

|                                           |                                                          |                                     |
|-------------------------------------------|----------------------------------------------------------|-------------------------------------|
| Well Name: DOS EQUIS 12-13<br>FEDERAL COM | Well Location: T24S / R32E / SEC 12 /<br>NENW /          | County or Parish/State:             |
| Well Number: 52H                          | Type of Well: OIL WELL                                   | Allottee or Tribe Name:             |
| Lease Number: NMNM01917                   | Unit or CA Name:                                         | Unit or CA Number:                  |
| US Well Number: 3002550124                | Well Status: Approved Application for<br>Permit to Drill | Operator: CIMAREX ENERGY<br>COMPANY |

Notice of Intent

Sundry ID: 2763421

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/28/2023

Date proposed operation will begin: 02/01/2024

Type of Action: APD Change

Time Sundry Submitted: 06:47

Procedure Description: Casing change from previously approved APD. Bottom hole change from previously approved APD.

NOI Attachments

Procedure Description

Dos\_Equis\_12\_13\_52H\_Sundry\_Submittal\_11282023\_20231211130519.pdf

Conditions of Approval

Specialist Review

12\_24\_32\_C\_Sundry\_ID\_2763421\_Dos\_Equis\_12\_13\_Federal\_Com\_52H\_Lea\_NM01917\_CIMAREX\_ENERGY\_COM  
PANY\_13\_22g\_2\_27\_2024\_LV\_20240228074436.pdf

Dos\_Equis\_12\_13\_Fed\_Com\_52H\_Dr\_COA\_20240228074436.pdf

|                                                  |                                                                 |                                            |
|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------|
| <b>Well Name:</b> DOS EQUIS 12-13<br>FEDERAL COM | <b>Well Location:</b> T24S / R32E / SEC 12 /<br>NENW /          | <b>County or Parish/State:</b>             |
| <b>Well Number:</b> 52H                          | <b>Type of Well:</b> OIL WELL                                   | <b>Allottee or Tribe Name:</b>             |
| <b>Lease Number:</b> NMNM01917                   | <b>Unit or CA Name:</b>                                         | <b>Unit or CA Number:</b>                  |
| <b>US Well Number:</b> 3002550124                | <b>Well Status:</b> Approved Application for<br>Permit to Drill | <b>Operator:</b> CIMAREX ENERGY<br>COMPANY |

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

**Operator Electronic Signature:** SHELLY BOWEN

**Signed on:** DEC 11, 2023 01:05 PM

**Name:** CIMAREX ENERGY COMPANY

**Title:** Regulatory Analyst

**Street Address:** 6001 DEAUVILLE BLVD STE 300N

**City:** MIDLAND**State:** TX

**Phone:** (432) 620-1644

**Email address:** DL\_PBUREGULATORY@COTERRA.COM

Field

**Representative Name:**

**Street Address:**

**City:****State:****Zip:**

**Phone:**

**Email address:**

BLM Point of Contact

**BLM POC Name:** LONG VO

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5759885402

**BLM POC Email Address:** LVO@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 02/28/2024

**Signature:** Long Vo

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM 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.                         |  |
| 6. If Indian, Allottee or Tribe Name        |  |
| 7. If Unit of CA/Agreement, Name and/or No. |  |
| 8. Well Name and No.                        |  |
| 9. API Well No.                             |  |
| 10. Field and Pool or Exploratory Area      |  |
| 11. Country or Parish, State                |  |

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

| TYPE OF SUBMISSION                                | TYPE OF ACTION                                |                                               |                                                    |                                         |  |
|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-----------------------------------------|--|
| <input type="checkbox"/> Notice of Intent         | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |  |
| <input type="checkbox"/> Subsequent Report        | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |  |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |  |
|                                                   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |                                         |  |
|                                                   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> 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 recompleate 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 perfonned 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 recompletion 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.)

|                                                                                   |       |
|-----------------------------------------------------------------------------------|-------|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) | Title |
| Signature                                                                         | Date  |

THE SPACE FOR FEDERAL OR STATE OFFICE USE

|                                                                                                                                                                                                                                                           |        |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|
| Approved by                                                                                                                                                                                                                                               | Title  | Date |
| 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 |      |

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: NENW / 195 FNL / 1480 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238918 / LONG: -103.632031 ( TVD: 0 feet, MD: 0 feet )

PPP: NENW / 195 FNL / 1480 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238919 / LONG: -103.631901 ( TVD: 9283 feet, MD: 9289 feet )

PPP: NENW / 0 FNL / 1520 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.224914 / LONG: -103.631914 ( TVD: 9600 feet, MD: 14579 feet )

PPP: NESW / 2640 FNL / 1520 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.232194 / LONG: -103.631906 ( TVD: 9600 feet, MD: 11930 feet )

BHL: SESW / 100 FSL / 1520 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210691 / LONG: -103.631926 ( TVD: 9600 feet, MD: 19753 feet )

CONFIDENTIAL

Cimarex Energy Co. respectfully requests to change the approved APD as follows:

| Well Name                   | API          | S/T/R      | SHL Old           | SHL New           | S/T/R      | BHL Old          | BHL New          | TVD Old | TVD New | MD Old | MD New |
|-----------------------------|--------------|------------|-------------------|-------------------|------------|------------------|------------------|---------|---------|--------|--------|
| Dos Equis 12-13 Fed Com 52H | 30-025-50124 | 12/24S/32E | 195 FNL/ 1480 FWL | NO CHANGE         | 13/24S/32E | 100 FSL/1520 FWL | 100 FSL/660 FWL  | 9,600'  | 9,980'  | 19,753 | 20,072 |
| Dos Equis 12-13 Fed Com 51H | 30-025-50123 | 12/24S/32E | 195 FNL/ 1500 FWL | NO CHANGE         | 13/24S/32E | 100 FSL/1540 FWL | 100 FSL/990 FWL  | 9,600'  | 11,550' | 19,665 | 21,677 |
| Dos Equis 12-13 Fed Com 50H | 30-025-50122 | 12/24S/32E | 195 FNL/ 1520 FWL | NO CHANGE         | 13/24S/32E | 100 FSL/1560 FWL | 100 FSL/1388 FWL | 12,900' | 10,620' | 23,019 | 20,654 |
| Dos Equis 12-13 Fed Com 49H | 30-025-50121 | 12/24S/32E | 195 FNL/ 1540 FWL | 195 FNL/1540 FWL  | 13/24S/32E | 100 FSL/1430 FWL | 100 FSL/1980 FWL | 12,300' | 9,980'  | 22,376 | 20,256 |
| Dos Equis 12-13 Fed Com 48H | 30-025-50120 | 12/24S/32E | 255 FNL/1580 FWL  | 195 FNL/1560 FWL  | 13/24S/32E | 100 FSL/1386 FWL | 100 FSL/2310 FWL | 12,390' | 11,550' | 22,379 | 21,551 |
| Dos Equis 12-13 Fed Com 77H | 30-025-50136 | 12/24S/32E | 300 FNL/ 2450 FEL | NO CHANGE         | 13/24S/32E | 100 FSL/2130 FEL | 100 FSL/2588 FEL | 12,900' | 10,620' | 22,970 | 20,825 |
| Dos Equis 12-13 Fed Com 76H | 30-025-50126 | 12/24S/32E | 300 FNL/ 2430 FEL | NO CHANGE         | 13/24S/32E | 100 FSL/2100 FEL | 100 FSL/1980 FEL | 9,600'  | 9,980'  | 19,654 | 20,141 |
| Dos Equis 12-13 Fed Com 75H | 30-025-50125 | 12/24S/32E | 300 FNL/ 2410 FEL | NO CHANGE         | 13/24S/32E | 100 FSL/2000 FEL | 100 FSL/1650 FEL | 9,600'  | 11,550' | 19,510 | 21,718 |
| Dos Equis 12-13 Fed Com 89H | 30-025-50138 | 12/24S/32E | 300 FNL/ 1510 FEL | NO CHANGE         | 13/24S/32E | 100 FSL/990 FEL  | 100FSL/1275 FEL  | 9,600'  | 10,620' | 19,595 | 20,753 |
| Dos Equis 12-13 Fed Com 88H | 30-025-50206 | 12/24S/32E | 300 FNL/ 1490 FEL | NO CHANGE         | 13/24S/32E | 100 FSL/330 FEL  | 100 FSL/660 FEL  | 9,600'  | 9,980'  | 19,706 | 20,186 |
| Dos Equis 12-13 Fed Com 87H | 30-025-50137 | 12/24S/32E | 360 FNL/ 1450 FEL | 300 FNL/ 1470 FEL | 13/24S/32E | 100FSL /1386 FEL | 100 FSL/330 FEL  | 12,340' | 11,550' | 22,258 | 21,803 |

| Sundry ID | Well Name                   | API          | S/T/R      | SHL Old           | SHL New   | S/T/R      | BHL Old          | BHL New         | TVD Old | TVD New | MD Old | MD New |
|-----------|-----------------------------|--------------|------------|-------------------|-----------|------------|------------------|-----------------|---------|---------|--------|--------|
| 2763421   | Dos Equis 12-13 Fed Com 52H | 30-025-50124 | 12/24S/32E | 195 FNL/ 1480 FWL | NO CHANGE | 13/24S/32E | 100 FSL/1520 FWL | 100 FSL/660 FWL | 9,600'  | 9,980'  | 19,753 | 20,072 |

Drilling Plan Amendments

Sec 1 - Geologic Formations                      See attached drilling plan.

Sec 2 - Blowout Prevention

|     |     |
|-----|-----|
| Old | New |
| 5M  | 2M  |
| 10M | 3M  |
|     | 5M  |

| Section 3 - Casing |                   |                 |                   |             |                |       |       |                           |          |            | Old             |                   |                 |                   |             |                |                  |       |             |          |            |
|--------------------|-------------------|-----------------|-------------------|-------------|----------------|-------|-------|---------------------------|----------|------------|-----------------|-------------------|-----------------|-------------------|-------------|----------------|------------------|-------|-------------|----------|------------|
| Hole Size          | Casing Depth From | Casing Depth To | Setting Depth TVD | Casing Size | Weight (lb/ft) | Grade | Conn. | SF Collapse               | SF Burst | SF Tension | 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                 | 1235            | 1235              | 13-3/8"     | 48.00          | H-40  | ST&C  | 1.38                      | 3.23     | 5.43       | 17 1/2          | 0                 | 1213            | 1213              | 13-3/8"     | 48.00          | H-40/J-55 Hybrid | ST&C  | 1.41        | 3.29     | 5.53       |
| 12 1/4             | 0                 | 4897            | 4897              | 9-5/8"      | 36.00          | J-55  | ST&C  | 1.21                      | 1.38     | 2.24       | 12 1/4          | 0                 | 4950            | 4927              | 9-5/8"      | 40.00          | HCK-55           | LT&C  | 1.49        | 1.54     | 2.85       |
| 8 3/4              | 0                 | 9125            | 9125              | 5-1/2"      | 20.00          | L-80  | LT&C  | 2.07                      | 2.15     | 2.17       | 8 3/4           | 0                 | 9543            | 9543              | 7"          | 29.00          | L-80             | LT&C  | 1.57        | 1.83     | 2.01       |
| 8 3/4              | 9125              | 19754           | 9600              | 5-1/2"      | 20.00          | L-80  | BT&C  | 1.97                      | 2.00     | 49.05      | 8 3/4           | 9543              | 10293           | 10057             | 7"          | 29.00          | L-80             | LT&C  | 1.49        | 1.73     | 39.38      |
|                    |                   |                 |                   |             |                |       |       | BLM Minimum Safety Factor | 1.125    | 1          | 1.6 Dry 1.8 Wet |                   |                 |                   |             |                |                  |       |             |          |            |

| New       |                   |                 |                   |             |                           |                  |       |             |          |                    |
|-----------|-------------------|-----------------|-------------------|-------------|---------------------------|------------------|-------|-------------|----------|--------------------|
| 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                 | 1213            | 1213              | 13-3/8"     | 48.00                     | H-40/J-55 Hybrid | ST&C  | 1.41        | 3.29     | 5.53               |
| 12 1/4    | 0                 | 4950            | 4927              | 9-5/8"      | 40.00                     | HCK-55           | LT&C  | 1.49        | 1.54     | 2.85               |
| 8 3/4     | 0                 | 9543            | 9543              | 7"          | 29.00                     | L-80             | LT&C  | 1.57        | 1.83     | 2.01               |
| 8 3/4     | 9543              | 10293           | 10057             | 7"          | 29.00                     | L-80             | LT&C  | 1.49        | 1.73     | 39.38              |
| 6         | 9043              | 20072           | 10100             | 4-1/2"      | 11.60                     | N-80             | LT&C  | 1.27        | 1.56     | 18.19              |
|           |                   |                 |                   |             | BLM Minimum Safety Factor |                  |       | 1.125       | 1        | 1.6 Dry<br>1.8 Wet |

| Section 4 - Cement |       |            |              |            |                             | Old                                                                    |
|--------------------|-------|------------|--------------|------------|-----------------------------|------------------------------------------------------------------------|
| Casing             | # Sks | Wt. lb/gal | Yld ft3/sack | H2O gal/sk | 500# Comp. Strength (hours) | Slurry Description                                                     |
| Surface            | 599   | 13.50      | 1.72         | 9.15       | 15.5                        | Lead: Class C + Bentonite                                              |
|                    | 160   | 14.80      | 1.34         | 6.32       | 9.5                         | Tail: Class C + LCM                                                    |
|                    |       |            |              |            |                             |                                                                        |
| Intermediate       | 918   | 12.90      | 1.88         | 9.65       | 12                          | Lead: 35:65 (Poz:C) + Salt + Bentonite                                 |
|                    | 286   | 14.80      | 1.34         | 6.32       | 9.5                         | Tail: Class C + LCM                                                    |
|                    |       |            |              |            |                             |                                                                        |
| Production         | 382   | 10.30      | 3.64         | 22.18      |                             | Lead: Tuned Light + LCM                                                |
|                    | 2583  | 14.20      | 1.30         | 5.86       | 14:30                       | Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS |
|                    |       |            |              |            |                             |                                                                        |

