

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM0056376

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator CIMAREX ENERGY COMPANY

3a. Address 600 N MARIENFELD STREET ST SUITE 600, N 3b. Phone No. (include area code)
(432) 571-78004. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 21/T19S/R34E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. MESCALERO RIDGE 21-28 FEDER 2H

9. API Well No. 30-025-50724

10. Field and Pool or Exploratory Area
[50460] QUAIL RIDGE; BONE SPRING/[50460] QUAIL11. Country or Parish, State
LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Cimarex Energy Co., respectfully request to change the SHL and the FTP as follows:

Current SHL: UL B, Sec 21, T19S, R34E, 544 FNL, 2020 FEL, Lea County, NM
Proposed SHL: UL B, Sec 21 T19S, R34E, 544 FNL, 2060 FEL, Lea County, NMCurrent FTP: UL B, Sec 21, T19S, R34E, 544 FNL, 1980 FEL, Lea County, NM
Proposed FTP: UL B, Sec 21, T19S, R34E, ~~544 FNL~~, 100 FNL, 1980 FEL, Lea County, NMDrilling plan will remain the same.
New directional plan attached.
New C-102 attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

KANICIA SCHLICHTING / Ph: (432) 571-7894

Title Regulatory Analyst

Signature



Date

09/28/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title Petroleum Engineer

Date 10/25/2022

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NWNE / 544 FNL / 2020 FEL / TWSP: 19S / RANGE: 34E / SECTION: 21 / LAT: 32.651506 / LONG: -103.563234 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 0 FNL / 1980 FEL / TWSP: 19S / RANGE: 34E / SECTION: 28 / LAT: 32.637231 / LONG: -103.563083 (TVD: 10790 feet, MD: 15800 feet)

PPP: NWNE / 544 FNL / 1980 FEL / TWSP: 19S / RANGE: 34E / SECTION: 21 / LAT: 32.651506 / LONG: -103.563105 (TVD: 10810 feet, MD: 11086 feet)

BHL: SWSE / 100 FSL / 1980 FEL / TWSP: 19S / RANGE: 34E / SECTION: 28 / LAT: 32.624277 / LONG: -103.563065 (TVD: 10770 feet, MD: 20512 feet)

CONFIDENTIAL

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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 30-025-50724		² Pool Code 50460		³ Pool Name Quail Ridge; Bone Spring	
⁴ Property Code 333385		⁵ Property Name MESCALERO RIDGE 21-28 FEDERAL COM			⁶ Well Number 2H
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.			⁹ Elevation 3761.2'

