

District I1625 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 366953

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

1. Operator Name and Address CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706		2. OGRID Number 162683
		3. API Number 30-025-53157
4. Property Code 336070	5. Property Name TURNPIKE 33 32 STATE COM	6. Well No. 214H

7. Surface Location

UL - Lot H	Section 33	Township 18S	Range 34E	Lot Idn H	Feet From 1405	N/S Line N	Feet From 636	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 32	Township 18S	Range 34E	Lot Idn D	Feet From 330	N/S Line N	Feet From 100	E/W Line W	County Lea
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9. Pool Information

E-K;BONE SPRING	21650
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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 4016
16. Multiple N	17. Proposed Depth 19993	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 10/1/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1730	1063	0
Int1	12.25	9.625	40	3753	873	0
Prod	8.75	7	29	10014	478	3553
Liner1	6	4.5	11.6	19993	740	9814

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

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

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.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Phillip Levasseur	Approved By:	Paul F Kautz
Title:	Regulatory Compliance Manager	Title:	Geologist
Email Address:	phillip.levasseur@coterra.com	Approved Date:	7/5/2024
Date:	6/13/2024	Phone:	412-759-4585
		Expiration Date:	7/5/2026
		Conditions of Approval Attached	

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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	² Pool Code 21650	³ Pool Name E-K; Bone Spring
⁴ Property Code	⁵ Property Name TURNPIKE 33-32 STATE COM	⁶ Well Number 214H
⁷ OGRID No. 162683	⁸ Operator Name CIMAREX ENERGY OF COLORADO	⁹ Elevation 4015.7'

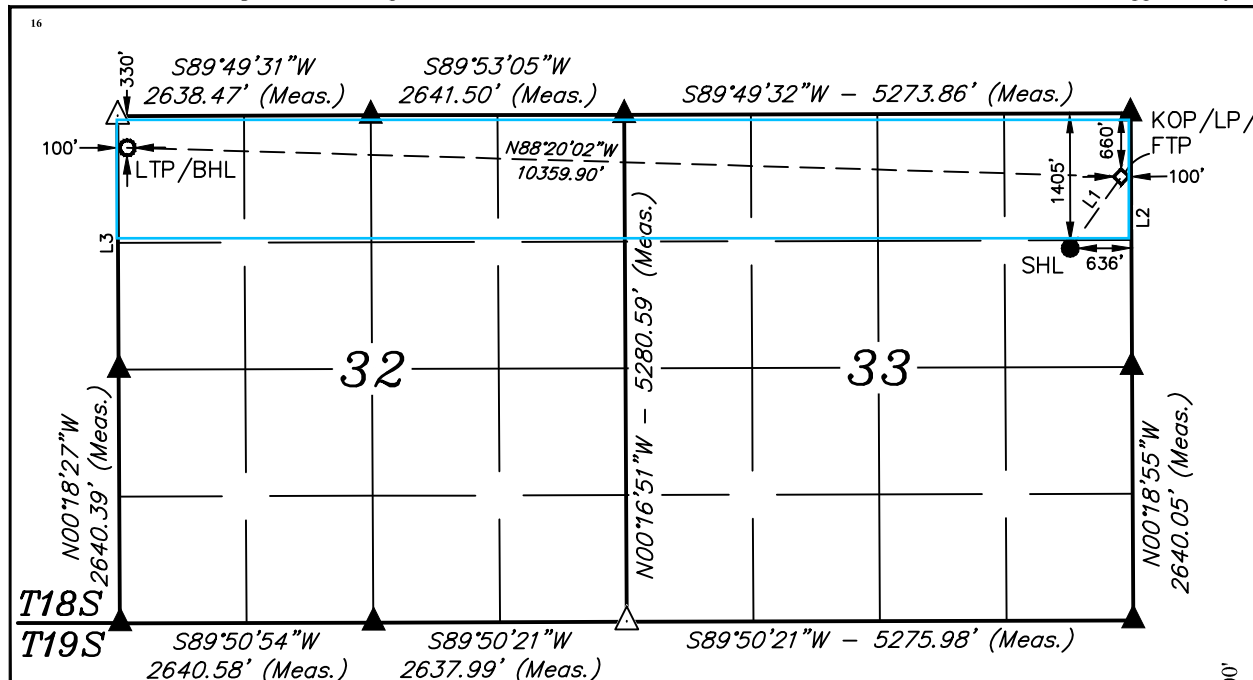
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	33	18S	34E		1405	NORTH	636	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	18S	34E		330	NORTH	100	WEST	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.



NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°42'27.33" (32.707592°)
LONGITUDE = -103°33'31.67" (-103.558796°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°42'26.89" (32.707468°)
LONGITUDE = -103°33'29.88" (-103.558300°)
STATE PLANE NAD 83 (N.M. EAST)
N: 622023.33' E: 779575.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 621959.21' E: 738396.16'
NAD 83 (KOP/LP/FTP)
LATITUDE = 32°42'34.70" (32.709640°)
LONGITUDE = -103°33'25.41" (-103.557058°)
NAD 27 (KOP/LP/FTP)
LATITUDE = 32°42'34.26" (32.709516°)
LONGITUDE = -103°33'23.62" (-103.556562°)
STATE PLANE NAD 83 (N.M. EAST)
N: 622772.42' E: 780104.93'
STATE PLANE NAD 27 (N.M. EAST)
N: 622708.27' E: 738925.37'
NAD 83 (LTP/BHL)
LATITUDE = 32°42'37.98" (32.710550°)
LONGITUDE = -103°35'26.57" (-103.590715°)
NAD 27 (LTP/BHL)
LATITUDE = 32°42'37.54" (32.710428°)
LONGITUDE = -103°35'24.79" (-103.590218°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623029.61' E: 769749.99'
STATE PLANE NAD 27 (N.M. EAST)
N: 622965.57' E: 728570.55'



SCALE

DRAWN BY: C.S.C. 12-18-23
REV: 2 T.L.L. 04-01-24

(COMPANY NAME & KOP/LP/FTP CHANGES)

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 6/6/24
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.

December 7, 2023

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

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

NOTE:

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

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Form APD Conditions
Permit 366953

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO [162683] 6001 Deauville Blvd Midland, TX 79706	API Number: 30-025-53157
	Well: TURNPIKE 33 32 STATE COM #214H

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



COTERRA

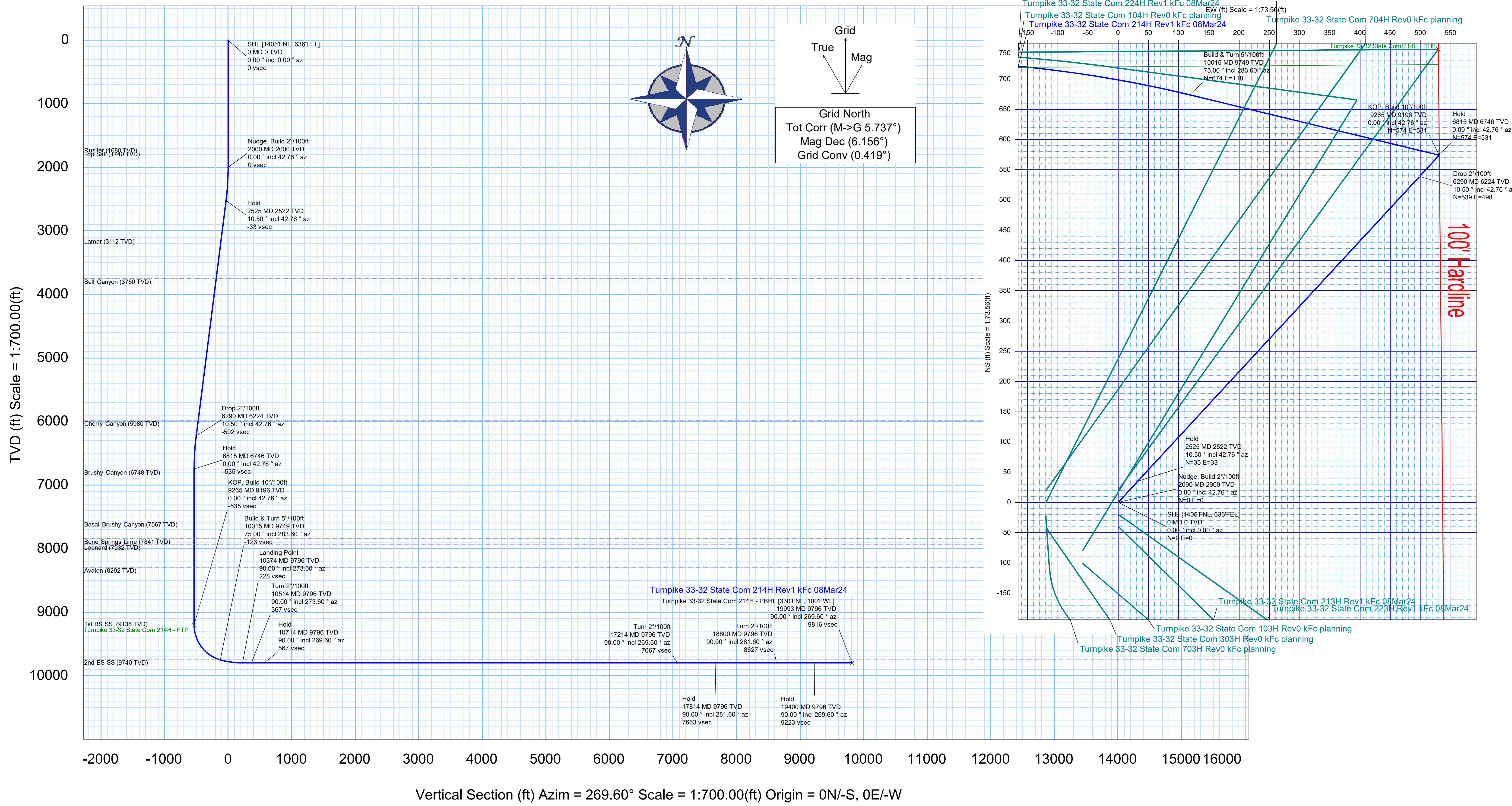
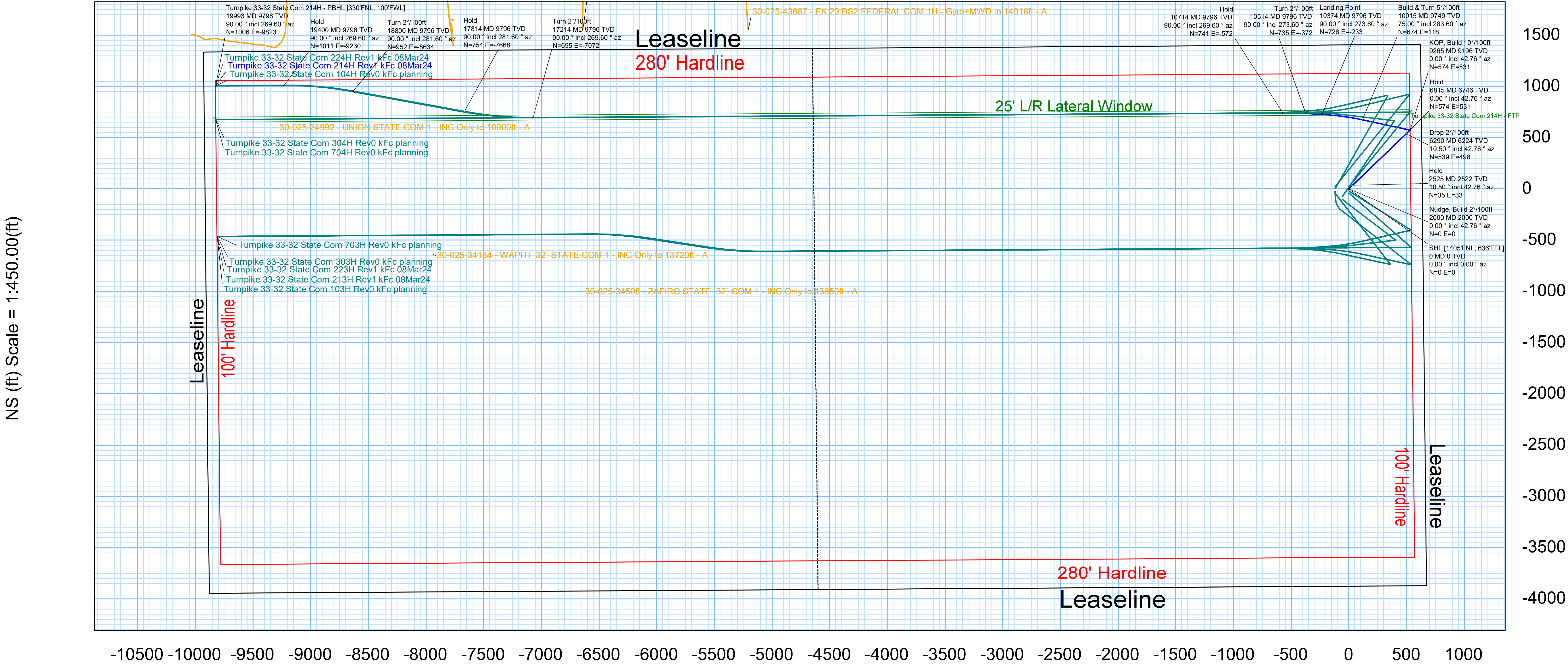
Rev1