| New               |       |            |              |            |                             |                                                                        |
|-------------------|-------|------------|--------------|------------|-----------------------------|------------------------------------------------------------------------|
| Casing            | # Sks | Wt. lb/gal | Yld ft3/sack | H2O gal/sk | 500# Comp. Strength (hours) | Slurry Description                                                     |
| Surface           | 588   | 13.50      | 1.72         | 9.15       | 15.5                        | Lead: Class C + Bentonite                                              |
|                   | 158   | 14.80      | 1.34         | 6.32       | 9.5                         | Tail: Class C + LCM                                                    |
|                   |       |            |              |            |                             |                                                                        |
| Intermediate      | 930   | 12.90      | 1.88         | 9.65       | 12                          | Lead: 35:65 (Poz:C) + Salt + Bentonite                                 |
|                   | 289   | 14.80      | 1.34         | 6.32       | 9.5                         | Tail: Class C + LCM                                                    |
| Production        | 294   | 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 | 726   | 14.20      | 1.30         | 5.86       | 14:30                       | Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS |
|                   |       |            |              |            |                             |                                                                        |

| Section 5 - Circulating Medium |                  |              |           |            |  |  |  |  |  |  | Old             |                  |              |           |            |  |  |  |  |  |  |
|--------------------------------|------------------|--------------|-----------|------------|--|--|--|--|--|--|-----------------|------------------|--------------|-----------|------------|--|--|--|--|--|--|
| Depth                          | Type             | Weight (ppg) | Viscosity | Water Loss |  |  |  |  |  |  | Depth           | Type             | Weight (ppg) | Viscosity | Water Loss |  |  |  |  |  |  |
| 0' to 1235'                    | Fresh Water      | 7.83 - 8.33  | 28        | N/C        |  |  |  |  |  |  | 0' to 1213'     | Fresh Water      | 7.83 - 8.33  | 28        | N/C        |  |  |  |  |  |  |
| 1235' to 4897'                 | Brine Water      | 9.50 - 10.00 | 30-32     | N/C        |  |  |  |  |  |  | 1213' to 4950'  | Brine Water      | 9.50 - 10.00 | 30-32     | N/C        |  |  |  |  |  |  |
| 4897' to 19754'                | Cut Brine or OBM | 8.50 - 9.00  | 27-70     | N/C        |  |  |  |  |  |  | 4950' to 10293' | Cut Brine or OBM | 8.50 - 9.00  | 27-70     | N/C        |  |  |  |  |  |  |

| New              |                  |              |           |            |  |  |  |  |  |  |
|------------------|------------------|--------------|-----------|------------|--|--|--|--|--|--|
| Depth            | Type             | Weight (ppg) | Viscosity | Water Loss |  |  |  |  |  |  |
| 0' to 1213'      | Fresh Water      | 7.83 - 8.33  | 28        | N/C        |  |  |  |  |  |  |
| 1213' to 4950'   | Brine Water      | 9.50 - 10.00 | 30-32     | N/C        |  |  |  |  |  |  |
| 4950' to 10293'  | Cut Brine or OBM | 8.50 - 9.00  | 27-70     | N/C        |  |  |  |  |  |  |
| 10616' to 20072' | OBM              | 9.00 - 9.50  | 50-70     | N/C        |  |  |  |  |  |  |

Section 7 - Pressure

|      |      |
|------|------|
| Old  | New  |
| 4492 | 4989 |

**1. Geological Formations**

TVD of target 10,100

Pilot Hole TD N/A

MD at TD 20,072

Deepest expected fresh water

| Formation                     | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone | Hazards |
|-------------------------------|---------------------|-----------------------------------|---------|
| Rustler                       | 1163                | N/A                               |         |
| Top of Salt                   | 1545                | N/A                               |         |
| Base of Salt                  | 4907                | N/A                               |         |
| Bell Canyon                   | 4947                | Hydrocarbons                      |         |
| Cherry Canyon                 | 5874                | Hydrocarbons                      |         |
| Brushy Canyon                 | 7310                | Hydrocarbons                      |         |
| Basal Brushy Canyon           | 8631                | Hydrocarbons                      |         |
| Bone Spring Lime              | 8850                | Hydrocarbons                      |         |
| Leonard                       | 9031                | Hydrocarbons                      |         |
| Avalon                        | 9283                | Hydrocarbons                      |         |
| 1st Bone Spring Sand          | 9982                | Hydrocarbons                      |         |
| 1st Bone Spring Sand - Target | 10100               | 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                 | 1213            | 1213              | 13-3/8"     | 48.00          | H-40/J-55 Hybrid | ST&C  | 1.41        | 3.29     | 5.53               |
| 12 1/4                    | 0                 | 4950            | 4927              | 9-5/8"      | 40.00          | HCK-55           | LT&C  | 1.49        | 1.54     | 2.85               |
| 8 3/4                     | 0                 | 9543            | 9543              | 7"          | 29.00          | L-80             | LT&C  | 1.57        | 1.83     | 2.01               |
| 8 3/4                     | 9543              | 10293           | 10057             | 7"          | 29.00          | L-80             | LT&C  | 1.49        | 1.73     | 39.38              |
| 6                         | 9043              | 20072           | 10100             | 4-1/2"      | 11.60          | N-80             | LT&C  | 1.27        | 1.56     | 18.19              |
| BLM Minimum Safety Factor |                   |                 |                   |             |                |                  |       | 1.125       | 1        | 1.6 Dry<br>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., Dos Equis 12-13 Federal Com 52H

|                                                                                                                                                  | 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.<br>lb/gal | Yld<br>ft <sup>3</sup> /sack | H <sub>2</sub> O<br>gal/sk | 500# Comp.<br>Strength<br>(hours) | Slurry Description                                                     |
|-------------------|------|---------------|------------------------------|----------------------------|-----------------------------------|------------------------------------------------------------------------|
| Surface           | 588  | 13.50         | 1.72                         | 9.15                       | 15.5                              | Lead: Class C + Bentonite                                              |
|                   | 158  | 14.80         | 1.34                         | 6.32                       | 9.5                               | Tail: Class C + LCM                                                    |
|                   |      |               |                              |                            |                                   |                                                                        |
| Intermediate      | 930  | 12.90         | 1.88                         | 9.65                       | 12                                | Lead: 35:65 (Poz:C) + Salt + Bentonite                                 |
|                   | 289  | 14.80         | 1.34                         | 6.32                       | 9.5                               | Tail: Class C + LCM                                                    |
|                   |      |               |                              |                            |                                   |                                                                        |
| Production        | 294  | 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 | 726  | 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        | 4750  | 25       |
| Completion System | 10093 | 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   |   |                         |
|                                                                                                      |        |                 | 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.<br>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 1213'      | Fresh Water      | 7.83 - 8.33  | 28        | N/C        |
| 1213' to 4950'   | Brine Water      | 9.50 - 10.00 | 30-32     | N/C        |
| 4950' to 10293'  | Cut Brine or OBM | 8.50 - 9.00  | 27-70     | N/C        |
| 10616' to 20072' | 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 |
|---------------------------------------------------------|-----------------------------|

**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 | 4989 psi |
| Abnormal Temperature       | No       |

Hydrogen Sulfide (H<sub>2</sub>S) monitors will be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 <sub>2</sub> S is present       |
| X | H <sub>2</sub> 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.

### Variance Request #1: Skid Rig after Cementing Surface Casing

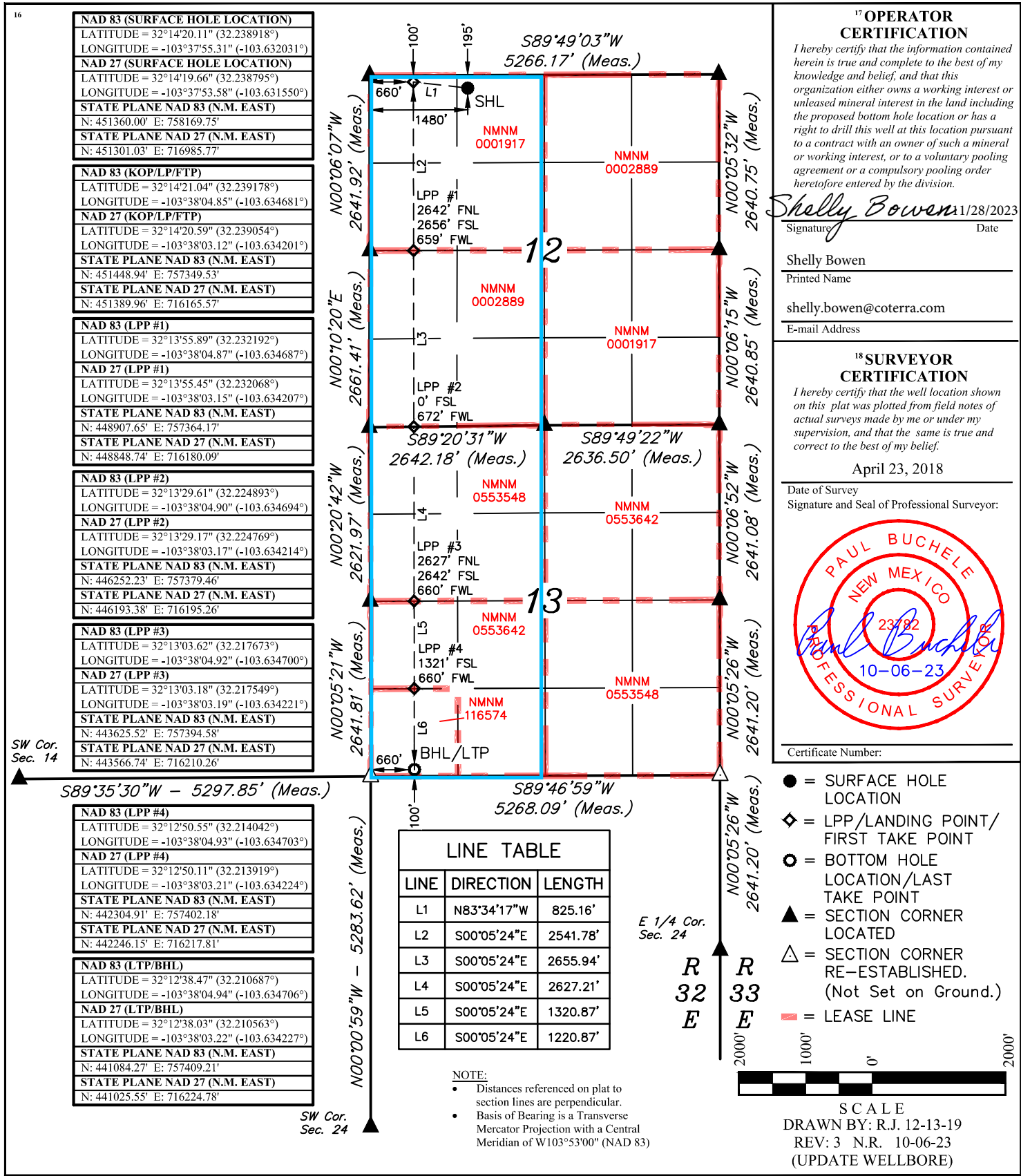
Coterra requests permission to skid the rig to the next well on the pad in order to begin operations immediately after the cement job for the surface casing has been completed. After the cement job is completed, no operations on the subject well will be conducted until at least 8 hours have elapsed, and both lead and tail slurries have achieved 500 psi compressive strength. While cement cures, the surface casing of the subject well will be suspended in the well by a mandrel and landing ring system, which is independent from the rig and ensures that casing remains centered while the rig is active on other wells.

### Variance Request #4: Utilize Co-Flex Choke Line

Coterra requests approval to utilize a co-flex choke line between the BOP and choke manifold. Certification for the proposed co-flex choke line is attached. The choke line is not required by the manufacturer to be anchored. In the event the specific co-flex choke line is not available, one of equal or higher rating will be used. Variance to include Hammer Union connections on lines downstream of the buffer tank only.

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

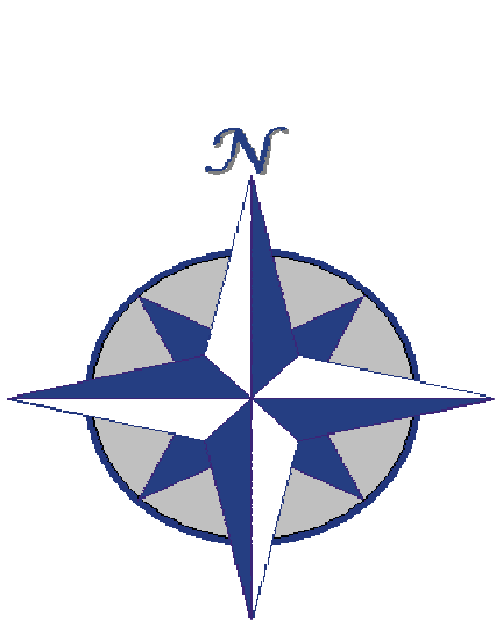
☐ AMENDED REPORT



|                                 |                                 |                        |                                           |
|---------------------------------|---------------------------------|------------------------|-------------------------------------------|
| Borehole:                       | Well:                           | Field:                 | Structure:                                |
| Dos Equis 12-13 Federal Com 52H | Dos Equis 12-13 Federal Com 52H | NM Lea County (NAD 83) | Coterra Dos Equis 12-13 Federal Com Pad 3 |

|                               |           |      |             |                  |                            |      |                |               |                                                          |             |                             |
|-------------------------------|-----------|------|-------------|------------------|----------------------------|------|----------------|---------------|----------------------------------------------------------|-------------|-----------------------------|
| Gravity & Magnetic Parameters |           |      |             | Surface Location |                            |      |                | Miscellaneous |                                                          |             |                             |
| Model:                        | HDGM 2022 | Dip: | 59.793°     | Date:            | 17-Nov-2023                | Lat: | N 32 14 20.11  | Northing:     | 451360ftUS                                               | Grid Conv:  | 0.3741°                     |
| MagDec:                       | 6.214°    | FS:  | 47447.596nT | Gravity FS:      | 998.438mgn (9.80665 Based) | Lon: | W 103 37 55.31 | Easting:      | 758169.75ftUS                                            | Scale Fact: | 0.99996294                  |
|                               |           |      |             |                  |                            |      |                | Slot:         | Dos Equis 12-13 Federal Com 52H                          | TVD Ref:    | RKB (3631.100 ft above MSL) |
|                               |           |      |             |                  |                            |      |                | Plan:         | Coterra Dos Equis 12-13 Federal Com 52H Rev0 kFc 17Nov23 |             |                             |