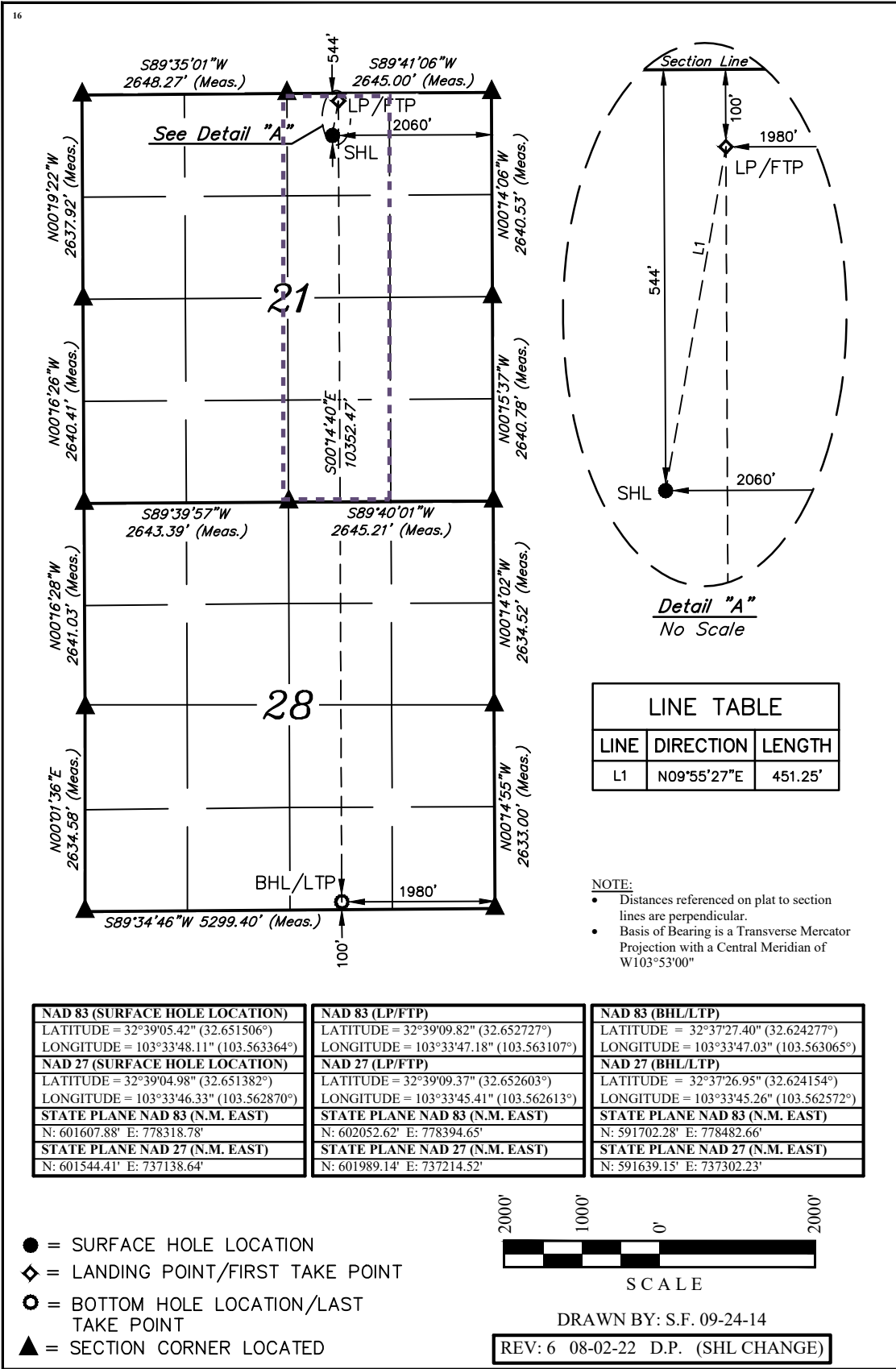
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	19S	34E		544	NORTH	2060	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
O	28	19S	34E		100	SOUTH	1980	EAST	LEA
¹² Dedicated Acres 160		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.

Signature Date 9/28/2022

Kanicia Schlichting
Printed Name

kanicia.schlichting@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.

June 03, 2017

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-50724		² Pool Code 50461		³ Pool Name Quail Ridge; Bone Spring, South	
⁴ Property Code 333385		⁵ Property Name MESCALERO RIDGE 21-28 FEDERAL COM			⁶ Well Number 2H
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.			⁹ Elevation 3761.2'