Borehole: Turnpike 33-32 State Com 214H	Well: Turnpike 33-32 State Com 214H	Field: NM Lea County (NAD 83)	Structure: Coterra Turnpike 33-32 State Com Pads (north)
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Gravity & Magnetic Parameters	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Miscellaneous
Model: HDGM 2024 MagDec: 6.156°	Dip: 60.503° FS: 47568.817nT	Date: 08-Mar-2024 Gravity FS: 998.499mgn (9.80665 Based)	Lat: N 32 42 27.33 Lon: W 103 33 31.67
	Northing: 622023.33RUS Easting: 779575.74RUS	Grid Conv: 0.4185° Scale Fact: 0.99997409	Turnpike 33-32 State Com 214H Turnpike 33-32 State Com 214H Rev1 kFc 08Mar24
			TVD Ref: RKB (4038.700 ft above MSL)

Critical Point	MD	INCL	AZIM	Critical Points TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [1405FNL, 636FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	1690.00	0.00	42.76	1690.00	0.00	0.00	0.00	0.00
Top Salt	1740.00	0.00	42.76	1740.00	0.00	0.00	0.00	0.00
Nudge, Build 2°/100ft	2000.00	0.00	42.76	2000.00	0.00	0.00	0.00	0.00
Hold	2524.87	10.50	42.76	2521.94	-32.80	35.20	32.55	2.00
Lamar	3124.98	10.50	42.76	3112.00	-107.59	115.47	106.78	0.00
Bell Canyon	3773.84	10.50	42.76	3750.00	-188.45	202.27	187.05	0.00
Cherry Canyon	6041.79	10.50	42.76	5980.00	-471.10	505.64	467.58	0.00
Drop 2°/100ft	6289.70	10.50	42.76	6223.75	-502.00	538.80	498.25	0.00
Hold	6814.56	0.00	42.76	6745.69	-534.79	574.00	530.80	2.00
Brushy Canyon	6816.87	0.00	42.76	6748.00	-534.79	574.00	530.80	0.00
Basal Brushy Canyon	7635.87	0.00	42.76	7567.00	-534.79	574.00	530.80	0.00
Bone Springs Lime	7909.87	0.00	42.76	7841.00	-534.79	574.00	530.80	0.00
Leonard	8000.87	0.00	42.76	7932.00	-534.79	574.00	530.80	0.00
Avalon	8360.87	0.00	42.76	8292.00	-534.79	574.00	530.80	0.00
1st BS SS	9204.87	0.00	42.76	9136.00	-534.79	574.00	530.80	0.00
KOP, Build 10°/100ft	9264.56	0.00	42.76	9195.69	-534.79	574.00	530.80	0.00
2nd BS SS	9982.62	71.81	283.60	9740.00	-152.45	666.66	147.80	10.00
Build & Turn 5°/100ft	10014.56	75.00	283.60	9749.12	-122.74	673.86	118.04	10.00
Landing Point	10373.84	90.00	273.60	9796.00	227.70	726.37	-232.77	5.00
Turn 2°/100ft	10513.84	90.00	273.60	9796.00	367.36	735.16	-272.50	0.00
Hold	10713.84	90.00	269.60	9796.00	567.19	740.74	-572.38	2.00
Turn 2°/100ft	17213.84	90.00	269.60	9796.00	7067.19	695.36	-7072.22	0.00
Hold	17813.84	90.00	281.60	9796.00	7662.82	753.81	-7668.27	2.00
Turn 2°/100ft	18799.84	90.00	281.60	9796.00	8627.27	952.07	-8634.13	0.00
Hold	19399.86	90.00	269.60	9796.00	9222.92	1010.51	-9230.20	2.00
Turnpike 33-32 State Com 214H - PBHL [330°FNL, 100°FWL]	19992.67	90.00	269.60	9796.00	9815.72	1006.37	-9822.98	0.00





