

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: CO 4 33 FEDERAL	Well Location: T25S / R32E / SEC 4 / SWSE / 32.155263 / -103.679908	County or Parish/State: LEA / NM
Well Number: 621H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM054031	Unit or CA Name: COTTON DRAW UNIT	Unit or CA Number: NMNM70928X
US Well Number: 3002553563	Operator: CHEVRON USA INCORPORATED	

Notice of Intent

Sundry ID: 2905507

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/09/2026

Time Sundry Submitted: 02:14

Date proposed operation will begin: 04/09/2026

Procedure Description: Chevron U.S.A. Inc. is proposing to sundry CO 4 33 FEDERAL 621H in Cotton Draw to revise the well names, C102s, 9-point plans and directional drilling plan. Please note that some of the changes below have already been approved by the BLM but due to NMOCD records these changes need to be explicitly called out and approved by the BLM again. Well Name Change Current BLM Name: CO 4 33 FEDERAL 621H Current NMOCD Name: CO 4 33 FEDERAL 303H New BLM/NMOCD Name: CO 4 33 FEDERAL 621H Note: (the current NMOCD name is being included to correct NMOCD records) C102 changes Pool Code: Changing 96715 to 98270 Pool Name: Changing WC-025 G-06 S253209L; Bone Spring to WC-025 G-08 S253216D; Upper Wolfcamp Well Number: 303H to 621H Surface Hole Location: Changing the south call from 1117' to 1110' and the east call from 2643' to 2620' Bottom Hole Location: Changing the east call from 1380' to 1870' Dedicated Acreage: 480 to 478.75 Defining Well: Changing 30-025-49757 to 30-025-53533 Kick off Point: Added KOP - 2068' from the south and 1870' from the east of Section 4, T25S-R32E First Take Point: Changing from 2615' from the north and 1380' from the east of Section 4, T25S-R32E to 2614' from the north and 1870' from the east of Section 4, T25S-R32E Last Take Point: Changing from 100' from the north and 1430' from the West of Section 34, T24S-R32E to 100' from the south and 1650' from the west of Section 15, T25S-R32E 9-Point Plan Change from SH 1.0 to SH 2.0 casing design: all casing sizes change except Surface Change the Production liner to 5" 13#. The 5" 13# will be kept full while running to mitigate the full evacuation collapse load. Requesting approval of the 5.5" 17# contingency casing in the event the 5" 13# has challenges getting to TD. Change Surface Casing Depth from 1,100 MD/TVD to 1,072' MD/TVD per updated geologic tops Updated Directional Drilling Plan Please see attached C102, 9 point drill plans, directional drill plan and Sundry Information

Well Name: CO 4 33 FEDERAL

Well Location: T25S / R32E / SEC 4 / SWSE / 32.155263 / -103.679908

County or Parish/State: LEA / NM

Well Number: 621H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM054031

Unit or CA Name: COTTON DRAW UNIT

Unit or CA Number: NMNM70928X

US Well Number: 3002553563

Operator: CHEVRON USA INCORPORATED

NOI Attachments

Procedure Description

- CO_4_33_FEDERAL_621H_Sundry__1__20260409141401.pdf
- CO_4_33_Federal_Com_No_621H_P4_R1_Proposal_20260409141349.pdf
- CO_4_33_FEDERAL__621H_9_PT_Plan_14Jan261_20260409141333.pdf
- CO_4_33_FEDERAL_621H_C102_R3__signed_20260409141321.pdf

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: CINDY HERRERA-MURILLO

Signed on: APR 09, 2026 02:14 PM

Name: CHEVRON USA INCORPORATED

Title: Permitting Specialist

Street Address: 1616 W BENDER BLVD

City: HOBBS **State:** NM

Phone: (575) 263-0431

Email address: CHERRERAMURILLO@CHEVRON.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 04/16/2026

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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.	NMNM054031
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. COTTON DRAW UNIT/NMNM70928X
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. CO 4 33 FEDERAL/621H	
2. Name of Operator CHEVRON USA INCORPORATED	9. API Well No. 3002553563	
3a. Address PO BOX 1392, BAKERSFIELD, CA 93302	3b. Phone No. (include area code) (661) 633-4000	10. Field and Pool or Exploratory Area WC-025-G-08 S253216D/UPPER WOLFCAMP
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 4/T25S/R32E/NMP		11. Country or Parish, State LEA/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 checked="" 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or 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 determined that the site is ready for final inspection.)

Chevron U.S.A. Inc. is proposing to sundry CO 4 33 FEDERAL 621H in Cotton Draw to revise the well names, C102s, 9-point plans and directional drilling plan. Please note that some of the changes below have already been approved by the BLM but due to NMOCD records these changes need to be explicitly called out and approved by the BLM again.

Well Name Change

Current BLM Name: CO 4 33 FEDERAL 621H

Current NMOCD Name: CO 4 33 FEDERAL 303H

New BLM/NMOCD Name: CO 4 33 FEDERAL 621H

Note: (the current NMOCD name is being included to correct NMOCD records)

C102 changes

Pool Code: Changing 96715 to 98270

Pool Name: Changing WC-025 G-06 S253209L; Bone Spring to WC-025 G-08 S253216D; Upper Wolfcamp

Well Number: 303H to 621H

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) CINDY HERRERA-MURILLO / Ph: (575) 263-0431	Title Permitting Specialist
Signature (Electronic Submission)	Date 04/09/2026

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 04/16/2026
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

Surface Hole Location: Changing the south call from 1117 to 1110 and the east call from 2643 to 2620

Bottom Hole Location: Changing the east call from 1380 to 1870

Dedicated Acreage: 480 to 478.75

Defining Well: Changing 30-025-49757 to 30-025-53533

Kick off Point: Added KOP - 2068 from the south and 1870 from the east of Section 4, T25S-R32E

First Take Point: Changing from 2615 from the north and 1380 from the east of Section 4, T25S-R32E to 2614 from the north and 1870 from the east of Section 4, T25S-R32E

Last Take Point: Changing from 100 from the north and 1430 from the West of Section 34, T24S-R32E to 100 from the south and 1650 from the west of Section 15, T25S-R32E

9-Point Plan

Change from SH 1.0 to SH 2.0 casing design: all casing sizes change except Surface

Change the Production liner to 5" 13#. The 5" 13# will be kept full while running to mitigate the full evacuation collapse load.

Requesting approval of the 5.5" 17# contingency casing in the event the 5" 13# has challenges getting to TD.

Change Surface Casing Depth from 1,100 MD/TVD to 1,072 MD/TVD per updated geologic tops

Updated Directional Drilling Plan

Please see attached C102, 9 point drill plans, directional drill plan and Sundry Information

Location of Well

0. SHL: SWSE / 1110 FSL / 2620 FEL / TWSP: 25S / RANGE: 32E / SECTION: 4 / LAT: 32.155263 / LONG: -103.679908 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2614 FNL / 1870 FEL / TWSP: 25S / RANGE: 32E / SECTION: 4 / LAT: 32.159548 / LONG: -103.675709 (TVD: 10250 feet, MD: 10835 feet)

BHL: NWNE / 25 FNL / 1870 FEL / TWSP: 24S / RANGE: 32E / SECTION: 33 / LAT: 32.181182 / LONG: -103.675521 (TVD: 10250 feet, MD: 18711 feet)

CHEVRON U.S.A. INC.
CO 4 33 FEDERAL 621H (API #30-025-53563)
SECTION 4, T25S-R32E, LEA COUNTY, NM

Sundry

Proposed Sundry

Chevron U.S.A. Inc. is proposing to sundry CO 4 33 FEDERAL 621H in Cotton Draw to revise the well names, C102s, 9-point plans and directional drilling plan. Please note that some of the changes below have already been approved by the BLM but due to NMOCD records these changes need to be explicitly called out and approved by the BLM again.