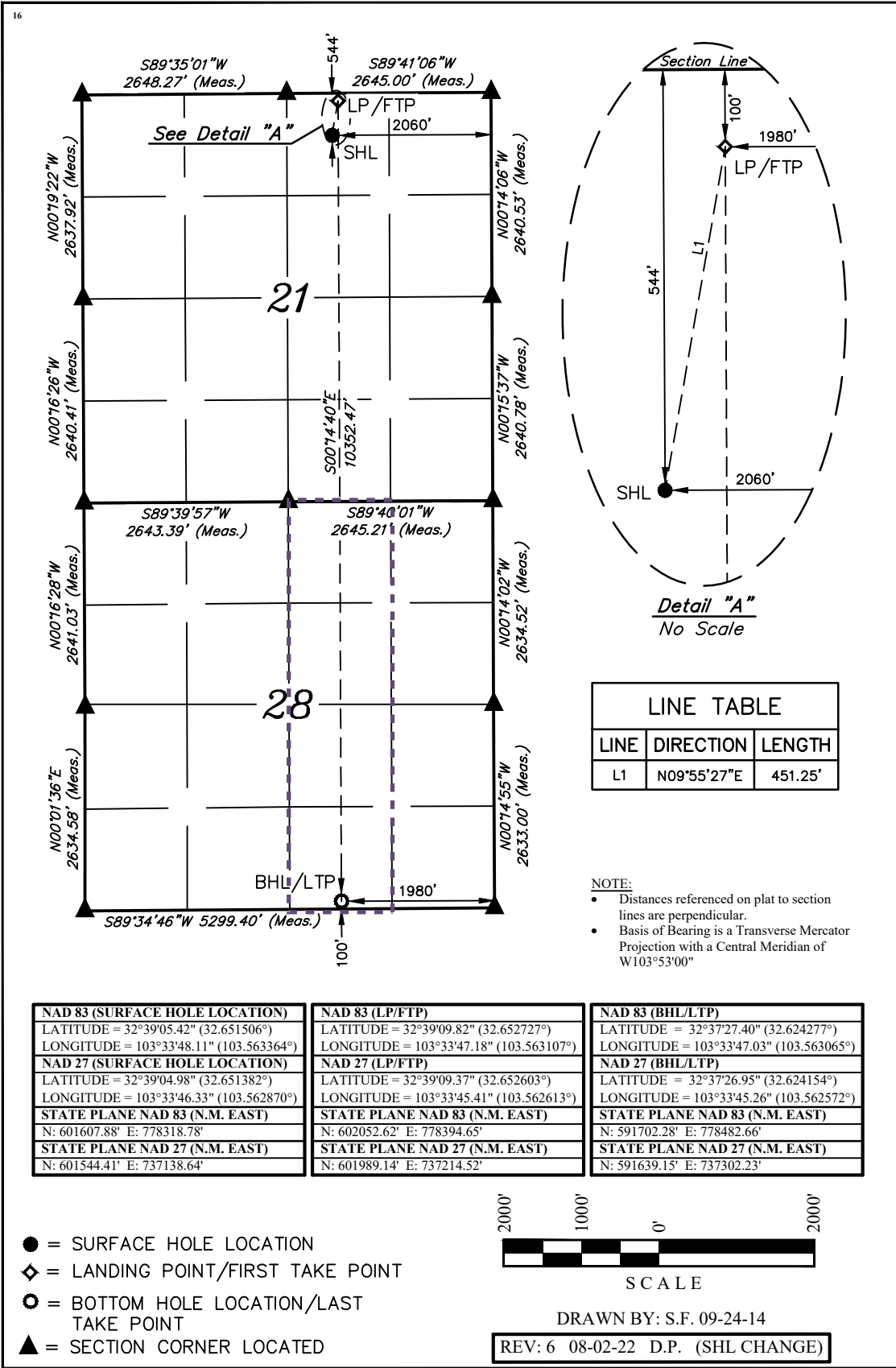
¹⁰ Surface Location

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B	21	19S	34E		544	NORTH	2060	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
O	28	19S	34E		100	SOUTH	1980	EAST	LEA
¹² Dedicated Acres 160		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.

 9/28/2022
Signature Date

Kanicia Schlichting
Printed Name

kanicia.schlichting@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.

June 03, 2017

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:



Cimarex Mescalero Ridge 21-28 Federal Com 2H Rev2 kFc 16Aug22
Proposal Geodetic Report
 (Def Plan)