Turnpike 33-32 State Com 214H Rev1 kFc 08Mar24 Proposal Geodetic Report

Def Plan

Report Date: March 07, 2024 - 08:14 PM (UTC 0)
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure / Slot: Coltera Turnpike 33-32 State Com Pads (north) / Turnpike 33-32 State
Well: Turnpike 33-32 State Com 214H
Borehole: Turnpike 33-32 State Com 214H
UBH1 / API#: Unknown / Unknown
Survey Name: Turnpike 33-32 State Com 214H Rev1 kFc 08Mar24
Survey Date: March 06, 2024
Tort / AHD / DDI / ERD Ratio: 141.959' / 11180.471 ft / 6.510' / 1.141
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: 32°42'27.3266"N, 103°33'31.6851"W
Location Grid N/E Y/X: N 820223.330 RJUS, E 779575.740 RJUS
CRS Grid Convergence Angle: 0.419"
Grid Scale Factor: 0.99997409
Version / Patch: 2023.1.0.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 269.600 °(GRID North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 4038.700 ft above MSL
Sealed / Ground Elevation: 4015.700 ft above MSL
Magnetic Declination: 6.156"
Total Gravity Field Strength: 996.498mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47568.817 nT
Magnetic Dip Angle: 60.503°
Declination Date: March 08, 2024
Magnetic Declination Model: HDGM 2024
North Reference: Grid North
Grid Convergence Used: 0.419"
Total Corr Mag North->Grid North: 5.737"
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 [1405FNL, 636FEL]	0.00	0.00	0.00	0.00	-4.038.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586				
	100.00	0.00	42.76	100.00	-3.938.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	200.00	0.00	42.76	200.00	-3.838.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	300.00	0.00	42.76	300.00	-3.738.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	400.00	0.00	42.76	400.00	-3.638.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	500.00	0.00	42.76	500.00	-3.538.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	600.00	0.00	42.76	600.00	-3.438.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	700.00	0.00	42.76	700.00	-3.338.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	800.00	0.00	42.76	800.00	-3.238.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	900.00	0.00	42.76	900.00	-3.138.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,000.00	0.00	42.76	1,000.00	-3.038.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,100.00	0.00	42.76	1,100.00	-2.938.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,200.00	0.00	42.76	1,200.00	-2.838.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,300.00	0.00	42.76	1,300.00	-2.738.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,400.00	0.00	42.76	1,400.00	-2.638.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,500.00	0.00	42.76	1,500.00	-2.538.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
Russter	1,600.00	0.00	42.76	1,600.00	-2.438.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,680.00	0.00	42.76	1,680.00	-2.358.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
Top Salt	1,700.00	0.00	42.76	1,700.00	-2.338.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,740.00	0.00	42.76	1,740.00	-2.298.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
Nudge, Build 2"/100ft	1,800.00	0.00	42.76	1,800.00	-2.238.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	1,900.00	0.00	42.76	1,900.00	-2.138.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	2,000.00	0.00	42.76	2,000.00	-2.038.70	0.00	0.00	0.00	622.023.33	779.575.74	32.70759157	-103.55879586	0.00	0.00	0.00	
	2,100.00	2.00	42.76	2,099.98	-1.938.72	-1.19	1.28	1.18	622.024.61	779.576.92	32.70759507	-103.55879198	2.00	2.00	0.00	
	2,200.00	4.00	42.76	2,199.84	-1.838.86	-4.77	5.12	4.74	622.028.45	779.580.48	32.70760556	-103.55878034	2.00	2.00	0.00	
	2,300.00	6.00	42.76	2,299.45	-1.739.25	-10.74	11.52	10.66	622.034.85	779.586.39	32.70762303	-103.55876095	2.00	2.00	0.00	
	2,400.00	8.00	42.76	2,398.70	-1.640.00	-19.07	20.47	18.93	622.043.80	779.594.67	32.70764745	-103.55873384	2.00	2.00	0.00	
	2,500.00	10.00	42.76	2,497.47	-1.541.23	-29.77	31.95	29.55	622.055.28	779.605.29	32.70767880	-103.55869905	2.00	2.00	0.00	