Sundry Details

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- o **C102 changes**
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- o **9-Point Plan**
 - o Change from SH 1.0 to SH 2.0 casing design: all casing sizes change except Surface

CHEVRON U.S.A. INC.
CO 4 33 FEDERAL 621H (API #30-025-53563)
SECTION 4, T25S-R32E, LEA COUNTY, NM

- Change the Production liner to 5" 13#. The 5" 13# will be kept full while running to mitigate the full evacuation collapse load.
- Requesting approval of the 5.5" 17# contingency casing in the event the 5" 13# has challenges getting to TD.
- Change Surface Casing Depth from 1,100 MD/TVD to 1,072' MD/TVD per updated geologic tops
- **Updated Directional Drilling Plan**

Chevron Contacts

Surface Land

Taylor Ward

taylorward@chevron.com

M – 432-634-9467

Subsurface Land

Nick Angelle

nicholasangelle@chevron.com

M – 281-382-1672

Wells/Engineering

Austin White

austin.white@chevron.com

M – 713-903-5278

Regulatory/Permitting

Cindy Herrera-Murillo

cherreramurillo@chevron.com

M – 575-263-0431



Chevron USA, Inc.

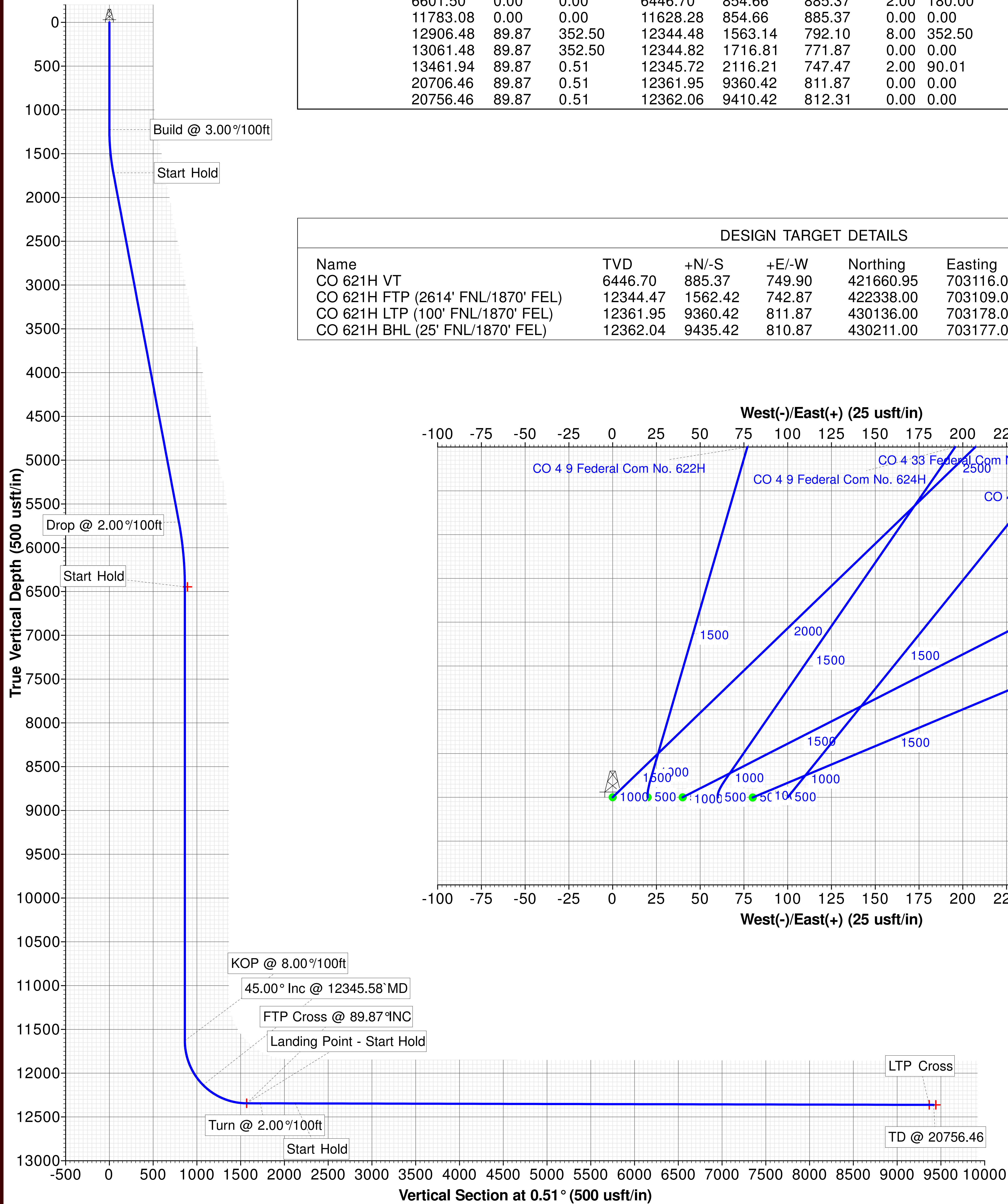
Project: Lea County, NM (NAD27 NME)
 Site: CO Pad 621
 Well: CO 4 33 Federal Com No. 621H
 Wellbore: OH - 53563
 Design: Plan 4 R1
 Rig: Patterson 815

Map System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone Name: New Mexico East 3001