Report Date:	August 17, 2022 - 12:34 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	179.510 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Mescalero Ridge 21-28 Federal Com 2H / 2H	TVD Reference Datum:	RKB
Well:	Mescalero Ridge 21-28 Federal Com 2H	TVD Reference Elevation:	3787.200 ft above MSL
Borehole:	Mescalero Ridge 21-28 Federal Com 2H	Seabed / Ground Elevation:	3761.200 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.300 °
Survey Name:	Cimarex Mescalero Ridge 21-28 Federal Com 2H Rev2 kFc 16Aug22	Total Gravity Field Strength:	998.5084mgn (9.80665 Based)
Survey Date:	November 11, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	92.042 ° / 9911.749 ft / 6.237 / 0.917	Total Magnetic Field Strength:	47792.138 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	60.500 °
Location Lat / Long:	N 32° 39' 5.42060", W 103° 33' 48.10911"	Declination Date:	August 16, 2022
Location Grid N/E Y/X:	N 601607.880 ftUS, E 778318.780 ftUS	Magnetic Declination Model:	HDGM 2022
CRS Grid Convergence Angle:	0.4154 °	North Reference:	Grid North
Grid Scale Factor:	0.99997341	Grid Convergence Used:	0.4154 °
Version / Patch:	2.10.832.2	Total Corr Mag North->Grid North:	5.8846 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
SHL [544' FNL, 2060' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	601607.88	778318.78	N 32.651506	W 103.563364
	100.00	0.00	171.80	100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	200.00	0.00	171.80	200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	300.00	0.00	171.80	300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	400.00	0.00	171.80	400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	500.00	0.00	171.80	500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	600.00	0.00	171.80	600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	700.00	0.00	171.80	700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	800.00	0.00	171.80	800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	900.00	0.00	171.80	900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1000.00	0.00	171.80	1000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1100.00	0.00	171.80	1100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1200.00	0.00	171.80	1200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1300.00	0.00	171.80	1300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1400.00	0.00	171.80	1400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1500.00	0.00	171.80	1500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1600.00	0.00	171.80	1600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1700.00	0.00	171.80	1700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1800.00	0.00	171.80	1800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	1900.00	0.00	171.80	1900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2000.00	0.00	171.80	2000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2100.00	0.00	171.80	2100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2200.00	0.00	171.80	2200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2300.00	0.00	171.80	2300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2400.00	0.00	171.80	2400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2500.00	0.00	171.80	2500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2600.00	0.00	171.80	2600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2700.00	0.00	171.80	2700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2800.00	0.00	171.80	2800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	2900.00	0.00	171.80	2900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3000.00	0.00	171.80	3000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3100.00	0.00	171.80	3100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3200.00	0.00	171.80	3200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3300.00	0.00	171.80	3300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3400.00	0.00	171.80	3400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3500.00	0.00	171.80	3500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3600.00	0.00	171.80	3600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3700.00	0.00	171.80	3700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3800.00	0.00	171.80	3800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	3900.00	0.00	171.80	3900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4000.00	0.00	171.80	4000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4100.00	0.00	171.80	4100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4200.00	0.00	171.80	4200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4300.00	0.00	171.80	4300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4400.00	0.00	171.80	4400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4500.00	0.00	171.80	4500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4600.00	0.00	171.80	