| Critical Point                                                       | MD       | INCL  | AZIM   | TVD      | VSEC     | N(+)S(-)  | E(+)W(-) | DLS   |
|----------------------------------------------------------------------|----------|-------|--------|----------|----------|-----------|----------|-------|
| SHL [195° FNL, 1480° FWL]                                            | 0.00     | 0.00  | 184.23 | 0.00     | 0.00     | 0.00      | 0.00     |       |
| Rustler                                                              | 1163.00  | 0.00  | 260.07 | 1163.00  | 0.00     | 0.00      | 0.00     | 0.00  |
| Top Salt                                                             | 1545.00  | 0.00  | 260.07 | 1545.00  | 0.00     | 0.00      | 0.00     | 0.00  |
| Nudge, Build 2°/100ft                                                | 1600.00  | 0.00  | 260.07 | 1600.00  | 0.00     | 0.00      | 0.00     | 0.00  |
| Hold                                                                 | 1949.82  | 7.00  | 260.07 | 1949.96  | 3.56     | -3.68     | -21.01   | 2.00  |
| Lamar                                                                | 4930.06  | 7.00  | 260.07 | 4907.00  | 64.07    | -66.25    | -378.60  | 0.00  |
| Bell Canyon                                                          | 4970.36  | 7.00  | 260.07 | 4947.00  | 64.89    | -67.10    | -383.43  | 0.00  |
| Cherry Canyon                                                        | 5904.32  | 7.00  | 260.07 | 5874.00  | 83.86    | -66.71    | -495.49  | 0.00  |
| Drop 2°/100ft                                                        | 6933.56  | 7.00  | 260.07 | 6895.58  | 104.76   | -108.32   | -618.99  | 0.00  |
| Hold                                                                 | 7283.39  | 0.00  | 260.07 | 7244.54  | 108.31   | -112.00   | -640.00  | 2.00  |
| Brushy Canyon                                                        | 7348.85  | 0.00  | 260.07 | 7310.00  | 108.31   | -112.00   | -640.00  | 0.00  |
| Basal Brushy Canyon                                                  | 8669.85  | 0.00  | 260.07 | 8631.00  | 108.31   | -112.00   | -640.00  | 0.00  |
| Bone Spring Lime                                                     | 8888.85  | 0.00  | 260.07 | 8850.00  | 108.31   | -112.00   | -640.00  | 0.00  |
| Leonard                                                              | 9069.85  | 0.00  | 260.07 | 9031.00  | 108.31   | -112.00   | -640.00  | 0.00  |
| Avalon                                                               | 9321.85  | 0.00  | 260.07 | 9283.00  | 108.31   | -112.00   | -640.00  | 0.00  |
| KOP, Build 10°/100ft                                                 | 9543.39  | 0.00  | 260.07 | 9504.54  | 108.31   | -112.00   | -640.00  | 0.00  |
| 1st BS SS                                                            | 10107.81 | 56.44 | 191.67 | 9982.00  | 358.95   | -362.94   | -691.83  | 10.00 |
| Build & Turn 5°/100ft                                                | 10293.39 | 75.00 | 191.67 | 10057.97 | 523.70   | -527.89   | -725.90  | 10.00 |
| Landing Point                                                        | 10615.99 | 90.00 | 185.67 | 10100.00 | 838.59   | -843.06   | -773.67  | 5.00  |
| Turn 2°/100ft                                                        | 10860.99 | 90.00 | 185.67 | 10100.00 | 1082.25  | -1086.86  | -797.87  | 0.00  |
| Hold                                                                 | 11160.99 | 90.00 | 179.67 | 10100.00 | 1381.70  | -1386.40  | -811.84  | 2.00  |
| Pool NMNM0001917 exit to NMNM0002889 enter                           | 12227.00 | 90.00 | 179.67 | 10100.00 | 2447.72  | -2452.40  | -805.70  | 0.00  |
| Turn 2°/100ft                                                        | 13531.99 | 90.00 | 179.67 | 10100.00 | 3752.70  | -3757.36  | -798.19  | 0.00  |
| Hold                                                                 | 13931.99 | 90.00 | 171.67 | 10100.00 | 4151.41  | -4155.90  | -768.01  | 2.00  |
| Section 12-13 Line Cross, Pool NMNM0002889 exit to NMNM0553548 enter | 14751.99 | 90.00 | 171.67 | 10100.00 | 4963.42  | -4967.25  | -649.21  | 0.00  |
| Hold                                                                 | 14892.00 | 90.00 | 174.47 | 10100.00 | 5102.22  | -5106.22  | -632.32  | 2.00  |
| Turn 2°/100ft                                                        | 15551.99 | 90.00 | 187.67 | 10100.00 | 5760.83  | -5764.64  | -644.62  | 2.00  |
| Hold                                                                 | 16371.99 | 90.00 | 187.67 | 10100.00 | 6572.85  | -6577.30  | -754.06  | 0.00  |
| Pool NMNM0553548 exit to NMNM0553642 enter                           | 16772.05 | 90.00 | 179.67 | 10100.00 | 6971.61  | -6976.22  | -779.65  | 2.00  |
| Pool NMNM0553642 exit to NMNM116574 enter                            | 17531.00 | 90.00 | 179.67 | 10100.00 | 7730.56  | -7735.16  | -775.26  | 0.00  |
| Dos Equis 12-13 Federal Com 52H - BHL [100° FSL, 660° FWL]           | 18851.00 | 90.00 | 179.67 | 10100.00 | 9050.56  | -9055.13  | -767.63  | 0.00  |
| 660° FWL]                                                            | 20072.02 | 90.00 | 179.67 | 10100.00 | 10271.58 | -10276.13 | -760.57  | 0.00  |



Grid  
True  
Mag

Grid North  
Tot Corr (M->G 5.840°)  
Mag Dec (6.214°)  
Grid Conv (0.374°)

CONTROLLED

Coterra Dos Equis 12-13 Federal Com 52H Rev0 kFc 17Nov23

Plan ref

Drawing ref

Copy number

Date

21-Nov-2023

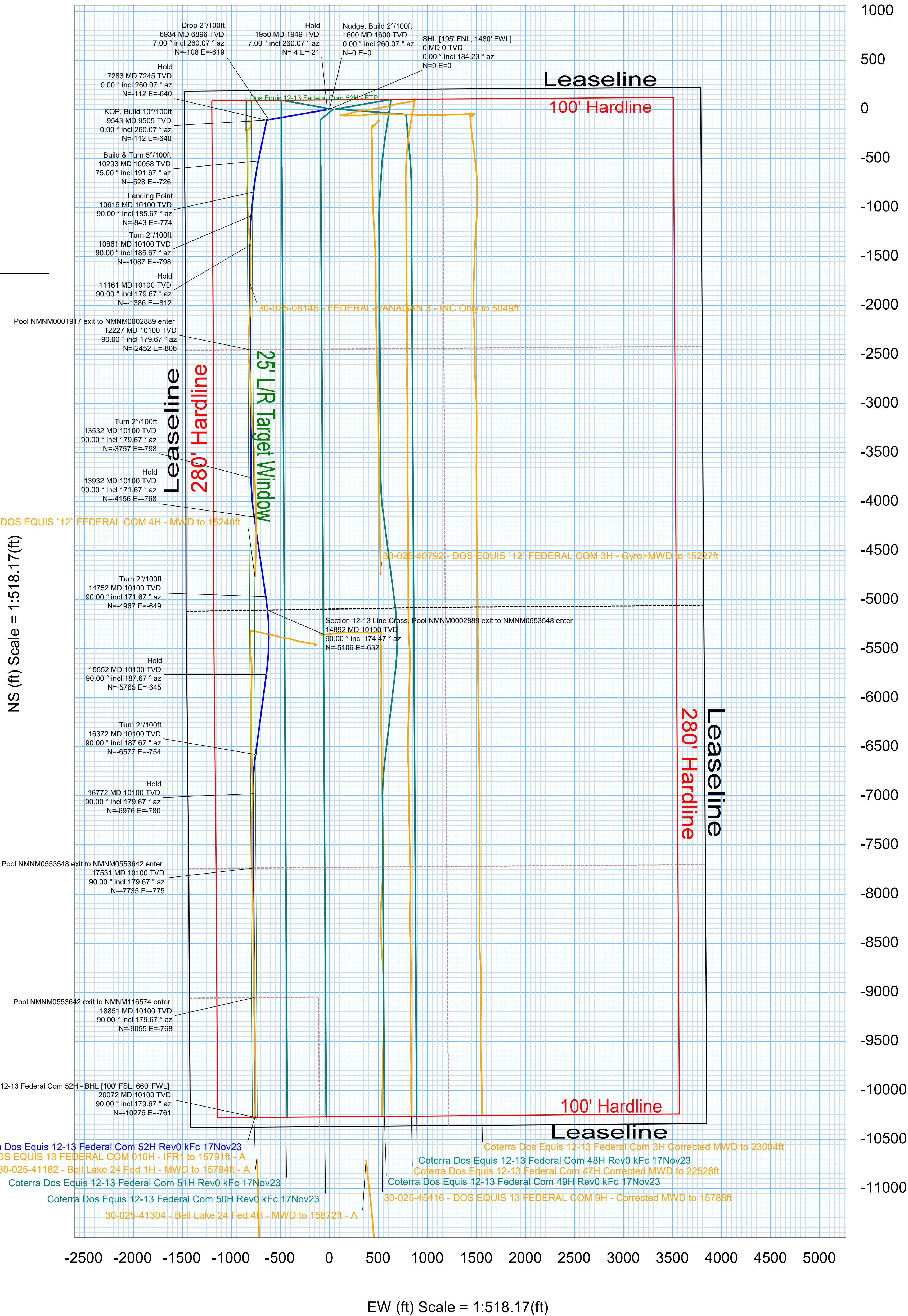
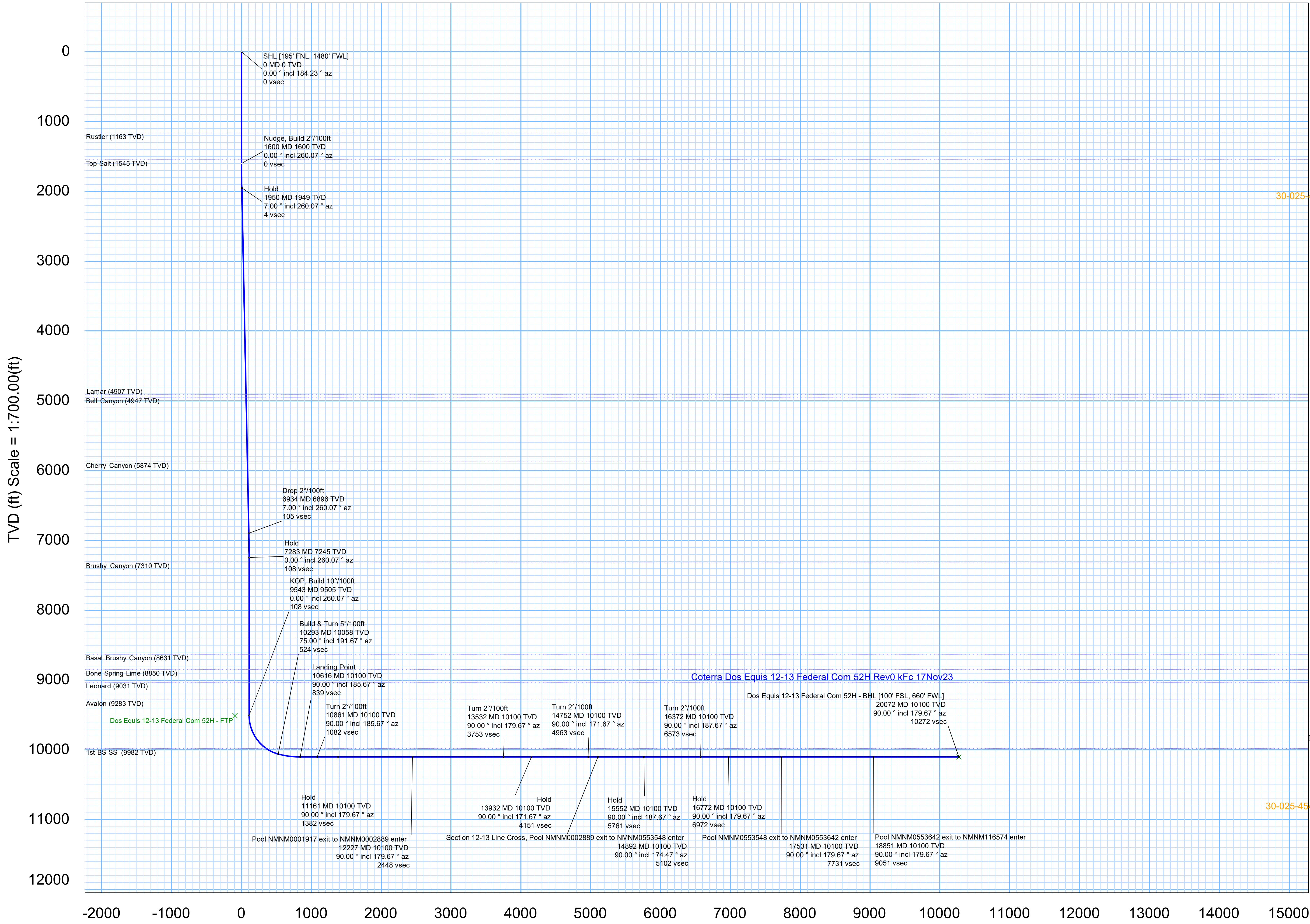
1 Client

2 Client

3 Office

4 Office

Copy number for



Schlumberger

## Coterra Dos Equis 12-13 Federal Com 52H Rev0 kFc 17Nov23 Proposal

## Geodetic Report

## Def Plan

**Report Date:** November 21, 2023 - 06:40 PM (UTC 0)  
**Client:** COTERRA  
**Field:** NM Lea County (NAD 83)  
**Structure / Slot:** Coterra Dos Equis 12-13 Federal Com Pad 3 / Dos Equis 12-13 Federal  
**Well:** Dos Equis 12-13 Federal Com 52H  
**Borehole:** Dos Equis 12-13 Federal Com 52H  
**UBH / API#:** Unknown / Unknown  
**Survey Name:** Coterra Dos Equis 12-13 Federal Com 52H Rev0 kFc 17Nov23  
**Survey Date:** November 21, 2023  
**Tort / AHD / DDI / ERD Ratio:** 143.124 \* / 10849.343 ft / 6.489 / 1.074  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** 32°14'20.1064"N, 103°37'55.3097"W  
**Location Grid N/E Y/X:** N 451360.000 RUS, E 758169.750 RUS  
**CRS Grid Convergence Angle:** 0.374°  
**Grid Scale Factor:** 0.99996294  
**Version / Patch:** 2023.1.0.1