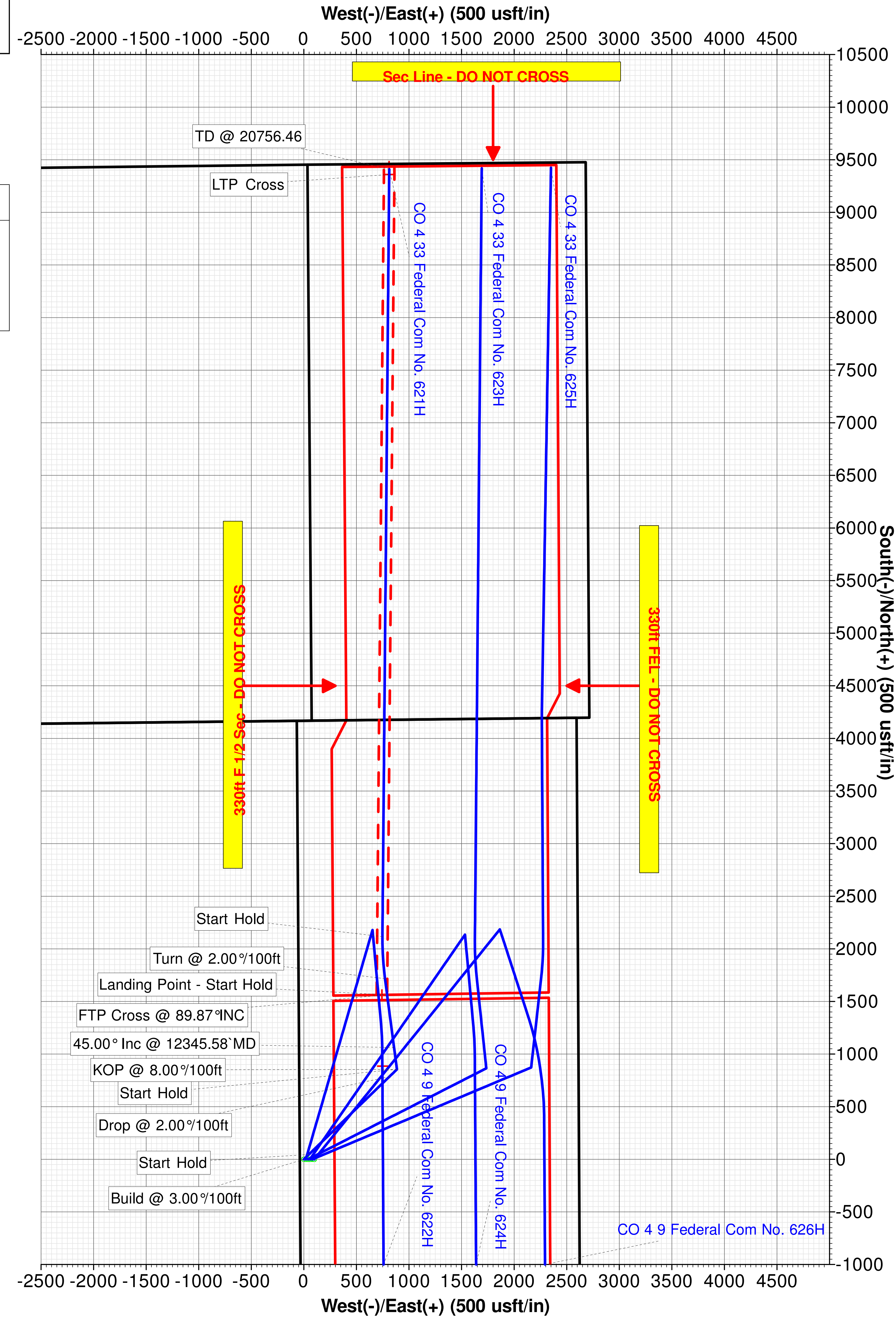
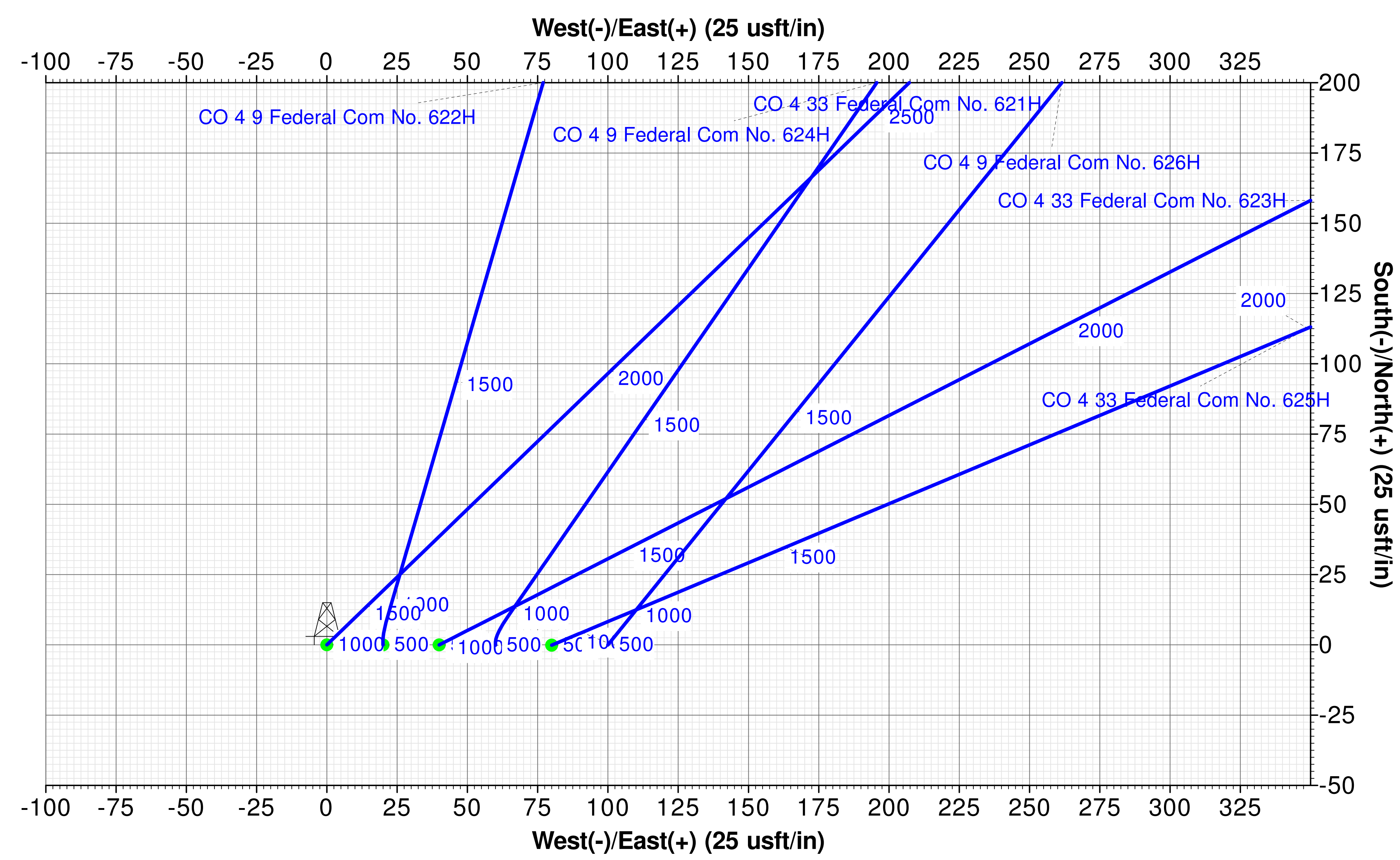
North
 T G M
 Azimuths to Grid North
 True North: -0.35°
 Magnetic North: 5.84°
 Magnetic Field
 Strength: 47078.6nT
 Dip Angle: 59.64°
 Date: 3/1/2026
 Model: BGM2025

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1225.00	0.00	0.00	1225.00	0.00	0.00	0.00	0.00	0.00	Build @ 3.00%/100ft
1724.94	15.00	46.01	1719.25	45.19	46.81	3.00	46.01	45.60	Start Hold
5851.60	15.00	46.01	5705.33	786.88	815.16	0.00	0.00	794.11	Drop @ 2.00%/100ft
6601.50	0.00	0.00	6446.70	854.66	885.37	2.00	180.00	862.51	Start Hold
11783.08	0.00	0.00	11628.28	854.66	885.37	0.00	0.00	862.51	KOP @ 8.00%/100ft
12906.48	89.87	352.50	12344.48	1563.14	792.10	8.00	352.50	1570.13	FTP Cross @ 89.87°INC
13061.48	89.87	352.50	12344.82	1716.81	771.87	0.00	0.00	1723.62	Turn @ 2.00%/100ft
13461.94	89.87	0.51	12345.72	2116.21	747.47	2.00	90.01	2122.78	Start Hold
20706.46	89.87	0.51	12361.95	9360.42	811.87	0.00	0.00	9367.28	LTP Cross
20756.46	89.87	0.51	12362.06	9410.42	812.31	0.00	0.00	9417.28	TD @ 20756.46

WELL DETAILS					
GL 3469ft + RKB 28.5ft @ 3497.50usft (Patterson 815)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	420775.58	702366.13	32° 9' 18.50 N	103° 40' 45.95 W



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CO 621H VT	6446.70	885.37	749.90	421660.95	703116.03	32° 9' 27.22 N	103° 40' 37.17 W
CO 621H FTP (2614' FNL/1870' FEL)	12344.47	1562.42	742.87	422338.00	703109.00	32° 9' 33.92 N	103° 40' 37.20 W
CO 621H LTP (100' FNL/1870' FEL)	12361.95	9360.42	811.87	430136.00	703178.00	32° 10' 51.08 N	103° 40' 35.84 W
CO 621H BHL (25' FNL/1870' FEL)	12362.04	9435.42	810.87	430211.00	703177.00	32° 10' 51.82 N	103° 40' 35.85 W





CO Pad 621

PROJECT DETAILS: Lea County, NM (NAD27 NME)