	2,524.87	10.50	42.76	2,521.94	-1.516.76	-32.80	35.20	32.55	622.058.53	779.608.29	32.70768767	-103.55868920	2.00	2.00	0.00	
	2,600.00	10.50	42.76	2,595.81	-1.442.89	-42.16	45.25	41.85	622.068.58	779.617.59	32.70771510	-103.55865875	0.00	0.00	0.00	
	2,700.00	10.50	42.76	2,694.14	-1.344.56	-54.62	58.63	54.22	622.081.96	779.629.95	32.70775162	-103.55861823	0.00	0.00	0.00	
	2,800.00	10.50	42.76	2,792.46	-1.246.24	-67.09	72.01	66.59	622.095.33	779.642.32	32.70778813	-103.55857770	0.00	0.00	0.00	
	2,900.00	10.50	42.76	2,890.79	-1.147.91	-79.55	85.38	78.96	622.108.71	779.654.69	32.70782465	-103.55853717	0.00	0.00	0.00	
	3,000.00	10.50	42.76	2,989.12	-1.049.58	-92.01	98.76	91.33	622.122.08	779.667.06	32.70786116	-103.55849664	0.00	0.00	0.00	
	Lamar	3,100.00	10.50	42.76	3,087.44	-951.26	-104.47	112.13	103.69	622.135.46	779.679.43	32.70789767	-103.55845611	0.00	0.00	0.00
		3,124.98	10.50	42.76	3,112.00	-926.70	-107.59	115.47	106.78	622.138.80	779.682.52	32.70790679	-103.55844599	0.00	0.00	0.00
3,200.00		10.50	42.76	3,185.77	-852.93	-116.94	125.51	116.06	622.148.84	779.691.80	32.70793419	-103.55841558	0.00	0.00	0.00	
3,300.00		10.50	42.76	3,284.10	-754.60	-129.40	138.89	128.43	622.162.21	779.704.17	32.70797070	-103.55837505	0.00	0.00	0.00	
3,400.00		10.50	42.76	3,382.42	-656.28	-141.86	140.80	140.80	622.175.59	779.716.54	32.70800722	-103.55833453	0.00	0.00	0.00	
3,500.00		10.50	42.76	3,480.75	-557.95	-154.33	165.64	153.17	622.188.96	779.728.91	32.70804373	-103.55829400	0.00	0.00	0.00	
3,600.00		10.50	42.76	3,579.07	-459.63	-166.79	179.02	165.54	622.202.34	779.741.28	32.70808025	-103.55825347	0.00	0.00	0.00	
3,700.00		10.50	42.76	3,677.40	-361.30	-179.25	192.39	177.91	622.215.72	779.753.65	32.70811676	-103.55821294	0.00	0.00	0.00	
3,773.84		10.50	42.76	3,750.00	-288.70	-188.45	202.27	187.05	622.225.59	779.762.78	32.70814372	-103.55818302	0.00	0.00	0.00	
3,800.00		10.50	42.76	3,775.73	-262.97	-191.71	205.77	190.28	622.229.09	779.766.02	32.70815328	-103.55817241	0.00	0.00	0.00	
3,900.00		10.50	42.76	3,874.05	-164.65	-204.18	219.14	202.65	622.242.47	779.778.39	32.70818979	-103.55813188	0.00	0.00	0.00	
4,000.00		10.50	42.76	3,972.38	-66.32	-216.64	232.52	215.02	622.255.84	779.790.75	32.70822631	-103.55809135	0.00	0.00	0.00	
4,100.00		10.50	42.76	4,070.71	32.01	-229.10	245.90	227.39	622.269.22	779.803.12	32.70826282	-103.55805083	0.00	0.00	0.00	
4,200.00		10.50	42.76	4,169.03	130.33	-241.56	259.27	239.76	622.282.60	779.815.49	32.70829933	-103.55801030	0.00	0.00	0.00	
4,300.00		10.50	42.76	4,267.36	228.66	-254.03	272.65	252.13	622.295.97	779.827.86	32.70833585	-103.55796977	0.00	0.00	0.00	
4,400.00		10.50	42.76	4,365.69	326.99	-266.49	286.03	264.50	622.309.35	779.840.23	32.70837236	-103.55792924	0.00	0.00	0.00	
Bell Canyon	4,500.00	10.50	42.76	4,464.01	425.31	-278.95	299.40	276.87	622.322.72	779.852.60	32.70840888	-103.55788871	0.00	0.00	0.00	
	4,600.00	10.50	42.76	4,562.34	523.64	-291.41	312.78	289.24	622.336.10	779.864.97	32.70844539	-103.55784818	0.00	0.00	0.00	
	4,700.00	10.50	42.76	4,660.66	621.96	-303.88	326.15	301.61	622.349.48	779.877.34	32.70848191	-103.55780765	0.00	0.00	0.00	
	4,800.00	10.50	42.76	4,758.99	720.29	-316.34	339.53	313.98	622.362.85	779.889.71	32.70851842	-103.55776712	0.00	0.00	0.00	
	4,900.00	10.50	42.76	4,857.32	818.62	-328.80	352.91	326.35	622.376.23	779.902.08	32.70855493	-103.55772659	0.00	0.00	0.00	
	5,000.00	10.50	42.76	4,955.64	916.94	-341.27	366.28	338.72	622.389.60	779.914.45	32.70859145	-103.55768607	0.00	0.00	0.00	
	5,100.00	10.50	42.76	5,053.97	1,015.27	-353.73	379.66	351.09	622.402.98	779.926.82	32.70862796	-103.55764554	0.00	0.00	0.00	
	5,200.00	10.50	42.76	5,152.30	1,113.60	-366.19	393.04	363.46	622.416.36	779.939.19	32.70866448	-103.55760501	0.00	0.00	0.00	
	5,300.00	10.50	42.76	5,250.62	1,211.92	-378.65	406.41	375.83	622.429.73	779.951.56	32.70870099	-103.55756448	0.00	0.00	0.00	
	5,400.00	10.50	42.76	5,348.95	1,310.25	-391.12	419.79	388.20	622.443.11	779.963.92	32.70873751	-103.55752395	0.00	0.00	0.0	

Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (°)	Longitude (°)	DLS (ft/100ft)	BR (ft/100ft)	TR (ft/100ft)
1st BS SS □ KOP, Build 10"/100ft	9,000.00	0.00	42.76	8,931.13	4,892.43	-534.79	574.00	530.80	622,597.31	780,106.53	32.70915847	-103.55705670	0.00	0.00	0.00
	9,100.00	0.00	42.76	9,031.13	4,992.43	-534.79	574.00	530.80	622,597.31	780,106.53	32.70915847	-103.55705670	0.00	0.00	0.00
	9,200.00	0.00	42.76	9,131.13	5,092.43	-534.79	574.00	530.80	622,597.31	780,106.53	32.70915847	-103.55705670	0.00	0.00	0.00
	9,204.87	0.00	42.76	9,136.00	5,097.30	-534.79	574.00	530.80	622,597.31	780,106.53	32.70915847	-103.55705670	0.00	0.00	0.00
	9,264.56	0.00	42.76	9,195.69	5,156.99	-534.79	574.00	530.80	622,597.31	780,106.53	32.70915847	-103.55705670	0.00	0.00	0.00
	9,300.00	3.54	283.60	9,231.10	5,192.40	-533.73	574.26	529.74	622,597.57	780,105.46	32.70915919	-103.55706015	10.00	10.00	0.00
	9,400.00	13.54	283.60	9,329.87	5,291.17	-519.33	577.75	515.31	622,601.07	780,091.18	32.70916001	-103.55710695	10.00	10.00	0.00
	9,500.00	23.54	283.60	9,424.56	5,385.86	-488.52	585.22	484.44	622,608.53	780,060.17	32.70919022	-103.55720713	10.00	10.00	0.00
	9,600.00	33.54	283.60	9,512.29	5,473.59	-442.21	596.44	438.06	622,619.75	780,013.79	32.70922000	-103.55735765	10.00	10.00	0.00
	9,700.00	43.54	283.60	9,590.40	5,551.70	-381.83	611.07	377.57	622,634.38	779,953.30	32.70926343	-103.55755394	10.00	10.00	0.00
2nd BS SS □	9,800.00	53.54	283.60	9,656.53	5,617.83	-309.20	628.67	304.82	622,651.98	779,880.55	32.70931327	-103.55779002	10.00	10.00	0.00
	9,900.00	63.54	283.60	9,708.64	5,669.94	-226.54	648.70	222.01	622,672.02	779,797.75	32.70936999	-103.55805873	10.00	10.00	0.00
	9,962.62	71.81	283.60	9,740.00	5,701.30	-152.45	667.66	147.80	622,689.97	779,723.53	32.70942082	-103.55829957	10.00	10.00	0.00
	10,000.00	73.54	283.60	9,745.18	5,706.48	-136.34	670.56	131.67	622,693.87	779,707.40	32.70943187	-103.55835191	10.00	10.00	0.00
	10,014.56	75.00	283.60	9,749.12	5,710.42	-122.74	673.86	118.04	622,697.17	779,693.78	32.70944121	-103.55839613	10.00	10.00	0.00
	10,100.00	78.54	281.15	9,768.68	5,729.98	-41.65	691.66	36.82	622,714.97	779,612.56	32.70949177	-103.55865974	5.00	4.15	-2.87
	10,200.00	82.71	278.35	9,784.96	5,746.26	55.44	708.35	-60.39	622,731.66	779,515.35	32.70953959	-103.55897536	5.00	4.17	-2.79
	10,300.00	86.90	275.61	9,794.01	5,755.31	154.18	720.44	-159.21	622,743.75	779,416.53	32.70957481	-103.55929632	5.00	4.19	-2.74
	10,373.84	90.00	273.60	9,796.00	5,757.30	227.70	726.37	-232.77	622,749.68	779,342.97	32.70959257	-103.55953532	5.00	4.20	-2.72
	10,400.00	90.00	273.60	9,796.00	5,757.30	253.79	728.01	-258.88	622,751.32	779,316.87	32.70959761	-103.55962015	0.00	0.00	0.00
Turn 2"/100ft	10,500.00	90.00	273.60	9,796.00	5,757.30	357.35	734.29	-358.68	622,757.60	779,217.07	32.70961687	-103.55994444	0.00	0.00	0.00
	10,513.84	90.00	273.60	9,796.00	5,757.30	367.36	735.16	-372.50	622,758.47	779,203.25	32.70961953	-103.55998933	0.00	0.00	0.00
	10,600.00	90.00	271.88	9,796.00	5,757.30	453.38	738.28	-458.55	622,762.58	779,117.20	32.70963257	-103.56026899	2.00	0.00	-2.00
	10,700.00	90.00	269.88	9,796.00	5,757.30	553.35	740.81	-558.54	622,764.11	779,017.22	32.70963878	-103.56059398	2.00	0.00	-2.00
	10,713.84	90.00	269.60	9,796.00	5,757.30	567.19	740.74	-572.38	622,764.05	779,003.38	32.70963888	-103.56063898	2.00	0.00	-2.00
	10,800.00	90.00	269.60	9,796.00	5,757.30	653.35	740.14	-658.54	622,763.45	778,917.22	32.70963895	-103.56091907	0.00	0.00	0.00
	10,900.00	90.00	269.60	9,796.00	5,757.30	753.35	739.44	-758.53	622,762.75	778,817.23	32.70963904	-103.56124416	0.00	0.00	0.00
	11,000.00	90.00	269.60	9,796.00	5,757.30	853.35	738.74	-858.53	622,762.05	778,717.23	32.70963912	-103.56156926	0.00	0.00	0.00
	11,100.00	90.00	269.60	9,796.00	5,757.30	953.35	738.05	-958.53	622,761.36	778,617.24	32.70963920	-103.56189436	0.00	0.00	0.00