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 179.670 °(GRID North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 3631.100 ft above MSL  
**Sealed / Ground Elevation:** 3608.100 ft above MSL  
**Magnetic Declination:** 6.214°  
**Total Gravity Field Strength:** 998.4383mgm (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47447.596 nT  
**Magnetic Dip Angle:** 59.793°  
**Declination Date:** November 17, 2023  
**Magnetic Declination Model:** HDGM 2022  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.374°  
**Total Corr Mag North->Grid North:** 5.84°  
**Local Coord Referenced To:** Well Head

| Comments                  | MD<br>(ft) | Incl<br>(°) | Azim<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | Northing<br>(RUS) | Easting<br>(RUS) | Latitude<br>(°) | Longitude<br>(°) | DLS<br>(°/100ft) | BR<br>(°/100ft) | TR<br>(°/100ft) |
|---------------------------|------------|-------------|-------------|-------------|---------------|--------------|------------|------------|-------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|
| SHL [195° FNL, 1480° FWL] | 0.00       | 0.00        | 184.23      | 0.00        | -3.631.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    |                  |                 |                 |
|                           | 100.00     | 0.00        | 260.07      | 100.00      | -3.531.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 200.00     | 0.00        | 260.07      | 200.00      | -3.431.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 300.00     | 0.00        | 260.07      | 300.00      | -3.331.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 400.00     | 0.00        | 260.07      | 400.00      | -3.231.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 500.00     | 0.00        | 260.07      | 500.00      | -3.131.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 600.00     | 0.00        | 260.07      | 600.00      | -3.031.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 700.00     | 0.00        | 260.07      | 700.00      | -2.931.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 800.00     | 0.00        | 260.07      | 800.00      | -2.831.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 900.00     | 0.00        | 260.07      | 900.00      | -2.731.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,000.00   | 0.00        | 260.07      | 1,000.00    | -2.631.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,100.00   | 0.00        | 260.07      | 1,100.00    | -2.531.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,163.00   | 0.00        | 260.07      | 1,163.00    | -2.468.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
| Rustler                   | 1,200.00   | 0.00        | 260.07      | 1,200.00    | -2.431.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,300.00   | 0.00        | 260.07      | 1,300.00    | -2.331.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,400.00   | 0.00        | 260.07      | 1,400.00    | -2.231.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,500.00   | 0.00        | 260.07      | 1,500.00    | -2.131.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
| Top Salt                  | 1,545.00   | 0.00        | 260.07      | 1,545.00    | -2.088.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
| Nudge, Build 2°/100ft     | 1,600.00   | 0.00        | 260.07      | 1,600.00    | -2.031.10     | 0.00         | 0.00       | 0.00       | 451,360.00        | 758,169.75       | 32.23891846     | -103.63203049    | 0.00             | 0.00            | 0.00            |
|                           | 1,700.00   | 2.00        | 260.07      | 1,699.98    | -1.931.12     | 0.29         | -0.30      | -1.72      | 451,359.70        | 758,168.03       | 32.23891767     | -103.63203605    | 2.00             | 2.00            | 0.00            |
|                           | 1,800.00   | 4.00        | 260.07      | 1,799.84    | -1.831.26     | 1.16         | -1.20      | -6.87      | 451,358.80        | 758,162.88       | 32.23891528     | -103.63205274    | 2.00             | 2.00            | 0.00            |
|                           | 1,900.00   | 6.00        | 260.07      | 1,899.45    | -1.731.65     | 2.62         | -2.71      | -15.46     | 451,357.29        | 758,154.29       | 32.23891130     | -103.63208054    | 2.00             | 2.00            | 0.00            |
| Hold                      | 1,949.82   | 7.00        | 260.07      | 1,948.96    | -1.682.14     | 3.56         | -3.68      | -21.01     | 451,356.32        | 758,148.74       | 32.23890873     | -103.63209852    | 2.00             | 2.00            | 0.00            |
|                           | 2,000.00   | 7.00        | 260.07      | 1,998.76    | -1.632.34     | 4.58         | -4.73      | -27.03     | 451,355.27        | 758,142.72       | 32.23890594     | -103.63211801    | 0.00             | 0.00            | 0.00            |
|                           | 2,100.00   | 7.00        | 260.07      | 2,098.01    | -1.533.09     | 6.61         | -6.83      | -39.03     | 451,353.17        | 758,130.72       | 32.23890309     | -103.63215686    | 0.00             | 0.00            | 0.00            |
|                           | 2,200.00   | 7.00        | 260.07      | 2,197.27    | -1.433.83     | 8.64         | -8.93      | -51.03     | 451,351.07        | 758,118.72       | 32.23889483     | -103.63219571    | 0.00             | 0.00            | 0.00            |
|                           | 2,300.00   | 7.00        | 260.07      | 2,296.52    | -1.334.58     | 10.67        | -11.03     | -63.03     | 451,348.97        | 758,106.72       | 32.23888928     | -103.63223455    | 0.00             | 0.00            | 0.00            |
|                           | 2,400.00   | 7.00        | 260.07      | 2,295.78    | -1.235.32     | 12.70        | -13.13     | -75.03     | 451,346.87        | 758,094.73       | 32.23888372     | -103.63227340    | 0.00             | 0.00            | 0.00            |
|                           | 2,500.00   | 7.00        | 260.07      | 2,495.03    | -1.136.07     | 14.73        | -15.23     | -87.03     | 451,344.77        | 758,082.73       | 32.23887816     | -103.63231225    | 0.00             | 0.00            | 0.00            |
|                           | 2,600.00   | 7.00        | 260.07      | 2,594.29    | -1.036.81     | 16.76        | -17.33     | -99.02     | 451,342.67        | 758,070.73       | 32.23887261     | -103.63235109    | 0.00             | 0.00            | 0.00            |
|                           | 2,700.00   | 7.00        | 260.07      | 2,693.55    | -937.55       | 18.79        | -19.43     | -111.02    | 451,340.57        | 758,058.73       | 32.23886705     | -103.63238994    | 0.00             | 0.00            | 0.00            |
|                           | 2,800.00   | 7.00        | 260.07      | 2,792.80    | -838.30       | 20.82        | -21.53     | -123.02    | 451,338.47        | 758,046.73       | 32.23886150     | -103.63242879    | 0.00             | 0.00            | 0.00            |
|                           | 2,900.00   | 7.00        | 260.07      | 2,892.06    | -739.04       | 22.85        | -23.63     | -135.02    | 451,336.37        | 758,034.73       | 32.23885594     | -103.63246764    | 0.00             | 0.00            | 0.00            |
|                           | 3,000.00   | 7.00        | 260.07      | 2,991.31    | -639.79       | 24.88        | -25.73     | -147.02    | 451,334.27        | 758,022.74       | 32.23885038     | -103.63250648    | 0.00             | 0.00            | 0.00            |
|                           | 3,100.00   | 7.00        | 260.07      | 3,090.57    | -540.53       | 26.91        | -27.83     | -159.02    | 451,332.17        | 758,010.74       | 32.23884483     | -103.63254533    | 0.00             | 0.00            | 0.00            |
|                           | 3,200.00   | 7.00        | 260.07      | 3,189.82    | -441.28       | 28.94        | -29.93     | -171.02    | 451,330.07        | 757,998.74       | 32.23883927     | -103.63258418    | 0.00             | 0.00            | 0.00            |
|                           | 3,300.00   | 7.00        | 260.07      | 3,289.08    | -342.02       | 30.97        | -32.03     | -183.01    | 451,327.97        | 757,986.74       | 32.23883371     | -103.63262303    | 0.00             | 0.00            | 0.00            |
|                           | 3,400.00   | 7.00        | 260.07      | 3,388.33    | -242.77       | 33.00        | -34.13     | -195.01    | 451,325.87        | 757,974.75       | 32.23882816     | -103.63266187    | 0.00             | 0.00            | 0.00            |
|                           | 3,500.00   | 7.00        | 260.07      | 3,487.59    | -143.51       | 35.03        | -36.20     | -207.01    | 451,323.77        | 757,962.75       | 32.23882260     | -103.63270072    | 0.00             | 0.00            | 0.00            |
|                           | 3,600.00   | 7.00        | 260.07      | 3,586.84    | -44.26        | 37.06        | -38.33     | -219.01    | 451,321.67        | 757,950.74       | 32.23881701     | -103.63273957    | 0.00             | 0.00            | 0.00            |
|                           | 3,700.00   | 7.00        | 260.07      | 3,686.10    | 55.00         | 39.10        | -40.43     | -231.01    | 451,319.58        | 757,938.75       | 32.23881149     | -103.63277841    | 0.00             | 0.00            | 0.00            |
|                           | 3,800.00   | 7.00        | 260.07      | 3,785.35    | 154.25        | 41.13        | -42.53     | -243.01    | 451,317.48        | 757,926.75       | 32.23880593     | -103.63281726    | 0.00             | 0.00            | 0.00            |
|                           | 3,900.00   | 7.00        | 260.07      | 3,884.61    | 253.51        | 43.16        | -44.63     | -255.00    | 451,315.38        | 757,914.76       | 32.23880038     | -103.63285611    | 0.00             | 0.00            | 0.00            |
|                           | 4,000.00   | 7.00        | 260.07      | 3,983.86    | 352.76        | 45.19        | -46.73     | -267.00    | 451,313.28        | 757,902.76       | 32.23879482     | -103.63289495    | 0.00             | 0.00            | 0.00            |
|                           | 4,100.00   | 7.00        | 260.07      | 4,083.12    | 452.02        | 47.22        | -48.83     | -279.00    | 451,311.18        | 757,890.76       | 32.23878926     | -103.63293380    | 0.00             | 0.00            | 0.00            |
|                           | 4,200.00   | 7.00        | 260.07      | 4,182.38    | 551.28        | 49.25        | -50.93     | -291.00    | 451,309.08        | 757,878.76       | 32.23878371     | -103.63297265    | 0.00             | 0.00            | 0.00            |
|                           | 4,300.00   | 7.00        | 260.07      | 4,281.63    | 650.53        | 51.28        | -53.02     | -303.00    | 451,306.98        | 757,866.76       | 32.23877815     | -103.63301150    | 0.00             | 0.00            | 0.00            |
|                           | 4,400.00   | 7.00        | 260.07      | 4,380.89    | 749.79        | 53.31        | -55.12     | -315.00    | 451,304.88        | 757,854.76       | 32.23877260     | -103.63305034    | 0.00             | 0.00            | 0.00            |
|                           | 4,500.00   | 7.00        | 260.07      | 4,480.14    | 849.04        | 55.34        | -57.22     | -327.00    | 451,302.78        | 757,842.77       | 32.23876704     | -103.63308919    | 0.00             | 0.00            | 0.00            |
|                           | 4,600.00   | 7.00        | 260.07      | 4,579.40    | 948.30        | 57.37        | -59.32     | -338.99    | 451,300.68        | 757,830.77       | 32.23876148     | -103.63312804    | 0.00             | 0.00            | 0.00            |
|                           | 4,700.00   | 7.00        | 260.07      | 4,678.65    | 1,047.55      | 59.40        | -61.42     | -350.99    | 451,298.58        | 757,818.77       | 32.23875593     | -103.63316688    | 0.00             | 0.00            | 0.00            |
|                           | 4,800.00   | 7.00        | 260.07      | 4,777.91    | 1,146.81      | 61.43        | -63.52     | -362.99    | 451,296.48        | 757,806.77       | 32.23875037     | -103.63320573    | 0.00             | 0.00            | 0.00            |
|                           | 4,900.00   | 7.00        | 260.07      | 4,877.16    | 1,246.06      | 63.46        | -65.62     | -374.99    | 451,294.38        | 757,794.77       | 32.23874481     | -103.63324458    | 0.00             | 0.00            | 0.00            |
| Lamar                     | 4,930.06   | 7.00        | 260.07      | 4,907.00    | 1,275.90      | 64.07        | -66.25     | -378.60    | 451,292.28        | 757,782.77       | 32.23873926     | -103.63328343    | 0.00             | 0.00            | 0.00            |
| Bel Canyon                | 4,970.36   | 7.00        | 260.07      | 4,947.00    | 1,315.90      | 64.89        | -67.10     | -383.43    | 451,292.90        | 757,786.33       | 32.23874091     | -103.63327191    | 0.00             | 0.00            | 0.00            |
|                           | 5,000.00   | 7.00        | 260.07      | 4,976.42    | 1,354.32      | 65.49        | -67.72     | -386.99    | 451,292.28        | 757,782.78       | 32.23873926     | -103.63328343    | 0.00             | 0.00            | 0.00            |
|                           | 5,100.00   | 7.00        | 260.07      | 5,075.67    | 1,444.57      | 67.52        | -69.82     | -398.99    | 451,290.18        | 757,770.78       | 32.23873370     | -103.63332227    | 0.00             | 0.00            | 0.00            |
|                           | 5,200.00   | 7.00        | 260.07      | 5,174.93    | 1,543.83      | 69.55        | -71.92     | -410.99    | 451,288.08        | 757,758.78       | 32.23872815     | -103.63336112    | 0.00             | 0.00            | 0.00            |
|                           | 5,300.00   | 7.00        | 260.07      | 5,274.18    | 1,643.08      | 71.58        | -74.02     | -422.98    | 451,285.98        | 757,746.78       | 32.23872259     | -103.63339997    | 0.00             | 0.00            | 0.00            |