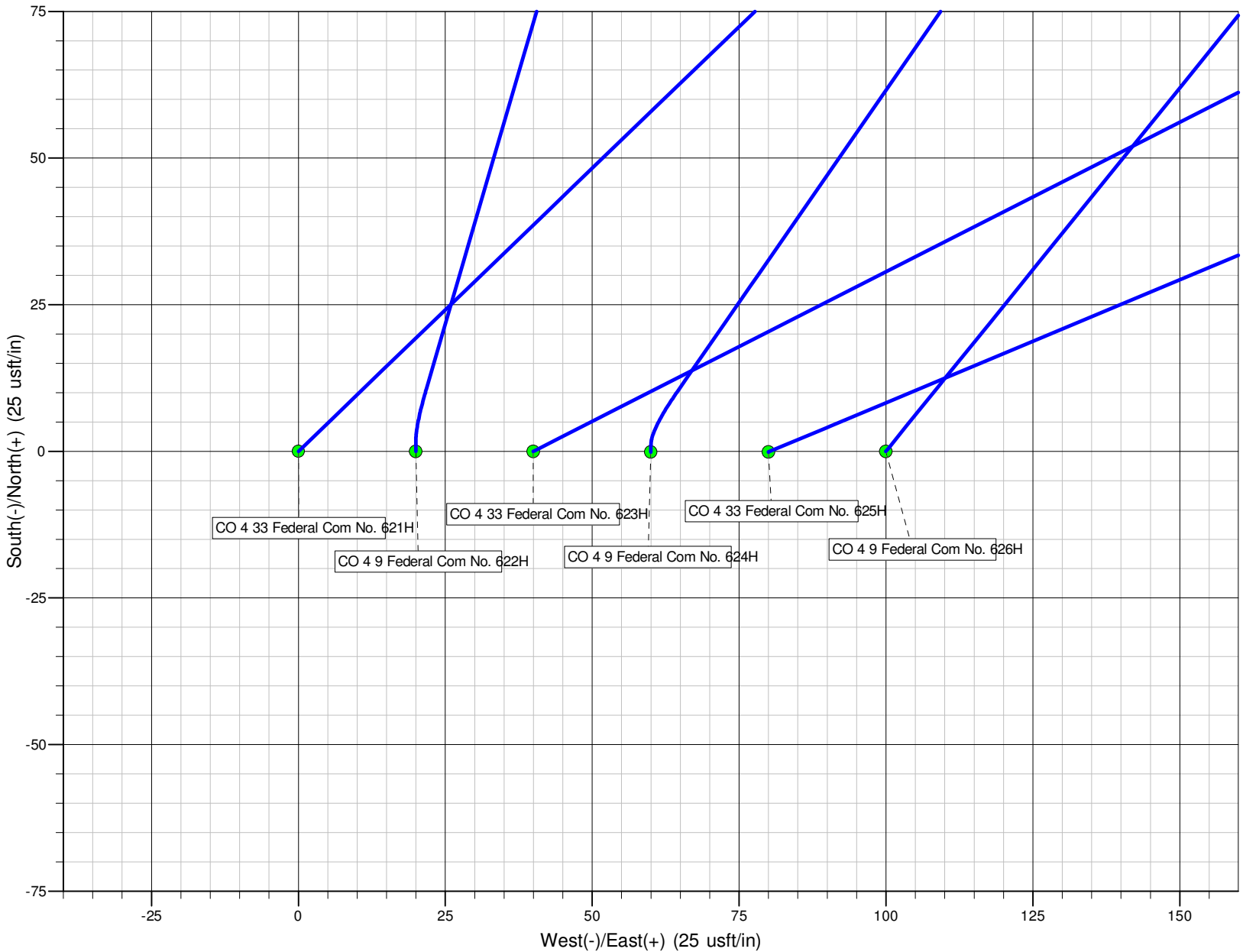
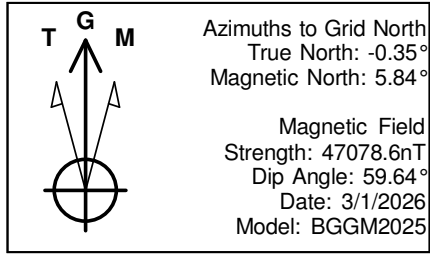
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

SITE DETAILS: CO Pad 621

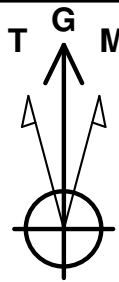
Site Centre Northing: 420775.58
Easting: 702366.13

Positional Uncertainty: 5.00
Convergence: 0.35
Local North: Grid





CO Pad 621

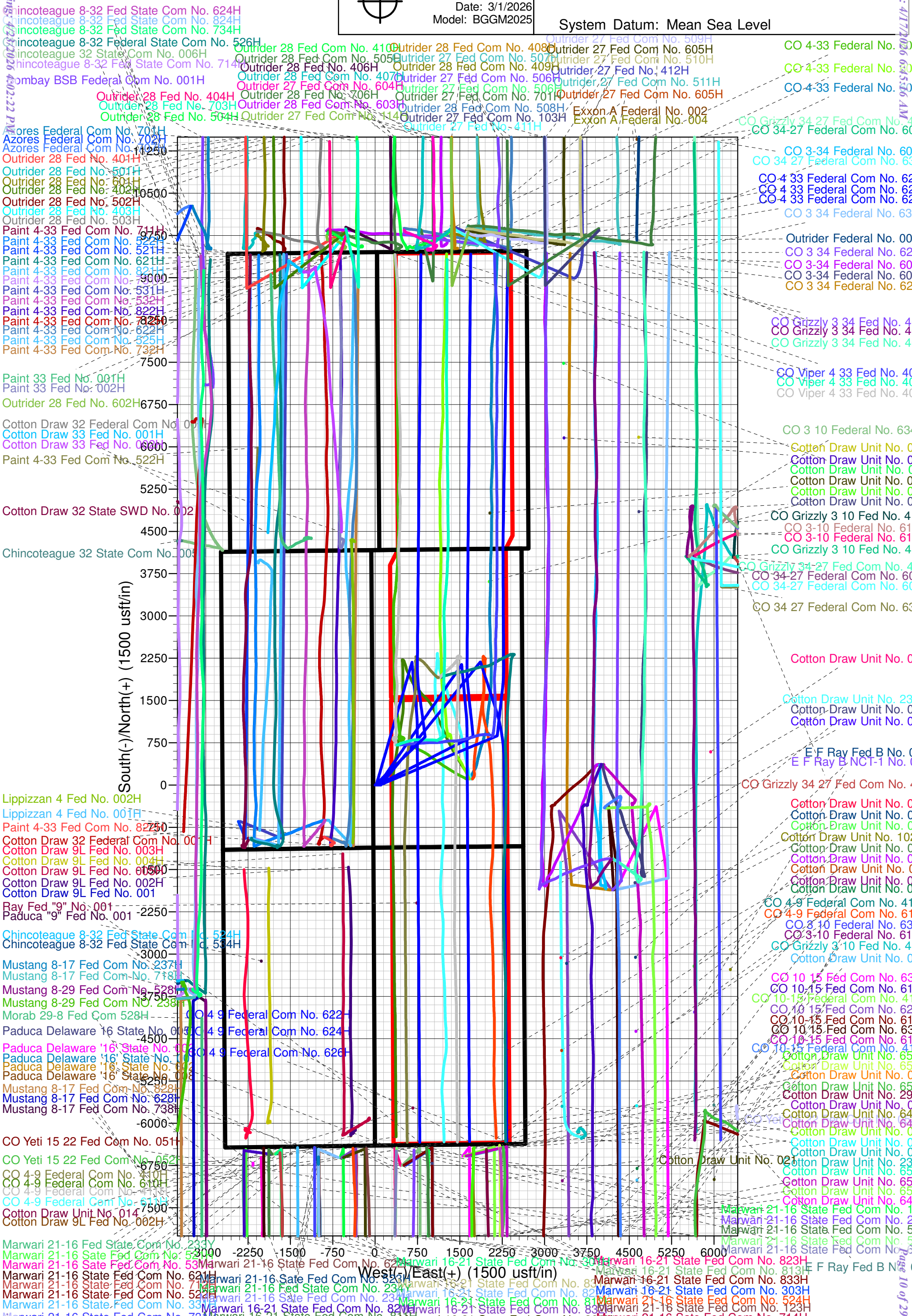


Azimuths to Grid North
 True North: -0.35°
 Magnetic North: 5.84°
 Strength: 47078.6nT
 Dip Angle: 59.64°
 Date: 3/1/2026
 Model: BGGM2025

PROJECT DETAILS: Lea County, NM (NAD27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001