4600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4700.00	0.00	171.80	4700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4800.00	0.00	171.80	4800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	4900.00	0.00	171.80	4900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5000.00	0.00	171.80	5000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5100.00	0.00	171.80	5100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5200.00	0.00	171.80	5200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5300.00	0.00	171.80	5300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5400.00	0.00	171.80	5400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5500.00	0.00	171.80	5500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5600.00	0.00	171.80	5600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5700.00	0.00	171.80	5700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5800.00	0.00	171.80	5800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	5900.00	0.00	171.80	5900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6000.00	0.00	171.80	6000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6100.00	0.00	171.80	6100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6200.00	0.00	171.80	6200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6300.00	0.00	171.80	6300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6400.00	0.00	171.80	6400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6500.00	0.00	171.80	6500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6600.00	0.00	171.80	6600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6700.00	0.00	171.80	6700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6800.00	0.00	171.80	6800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	6900.00	0.00	171.80	6900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7000.00	0.00	171.80	7000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7100.00	0.00	171.80	7100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7200.00	0.00	171.80	7200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7300.00	0.00	171.80	7300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7400.00	0.00	171.80	7400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7500.00	0.00	171.80	7500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
	7600.00	0.00	171.80	7600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7700.00	0.00	171.80	7700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7800.00	0.00	171.80	7800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	7900.00	0.00	171.80	7900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8000.00	0.00	171.80	8000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8100.00	0.00	171.80	8100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8200.00	0.00	171.80	8200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8300.00	0.00	171.80	8300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8400.00	0.00	171.80	8400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8500.00	0.00	171.80	8500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8600.00	0.00	171.80	8600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8700.00	0.00	171.80	8700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8800.00	0.00	171.80	8800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	8900.00	0.00	171.80	8900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9000.00	0.00	171.80	9000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9100.00	0.00	171.80	9100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9200.00	0.00	171.80	9200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9300.00	0.00	171.80	9300.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9400.00	0.00	171.80	9400.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9500.00	0.00	171.80	9500.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9600.00	0.00	171.80	9600.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9700.00	0.00	171.80	9700.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9800.00	0.00	171.80	9800.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	9900.00	0.00	171.80	9900.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	10000.00	0.00	171.80	10000.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	10100.00	0.00	171.80	10100.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	10200.00	0.00	171.80	10200.00	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
KOP, Build 10"/100ft	10211.60	0.00	171.80	10211.60	0.00	0.00	0.00	0.00	601607.88	778318.78	N 32.651506	W 103.563364
	10300.00	8.84	171.80	10299.65	6.74	-6.74	0.97	10.00	601601.14	778319.75	N 32.651487	W 103.563361
	10400.00	18.84	171.80	10396.62	30.42	-30.38	4.38	10.00	601577.50	778323.16	N 32.651422	W 103.563350
	10500.00	28.84	171.80	10487.97	70.42	-70.34	10.14	10.00	601537.54	778328.92	N 32.651312	W 103.563332
	10600.00	38.84	171.80	10570.93	125.54	-125.39	18.07	10.00	601492.50	778336.85	N 32.651161	W 103.563308