| Comments                    | MD<br>(ft) | Incl<br>(°) | Azim<br>(°) | TVD<br>(ft) | TVSS<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | Northing<br>(RUS) | Easting<br>(RUS) | Latitude<br>(°) | Longitude<br>(°) | DLS<br>(°/100ft) | BR<br>(°/100ft) | TR<br>(°/100ft) |
|-----------------------------|------------|-------------|-------------|-------------|--------------|--------------|------------|------------|-------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|
| Avalon                      | 9,100.00   | 0.00        | 260.07      | 9,061.15    | 5,430.05     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
|                             | 9,200.00   | 0.00        | 260.07      | 9,161.15    | 5,530.05     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
|                             | 9,300.00   | 0.00        | 260.07      | 9,261.15    | 5,630.05     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
|                             | 9,321.85   | 0.00        | 260.07      | 9,283.00    | 5,651.90     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
|                             | 9,400.00   | 0.00        | 260.07      | 9,361.15    | 5,730.05     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
| KOP, Build 10°/100ft        | 9,500.00   | 0.00        | 260.07      | 9,461.15    | 5,830.05     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
|                             | 9,543.39   | 0.00        | 260.07      | 9,504.54    | 5,873.44     | 108.31       | -112.00    | -640.00    | 451,248.00        | 757,529.77       | 32.23862209     | -103.63410259    | 0.00             | 0.00            | 0.00            |
|                             | 9,600.00   | 5.66        | 191.67      | 9,561.06    | 5,929.96     | 111.05       | -114.74    | -640.57    | 451,245.27        | 757,529.21       | 32.23861458     | -103.63410448    | 10.00            | 10.00           | 0.00            |
|                             | 9,700.00   | 15.66       | 191.67      | 9,659.21    | 6,028.11     | 129.12       | -132.83    | -644.30    | 451,227.17        | 757,525.47       | 32.23856491     | -103.63411694    | 10.00            | 10.00           | 0.00            |
|                             | 9,800.00   | 25.66       | 191.67      | 9,752.66    | 6,121.56     | 163.59       | -167.34    | -651.43    | 451,192.66        | 757,518.34       | 32.23847018     | -103.63414072    | 10.00            | 10.00           | 0.00            |
| 1st BS SS                   | 9,900.00   | 35.66       | 191.67      | 9,838.57    | 6,207.47     | 213.41       | -217.22    | -661.73    | 451,142.79        | 757,508.04       | 32.23833327     | -103.63417509    | 10.00            | 10.00           | 0.00            |
|                             | 10,000.00  | 45.66       | 191.67      | 9,914.33    | 6,283.23     | 277.06       | -280.95    | -674.90    | 451,079.06        | 757,494.88       | 32.23815834     | -103.63421900    | 10.00            | 10.00           | 0.00            |
|                             | 10,100.00  | 55.66       | 191.67      | 9,977.64    | 6,346.54     | 352.61       | -356.60    | -690.52    | 451,003.42        | 757,479.26       | 32.23795070     | -103.63427112    | 10.00            | 10.00           | 0.00            |
|                             | 10,107.81  | 56.44       | 179.67      | 9,982.00    | 6,350.90     | 358.95       | -362.94    | -691.83    | 450,991.07        | 757,477.95       | 32.23793329     | -103.63427549    | 10.00            | 10.00           | 0.00            |
|                             | 10,200.00  | 65.66       | 191.67      | 10,026.58   | 6,395.48     | 437.78       | -441.86    | -708.13    | 450,918.16        | 757,461.65       | 32.23771666     | -103.63432987    | 10.00            | 10.00           | 0.00            |
| Build & Turn 5°/100ft       | 10,293.39  | 75.00       | 191.67      | 10,057.97   | 6,426.87     | 523.70       | -527.89    | -725.90    | 450,832.13        | 757,443.88       | 32.23748052     | -103.63438914    | 10.00            | 10.00           | 0.00            |
|                             | 10,300.00  | 75.31       | 191.54      | 10,059.67   | 6,428.57     | 529.95       | -534.15    | -727.19    | 450,825.87        | 757,442.59       | 32.23746334     | -103.63439343    | 5.00             | 4.63            | -1.94           |
|                             | 10,400.00  | 79.95       | 189.64      | 10,081.09   | 6,449.99     | 625.83       | -630.13    | -745.11    | 450,729.89        | 757,424.66       | 32.23719984     | -103.63445343    | 5.00             | 4.64            | -1.91           |
|                             | 10,500.00  | 84.60       | 187.78      | 10,094.54   | 6,463.44     | 723.66       | -728.05    | -760.11    | 450,631.98        | 757,409.67       | 32.23693096     | -103.63450397    | 5.00             | 4.65            | -1.85           |
|                             | 10,600.00  | 89.26       | 185.96      | 10,099.90   | 6,468.80     | 822.70       | -827.16    | -772.05    | 450,532.87        | 757,397.73       | 32.23665877     | -103.63454467    | 5.00             | 4.66            | -1.82           |
| Landing Point               | 10,615.99  | 90.00       | 185.67      | 10,100.00   | 6,468.80     | 838.59       | -843.99    | -773.05    | 450,433.37        | 757,389.11       | 32.23636591     | -103.63455025    | 5.00             | 4.67            | -1.82           |
|                             | 10,700.00  | 90.00       | 185.67      | 10,100.00   | 6,468.80     | 922.15       | -926.67    | -781.97    | 450,433.37        | 757,387.81       | 32.23638545     | -103.63457885    | 0.00             | 0.00            | 0.00            |
|                             | 10,800.00  | 90.00       | 185.67      | 10,100.00   | 6,468.80     | 1,021.60     | -1,026.18  | -791.85    | 450,333.86        | 757,377.93       | 32.23611211     | -103.63461289    | 0.00             | 0.00            | 0.00            |
|                             | 10,860.99  | 90.00       | 185.67      | 10,100.00   | 6,468.80     | 1,082.25     | -1,086.86  | -797.87    | 450,273.18        | 757,371.91       | 32.23594541     | -103.63463365    | 0.00             | 0.00            | 0.00            |
|                             | 10,900.00  | 90.00       | 184.89      | 10,100.00   | 6,468.80     | 1,121.08     | -1,125.71  | -801.46    | 450,234.33        | 757,368.32       | 32.23583870     | -103.63464608    | 2.00             | 0.00            | -2.00           |
| Hold                        | 11,000.00  | 90.00       | 182.89      | 10,100.00   | 6,468.80     | 1,220.80     | -1,225.48  | -808.25    | 450,134.57        | 757,361.54       | 32.23556461     | -103.63467012    | 2.00             | 0.00            | 0.00            |
|                             | 11,100.00  | 90.00       | 180.89      | 10,100.00   | 6,468.80     | 1,320.72     | -1,325.42  | -811.54    | 450,034.63        | 757,358.24       | 32.23528997     | -103.63468288    | 2.00             | 0.00            | -2.00           |
|                             | 11,160.99  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,381.70     | -1,386.40  | -816.82    | 449,934.84        | 757,351.96       | 32.23512235     | -103.63468513    | 2.00             | 0.00            | -2.00           |
|                             | 11,200.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,420.72     | -1,425.42  | -811.62    | 449,934.64        | 757,358.17       | 32.23501512     | -103.63468522    | 0.00             | 0.00            | 0.00            |
|                             | 11,300.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,520.72     | -1,525.41  | -811.04    | 449,834.65        | 757,358.74       | 32.23474026     | -103.63468546    | 0.00             | 0.00            | 0.00            |
| Turn 2°/100ft               | 11,400.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,620.72     | -1,625.41  | -810.46    | 449,734.65        | 757,359.32       | 32.23446539     | -103.63468570    | 0.00             | 0.00            | 0.00            |
|                             | 11,500.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,720.72     | -1,725.41  | -809.89    | 449,634.66        | 757,359.89       | 32.23419053     | -103.63468594    | 0.00             | 0.00            | 0.00            |
|                             | 11,600.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,820.72     | -1,825.41  | -809.31    | 449,534.66        | 757,360.47       | 32.23391566     | -103.63468619    | 0.00             | 0.00            | 0.00            |
|                             | 11,700.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 1,920.72     | -1,925.41  | -808.74    | 449,434.67        | 757,361.04       | 32.23364080     | -103.63468643    | 0.00             | 0.00            | 0.00            |
|                             | 11,800.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,020.72     | -2,025.41  | -808.16    | 449,334.67        | 757,361.62       | 32.23336591     | -103.63468667    | 0.00             | 0.00            | 0.00            |
| Pool NMNM0001917 exit to NM | 11,900.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,120.72     | -2,125.40  | -807.58    | 449,234.68        | 757,362.20       | 32.23309107     | -103.63468691    | 0.00             | 0.00            | 0.00            |
|                             | 12,000.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,220.72     | -2,225.40  | -807.01    | 449,134.69        | 757,362.77       | 32.23281620     | -103.63468715    | 0.00             | 0.00            | 0.00            |
|                             | 12,100.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,320.72     | -2,325.40  | -806.43    | 449,034.69        | 757,363.35       | 32.23254134     | -103.63468739    | 0.00             | 0.00            | 0.00            |
|                             | 12,200.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,420.72     | -2,425.40  | -805.86    | 448,934.70        | 757,363.92       | 32.23226647     | -103.63468763    | 0.00             | 0.00            | 0.00            |
|                             | 12,227.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,447.72     | -2,452.40  | -805.70    | 448,907.70        | 757,364.08       | 32.23219226     | -103.63468769    | 0.00             | 0.00            | 0.00            |
| Turn 2°/100ft               | 12,300.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,520.72     | -2,525.40  | -805.28    | 448,834.70        | 757,364.50       | 32.23199161     | -103.63468787    | 0.00             | 0.00            | 0.00            |
|                             | 12,400.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,620.72     | -2,625.40  | -804.71    | 448,734.71        | 757,365.08       | 32.23171674     | -103.63468811    | 0.00             | 0.00            | 0.00            |
|                             | 12,500.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,720.72     | -2,725.39  | -804.13    | 448,634.71        | 757,365.65       | 32.23144188     | -103.63468835    | 0.00             | 0.00            | 0.00            |
|                             | 12,600.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,820.72     | -2,825.39  | -803.55    | 448,534.72        | 757,366.23       | 32.23116701     | -103.63468859    | 0.00             | 0.00            | 0.00            |
|                             | 12,700.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 2,920.72     | -2,925.39  | -802.98    | 448,434.72        | 757,366.80       | 32.23089215     | -103.63468883    | 0.00             | 0.00            | 0.00            |
| Turn 2°/100ft               | 12,800.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 3,020.72     | -3,025.39  | -802.40    | 448,334.73        | 757,367.38       | 32.23061728     | -103.63468907    | 0.00             | 0.00            | 0.00            |
|                             | 12,900.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 3,120.72     | -3,125.39  | -801.83    | 448,234.74        | 757,367.96       | 32.23034242     | -103.63468931    | 0.00             | 0.00            | 0.00            |
|                             | 13,000.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 3,220.72     | -3,225.39  | -801.25    | 448,134.74        | 757,368.53       | 32.23006755     | -103.63468955    | 0.00             | 0.00            | 0.00            |
|                             | 13,100.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 3,320.72     | -3,325.38  | -800.67    | 448,034.75        | 757,369.11       | 32.22979269     | -103.63468979    | 0.00             | 0.00            | 0.00            |
|                             | 13,200.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 3,420.72     | -3,425.38  | -800.09    | 447,934.75        | 757,369.68       | 32.22951783     | -103.63469003    | 0.00             | 0.00            | 0.00            |
| Turn 2°/100ft               | 13,300.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     | 3,520.72     | -3,525.38  | -799.52    | 447,834.76        | 757,370.26       | 32.22924296     | -103.63469028    | 0.00             | 0.00            | 0.00            |
|                             | 13,400.00  | 90.00       | 179.67      | 10,100.00   | 6,468.80     |              |            |            |                   |                  |                 |                  |                  |                 |                 |

| Comments | MD<br>(ft) | Incl<br>(°) | Azim<br>(°) | TVD<br>(ft) | TVDSS<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(°) | Longitude<br>(°) | DLS<br>(°/100ft) | BR<br>(°/100ft) | TR<br>(°/100ft) |
|----------|------------|-------------|-------------|-------------|---------------|--------------|------------|------------|--------------------|-------------------|-----------------|------------------|------------------|-----------------|-----------------|
|----------|------------|-------------|-------------|-------------|---------------|--------------|------------|------------|--------------------|-------------------|-----------------|------------------|------------------|-----------------|-----------------|

Survey Type: Def Plan

Survey Error Model: ISWSA0 3 - D 95 % Confidence 2.7955 sigma  
Survey Program:

| Description | Part | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size<br>(in) | Casing Diameter<br>(in) | Expected Max<br>Inclination<br>(deg) | Survey Tool Code   | Vendor / Tool | Borehole / Survey                               |
|-------------|------|-----------------|---------------|------------------|-------------------|-------------------------|--------------------------------------|--------------------|---------------|-------------------------------------------------|
|             | 1    | 0.000           | 9,500.000     | 1/100.000        | —                 | —                       |                                      | A001Mb_MWD         |               | Dos Equis 12-13 Federal Com 52H / Coterra Dos E |
|             | 1    | 9,500.000       | 20,051.590    | 1/100.000        | —                 | —                       |                                      | A008Mb_MWD+IFR1+MS |               | Dos Equis 12-13 Federal Com 52H / Coterra Dos E |

A default hole/casing size was used for A/C calculation because the wellbore size is not defined correctly.

EOU Geometry:

| End MD (ft) | Hole Size (in) | Casing Size (in) | Name |
|-------------|----------------|------------------|------|
| 1,214.900   | 14.500         | 10.750           |      |
|             | 9.875          | 7.625            |      |
|             | 8.750          | 7.625            |      |
| 20,072.018  | 6.750          | 5.000            |      |



## Coterra Dos Equis 12-13 Federal Com 52H Rev0 kFc 17Nov23 Anti-Collision Summary Report

**Analysis Date-24hr Time:** November 21, 2023 - 06:40 PM ( UTC 0 )  
**Client:** COTERRA  
**Field:** NM Lea County (NAD 83)  
**Structure:** Coterra Dos Equis 12-13 Federal Com Pad 3  
**Slot:** Dos Equis 12-13 Federal Com 52H  
**Well:** Dos Equis 12-13 Federal Com 52H  
**Borehole:** Dos Equis 12-13 Federal Com 52H  
**Scan MD Range:** 0.00ft ~ 20072.02ft

**Analysis Method:** 3D Least Distance  
**Reference Trajectory:** Coterra Dos Equis 12-13 Federal Com 52H Rev0 kFc 17Nov23 (Def Plan)  
**Depth Interval:** Every 10.00 Measured Depth (ft)  
**Rule Set:** NAL Procedure: D&M AntiCollision Standard S002  
**Min Pts:** Absolute minima indicated.  
**Engine Version:** 2023.1.0.1  
**Database 1 Project:** Dos Equis 12-13 Federal Com 52H-COTERRA