System Datum: Mean Sea Level



Chincoteague 8-32 Fed State Com No. 624H
 Chincoteague 8-32 Fed State Com No. 824H
 Chincoteague 8-32 Fed State Com No. 734H
 Chincoteague 8-32 Federal State Com No. 526H
 Chincoteague 32 State Com No. 006H
 Chincoteague 8-32 Fed State Com No. 714H
 Bombay BSB Federal Com No. 001H
 Azores Federal Com No. 701H
 Azores Federal Com No. 702H
 Azores Federal Com No. 703H
 Outrider 28 Fed No. 401H
 Outrider 28 Fed No. 501H
 Outrider 28 Fed No. 601H
 Outrider 28 Fed No. 402H
 Outrider 28 Fed No. 502H
 Outrider 28 Fed No. 403H
 Outrider 28 Fed No. 503H
 Paint 4-33 Fed Com No. 611H
 Paint 4-33 Fed Com No. 521H
 Paint 4-33 Fed Com No. 521H
 Paint 4-33 Fed Com No. 621H
 Paint 4-33 Fed Com No. 821H
 Paint 4-33 Fed Com No. 900H
 Paint 4-33 Fed Com No. 531H
 Paint 4-33 Fed Com No. 532H
 Paint 4-33 Fed Com No. 822H
 Paint 4-33 Fed Com No. 822H
 Paint 4-33 Fed Com No. 622H
 Paint 4-33 Fed Com No. 525H
 Paint 4-33 Fed Com No. 732H
 Paint 33 Fed No. 001H
 Paint 33 Fed No. 002H
 Outrider 28 Fed No. 602H
 Cotton Draw 32 Federal Com No. 001H
 Cotton Draw 33 Fed No. 001H
 Cotton Draw 33 Fed No. 002H
 Paint 4-33 Fed Com No. 522H
 Cotton Draw 32 State SWD No. 002
 Chincoteague 32 State Com No. 001H
 Lippizzan 4 Fed No. 002H
 Lippizzan 4 Fed No. 001H
 Paint 4-33 Fed Com No. 822H
 Cotton Draw 32 Federal Com No. 001H
 Cotton Draw 9L Fed No. 003H
 Cotton Draw 9L Fed No. 004H
 Cotton Draw 9L Fed No. 015H
 Cotton Draw 9L Fed No. 002H
 Cotton Draw 9L Fed No. 001
 Ray Fed "9" No. 001
 Paduca "9" Fed No. 001
 Chincoteague 8-32 Fed State Com No. 524H
 Chincoteague 8-32 Fed State Com No. 534H
 Mustang 8-17 Fed Com No. 237H
 Mustang 8-17 Fed Com No. 718H
 Mustang 8-29 Fed Com No. 528H
 Mustang 8-29 Fed Com No. 238H
 Morab 29-8 Fed Com 528H
 Paduca Delaware '16' State No. 003H
 Paduca Delaware '16' State No. 002H
 Paduca Delaware '16' State No. 001H
 Paduca Delaware '16' State No. 002H
 Mustang 8-17 Fed Com No. 828H
 Mustang 8-17 Fed Com No. 628H
 Mustang 8-17 Fed Com No. 738H
 CO Yeti 15 22 Fed Com No. 051H
 CO Yeti 15 22 Fed Com No. 052H
 CO 4-9 Federal Com No. 610H
 CO 4-9 Federal Com No. 610H
 CO 4-9 Federal Com No. 611H
 Cotton Draw Unit No. 014
 Cotton Draw 9L Fed No. 002H
 Marwari 21-16 Fed State Com No. 233H
 Marwari 21-16 Sate Fed Com No. 530H
 Marwari 21-16 Sate Fed Com No. 533H
 Marwari 21-16 State Fed Com No. 621H
 Marwari 21-16 State Fed Com No. 714H
 Marwari 21-16 State Fed Com No. 522H
 Marwari 21-16 State Fed Com No. 333H
 Marwari 21-16 State Fed Com No. 733H
 Marwari 21-16 State Fed Com No. 823H
 Marwari 21-16 State Fed Com No. 823H
 Marwari 21-16 State Fed Com No. 833H
 Marwari 21-16 State Fed Com No. 123H
 Marwari 21-16 State Fed Com No. 733H
 Marwari 21-16 State Fed Com No. 833H
 Marwari 21-16 State Fed Com No. 302H
 Marwari 21-16 State Fed Com No. 714H

Outrider 27 Fed Com No. 509H
 Outrider 28 Fed Com No. 410H
 Outrider 28 Fed Com No. 505H
 Outrider 28 Fed Com No. 406H
 Outrider 28 Fed Com No. 407H
 Outrider 27 Fed Com No. 604H
 Outrider 27 Fed No. 706H
 Outrider 28 Fed No. 703H
 Outrider 28 Fed No. 504H
 Outrider 28 Fed Com No. 408H
 Outrider 27 Fed Com No. 507H
 Outrider 27 Fed Com No. 409H
 Outrider 27 Fed Com No. 506H
 Outrider 27 Fed Com No. 506H
 Outrider 27 Fed Com No. 701H
 Outrider 28 Fed Com No. 508H
 Outrider 27 Fed Com No. 103H
 Outrider 27 Fed No. 411H

CO 4-33 Federal No. 001H
 CO 4-33 Federal No. 002H
 CO 4-33 Federal No. 003H
 CO Grizzly 34 27 Fed Com No. 401H
 CO 34-27 Federal Com No. 607H
 CO 3-34 Federal No. 605H
 CO 34 27 Federal Com No. 633H
 CO 4 33 Federal Com No. 621H
 CO 4 33 Federal Com No. 623H
 CO 4 33 Federal Com No. 625H
 CO 3 34 Federal No. 631H
 Outrider Federal No. 006H
 CO 3 34 Federal No. 629H
 CO 3-34 Federal No. 604H
 CO 3-34 Federal No. 606H
 CO 3 34 Federal No. 627H
 CO Grizzly 3 34 Fed No. 401H
 CO Grizzly 3 34 Fed No. 402H
 CO Grizzly 3 34 Fed No. 403H
 CO Viper 4 33 Fed No. 403H
 CO Viper 4 33 Fed No. 402H
 CO Viper 4 33 Fed No. 401H
 CO 3 10 Federal No. 634H
 Cotton Draw Unit No. 06H
 Cotton Draw Unit No. 07H
 Cotton Draw Unit No. 07H
 Cotton Draw Unit No. 07H
 Cotton Draw Unit No. 07H
 CO Grizzly 3 10 Fed No. 411H
 CO 3-10 Federal No. 617H
 CO 3-10 Federal No. 618H
 CO Grizzly 3 10 Fed No. 411H
 CO Grizzly 34 27 Fed Com No. 401H
 CO 34-27 Federal Com No. 608H
 CO 34-27 Federal Com No. 609H
 CO 34 27 Federal Com No. 633H
 Cotton Draw Unit No. 04H
 Cotton Draw Unit No. 237H
 Cotton Draw Unit No. 04H
 Cotton Draw Unit No. 06H
 E F Ray Fed B No. 001H
 E F Ray B NCT-1 No. 001H
 CO Grizzly 34 27 Fed Com No. 401H
 Cotton Draw Unit No. 03H
 Cotton Draw Unit No. 06H
 Cotton Draw Unit No. 06H
 Cotton Draw Unit No. 102H
 Cotton Draw Unit No. 05H
 Cotton Draw Unit No. 02H
 Cotton Draw Unit No. 02H
 Cotton Draw Unit No. 02H
 Cotton Draw Unit No. 07H
 CO 4-9 Federal Com No. 412H
 CO 4-9 Federal Com No. 612H
 CO 3-10 Federal No. 634H
 CO 3-10 Federal No. 616H
 CO Grizzly 3 10 Fed No. 411H
 Cotton Draw Unit No. 001H
 CO 10 15 Fed Com No. 632H
 CO 10-15 Fed Com No. 614H
 CO 10-15 Federal Com No. 415H
 CO 10-15 Fed Com No. 628H
 CO 10-15 Fed Com No. 613H
 CO 10-15 Fed Com No. 630H
 CO 10-15 Fed Com No. 615H
 CO 10-15 Federal Com No. 414H
 Cotton Draw Unit No. 653H
 Cotton Draw Unit No. 655H
 Cotton Draw Unit No. 003H
 Cotton Draw Unit No. 654H
 Cotton Draw Unit No. 298H
 Cotton Draw Unit No. 09H
 Cotton Draw Unit No. 647H
 Cotton Draw Unit No. 648H
 Cotton Draw Unit No. 01H
 Cotton Draw Unit No. 01H
 Cotton Draw Unit No. 001H
 Cotton Draw Unit No. 001H
 Cotton Draw Unit No. 237H
 Cotton Draw Unit No. 652H
 Cotton Draw Unit No. 652H
 Cotton Draw Unit No. 650H
 Cotton Draw Unit No. 649H
 Marwari 21-16 State Fed Com No. 12H
 Marwari 21-16 State Fed Com No. 23H
 Marwari 21-16 State Fed Com No. 52H
 Marwari 21-16 State Fed Com No. 52H
 Marwari 21-16 State Fed Com No. 52H
 Marwari 21-16 State Fed Com No. 52H
 E F Ray Fed B No. 001H

Released to Imaging: 4/23/2026 4:02:22 PM
 Released by OCD: 4/17/2026 6:45:36 AM
 Page 10 of 29

Patterson 815

Chevron USA, Inc.