	10700.00	48.84	171.80	10642.97	194.09	-193.86	27.93	10.00	601414.03	778346.71	N 32.650972	W 103.563277
	10800.00	58.84	171.80	10701.89	273.99	-273.67	39.44	10.00	601334.22	778358.21	N 32.650753	W 103.563242
	10900.00	68.84	171.80	10745.93	362.83	-362.39	52.22	10.00	601245.50	778371.00	N 32.650509	W 103.563203
Build & Turn 5"/100ft	10961.60	75.00	171.80	10765.03	420.83	-420.32	60.57	10.00	601187.57	778379.35	N 32.650349	W 103.563177
	11000.00	76.71	172.70	10774.42	457.76	-457.22	65.59	5.00	601150.68	778384.37	N 32.650248	W 103.563161
	11100.00	81.17	175.00	10793.60	555.40	-554.77	76.08	5.00	601053.13	778394.86	N 32.649979	W 103.563130
	11200.00	85.65	177.24	10805.07	654.53	-653.85	82.79	5.00	600954.05	778401.57	N 32.649707	W 103.563110
	11300.00	90.13	179.46	10808.75	754.41	-753.71	85.67	5.00	600854.20	778404.45	N 32.649433	W 103.563103
Landing Point	11302.44	90.24	179.51	10808.75	756.85	-756.14	85.69	5.00	600851.76	778404.47	N 32.649426	W 103.563103
	11400.00	90.24	179.51	10808.33	854.41	-853.70	86.52	0.00	600754.20	778405.30	N 32.649158	W 103.563103
	11500.00	90.24	179.51	10807.91	954.41	-953.70	87.38	0.00	600654.21	778406.16	N 32.648883	W 103.563102
	11600.00	90.24	179.51	10807.49	1054.41	-1053.69	88.23	0.00	600554.22	778407.01	N 32.648608	W 103.563102
	11700.00	90.24	179.51	10807.07	1154.41	-1153.69	89.09	0.00	600454.23	778407.86	N 32.648333	W 103.563101
	11800.00	90.24	179.51	10806.64	1254.41	-1253.68	89.94	0.00	600354.23	778408.72	N 32.648058	W 103.563101
	11900.00	90.24	179.51	10806.22	1354.41	-1353.68	90.80	0.00	600254.24	778409.57	N 32.647783	W 103.563101
	12000.00	90.24	179.51	10805.80	1454.40	-1453.67	91.65	0.00	600154.25	778410.43	N 32.647509	W 103.563100
	12100.00	90.24	179.51	10805.38	1554.40	-1553.67	92.51	0.00	600054.26	778411.28	N 32.647234	W 103.563100
	12200.00	90.24	179.51	10804.95	1654.40	-1653.66	93.36	0.00	599954.26	778412.14	N 32.646959	W 103.563099
	12300.00	90.24	179.51	10804.53	1754.40	-1753.66	94.21	0.00	599854.27	778412.99	N 32.646684	W 103.563099
	12400.00	90.24	179.51	10804.11	1854.40	-1853.66	95.07	0.00	599754.28	778413.85	N 32.646409	W 103.563098
	12500.00	90.24	179.51	10803.69	1954.40	-1953.65	95.92	0.00	599654.28	778414.70	N 32.646134	W 103.563098
	12600.00	90.24	179.51	10803.26	2054.40	-2053.65	96.78	0.00	599554.29	778415.56	N 32.645860	W 103.563098
	12700.00	90.24	179.51	10802.84	2154.40	-2153.64	97.63	0.00	599454.30	778416.41	N 32.645585	W 103.563097
	12800.00	90.24	179.51	10802.42	2254.40	-2253.64	98.49	0.00	599354.31	778417.26	N 32.645310	W 103.563097
	12900.00	90.24	179.51	10802.00	2354.40	-2353.63	99.34	0.00	599254.31	778418.12	N 32.645035	W 103.563096
	13000.00	90.24	179.51	10801.58	2454.40	-2453.63	100.20	0.00	599154.32	778418.97	N 32.644760	W 103.563096
	13100.00	90.24	179.51	10801.15	2554.39	-2553.62	101.05	0.00	599054.33	778419.83	N 32.644485	W 103.563096
	13200.00	90.24	179.51	10800.73	2654.39	-2653.62	101.91	0.00	598954.34	778420.68	N 32.644210	W 103.563095
	13300.00	90.24	179.51	10800.31	2754.39	-2753.61	102.76	0.00	598854.34	778421.54	N 32.643936	W 103.563095
	13400.00	90.24	179.51	10799.89	2854.39	-2853.61	103.61	0.00	598754.35	778422.39	N 32.643661	W 103.563094
	13500.00	90.24	179.51	10799.46	2954.39	-2953.61	104.47	0.00	598654.36	778423.25	N 32.643386	W 103.563094
	13600.00	90.24	179.51	10799.04	3054.39	-3053.60	105.32	0.00	598554.37	778424.10	N 32.643111	W 103.563093
	13700.00	90.24	179.51	10798.62	3154.39	-3153.60	106.18	0.00	598454.37	778424.96	N 32.642836	W 103.563093
	13800.00	90.24	179.51	10798.20	3254.39	-3253.59	107.03	0.00	598354.38	778425.81	N 32.642561	W 103.563093
	13900.00	90.24	179.51	10797.77	3354.39	-3353.59	107.89	0.00	598254.39	778426.66	N 32.642287	W 103.563092
	14000.00	90.24	179.51	10797.35	3454.39	-3453.58	108.74	0.00	598154.40	778427.52	N 32.642012	W 103.563092
	14100.00	90.24	179.51	10796.93	3554.39	-3553.58	109.60	0.00	598054.40	778428.37	N 32.641737	W 103.563091
	14200.00	90.24	179.51	10796.51	3654.38	-3653.57	110.45	0.00	597954.41	778429.23	N 32.641462	W 103.563091
	14300.00	90.24	179.51	10796.09	3754.38	-3753.57	111.31	0.00	597854.42	778430.08	N 32.641187	W 103.563090
	14400.00	90.24	179.51	10795.66	3854.38	-3853.56	112.16	0.00	597754.43	778430.94	N 32.640912	W 103.563090
	14500.00	90.24	179.51	10795.24	3954.38	-3953.56	113.02	0.00	597654.43	778431.79	N 32.640638	W 103.563090
	14600.00	90.24	179.51	10794.82	4054.38	-4053.56	113.87	0.00	597554.44	778432.65	N 32.640363	W 103.563089
	14700.00	90.24	179.51	10794.40	4154.38	-4153.55	114.72	0.00	597454.45	778433.50	N 32.640088	W 103.563089
	14800.00	90.24	179.51	10793.97	4254.38	-4253.55	115.58	0.00	597354.45	778434.36	N 32.639813	W 103.563088
	14900.00	90.24	179.51	10793.55	4354.38	-4353.54	116.43	0.00	597254.46	778435.21	N 32.639538	W 103.563088
	15000.00	90.24	179.51	10793.13	4454.38	-4453.54	117.29	0.00	597154.47	778436.06	N 32.639	

