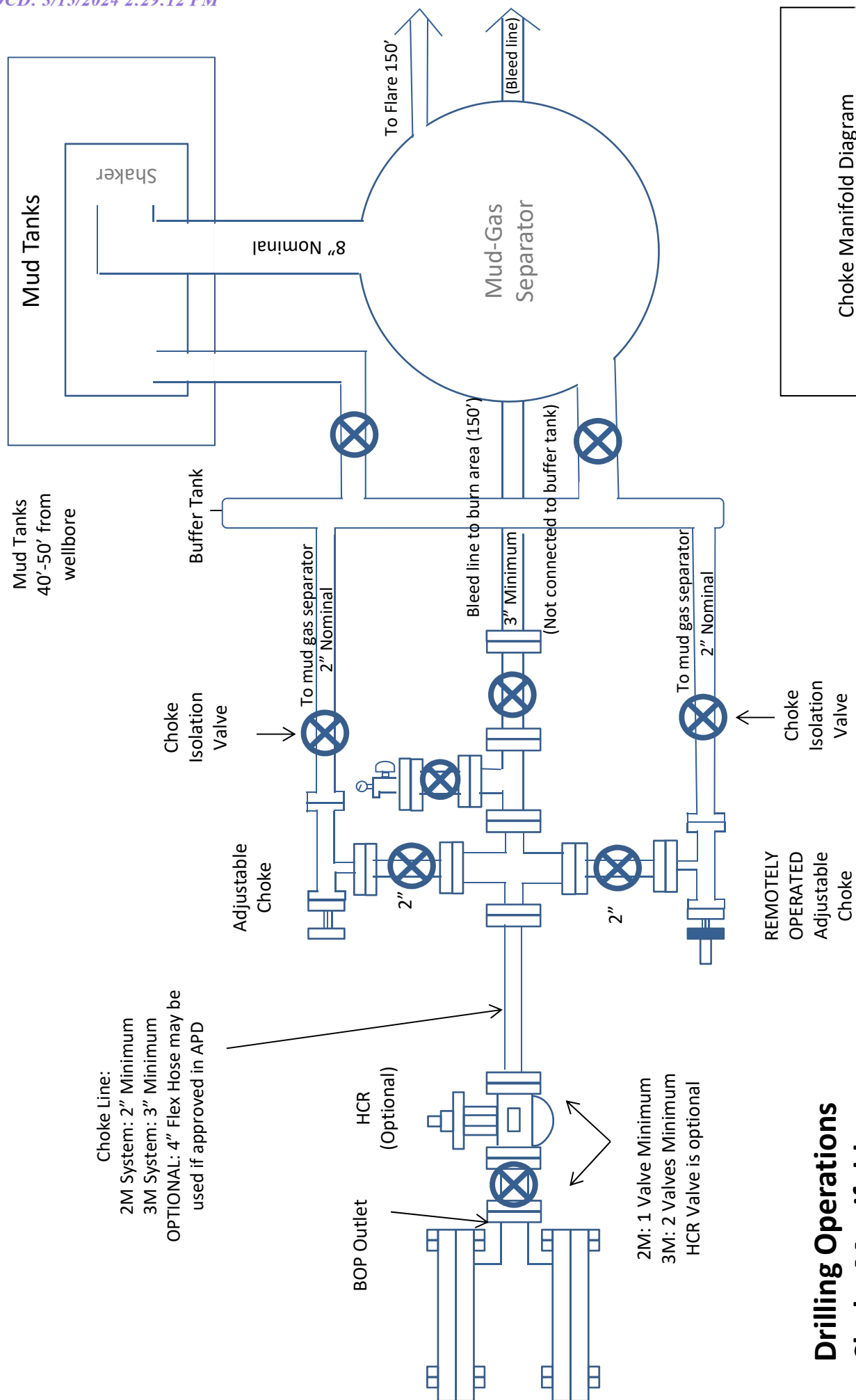


Drilling 8-3/4" hole
below 9 5/8" Casing



Drilling 6" hole