Lea County, NM (NAD27 NME) CO Pad 621

API# 30-025-53563

CO 4 33 Federal Com No. 621H

OH - 53563

Plan: Plan 4 R1

Sperry Drilling Services

Combo Report

10 February, 2026

Well Coordinates: 32° 9' 18.50 N
103° 40' 45.95 W

NAD 1927 (NADCON CONUS)
New Mexico East 3001
420,775.58 N
702,366.13 E

Ground Level: 3,469.00 usft

Local Coordinate Origin:

Centered on Well CO 4 33 Federal Com No. 621H

Viewing Datum:

GL 3469ft + RKB 28.5ft @ 3497.50usft (Patterson 815)

TVDs to System:

N

North Reference:

Grid

Unit System:

API-US Survey Feet

Compass Version: 5000.17 Build: 04

Report Version: Midcon Combo v1.15

HALLIBURTON

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
0.00	0.00	0.00	0.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
793.59	0.00	0.00	793.59	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	Z (RSLR)
800.00	0.00	0.00	800.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
1,072.00	0.00	0.00	1,072.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	13-3/8" Surface Casing
1,100.00	0.00	0.00	1,100.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
1,127.90	0.00	0.00	1,127.90	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	Z (SLDO)
1,200.00	0.00	0.00	1,200.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	
1,225.00	0.00	0.00	1,225.00	0.00 N	0.00 E	420,775.58	702,366.13	0.00	0.00	0.00	Build @ 3.00°/100ft
1,300.00	2.25	46.01	1,299.98	1.02 N	1.06 E	420,776.60	702,367.19	3.00	1.03	46.01	
1,400.00	5.25	46.01	1,399.76	5.56 N	5.76 E	420,781.14	702,371.89	3.00	5.62	0.00	
1,500.00	8.25	46.01	1,499.05	13.73 N	14.22 E	420,789.31	702,380.35	3.00	13.85	0.00	
1,600.00	11.25	46.01	1,597.60	25.49 N	26.40 E	420,801.07	702,392.53	3.00	25.72	0.00	
1,700.00	14.25	46.01	1,695.12	40.81 N	42.28 E	420,816.39	702,408.41	3.00	41.19	0.00	
1,724.94	15.00	46.01	1,719.25	45.19 N	46.81 E	420,820.77	702,412.94	3.00	45.60	0.00	Start Hold
1,800.00	15.00	46.01	1,791.75	58.68 N	60.79 E	420,834.26	702,426.92	0.00	59.22	0.00	
1,900.00	15.00	46.01	1,888.35	76.65 N	79.40 E	420,852.23	702,445.53	0.00	77.35	0.00	
2,000.00	15.00	46.01	1,984.94	94.62 N	98.02 E	420,870.20	702,464.15	0.00	95.49	0.00	
2,100.00	15.00	46.01	2,081.53	112.60 N	116.64 E	420,888.18	702,482.77	0.00	113.63	0.00	
2,200.00	15.00	46.01	2,178.13	130.57 N	135.26 E	420,906.15	702,501.39	0.00	131.77	0.00	
2,300.00	15.00	46.01	2,274.72	148.54 N	153.88 E	420,924.12	702,520.01	0.00	149.91	0.00	
2,400.00	15.00	46.01	2,371.31	166.52 N	172.50 E	420,942.10	702,538.63	0.00	168.05	0.00	
2,500.00	15.00	46.01	2,467.91	184.49 N	191.12 E	420,960.07	702,557.25	0.00	186.18	0.00	
2,600.00	15.00	46.01	2,564.50	202.46 N	209.74 E	420,978.04	702,575.87	0.00	204.32	0.00	
2,700.00	15.00	46.01	2,661.09	220.44 N	228.36 E	420,996.02	702,594.49	0.00	222.46	0.00	
2,800.00	15.00	46.01	2,757.69	238.41 N	246.98 E	421,013.99	702,613.11	0.00	240.60	0.00	
2,900.00	15.00	46.01	2,854.28	256.38 N	265.60 E	421,031.96	702,631.73	0.00	258.74	0.00	
2,975.18	15.00	46.01	2,926.90	269.90 N	279.59 E	421,045.48	702,645.72	0.00	272.37	0.00	Z (CSTL)

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
3,000.00	15.00	46.01	2,950.87	274.36 N	284.21 E	421,049.94	702,650.34	0.00	276.88	0.00	
3,100.00	15.00	46.01	3,047.47	292.33 N	302.83 E	421,067.91	702,668.96	0.00	295.01	0.00	
3,200.00	15.00	46.01	3,144.06	310.30 N	321.45 E	421,085.88	702,687.58	0.00	313.15	0.00	
3,300.00	15.00	46.01	3,240.65	328.28 N	340.07 E	421,103.86	702,706.20	0.00	331.29	0.00	
3,400.00	15.00	46.01	3,337.25	346.25 N	358.69 E	421,121.83	702,724.82	0.00	349.43	0.00	
3,500.00	15.00	46.01	3,433.84	364.22 N	377.31 E	421,139.80	702,743.44	0.00	367.57	0.00	
3,600.00	15.00	46.01	3,530.43	382.20 N	395.93 E	421,157.78	702,762.06	0.00	385.70	0.00	
3,700.00	15.00	46.01	3,627.03	400.17 N	414.55 E	421,175.75	702,780.68	0.00	403.84	0.00	
3,800.00	15.00	46.01	3,723.62	418.14 N	433.17 E	421,193.72	702,799.30	0.00	421.98	0.00	
3,900.00	15.00	46.01	3,820.22	436.12 N	451.79 E	421,211.70	702,817.92	0.00	440.12	0.00	
4,000.00	15.00	46.01	3,916.81	454.09 N	470.41 E	421,229.67	702,836.54	0.00	458.26	0.00	
4,100.00	15.00	46.01	4,013.40	472.06 N	489.02 E	421,247.64	702,855.15	0.00	476.40	0.00	
4,200.00	15.00	46.01	4,110.00	490.04 N	507.64 E	421,265.62	702,873.77	0.00	494.53	0.00	
4,300.00	15.00	46.01	4,206.59	508.01 N	526.26 E	421,283.59	702,892.39	0.00	512.67	0.00	
4,400.00	15.00	46.01	4,303.18	525.98 N	544.88 E	421,301.56	702,911.01	0.00	530.81	0.00	
4,500.00	15.00	46.01	4,399.78	543.96 N	563.50 E	421,319.54	702,929.63	0.00	548.95	0.00	
4,600.00	15.00	46.01	4,496.37	561.93 N	582.12 E	421,337.51	702,948.25	0.00	567.09	0.00	
4,700.00	15.00	46.01	4,592.96	579.90 N	600.74 E	421,355.48	702,966.87	0.00	585.23	0.00	
4,744.44	15.00	46.01	4,635.89	587.89 N	609.01 E	421,363.47	702,975.14	0.00	593.29	0.00	10-3/4" Intermediate Casing
4,796.20	15.00	46.01	4,685.89	597.19 N	618.65 E	421,372.77	702,984.78	0.00	602.68	0.00	Z (LMAR)
4,800.00	15.00	46.01	4,689.56	597.87 N	619.36 E	421,373.45	702,985.49	0.00	603.36	0.00	
4,845.87	15.00	46.01	4,733.86	606.12 N	627.90 E	421,381.70	702,994.03	0.00	611.68	0.00	Z (BEL)
4,900.00	15.00	46.01	4,786.15	615.85 N	637.98 E	421,391.43	703,004.11	0.00	621.50	0.00	
5,000.00	15.00	46.01	4,882.74	633.82 N	656.60 E	421,409.40	703,022.73	0.00	639.64	0.00	
5,100.00	15.00	46.01	4,979.34	651.79 N	675.22 E	421,427.37	703,041.35	0.00	657.78	0.00	
5,200.00	15.00	46.01	5,075.93	669.77 N	693.83 E	421,445.35	703,059.96	0.00	675.92	0.00	
5,300.00	15.00	46.01	5,172.52	687.74 N	712.45 E	421,463.32	703,078.58	0.00	694.06	0.00	
5,400.00	15.00	46.01	5,269.12	705.71 N	731.07 E	421,481.29	703,097.20	0.00	712.19	0.00	
5,500.00	15.00	46.01	5,365.71	723.69 N	749.69 E	421,499.27	703,115.82	0.00	730.33	0.00	
5,600.00	15.00	46.01	5,462.30	741.66 N	768.31 E	421,517.24	703,134.44	0.00	748.47	0.00	
5,700.00	15.00	46.01	5,558.90	759.63 N	786.93 E	421,535.21	703,153.06	0.00	766.61	0.00	
5,740.24	15.00	46.01	5,597.77	766.87 N	794.42 E	421,542.45	703,160.55	0.00	773.91	0.00	Z (CHR)
5,800.00	15.00	46.01	5,655.49	777.61 N	805.55 E	421,553.19	703,171.68	0.00	784.75	0.00	
5,851.60	15.00	46.01	5,705.33	786.88 N	815.16 E	421,562.46	703,181.29	0.00	794.11	0.00	Drop @ 2.00°/100ft
5,900.00	14.03	46.01	5,752.19	795.31 N	823.88 E	421,570.89	703,190.01	2.00	802.61	180.00	
6,000.00	12.03	46.01	5,849.61	810.96 N	840.10 E	421,586.54	703,206.23	2.00	818.41	180.00	
6,100.00	10.03	46.01	5,947.76	824.25 N	853.87 E	421,599.83	703,220.00	2.00	831.82	180.00	