	11,200.00	90.00	269.60	9,796.00	5,757.30	1,053.35	737.35	-1,058.53	622,760.66	778,517.24	32.70963928	-103.56221944	0.00	0.00	0.00
Hold	11,300.00	90.00	269.60	9,796.00	5,757.30	1,153.35	736.65	-1,158.52	622,759.96	778,417.25	32.70963936	-103.56254453	0.00	0.00	0.00
	11,400.00	90.00	269.60	9,796.00	5,757.30	1,253.35	735.95	-1,258.52	622,759.26	778,317.25	32.70963944	-103.56286962	0.00	0.00	0.00
	11,500.00	90.00	269.60	9,796.00	5,757.30	1,353.35	735.25	-1,358.52	622,758.56	778,217.26	32.70963952	-103.56319472	0.00	0.00	0.00
	11,600.00	90.00	269.60	9,796.00	5,757.30	1,453.35	734.56	-1,458.52	622,757.87	778,117.26	32.70963960	-103.56351981	0.00	0.00	0.00
	11,700.00	90.00	269.60	9,796.00	5,757.30	1,553.35	733.86	-1,558.51	622,757.17	778,017.27	32.70963967	-103.56384491	0.00	0.00	0.00
	11,800.00	90.00	269.60	9,796.00	5,757.30	1,653.35	733.16	-1,658.51	622,756.47	777,917.28	32.70963975	-103.56416999	0.00	0.00	0.00
	11,900.00	90.00	269.60	9,796.00	5,757.30	1,753.35	732.46	-1,758.51	622,755.77	777,817.28	32.70963982	-103.56449509	0.00	0.00	0.00
	12,000.00	90.00	269.60	9,796.00	5,757.30	1,853.35	731.76	-1,858.51	622,755.07	777,717.29	32.70963990	-103.56482018	0.00	0.00	0.00
	12,100.00	90.00	269.60	9,796.00	5,757.30	1,953.35	731.07	-1,958.50	622,754.37	777,617.29	32.70963997	-103.56514527	0.00	0.00	0.00
	12,200.00	90.00	269.60	9,796.00	5,757.30	2,053.35	730.37	-2,058.50	622,753.68	777,517.30	32.70964004	-103.56547036	0.00	0.00	0.00
Turn 2"/100ft	12,300.00	90.00	269.60	9,796.00	5,757.30	2,153.35	729.67	-2,158.50	622,752.98	777,417.30	32.70964011	-103.56579545	0.00	0.00	0.00
	12,400.00	90.00	269.60	9,796.00	5,757.30	2,253.35	728.97	-2,258.50	622,752.28	777,317.31	32.70964018	-103.56612055	0.00	0.00	0.00
	12,500.00	90.00	269.60	9,796.00	5,757.30	2,353.35	728.27	-2,358.49	622,751.58	777,217.32	32.70964025	-103.56644564	0.00	0.00	0.00
	12,600.00	90.00	269.60	9,796.00	5,757.30	2,453.35	727.57	-2,458.49	622,750.88	777,117.32	32.70964032	-103.56677073	0.00	0.00	0.00
	12,700.00	90.00	269.60	9,796.00	5,757.30	2,553.35	726.88	-2,558.49	622,750.19	777,017.32	32.70964039	-103.56709582	0.00	0.00	0.00
	12,800.00	90.00	269.60	9,796.00	5,757.30	2,653.35	726.18	-2,658.49	622,749.49	776,917.33	32.70964046	-103.56742092	0.00	0.00	0.00
	12,900.00	90.00	269.60	9,796.00	5,757.30	2,753.35	725.48	-2,758.48	622,748.79	776,817.33	32.70964052	-103.56774601	0.00	0.00	0.00
	13,000.00	90.00	269.60	9,796.00	5,757.30	2,853.35	724.78	-2,858.48	622,748.09	776,717.34	32.70964059	-103.56807110	0.00	0.00	0.00
	13,100.00	90.00	269.60	9,796.00	5,757.30	2,953.35	724.08	-2,958.48	622,747.39	776,617.34	32.70964065	-103.56839619	0.00	0.00	0.00
	13,200.00	90.00	269.60	9,796.00	5,757.30	3,053.35	723.39	-3,058.48	622,746.70	776,517.35	32.70964072	-103.56872128	0.00	0.00	0.00
Hold	13,300.00	90.00	269.60	9,796.00	5,757.30	3,153.35	722.69	-3,158.47	622,746.00	776,417.35	32.70964078	-103.56904638	0.00	0.00	0.00
	13,400.00	90.00	269.60	9,796.00	5,757.30	3,253.35	721.99	-3,258.47	622,745.30	776,317.36	32.70964084	-103.56937147	0.00	0.00	0.00
	13,500.00	90.00	269.60	9,796.00	5,757.30	3,353.35	721.29	-3,358.47	622,744.60	776,217.36	32.70964090	-103.56969656	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)
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	9,300.000	1/100.000 - 12.25 – 8.75 – 6 – 9.625 – 7 – 4.5				A001Mb_MWD		Turnpike 33-32 State Com 214H / Turnpike 33-32 S					
	1	9,300.000	19,970.882	1/100.000	6	4.5		A008Mb_MWD+IFR1+MS		Turnpike 33-32 State Com 214H / Turnpike 33-32 S					
EOU Geometry:															
End MD (ft)	Hole Size (in)			Casing Size (in)			Name								
999.600	17.500			13.375											
4,943.003	12.250			9.625											
9,068.474	8.750			7.000											
19,992.667	6.000			4.500											