below 7" Casing

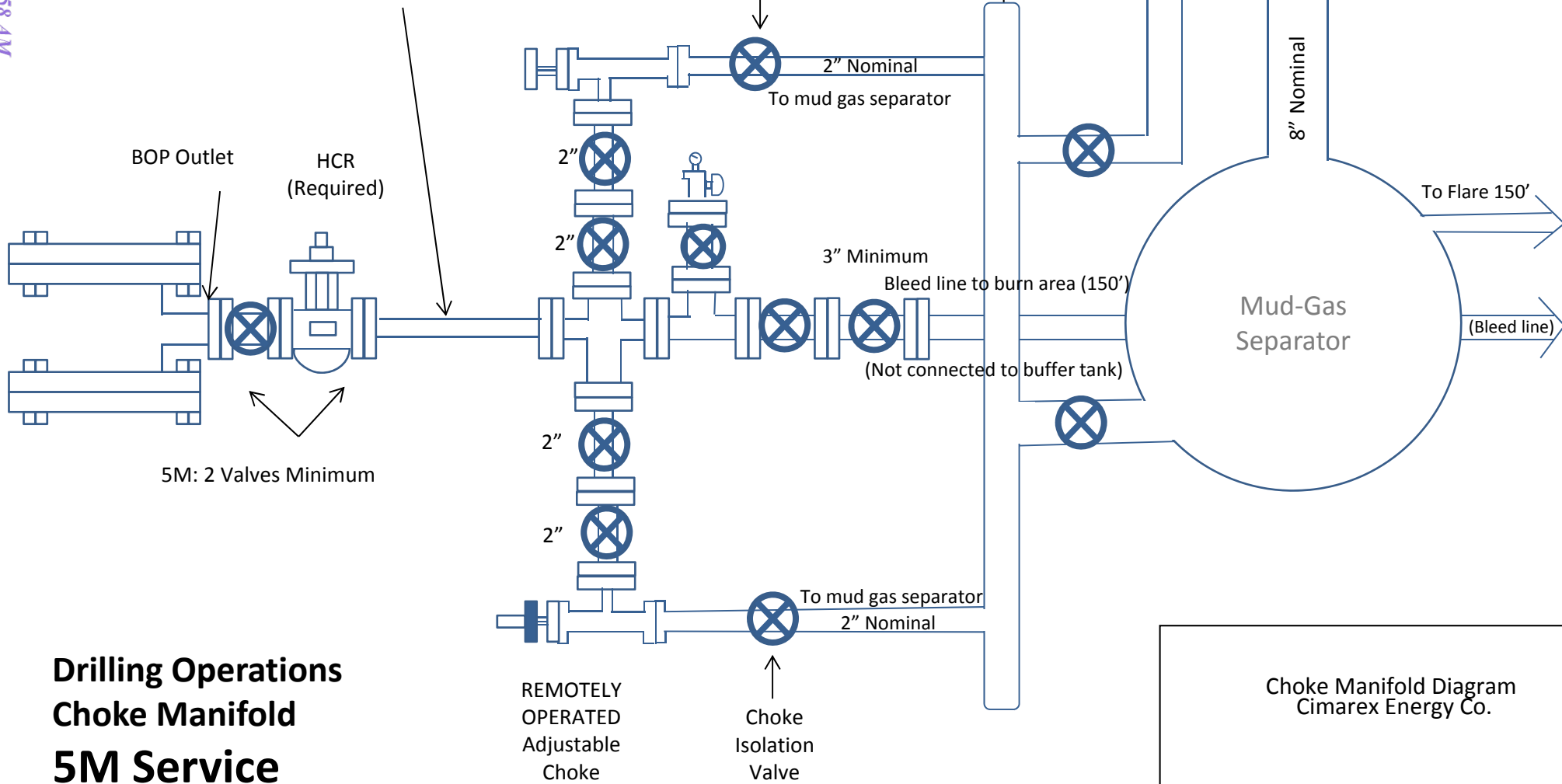




Choke Manifold Diagram
Cimarex Energy Co.