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
	18000.00	90.24	179.51	10780.46	7454.35	-7453.40	142.93	0.00	594154.69	778461.70	N 32.631018	W 103.563075
	18100.00	90.24	179.51	10780.04	7554.35	-7553.40	143.78	0.00	594054.70	778462.56	N 32.630743	W 103.563074
	18200.00	90.24	179.51	10779.61	7654.35	-7653.39	144.63	0.00	593954.71	778463.41	N 32.630468	W 103.563074
	18300.00	90.24	179.51	10779.19	7754.35	-7753.39	145.49	0.00	593854.71	778464.26	N 32.630193	W 103.563074
	18400.00	90.24	179.51	10778.77	7854.35	-7853.38	146.34	0.00	593754.72	778465.12	N 32.629919	W 103.563073
	18500.00	90.24	179.51	10778.35	7954.35	-7953.38	147.20	0.00	593654.73	778465.97	N 32.629644	W 103.563073
	18600.00	90.24	179.51	10777.92	8054.35	-8053.37	148.05	0.00	593554.74	778466.83	N 32.629369	W 103.563072
	18700.00	90.24	179.51	10777.50	8154.34	-8153.37	148.91	0.00	593454.74	778467.68	N 32.629094	W 103.563072
	18800.00	90.24	179.51	10777.08	8254.34	-8253.36	149.76	0.00	593354.75	778468.54	N 32.628819	W 103.563072
	18900.00	90.24	179.51	10776.66	8354.34	-8353.36	150.62	0.00	593254.76	778469.39	N 32.628544	W 103.563071
	19000.00	90.24	179.51	10776.23	8454.34	-8453.36	151.47	0.00	593154.77	778470.25	N 32.628270	W 103.563071
	19100.00	90.24	179.51	10775.81	8554.34	-8553.35	152.33	0.00	593054.77	778471.10	N 32.627995	W 103.563070
	19200.00	90.24	179.51	10775.39	8654.34	-8653.35	153.18	0.00	592954.78	778471.96	N 32.627720	W 103.563070
	19300.00	90.24	179.51	10774.97	8754.34	-8753.34	154.03	0.00	592854.79	778472.81	N 32.627445	W 103.563069
	19400.00	90.24	179.51	10774.55	8854.34	-8853.34	154.89	0.00	592754.80	778473.67	N 32.627170	W 103.563069
	19500.00	90.24	179.51	10774.12	8954.34	-8953.33	155.74	0.00	592654.80	778474.52	N 32.626895	W 103.563069
	19600.00	90.24	179.51	10773.70	9054.34	-9053.33	156.60	0.00	592554.81	778475.37	N 32.626620	W 103.563068
	19700.00	90.24	179.51	10773.28	9154.34	-9153.32	157.45	0.00	592454.82	778476.23	N 32.626346	W 103.563068
	19800.00	90.24	179.51	10772.86	9254.33	-9253.32	158.31	0.00	592354.83	778477.08	N 32.626071	W 103.563067
	19900.00	90.24	179.51	10772.43	9354.33	-9353.31	159.16	0.00	592254.83	778477.94	N 32.625796	W 103.563067
	20000.00	90.24	179.51	10772.01	9454.33	-9453.31	160.02	0.00	592154.84	778478.79	N 32.625521	W 103.563066
	20100.00	90.24	179.51	10771.59	9554.33	-9553.31	160.87	0.00	592054.85	778479.65	N 32.625246	W 103.563066
	20200.00	90.24	179.51	10771.17	9654.33	-9653.30	161.73	0.00	591954.85	778480.50	N 32.624971	W 103.563066
	20300.00	90.24	179.51	10770.74	9754.33	-9753.30	162.58	0.00	591854.86	778481.36	N 32.624697	W 103.563065
	20400.00	90.24	179.51	10770.32	9854.33	-9853.29	163.44	0.00	591754.87	778482.21	N 32.624422	W 103.563065

Cimarex
Mescalero Ridge
21 Federal 2H -
PBHL [100' FSL,
1980' FEL]

20452.59 90.24 179.51 10770.10 9906.92 -9905.88 163.88 0.00 591702.28 778482.66 N 32.624277 W 103.563065

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% 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 Type	Borehole / Survey
	1	0.000	26.000	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS-Depth Only	Mescalero Ridge 21-28 Federal Com 2H / Cimarex Mescalero Ridge 21-28 Federal Com 2H
	1	26.000	20452.593	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS	Mescalero Ridge 21-28 Federal Com 2H / Cimarex Mescalero

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

CONDITIONS

Action 153870

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 153870
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/26/2022