**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

14 out of 15 are selected

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

Results highlighted in red: Sep-Factor <= 1.5

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

|                                                                                   |        |         |         |           |                 |          |          |                 |          |  |  |             |               |
|-----------------------------------------------------------------------------------|--------|---------|---------|-----------|-----------------|----------|----------|-----------------|----------|--|--|-------------|---------------|
| Coterra Dos Equis 12-13 Federal Com 51H Rev0 kFc 17Nov23 (DefinitivePlan)         |        |         |         |           |                 |          |          |                 |          |  |  |             | Fail Minor    |
| 19.99                                                                             | 16.49  | 17.49   | 3.50    | N/A       | MAS = 5.03 (m)  | 0.00     | 0.00     | CtCt<=15m<15.00 |          |  |  | Enter Alert |               |
| 19.99                                                                             | 16.49  | 17.49   | 3.50    | 49365.25  | MAS = 5.03 (m)  | 23.00    | 23.00    |                 |          |  |  | WRP         |               |
| 19.99                                                                             | 20.07  | 5.78    | -0.08   | 1.49      | OSF1.50         | 1230.00  | 1230.00  |                 | OSF<1.50 |  |  | Enter Minor |               |
| 19.99                                                                             | 25.63  | 2.07    | -5.64   | 1.13      | OSF1.50         | 1600.00  | 1600.00  |                 |          |  |  | MinPt-CtCt  |               |
| 20.15                                                                             | 26.07  | 1.93    | -5.93   | 1.12      | OSF1.50         | 1630.00  | 1630.00  |                 |          |  |  | MinPts      |               |
| 20.27                                                                             | 26.22  | 1.96    | -5.95   | 1.12      | OSF1.50         | 1640.00  | 1640.00  |                 |          |  |  | MinPt-ADP   |               |
| 28.98                                                                             | 29.01  | 8.81    | -0.03   | 1.50      | OSF1.50         | 1830.00  | 1829.75  |                 | OSF>1.50 |  |  | Exit Minor  |               |
| 252.53                                                                            | 146.37 | 154.12  | 106.16  | 2.61      | OSF1.50         | 9543.39  | 9504.54  |                 |          |  |  | MinPt-EOU   |               |
| 252.56                                                                            | 146.42 | 154.12  | 106.15  | 2.61      | OSF1.50         | 9550.00  | 9511.15  |                 |          |  |  | MinPts      |               |
| 490.68                                                                            | 151.08 | 389.13  | 339.60  | 4.93      | OSF1.50         | 10100.00 | 9977.64  | OSF>5.00        |          |  |  | Exit Alert  |               |
| 1458.75                                                                           | 198.81 | 1325.37 | 1259.93 | 11.13     | OSF1.50         | 15150.00 | 10100.00 |                 |          |  |  | MinPt-CtCt  |               |
| 1465.87                                                                           | 216.84 | 1320.45 | 1249.03 | 10.24     | OSF1.50         | 15750.00 | 10100.00 |                 |          |  |  | MinPt-EOU   |               |
| 1486.97                                                                           | 350.54 | 1252.45 | 1136.43 | 6.40      | OSF1.50         | 20070.00 | 10100.00 |                 |          |  |  | MinPt-CtCt  |               |
| 1486.97                                                                           | 350.58 | 1252.42 | 1136.39 | 6.40      | OSF1.50         | 20072.02 | 10100.00 |                 |          |  |  | MinPts      |               |
| Coterra Dos Equis 12-13 Federal Com 50H Rev0 kFc 17Nov23 (DefinitivePlan)         |        |         |         |           |                 |          |          |                 |          |  |  |             | Warning Alert |
| 39.99                                                                             | 32.49  | 37.49   | 7.50    | N/A       | MAS = 9.90 (m)  | 0.00     | 0.00     | CtCt<=15m<15.00 |          |  |  | Enter Alert |               |
| 39.99                                                                             | 32.49  | 37.49   | 7.50    | 105814.40 | MAS = 9.90 (m)  | 23.00    | 23.00    |                 |          |  |  | WRP         |               |
| 39.99                                                                             | 32.49  | 22.07   | 7.50    | 2.43      | MAS = 9.90 (m)  | 1600.00  | 1600.00  |                 |          |  |  | MinPts      |               |
| 40.15                                                                             | 32.49  | 21.93   | 7.65    | 2.40      | MAS = 9.90 (m)  | 1630.00  | 1630.00  |                 |          |  |  | MinPt-EOU   |               |
| 40.84                                                                             | 32.49  | 22.23   | 8.34    | 2.38      | MAS = 9.90 (m)  | 1670.00  | 1669.99  |                 |          |  |  | MinPt-SF    |               |
| 120.66                                                                            | 37.98  | 94.51   | 82.69   | 5.00      | OSF1.50         | 2440.00  | 2435.48  | OSF>5.00        |          |  |  | Exit Alert  |               |
| 548.03                                                                            | 142.57 | 452.14  | 405.45  | 5.84      | OSF1.50         | 9543.39  | 9504.54  |                 |          |  |  | MinPt-CtCt  |               |
| 548.08                                                                            | 142.70 | 452.11  | 405.38  | 5.84      | OSF1.50         | 9560.00  | 9521.15  |                 |          |  |  | MinPts      |               |
| 549.14                                                                            | 143.13 | 452.89  | 406.01  | 5.83      | OSF1.50         | 9620.00  | 9580.92  |                 |          |  |  | MinPt-SF    |               |
| 856.35                                                                            | 208.71 | 716.41  | 647.68  | 6.21      | OSF1.50         | 15150.00 | 10100.00 |                 |          |  |  | MinPt-CtCt  |               |
| 857.08                                                                            | 210.88 | 715.66  | 646.20  | 6.15      | OSF1.50         | 15230.00 | 10100.00 |                 |          |  |  | MinPt-EOU   |               |
| 858.25                                                                            | 212.28 | 715.90  | 645.98  | 6.12      | OSF1.50         | 15280.00 | 10100.00 |                 |          |  |  | MinPt-ADP   |               |
| 975.72                                                                            | 294.59 | 778.50  | 681.14  | 5.00      | OSF1.50         | 18080.00 | 10100.00 | OSF<5.00        |          |  |  | Enter Alert |               |
| 975.81                                                                            | 354.01 | 738.97  | 621.80  | 4.15      | OSF1.50         | 20072.02 | 10100.00 |                 |          |  |  | MinPts      |               |
| Coterra Dos Equis 12-13 Federal Com 49H Rev0 kFc 17Nov23 (DefinitivePlan)         |        |         |         |           |                 |          |          |                 |          |  |  |             | Warning Alert |
| 59.98                                                                             | 32.81  | 57.48   | 27.18   | N/A       | MAS = 10.00 (m) | 0.00     | 0.00     |                 |          |  |  | Surface     |               |
| 59.98                                                                             | 32.81  | 57.48   | 27.18   | 162235.11 | MAS = 10.00 (m) | 23.00    | 23.00    |                 |          |  |  | WRP         |               |
| 59.98                                                                             | 32.81  | 45.97   | 27.18   | 4.99      | MAS = 10.00 (m) | 1210.00  | 1210.00  | OSF<5.00        |          |  |  | Enter Alert |               |
| 59.98                                                                             | 32.81  | 42.06   | 27.18   | 3.73      | MAS = 10.00 (m) | 1600.00  | 1600.00  |                 |          |  |  | MinPts      |               |
| 60.14                                                                             | 32.81  | 41.92   | 27.33   | 3.67      | MAS = 10.00 (m) | 1630.00  | 1630.00  |                 |          |  |  | MinPt-EOU   |               |
| 61.71                                                                             | 32.81  | 42.80   | 28.90   | 3.61      | MAS = 10.00 (m) | 1700.00  | 1699.98  |                 |          |  |  | MinPt-SF    |               |
| 99.59                                                                             | 32.81  | 77.57   | 66.78   | 4.98      | MAS = 10.00 (m) | 2030.00  | 2028.53  | OSF>5.00        |          |  |  | Exit Alert  |               |
| 1284.36                                                                           | 143.38 | 1187.94 | 1140.98 | 13.65     | OSF1.50         | 9550.00  | 9511.15  |                 |          |  |  | MinPt-SF    |               |
| 1242.94                                                                           | 143.98 | 1146.12 | 1098.96 | 13.15     | OSF1.50         | 10030.00 | 9934.73  |                 |          |  |  | MinPt-CtCt  |               |
| 1242.96                                                                           | 144.05 | 1146.09 | 1098.91 | 13.14     | OSF1.50         | 10040.00 | 9941.27  |                 |          |  |  | MinPts      |               |
| 1245.15                                                                           | 144.53 | 1147.96 | 1100.62 | 13.12     | OSF1.50         | 10120.00 | 9988.63  |                 |          |  |  | MinPt-SF    |               |
| 1286.09                                                                           | 146.85 | 1187.36 | 1139.24 | 13.34     | OSF1.50         | 10590.00 | 10099.73 |                 |          |  |  | MinPt-SF    |               |
| 1287.34                                                                           | 146.99 | 1188.52 | 1140.36 | 13.34     | OSF1.50         | 10620.00 | 10100.00 |                 |          |  |  | MinPt-SF    |               |
| 1294.85                                                                           | 214.15 | 1151.26 | 1080.71 | 9.16      | OSF1.50         | 14800.00 | 10100.00 |                 |          |  |  | MinPt-CtCt  |               |
| 1295.26                                                                           | 215.36 | 1150.85 | 1079.90 | 9.11      | OSF1.50         | 14850.00 | 10100.00 |                 |          |  |  | MinPt-EOU   |               |
| 1295.66                                                                           | 215.85 | 1150.93 | 1079.82 | 9.09      | OSF1.50         | 14870.00 | 10100.00 |                 |          |  |  | MinPt-ADP   |               |
| 1302.85                                                                           | 235.56 | 1144.98 | 1067.29 | 8.37      | OSF1.50         | 15500.00 | 10100.00 |                 |          |  |  | MinPt-CtCt  |               |
| 1303.25                                                                           | 236.81 | 1144.53 | 1066.44 | 8.33      | OSF1.50         | 15550.00 | 10100.00 |                 |          |  |  | MinPt-EOU   |               |
| 1317.53                                                                           | 257.57 | 1144.96 | 1059.95 | 7.73      | OSF1.50         | 16360.00 | 10100.00 |                 |          |  |  | MinPt-ADP   |               |
| 1319.82                                                                           | 360.89 | 1078.40 | 958.93  | 5.51      | OSF1.50         | 20070.00 | 10100.00 |                 |          |  |  | MinPt-CtCt  |               |
| 1319.82                                                                           | 360.91 | 1078.38 | 958.91  | 5.51      | OSF1.50         | 20072.02 | 10100.00 |                 |          |  |  | MinPts      |               |
| 30-025-40793 - DOS EQUIS '12' FEDERAL COM 4H - Gyro to 11189ft (DefinitiveSurvey) |        |         |         |           |                 |          |          |                 |          |  |  |             | Warning Alert |
| 822.24                                                                            | 32.81  | 819.74  | 789.44  | #####     | MAS = 10.00 (m) | 0.00     | 0.00     |                 |          |  |  | MinPts      |               |
| 822.25                                                                            | 32.81  | 819.74  | 789.44  | 83936.59  | MAS = 10.00 (m) | 23.00    | 23.00    |                 |          |  |  | WRP         |               |
| 295.74                                                                            | 90.58  | 234.51  | 205.15  | 4.99      | OSF1.50         | 6020.00  | 5988.82  | OSF<5.00        |          |  |  | Enter Alert |               |
| 161.40                                                                            | 109.07 | 87.86   | 52.34   | 2.24      | OSF1.50         | 7260.00  | 7221.15  |                 |          |  |  | MinPt-CtCt  |               |
| 161.94                                                                            | 110.08 | 87.72   | 51.86   | 2.22      | OSF1.50         | 7330.00  | 7291.15  |                 |          |  |  | MinPt-EOU   |               |
| 166.99                                                                            | 116.33 | 88.60   | 50.65   | 2.17      | OSF1.50         | 7760.00  | 7721.15  |                 |          |  |  | MinPt-ADP   |               |
| 177.40                                                                            | 128.28 | 91.04   | 49.12   | 2.09      | OSF1.50         | 8580.00  | 8541.15  |                 |          |  |  | MinPt-EOU   |               |
| 181.06                                                                            | 132.68 | 91.78   | 48.38   | 2.06      | OSF1.50         | 8880.00  | 8841.15  |                 |          |  |  | MinPt-ADP   |               |
| 188.23                                                                            | 139.72 | 94.25   | 48.51   | 2.03      | OSF1.50         | 9360.00  | 9321.15  |                 |          |  |  | MinPt-ADP   |               |
| 190.14                                                                            | 141.34 | 95.08   | 48.80   | 2.03      | OSF1.50         | 9470.00  | 9431.15  |                 |          |  |  | MinPt-SF    |               |
| 166.05                                                                            | 145.19 | 58.47   | 10.90   | 1.61      | OSF1.50         | 9926.76  | 9859.94  |                 |          |  |  | MinPt-CtCt  |               |
| 156.11                                                                            | 145.24 | 58.45   | 10.86   | 1.61      | OSF1.50         | 9930.00  | 9862.47  |                 |          |  |  | MinPts      |               |
| 487.94                                                                            | 149.97 | 387.13  | 337.97  | 4.94      | OSF1.50         | 10460.00 | 10090.12 | OSF>5.00        |          |  |  | Exit Alert  |               |
| 10070.23                                                                          | 161.46 | 9961.76 | 9908.77 | 95.00     | OSF1.50         | 20072.02 | 10100.00 |                 |          |  |  | TD          |               |
| 30-025-40793 - DOS EQUIS '12' FEDERAL COM 4H - MWD to 15240ft (DefinitiveSurvey)  |        |         |         |           |                 |          |          |                 |          |  |  |             | Warning Alert |
| 822.24                                                                            | 32.81  | 819.74  | 789.44  | #####     | MAS = 10.00 (m) | 0.00     | 0.00     |                 |          |  |  | MinPts      |               |
| 822.25                                                                            | 32.81  | 819.74  | 789.44  | 83936.59  | MAS = 10.00 (m) | 23.00    | 23.00    |                 |          |  |  | WRP         |               |
| 295.74                                                                            | 90.58  | 234.51  | 205.15  | 4.99      | OSF1.50         | 6020.00  | 5988.82  | OSF<5.00        |          |  |  | Enter Alert |               |
| 161.40                                                                            | 109.07 | 87.86   | 52.34   | 2.24      | OSF1.50         | 7260.00  | 7221.15  |                 |          |  |  | MinPt-CtCt  |               |
| 161.94                                                                            | 110.08 | 87.72   | 51.86   | 2.22      | OSF1.50         | 7330.00  | 7291.15  |                 |          |  |  | MinPt-EOU   |               |