**Drilling Operations
Choke Manifold
2M/3M Service**

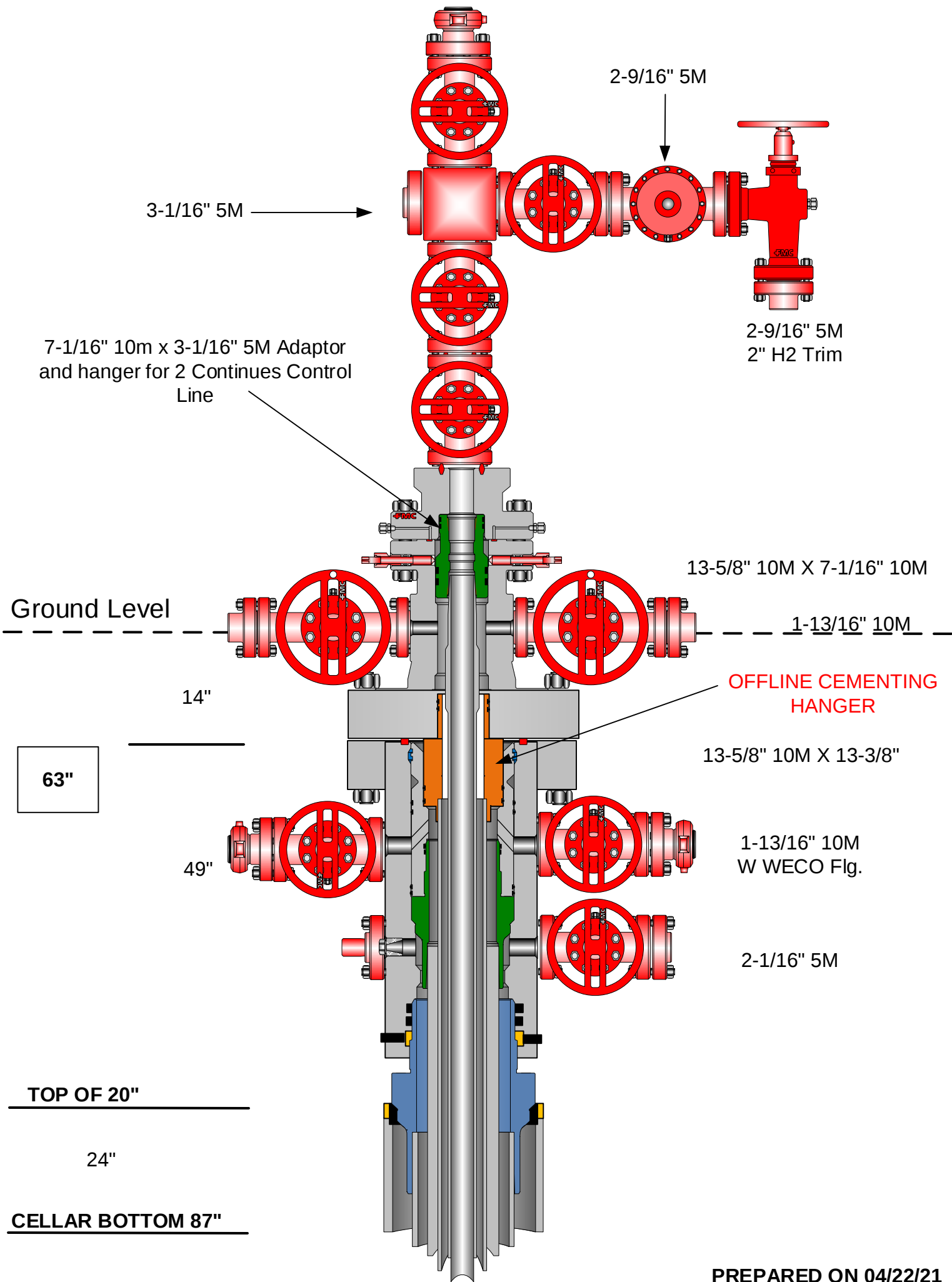
Choke Line:
5M System: 3" Minimum
OPTIONAL: 4" Flex Hose may be
used if approved in APD





CACTUS FOR SERVICE
WEARBUSHING
IN CASING HEAD &
CASING SPOOL

LEA CO., NM



PREPARED ON 04/22/21

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 303H		1, Sec 1 T23S, R32E	211 FNL/670 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 303H		7/1/25	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.

All Company and Contract personnel admitted on location must be trained by a qualified

1 H₂S safety instructor to the following:

- A. Characteristics of H₂S
- B. Physical effects and hazards
- C. Principal and operation of H₂S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2 H₂S Detection and Alarm Systems:

- A. 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.
- B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock on the rig floor and / or top doghouse should be high enough to be visible.

4 Condition Flags and Signs

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only H₂S trained and certified personnel admitted to location.

5 Well control equipment:

- A. See exhibit "E-1"

6 Communication:

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

7 Drillstem Testing:

No DSTs or cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

H₂S Contingency Plan

New Mexico

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H₂S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the 432-620-1975
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training in the:
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

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.

Characteristics of H₂S & SO₂

Please see attached International Chemical Safety Cards.

Contacting Authorities

Cimarex Energy Company's 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. 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. Cimarex Energy Company's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts

New Mexico

<u>Company Office</u>			
Office		800-969-4789	
and After-Hours Menu			
<u>Key Personnel</u>			
Name	Title	Office	Mobile
Grant Muncrief	Drilling & Completions Manager	432-570-3607	918-805-7951
Charlie Pritchard	Drilling & Completions Ops Manager	432-620-1975	432-238-7084
Monte Thiems	Drlg & Completions Superintendent	918-570-7235	918-607-6030
<u>Artesia</u>			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee		575-746-2122	
New Mexico Oil Conservation Division		575-748-1283	
<u>Carlsbad</u>			
Ambulance		911	
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committee		575-887-6544	
US Bureau of Land Management		575-887-6544	
<u>Santa Fe</u>			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
<u>National</u>			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
<u>Medical</u>			
Trans-Aero Medevac (Carlsbad & Artesia)		1-844-435-4911	
Air Methods (Carlsbad & Hobbs)		1-800-242-6199	
Aero Care (Odessa & Fort Stockton)		1-800-627-2376	
<u>Other</u>			
Cudd Well Control		432-699-0139	or 432-563-3356
Wild Well Control		281-784-4700	
Halliburton Boots & Coots		281-931-8884	