HALLIBURTON**Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
6,200.00	8.03	46.01	6,046.51	835.15 N	865.16 E	421,610.73	703,231.29	2.00	842.82	-180.00	
6,300.00	6.03	46.01	6,145.75	843.65 N	873.97 E	421,619.23	703,240.10	2.00	851.40	180.00	
6,400.00	4.03	46.01	6,245.36	849.74 N	880.27 E	421,625.32	703,246.40	2.00	857.54	180.00	
6,500.00	2.03	46.01	6,345.22	853.41 N	884.08 E	421,628.99	703,250.21	2.00	861.25	180.00	
6,600.00	0.03	46.01	6,445.20	854.66 N	885.37 E	421,630.24	703,251.50	2.00	862.51	180.00	
6,601.50	0.00	0.00	6,446.70	854.66 N	885.37 E	421,630.24	703,251.50	2.00	862.51	-180.00	Start Hold - CO 621H VT
6,700.00	0.00	0.00	6,545.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	180.00	
6,800.00	0.00	0.00	6,645.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
6,900.00	0.00	0.00	6,745.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,000.00	0.00	0.00	6,845.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,079.64	0.00	0.00	6,924.84	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	Z (BCN)
7,100.00	0.00	0.00	6,945.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,200.00	0.00	0.00	7,045.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,300.00	0.00	0.00	7,145.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,400.00	0.00	0.00	7,245.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,500.00	0.00	0.00	7,345.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,600.00	0.00	0.00	7,445.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,700.00	0.00	0.00	7,545.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,800.00	0.00	0.00	7,645.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
7,900.00	0.00	0.00	7,745.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,000.00	0.00	0.00	7,845.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,100.00	0.00	0.00	7,945.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,200.00	0.00	0.00	8,045.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,300.00	0.00	0.00	8,145.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,400.00	0.00	0.00	8,245.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,500.00	0.00	0.00	8,345.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,600.00	0.00	0.00	8,445.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,700.00	0.00	0.00	8,545.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,745.85	0.00	0.00	8,591.05	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	Z (BSL)
8,800.00	0.00	0.00	8,645.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
8,849.49	0.00	0.00	8,694.69	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	AVU
8,900.00	0.00	0.00	8,745.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,000.00	0.00	0.00	8,845.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,100.00	0.00	0.00	8,945.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,200.00	0.00	0.00	9,045.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,300.00	0.00	0.00	9,145.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,400.00	0.00	0.00	9,245.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
9,500.00	0.00	0.00	9,345.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,600.00	0.00	0.00	9,445.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,700.00	0.00	0.00	9,545.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,763.78	0.00	0.00	9,608.98	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	FBU
9,800.00	0.00	0.00	9,645.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
9,900.00	0.00	0.00	9,745.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,000.00	0.00	0.00	9,845.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,026.83	0.00	0.00	9,872.03	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	FBL
10,100.00	0.00	0.00	9,945.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,200.00	0.00	0.00	10,045.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,300.00	0.00	0.00	10,145.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,400.00	0.00	0.00	10,245.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,439.55	0.00	0.00	10,284.75	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	SBU
10,500.00	0.00	0.00	10,345.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,600.00	0.00	0.00	10,445.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,700.00	0.00	0.00	10,545.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,800.00	0.00	0.00	10,645.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,900.00	0.00	0.00	10,745.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
10,939.92	0.00	0.00	10,785.12	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	SBL
11,000.00	0.00	0.00	10,845.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,100.00	0.00	0.00	10,945.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,200.00	0.00	0.00	11,045.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,300.00	0.00	0.00	11,145.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,400.00	0.00	0.00	11,245.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,433.80	0.00	0.00	11,279.00	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	7-5/8" Intermediate Casing
11,500.00	0.00	0.00	11,345.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,600.00	0.00	0.00	11,445.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,684.04	0.00	0.00	11,529.24	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	TBS
11,700.00	0.00	0.00	11,545.20	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	
11,783.08	0.00	0.00	11,628.28	854.66 N	885.37 E	421,630.24	703,251.50	0.00	862.51	0.00	KOP @ 8.00°/100ft
11,800.00	1.35	352.50	11,645.20	854.86 N	885.34 E	421,630.44	703,251.47	8.00	862.70	352.50	
11,900.00	9.35	352.50	11,744.68	864.10 N	884.13 E	421,639.68	703,250.26	8.00	871.94	0.00	
12,000.00	17.35	352.50	11,841.90	886.98 N	881.11 E	421,662.56	703,247.24	8.00	894.79	0.00	
12,100.00	25.35	352.50	11,934.96	923.05 N	876.37 E	421,698.63	703,242.50	8.00	930.82	0.00	
12,158.51	30.03	352.50	11,986.75	950.00 N	872.82 E	421,725.58	703,238.95	8.00	957.74	0.00	WCA
12,200.00	33.35	352.50	12,022.05	971.61 N	869.97 E	421,747.19	703,236.10	8.00	979.32	0.00	