| Offset Trajectory                                                                     | Separation |          |          | Allow<br>Dev. (ft) | Sep.<br>Fact. | Controlling<br>Rule | Reference Trajectory |          | Risk Level |       |       | Alert       | Status        |
|---------------------------------------------------------------------------------------|------------|----------|----------|--------------------|---------------|---------------------|----------------------|----------|------------|-------|-------|-------------|---------------|
|                                                                                       | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                    |               |                     | MD (ft)              | TVD (ft) | Alert      | Minor | Major |             |               |
| 166.99                                                                                | 116.33     | 88.60    | 50.66    | 2.17               |               | OSF1.50             | 7760.00              | 7721.15  |            |       |       | MinPt-ADP   |               |
| 177.40                                                                                | 128.28     | 91.04    | 49.12    | 2.09               |               | OSF1.50             | 8580.00              | 8541.15  |            |       |       | MinPt-EOU   |               |
| 181.06                                                                                | 132.68     | 91.78    | 48.38    | 2.06               |               | OSF1.50             | 8880.00              | 8841.15  |            |       |       | MinPt-ADP   |               |
| 188.23                                                                                | 139.72     | 94.25    | 48.51    | 2.03               |               | OSF1.50             | 9360.00              | 9321.15  |            |       |       | MinPt-ADP   |               |
| 190.14                                                                                | 141.34     | 95.08    | 48.80    | 2.03               |               | OSF1.50             | 9470.00              | 9431.15  |            |       |       | MinPt-SF    |               |
| 156.09                                                                                | 145.19     | 58.47    | 10.90    | 1.61               |               | OSF1.50             | 9926.76              | 9859.94  |            |       |       | MinPt-CtCt  |               |
| 156.11                                                                                | 145.24     | 58.46    | 10.86    | 1.61               |               | OSF1.50             | 9930.00              | 9862.47  |            |       |       | MinPts      |               |
| 487.94                                                                                | 149.97     | 387.13   | 337.97   | 4.94               |               | OSF1.50             | 10460.00             | 10090.12 | OSF>5.00   |       |       | Exit Alert  |               |
| 829.71                                                                                | 94.77      | 765.70   | 734.94   | 13.45              |               | OSF1.50             | 11050.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 830.17                                                                                | 97.34      | 764.45   | 732.83   | 13.09              |               | OSF1.50             | 11250.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 826.47                                                                                | 108.19     | 753.51   | 718.28   | 11.69              |               | OSF1.50             | 11910.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 826.99                                                                                | 109.91     | 752.88   | 717.08   | 11.51              |               | OSF1.50             | 12010.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 827.92                                                                                | 113.73     | 751.26   | 714.18   | 11.13              |               | OSF1.50             | 12190.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 822.03                                                                                | 140.17     | 727.75   | 681.86   | 8.93               |               | OSF1.50             | 13300.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 822.61                                                                                | 141.97     | 727.13   | 680.64   | 8.82               |               | OSF1.50             | 13380.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 823.77                                                                                | 143.73     | 727.12   | 680.05   | 8.72               |               | OSF1.50             | 13450.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 826.07                                                                                | 163.94     | 715.95   | 662.13   | 7.65               |               | OSF1.50             | 14200.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 828.91                                                                                | 174.47     | 711.77   | 654.44   | 7.21               |               | OSF1.50             | 14550.00             | 10100.00 |            |       |       | MinPts      |               |
| 5570.04                                                                               | 166.75     | 5458.03  | 5403.28  | 50.84              |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | TD          |               |
| 30-025-45417 - DOS EQUIS 13 FEDERAL COM 010H - IFR1 to 15791ft - A (DefinitiveSurvey) |            |          |          |                    |               |                     |                      |          |            |       |       |             | Warning Alert |
| 5459.43                                                                               | 32.81      | 5456.88  | 5426.62  | 112631.06          |               | MAS = 10.00 (m)     | 0.00                 | 0.00     |            |       |       | MinPts      |               |
| 5459.45                                                                               | 32.81      | 5456.83  | 5426.64  | 46005.52           |               | MAS = 10.00 (m)     | 23.00                | 23.00    |            |       |       | WRP         |               |
| 5462.28                                                                               | 32.81      | 5451.73  | 5429.44  | 680.56             |               | MAS = 10.00 (m)     | 880.00               | 880.00   |            |       |       | MinPts      |               |
| 5435.08                                                                               | 45.76      | 5403.70  | 5389.28  | 188.36             |               | OSF1.50             | 3030.00              | 3021.09  |            |       |       | MinPt-CtCt  |               |
| 5207.90                                                                               | 144.18     | 5110.94  | 5063.72  | 55.11              |               | OSF1.50             | 9410.00              | 9371.15  |            |       |       | MinPt-CtCt  |               |
| 510.85                                                                                | 155.66     | 406.25   | 355.19   | 4.98               |               | OSF1.50             | 14610.00             | 10100.00 | OSF<5.00   |       |       | Enter Alert |               |
| 190.46                                                                                | 189.42     | 63.34    | 1.03     | 1.51               |               | OSF1.50             | 15099.32             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 190.46                                                                                | 189.44     | 63.33    | 1.02     | 1.51               |               | OSF1.50             | 15100.00             | 10100.00 |            |       |       | MinPts      |               |
| 519.07                                                                                | 159.30     | 412.04   | 359.77   | 4.94               |               | OSF1.50             | 15600.00             | 10100.00 | OSF>5.00   |       |       | Exit Alert  |               |
| 926.84                                                                                | 187.42     | 803.06   | 741.43   | 7.51               |               | OSF1.50             | 16800.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 930.31                                                                                | 191.16     | 802.03   | 739.14   | 7.38               |               | OSF1.50             | 16960.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 931.47                                                                                | 202.10     | 795.90   | 729.37   | 6.98               |               | OSF1.50             | 17380.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 931.12                                                                                | 208.45     | 791.32   | 722.67   | 6.76               |               | OSF1.50             | 17620.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 932.78                                                                                | 216.81     | 787.37   | 715.93   | 6.51               |               | OSF1.50             | 17930.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 927.64                                                                                | 246.15     | 762.71   | 681.49   | 5.70               |               | OSF1.50             | 18980.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 929.71                                                                                | 277.90     | 743.61   | 651.81   | 5.05               |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | MinPts      |               |
| Coterra Dos Equis 12-13 Federal Com 48H Rev0 Kfc 17Nov23 (DefinitivePlan)             |            |          |          |                    |               |                     |                      |          |            |       |       |             | Pass          |
| 79.99                                                                                 | 32.81      | 77.49    | 47.18    | N/A                |               | MAS = 10.00 (m)     | 0.00                 | 0.00     |            |       |       | Surface     |               |
| 79.99                                                                                 | 32.81      | 77.48    | 47.18    | 72894.75           |               | MAS = 10.00 (m)     | 23.00                | 23.00    |            |       |       | WRP         |               |
| 79.95                                                                                 | 32.81      | 65.17    | 47.18    | 6.29               |               | MAS = 10.00 (m)     | 1290.00              | 1290.00  |            |       |       | MinPts      |               |
| 80.14                                                                                 | 32.81      | 64.93    | 47.33    | 6.11               |               | MAS = 10.00 (m)     | 1330.00              | 1330.00  |            |       |       | MinPt-EOU   |               |
| 84.33                                                                                 | 32.81      | 67.88    | 51.52    | 5.86               |               | MAS = 10.00 (m)     | 1460.00              | 1460.00  |            |       |       | MinPt-SF    |               |
| 1421.16                                                                               | 143.37     | 1324.75  | 1277.79  | 15.11              |               | OSF1.50             | 9550.00              | 9511.15  |            |       |       | MinPts      |               |
| 1421.43                                                                               | 143.48     | 1324.95  | 1277.95  | 15.10              |               | OSF1.50             | 9580.00              | 9541.13  |            |       |       | MinPt-SF    |               |
| 2071.70                                                                               | 210.78     | 1930.35  | 1860.93  | 14.90              |               | OSF1.50             | 15150.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2072.28                                                                               | 212.64     | 1929.69  | 1859.64  | 14.77              |               | OSF1.50             | 15220.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2073.16                                                                               | 213.71     | 1929.85  | 1859.44  | 14.71              |               | OSF1.50             | 15260.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2196.22                                                                               | 353.31     | 1959.85  | 1842.91  | 9.38               |               | OSF1.50             | 20060.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2196.22                                                                               | 353.60     | 1959.65  | 1842.62  | 9.37               |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | MinPts      |               |
| Coterra Dos Equis 12-13 Federal Com 47H Corrected MWD to 22528ft (DefinitiveSurvey)   |            |          |          |                    |               |                     |                      |          |            |       |       |             | Pass          |
| 134.14                                                                                | 32.81      | 131.64   | 101.33   | N/A                |               | MAS = 10.00 (m)     | 0.00                 | 0.00     |            |       |       | Surface     |               |
| 134.13                                                                                | 32.81      | 131.63   | 101.33   | 118205.56          |               | MAS = 10.00 (m)     | 23.00                | 23.00    |            |       |       | WRP         |               |
| 133.45                                                                                | 32.81      | 126.24   | 100.65   | 27.80              |               | MAS = 10.00 (m)     | 540.00               | 540.00   |            |       |       | MinPts      |               |
| 129.80                                                                                | 32.81      | 114.83   | 96.99    | 10.21              |               | MAS = 10.00 (m)     | 1320.33              | 1320.33  |            |       |       | MinPts      |               |
| 129.97                                                                                | 32.81      | 114.62   | 97.16    | 9.92               |               | MAS = 10.00 (m)     | 1360.00              | 1360.00  |            |       |       | MinPt-EOU   |               |
| 145.48                                                                                | 32.81      | 126.87   | 112.68   | 8.88               |               | MAS = 10.00 (m)     | 1700.00              | 1699.98  |            |       |       | MinPt-SF    |               |
| 1516.31                                                                               | 140.15     | 1422.05  | 1376.16  | 16.50              |               | OSF1.50             | 9320.00              | 9281.15  |            |       |       | MinPt-CtCt  |               |
| 1516.51                                                                               | 140.77     | 1421.83  | 1375.74  | 16.42              |               | OSF1.50             | 9370.00              | 9331.15  |            |       |       | MinPt-EOU   |               |
| 1516.73                                                                               | 141.01     | 1421.88  | 1375.71  | 16.40              |               | OSF1.50             | 9390.00              | 9351.15  |            |       |       | MinPt-ADP   |               |
| 1517.99                                                                               | 142.67     | 1422.05  | 1375.33  | 16.22              |               | OSF1.50             | 9500.00              | 9461.15  |            |       |       | MinPt-EOU   |               |
| 1518.30                                                                               | 143.15     | 1422.03  | 1375.15  | 16.17              |               | OSF1.50             | 9543.39              | 9504.54  |            |       |       | MinPts      |               |
| 1523.71                                                                               | 144.09     | 1426.81  | 1379.62  | 16.12              |               | OSF1.50             | 9670.00              | 9630.12  |            |       |       | MinPt-SF    |               |
| 2804.54                                                                               | 145.16     | 2706.93  | 2659.38  | 29.46              |               | OSF1.50             | 12240.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2804.78                                                                               | 145.76     | 2706.77  | 2659.01  | 29.34              |               | OSF1.50             | 12290.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2802.30                                                                               | 149.87     | 2701.55  | 2652.43  | 28.50              |               | OSF1.50             | 12510.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2802.68                                                                               | 151.00     | 2701.18  | 2651.68  | 28.28              |               | OSF1.50             | 12590.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2803.75                                                                               | 153.09     | 2700.86  | 2650.66  | 27.90              |               | OSF1.50             | 12700.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2804.11                                                                               | 153.52     | 2700.93  | 2650.59  | 27.83              |               | OSF1.50             | 12730.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2805.01                                                                               | 164.11     | 2694.77  | 2640.90  | 26.01              |               | OSF1.50             | 13230.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2805.23                                                                               | 169.07     | 2691.69  | 2636.16  | 25.24              |               | OSF1.50             | 13460.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2721.50                                                                               | 206.72     | 2582.85  | 2514.78  | 19.97              |               | OSF1.50             | 15090.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2721.58                                                                               | 207.02     | 2582.74  | 2514.56  | 19.94              |               | OSF1.50             | 15110.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2721.69                                                                               | 207.17     | 2582.74  | 2514.52  | 19.93              |               | OSF1.50             | 15120.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2748.78                                                                               | 219.48     | 2601.63  | 2529.31  | 18.99              |               | OSF1.50             | 15470.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2749.16                                                                               | 219.94     | 2601.70  | 2529.22  | 18.95              |               | OSF1.50             | 15490.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2758.90                                                                               | 225.40     | 2607.79  | 2533.49  | 18.55              |               | OSF1.50             | 15700.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2808.51                                                                               | 248.63     | 2641.93  | 2559.89  | 17.10              |               | OSF1.50             | 16550.00             | 10100.00 |            |       |       | MinPts      |               |
| 2807.26                                                                               | 263.54     | 2630.75  | 2543.74  | 16.12              |               | OSF1.50             | 17080.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2808.13                                                                               | 266.25     | 2629.80  | 2541.89  | 15.96              |               | OSF1.50             | 17200.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2809.06                                                                               | 267.33     | 2630.01  | 2541.73  | 15.90              |               | OSF1.50             | 17250.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2812.85                                                                               | 271.24     | 2631.19  | 2541.61  | 15.69              |               | OSF1.50             | 17390.00             | 10100.00 |            |       |       | MinPt-ADP   |               |
| 2806.37                                                                               | 294.85     | 2608.97  | 2511.52  | 14.39              |               | OSF1.50             | 18150.00             | 10100.00 |            |       |       | MinPt-CtCt  |               |
| 2806.96                                                                               | 296.77     | 2608.27  | 2510.18  | 14.30              |               | OSF1.50             | 18240.00             | 10100.00 |            |       |       | MinPt-EOU   |               |
| 2807.65                                                                               | 297.60     | 2608.42  | 2510.05  | 14.26              |               | OSF1.50             | 18280.00             | 10100.00 |            |       | </    |             |               |