1. Geological Formations

TVD of target 9,796

Pilot Hole TD N/A

MD at TD 19,993

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1680	N/A	
Top of Salt	1740	N/A	
Base of Salt/Lamar	3112	N/A	
Top Delaware Sands/Bell Canyon	3750	N/A	
Cherry Canyon	5980	Hydrocarbons	
Brushy Canyon	6748	Hydrocarbons	
Basal Brushy Canyon	7567	N/A	
Bone Spring Lime	7841	Hydrocarbons	
Leonard	7932	Hydrocarbons	
Avalon	8292	Hydrocarbons	
1st Bone Spring Sand	9136	Hydrocarbons	
2nd Bone Spring Sand	9740	Hydrocarbons	
Upper 2nd Bone Spring Sand - Target	9796	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	1730	1730	13-3/8"	54.50	J-55	BT&C	1.51	3.66	9.05
12 1/4	0	3753	3730	9-5/8"	40.00	HCK-55	LT&C	1.96	2.04	3.76
8 3/4	0	9264	9264	7"						
8 3/4	9264	10014	9749	7"	29.00	L-80	BT&C	1.46	1.69	48.06
6	9014	19993	9796	4-1/2"	11.60	L-80	BT&C	1.31	1.61	29.43
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., Turnpike 33-2 State Com 214H

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

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	839	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	224	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	653	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	220	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	351	10.30	3.64	22.18		Lead: Tuned Light + LCM
	127	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Completion System	740	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	55
Production	3553	25
Completion System	9814	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	10M	Annular	X	50% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
8 3/4	13 5/8	10M	Annular	X	50% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			Other		
6	13 5/8	10M	Annular	X	50% of working pressure
			Blind Ram		10M
			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 1730'	Fresh Water	7.83 - 8.33	28	N/C
1730' to 3753'	Brine Water	9.50 - 10.00	30-32	N/C
3753' to 10014'	Cut Brine or OBM	9.00 - 9.50	27-70	N/C
10374' to 19993'	OBM	9.00 - 9.50	50-70	N/C

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

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

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

Additional Logs Planned	Interval
-------------------------	----------

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4839 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 10000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10000 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 10000 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 10000 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.

Cimarex Energy Co., Turnpike 33-2 State Com 214H

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

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

Section 1 – Plan Description
Effective May 25, 2021**I. Operator:** Cimarex Energy Company **OGRID:** 215099 **Date:** 6/3/24**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
Turnpike 33-32 State Com 214H	SESE Sec 33 T18S, R34E	1405NL/ 636 FEL	1000	950	1800	

IV. Central Delivery Point Name: Turnpike 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
Turnpike 33-32 State Com 214H		10/20/25	11/30/25	2/1/26	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.

x

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:	<i>Shelly Bowen</i>
Printed Name:	Shelly Bowen
Title:	Sr. Regulatory Analyst
E-mail Address:	shelly.bowen@coterra.com
Date:	6/3/24
Phone:	432/620-1644
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

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

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.