| Offset Trajectory                                                                        | Separation |          |          | Allow<br>Dev. (ft) | Sep.<br>Fact. | Controlling<br>Rule | Reference Trajectory |          | Risk Level |       |       | Alert      | Status |
|------------------------------------------------------------------------------------------|------------|----------|----------|--------------------|---------------|---------------------|----------------------|----------|------------|-------|-------|------------|--------|
|                                                                                          | Ct-Ct (ft) | MAS (ft) | EOU (ft) |                    |               |                     | MD (ft)              | TVD (ft) | Alert      | Minor | Major |            |        |
| 2089.03                                                                                  | 145.92     | 1990.91  | 1943.10  | 21.82              |               | OSF1.50             | 9670.00              | 9630.12  |            |       |       | MinPts     |        |
| 2097.89                                                                                  | 147.08     | 1999.00  | 1950.81  | 21.74              |               | OSF1.50             | 9850.00              | 9796.73  |            |       |       | MinPt-SF   |        |
| 3646.73                                                                                  | 159.10     | 3539.83  | 3487.63  | 34.91              |               | OSF1.50             | 12840.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 3646.61                                                                                  | 164.93     | 3535.82  | 3481.68  | 33.65              |               | OSF1.50             | 13110.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3645.13                                                                                  | 170.49     | 3530.64  | 3474.64  | 32.53              |               | OSF1.50             | 13390.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3634.43                                                                                  | 211.66     | 3392.49  | 3322.77  | 25.33              |               | OSF1.50             | 15190.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3535.44                                                                                  | 215.11     | 3391.20  | 3320.33  | 24.93              |               | OSF1.50             | 15310.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 3536.34                                                                                  | 216.17     | 3391.40  | 3320.18  | 24.81              |               | OSF1.50             | 15350.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 3643.91                                                                                  | 264.24     | 3466.92  | 3379.68  | 20.87              |               | OSF1.50             | 17120.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3643.78                                                                                  | 269.04     | 3463.59  | 3374.74  | 20.49              |               | OSF1.50             | 17290.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3643.87                                                                                  | 276.17     | 3458.93  | 3367.71  | 19.96              |               | OSF1.50             | 17540.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3645.63                                                                                  | 280.68     | 3457.67  | 3364.95  | 19.64              |               | OSF1.50             | 17730.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 3639.92                                                                                  | 297.50     | 3440.76  | 3342.42  | 18.50              |               | OSF1.50             | 18280.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3640.63                                                                                  | 299.64     | 3440.03  | 3340.99  | 18.37              |               | OSF1.50             | 18380.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 3642.18                                                                                  | 301.40     | 3440.42  | 3340.79  | 18.27              |               | OSF1.50             | 18460.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 3640.65                                                                                  | 328.82     | 3420.51  | 3311.73  | 16.72              |               | OSF1.50             | 19340.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3642.41                                                                                  | 334.11     | 3418.84  | 3308.31  | 16.46              |               | OSF1.50             | 19550.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 3648.36                                                                                  | 350.70     | 3413.73  | 3297.66  | 15.71              |               | OSF1.50             | 20070.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 3648.36                                                                                  | 350.73     | 3413.71  | 3297.63  | 15.70              |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | MinPts     |        |
| 30-025-40792 - DOS EQUIS '12' FEDERAL COM 3H - Gyro+MWD to 15227ft (DefinitiveSurvey)    |            |          |          |                    |               |                     |                      |          |            |       |       |            | Pass   |
| 521.23                                                                                   | 32.81      | 518.73   | 488.42   | 2255480.87         |               | MAS = 10.00 (m)     | 0.00                 | 0.00     |            |       |       | MinPts     |        |
| 521.26                                                                                   | 32.81      | 518.74   | 488.45   | 26692.96           |               | MAS = 10.00 (m)     | 23.00                | 23.00    |            |       |       | WRP        |        |
| 521.33                                                                                   | 32.81      | 518.74   | 488.52   | 5495.89            |               | MAS = 10.00 (m)     | 40.00                | 40.00    |            |       |       | MinPt-EOU  |        |
| 514.23                                                                                   | 32.81      | 498.31   | 481.42   | 38.12              |               | MAS = 10.00 (m)     | 1416.83              | 1416.83  |            |       |       | MinPts     |        |
| 514.50                                                                                   | 32.81      | 496.48   | 481.69   | 32.98              |               | MAS = 10.00 (m)     | 1630.00              | 1630.00  |            |       |       | MinPt-EOU  |        |
| 894.76                                                                                   | 75.05      | 843.89   | 819.71   | 18.45              |               | OSF1.50             | 5010.00              | 4986.34  |            |       |       | MinPt-SF   |        |
| 1085.35                                                                                  | 123.96     | 1001.88  | 961.40   | 13.37              |               | OSF1.50             | 9490.00              | 9451.15  |            |       |       | MinPt-CtCt |        |
| 1085.42                                                                                  | 124.20     | 1001.79  | 961.22   | 13.35              |               | OSF1.50             | 9520.00              | 9481.15  |            |       |       | MinPt-EOU  |        |
| 1085.56                                                                                  | 124.37     | 1001.81  | 961.19   | 13.33              |               | OSF1.50             | 9543.39              | 9504.54  |            |       |       | MinPt-ADP  |        |
| 1087.96                                                                                  | 124.83     | 1003.91  | 963.13   | 13.31              |               | OSF1.50             | 9660.00              | 9620.35  |            |       |       | MinPt-SF   |        |
| 1568.53                                                                                  | 139.05     | 1475.00  | 1429.48  | 17.20              |               | OSF1.50             | 11420.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 1568.53                                                                                  | 145.96     | 1470.39  | 1422.57  | 16.37              |               | OSF1.50             | 11720.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 1569.60                                                                                  | 148.71     | 1469.63  | 1420.89  | 16.08              |               | OSF1.50             | 11850.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 1573.76                                                                                  | 153.91     | 1470.32  | 1419.86  | 15.57              |               | OSF1.50             | 12060.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 1581.02                                                                                  | 165.86     | 1469.62  | 1415.16  | 14.49              |               | OSF1.50             | 12460.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 1581.53                                                                                  | 166.47     | 1469.72  | 1415.06  | 14.45              |               | OSF1.50             | 12490.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 1691.40                                                                                  | 189.44     | 1464.27  | 1401.96  | 12.75              |               | OSF1.50             | 13170.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 1592.00                                                                                  | 192.15     | 1463.07  | 1399.85  | 12.57              |               | OSF1.50             | 13270.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 1592.79                                                                                  | 193.11     | 1463.21  | 1399.68  | 12.51              |               | OSF1.50             | 13310.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 1495.28                                                                                  | 236.16     | 1337.01  | 1259.12  | 9.58               |               | OSF1.50             | 14650.00             | 10100.00 |            |       |       | MinPt-SF   |        |
| 1494.49                                                                                  | 235.92     | 1336.37  | 1258.57  | 9.59               |               | OSF1.50             | 14690.00             | 10100.00 |            |       |       | MinPts     |        |
| 1494.46                                                                                  | 235.85     | 1336.39  | 1258.61  | 9.59               |               | OSF1.50             | 14700.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 5751.30                                                                                  | 165.55     | 5640.10  | 5585.75  | 52.89              |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | TD         |        |
| 30-025-41182 - Bell Lake 24 Fed 1H - MWD to 15784ft - A (DefinitiveSurvey)               |            |          |          |                    |               |                     |                      |          |            |       |       |            | Pass   |
| 15378.12                                                                                 | 120.88     | 15296.70 | 15257.24 | 194.83             |               | OSF1.50             | 0.00                 | 0.00     |            |       |       | Surface    |        |
| 15361.65                                                                                 | 120.96     | 15280.18 | 15240.69 | 194.48             |               | OSF1.50             | 23.00                | 23.00    |            |       |       | WRP        |        |
| 1012.20                                                                                  | 261.31     | 837.16   | 750.88   | 5.85               |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | MinPts     |        |
| 30-025-45416 - DOS EQUIS 13 FEDERAL COM 9H - Corrected MWD to 15788ft (DefinitiveSurvey) |            |          |          |                    |               |                     |                      |          |            |       |       |            | Pass   |
| 5338.43                                                                                  | 32.81      | 5336.62  | 5305.62  | #####              |               | MAS = 10.00 (m)     | 0.00                 | 0.00     |            |       |       | MinPts     |        |
| 5338.43                                                                                  | 32.81      | 5336.60  | 5305.62  | 186267.95          |               | MAS = 10.00 (m)     | 23.00                | 23.00    |            |       |       | WRP        |        |
| 5340.04                                                                                  | 32.81      | 5333.10  | 5307.23  | 1039.71            |               | MAS = 10.00 (m)     | 760.00               | 760.00   |            |       |       | MinPts     |        |
| 5340.01                                                                                  | 32.81      | 5331.00  | 5307.20  | 741.51             |               | MAS = 10.00 (m)     | 1060.00              | 1060.00  |            |       |       | MinPts     |        |
| 5339.95                                                                                  | 32.81      | 5330.13  | 5307.14  | 666.26             |               | MAS = 10.00 (m)     | 1170.00              | 1170.00  |            |       |       | MinPt-EOU  |        |
| 5306.18                                                                                  | 39.06      | 5279.58  | 5267.12  | 212.86             |               | OSF1.50             | 3490.00              | 3477.66  |            |       |       | MinPt-CtCt |        |
| 5299.30                                                                                  | 52.03      | 5264.05  | 5247.27  | 157.83             |               | OSF1.50             | 4590.00              | 4569.47  |            |       |       | MinPt-CtCt |        |
| 5299.16                                                                                  | 55.21      | 5261.80  | 5243.95  | 148.44             |               | OSF1.50             | 4860.00              | 4837.46  |            |       |       | MinPt-CtCt |        |
| 5298.80                                                                                  | 56.74      | 5260.41  | 5242.06  | 144.28             |               | OSF1.50             | 4990.00              | 4966.49  |            |       |       | MinPt-EOU  |        |
| 5298.74                                                                                  | 57.36      | 5259.98  | 5241.38  | 142.42             |               | OSF1.50             | 5050.00              | 5026.05  |            |       |       | MinPt-CtCt |        |
| 5280.67                                                                                  | 73.70      | 5231.02  | 5206.97  | 109.75             |               | OSF1.50             | 6400.00              | 6365.99  |            |       |       | MinPt-CtCt |        |
| 5281.04                                                                                  | 74.70      | 5230.71  | 5206.34  | 108.32             |               | OSF1.50             | 6480.00              | 6445.40  |            |       |       | MinPt-EOU  |        |
| 5281.77                                                                                  | 75.56      | 5230.86  | 5206.21  | 107.10             |               | OSF1.50             | 6550.00              | 6514.88  |            |       |       | MinPt-ADP  |        |
| 5283.84                                                                                  | 77.60      | 5231.57  | 5206.23  | 104.24             |               | OSF1.50             | 6720.00              | 6683.61  |            |       |       | MinPt-ADP  |        |
| 5340.46                                                                                  | 101.57     | 5272.24  | 5238.89  | 80.06              |               | OSF1.50             | 9040.00              | 9001.15  |            |       |       | MinPt-EOU  |        |
| 5340.21                                                                                  | 102.92     | 5271.08  | 5237.29  | 78.99              |               | OSF1.50             | 9170.00              | 9131.15  |            |       |       | MinPt-CtCt |        |
| 1145.13                                                                                  | 157.81     | 1039.41  | 987.32   | 10.98              |               | OSF1.50             | 15129.80             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 1145.19                                                                                  | 157.98     | 1039.36  | 987.22   | 10.97              |               | OSF1.50             | 15140.00             | 10100.00 |            |       |       | MinPts     |        |
| 1148.14                                                                                  | 158.81     | 1041.75  | 989.32   | 10.94              |               | OSF1.50             | 15200.00             | 10100.00 |            |       |       | MinPt-SF   |        |
| 1538.95                                                                                  | 169.89     | 1425.18  | 1369.07  | 13.70              |               | OSF1.50             | 16040.00             | 10100.00 |            |       |       | MinPts     |        |
| 1607.33                                                                                  | 187.08     | 1482.10  | 1420.23  | 12.98              |               | OSF1.50             | 16830.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 1609.94                                                                                  | 191.02     | 1482.08  | 1418.92  | 12.73              |               | OSF1.50             | 17000.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 1610.80                                                                                  | 192.11     | 1482.21  | 1418.69  | 12.67              |               | OSF1.50             | 17050.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 1598.24                                                                                  | 216.62     | 1451.32  | 1379.62  | 11.12              |               | OSF1.50             | 18070.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 1596.47                                                                                  | 217.45     | 1451.00  | 1379.03  | 11.08              |               | OSF1.50             | 18110.00             | 10100.00 |            |       |       | MinPt-EOU  |        |
| 1596.79                                                                                  | 217.85     | 1451.04  | 1378.93  | 11.06              |               | OSF1.50             | 18130.00             | 10100.00 |            |       |       | MinPt-ADP  |        |
| 1599.10                                                                                  | 268.81     | 1419.38  | 1330.29  | 8.97               |               | OSF1.50             | 20070.00             | 10100.00 |            |       |       | MinPt-CtCt |        |
| 1599.10                                                                                  | 268.85     | 1419.36  | 1330.26  | 8.96               |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | MinPts     |        |
| 30-025-41304 - Bell Lake 24 Fed 4H - MWD to 15872ft - A (DefinitiveSurvey)               |            |          |          |                    |               |                     |                      |          |            |       |       |            | Pass   |
| 15430.26                                                                                 | 131.12     | 15342.02 | 15299.15 | 179.93             |               | OSF1.50             | 0.00                 | 0.00     |            |       |       | Surface    |        |
| 15413.72                                                                                 | 131.21     | 15325.41 | 15282.51 | 179.61             |               | OSF1.50             | 23.00                | 23.00    |            |       |       | WRP        |        |
| 1575.77                                                                                  | 319.52     | 1361.93  | 1256.26  | 7.44               |               | OSF1.50             | 20072.02             | 10100.00 |            |       |       | MinPts     |        |
| 30-025-08146 - FEDERAL-HANAGAN 3 - INC Only to 5049ft (DefinitiveSurvey)                 |            |          |          |                    |               |                     |                      |          |            |       |       |            | Pass   |
| 1952.65                                                                                  | 32.81      | 1950.84  | 1919.84  | N/A                |               | MAS = 10.00 (m)     | 0.00                 | 0.00     |            |       |       | Surface    |        |
| 1952.54                                                                                  | 32.81      | 1950.71  | 1919.73  | 117658.77          |               | MAS = 10.00 (m)     | 10.00                | 10.00    |            |       |       | MinPt-SF   |        |
| 1952.47                                                                                  | 32.81      | 1950.66  | 1919.66  | 246737.83          |               | MAS = 10.00 (m)     | 23.00                | 23.00    |            |       |       | WRP        |        |
| 1753.69                                                                                  | 322.21     | 1538.28  | 1431.48  | 8.20               |               | OSF1.50             | 5150.00              | 5125.30  |            |       |       | MinPt-SF   |        |
| 1753.42                                                                                  | 322.13     | 1538.06  | 1431.28  | 8.20               |               | OSF1.50             | 5170.00              | 5145.15  | </         |       |       |            |        |

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

CONDITIONS  
  
Action 321101

CONDITIONS

|                                                                             |                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>CIMAREX ENERGY CO.<br>6001 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>215099                                     |
|                                                                             | Action Number:<br>321101                             |
|                                                                             | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| pkautz     | None      | 5/3/2024       |