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
12,300.00	41.35	352.50	12,101.47	1,031.72 N	862.06 E	421,807.30	703,228.19	8.00	1,039.35	0.00	
12,345.58	45.00	352.50	12,134.71	1,062.63 N	857.99 E	421,838.21	703,224.12	8.00	1,070.23	0.00	45.00° Inc @ 12345.58`MD
12,381.32	47.86	352.50	12,159.34	1,088.31 N	854.61 E	421,863.89	703,220.74	8.00	1,095.87	0.00	WCA1
12,400.00	49.35	352.50	12,171.69	1,102.20 N	852.78 E	421,877.78	703,218.91	8.00	1,109.74	0.00	
12,500.00	57.35	352.50	12,231.33	1,181.68 N	842.32 E	421,957.26	703,208.45	8.00	1,189.13	0.00	
12,600.00	65.35	352.50	12,279.23	1,268.62 N	830.87 E	422,044.20	703,197.00	8.00	1,275.96	0.00	
12,700.00	73.35	352.50	12,314.46	1,361.32 N	818.67 E	422,136.90	703,184.80	8.00	1,368.55	0.00	
12,800.00	81.35	352.50	12,336.34	1,457.98 N	805.94 E	422,233.56	703,172.07	8.00	1,465.09	0.00	
12,900.00	89.35	352.50	12,344.43	1,556.72 N	792.94 E	422,332.30	703,159.07	8.00	1,563.71	0.00	
12,906.47	89.87	352.50	12,344.48	1,563.13 N	792.10 E	422,338.71	703,158.23	8.00	1,570.12	0.00	FTP Cross @ 89.87°INC
12,906.48	89.87	352.50	12,344.48	1,563.14 N	792.10 E	422,338.72	703,158.23	8.00	1,570.13	0.00	Landing Point - Start Hold
12,912.19	89.87	352.50	12,344.49	1,568.80 N	791.35 E	422,344.38	703,157.48	0.00	1,575.78	0.00	CO 621H FTP (2614' FNL/1870' FEL)
13,000.00	89.87	352.50	12,344.68	1,655.86 N	779.89 E	422,431.44	703,146.02	0.00	1,662.74	7.26	
13,061.48	89.87	352.50	12,344.82	1,716.81 N	771.87 E	422,492.39	703,138.00	0.00	1,723.62	0.00	Turn @ 2.00°/100ft
13,100.00	89.87	353.27	12,344.91	1,755.04 N	767.09 E	422,530.62	703,133.22	2.00	1,761.80	90.01	
13,200.00	89.87	355.27	12,345.13	1,854.53 N	757.11 E	422,630.11	703,123.24	2.00	1,861.20	90.01	
13,300.00	89.87	357.27	12,345.36	1,954.32 N	750.61 E	422,729.90	703,116.74	2.00	1,960.92	90.00	
13,400.00	89.87	359.27	12,345.58	2,054.27 N	747.59 E	422,829.85	703,113.72	2.00	2,060.84	90.00	
13,461.94	89.87	0.51	12,345.72	2,116.21 N	747.47 E	422,891.79	703,113.60	2.00	2,122.78	89.99	Start Hold
13,500.00	89.87	0.51	12,345.81	2,154.26 N	747.81 E	422,929.84	703,113.94	0.00	2,160.83	-178.54	
13,600.00	89.87	0.51	12,346.03	2,254.26 N	748.70 E	423,029.84	703,114.83	0.00	2,260.83	0.00	
13,700.00	89.87	0.51	12,346.25	2,354.25 N	749.59 E	423,129.83	703,115.72	0.00	2,360.83	0.00	
13,800.00	89.87	0.51	12,346.48	2,454.25 N	750.48 E	423,229.83	703,116.61	0.00	2,460.83	0.00	
13,900.00	89.87	0.51	12,346.70	2,554.25 N	751.36 E	423,329.83	703,117.49	0.00	2,560.83	0.00	
14,000.00	89.87	0.51	12,346.93	2,654.24 N	752.25 E	423,429.82	703,118.38	0.00	2,660.83	0.00	
14,100.00	89.87	0.51	12,347.15	2,754.24 N	753.14 E	423,529.82	703,119.27	0.00	2,760.83	0.00	
14,200.00	89.87	0.51	12,347.37	2,854.23 N	754.03 E	423,629.81	703,120.16	0.00	2,860.83	0.00	
14,300.00	89.87	0.51	12,347.60	2,954.23 N	754.92 E	423,729.81	703,121.05	0.00	2,960.83	0.00	
14,400.00	89.87	0.51	12,347.82	3,054.22 N	755.81 E	423,829.80	703,121.94	0.00	3,060.83	0.00	
14,500.00	89.87	0.51	12,348.05	3,154.22 N	756.70 E	423,929.80	703,122.83	0.00	3,160.83	0.00	
14,600.00	89.87	0.51	12,348.27	3,254.22 N	757.59 E	424,029.80	703,123.72	0.00	3,260.83	0.00	
14,700.00	89.87	0.51	12,348.49	3,354.21 N	758.48 E	424,129.79	703,124.61	0.00	3,360.83	0.00	
14,800.00	89.87	0.51	12,348.72	3,454.21 N	759.36 E	424,229.79	703,125.49	0.00	3,460.83	0.00	
14,900.00	89.87	0.51	12,348.94	3,554.20 N	760.25 E	424,329.78	703,126.38	0.00	3,560.83	0.00	
15,000.00	89.87	0.51	12,349.17	3,654.20 N	761.14 E	424,429.78	703,127.27	0.00	3,660.83	0.00	
15,100.00	89.87	0.51	12,349.39	3,754.20 N	762.03 E	424,529.78	703,128.16	0.00	3,760.83	0.00	
15,200.00	89.87	0.51	12,349.61	3,854.19 N	762.92 E	424,629.77	703,129.05	0.00	3,860.83	0.00	

HALLIBURTON**Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
15,300.00	89.87	0.51	12,349.84	3,954.19 N	763.81 E	424,729.77	703,129.94	0.00	3,960.83	0.00	
15,400.00	89.87	0.51	12,350.06	4,054.18 N	764.70 E	424,829.76	703,130.83	0.00	4,060.83	0.00	
15,500.00	89.87	0.51	12,350.29	4,154.18 N	765.59 E	424,929.76	703,131.72	0.00	4,160.83	0.00	
15,521.29	89.87	0.51	12,350.33	4,175.47 N	765.78 E	424,951.05	703,131.91	0.00	4,182.12	0.00	CO 621H MP (1870' FEL)
15,600.00	89.87	0.51	12,350.51	4,254.17 N	766.48 E	425,029.75	703,132.61	0.00	4,260.83	0.00	
15,700.00	89.87	0.51	12,350.73	4,354.17 N	767.37 E	425,129.75	703,133.50	0.00	4,360.83	0.00	
15,800.00	89.87	0.51	12,350.96	4,454.17 N	768.25 E	425,229.75	703,134.38	0.00	4,460.83	0.00	
15,900.00	89.87	0.51	12,351.18	4,554.16 N	769.14 E	425,329.74	703,135.27	0.00	4,560.83	0.00	
16,000.00	89.87	0.51	12,351.41	4,654.16 N	770.03 E	425,429.74	703,136.16	0.00	4,660.83	0.00	
16,100.00	89.87	0.51	12,351.63	4,754.15 N	770.92 E	425,529.73	703,137.05	0.00	4,760.83	0.00	
16,200.00	89.87	0.51	12,351.85	4,854.15 N	771.81 E	425,629.73	703,137.94	0.00	4,860.83	0.00	
16,300.00	89.87	0.51	12,352.08	4,954.14 N	772.70 E	425,729.72	703,138.83	0.00	4,960.83	0.00	
16,400.00	89.87	0.51	12,352.30	5,054.14 N	773.59 E	425,829.72	703,139.72	0.00	5,060.83	0.00	
16,500.00	89.87	0.51	12,352.53	5,154.14 N	774.48 E	425,929.72	703,140.61	0.00	5,160.83	0.00	
16,600.00	89.87	0.51	12,352.75	5,254.13 N	775.37 E	426,029.71	703,141.50	0.00	5,260.83	0.00	
16,700.00	89.87	0.51	12,352.97	5,354.13 N	776.25 E	426,129.71	703,142.38	0.00	5,360.83	0.00	
16,800.00	89.87	0.51	12,353.20	5,454.12 N	777.14 E	426,229.70	703,143.27	0.00	5,460.82	0.00	
16,900.00	89.87	0.51	12,353.42	5,554.12 N	778.03 E	426,329.70	703,144.16	0.00	5,560.82	0.00	
17,000.00	89.87	0.51	12,353.65	5,654.12 N	778.92 E	426,429.70	703,145.05	0.00	5,660.82	0.00	
17,100.00	89.87	0.51	12,353.87	5,754.11 N	779.81 E	426,529.69	703,145.94	0.00	5,760.82	0.00	
17,200.00	89.87	0.51	12,354.10	5,854.11 N	780.70 E	426,629.69	703,146.83	0.00	5,860.82	0.00	
17,300.00	89.87	0.51	12,354.32	5,954.10 N	781.59 E	426,729.68	703,147.72	0.00	5,960.82	0.00	
17,400.00	89.87	0.51	12,354.54	6,054.10 N	782.48 E	426,829.68	703,148.61	0.00	6,060.82	0.00	
17,500.00	89.87	0.51	12,354.77	6,154.09 N	783.37 E	426,929.67	703,149.50	0.00	6,160.82	0.00	
17,600.00	89.87	0.51	12,354.99	6,254.09 N	784.26 E	427,029.67	703,150.39	0.00	6,260.82	0.00	
17,700.00	89.87	0.51	12,355.22	6,354.09 N	785.14 E	427,129.67	703,151.27	0.00	6,360.82	0.00	
17,800.00	89.87	0.51	12,355.44	6,454.08 N	786.03 E	427,229.66	703,152.16	0.00	6,460.82	0.00	
17,900.00	89.87	0.51	12,355.66	6,554.08 N	786.92 E	427,329.66	703,153.05	0.00	6,560.82	0.00	
18,000.00	89.87	0.51	12,355.89	6,654.07 N	787.81 E	427,429.65	703,153.94	0.00	6,660.82	0.00	
18,100.00	89.87	0.51	12,356.11	6,754.07 N	788.70 E	427,529.65	703,154.83	0.00	6,760.82	0.00	
18,200.00	89.87	0.51	12,356.34	6,854.06 N	789.59 E	427,629.64	703,155.72	0.00	6,860.82	0.00	
18,264.65	89.87	0.51	12,356.48	6,918.71 N	790.16 E	427,694.29	703,156.29	0.00	6,925.47	0.00	CO_WCA1_TGT1
18,300.00	89.87	0.51	12,356.56	6,954.06 N	790.48 E	427,729.64	703,156.61	0.00	6,960.82	0.00	
18,400.00	89.87	0.51	12,356.78	7,054.06 N	791.37 E	427,829.64	703,157.50	0.00	7,060.82	0.00	
18,500.00	89.87	0.51	12,357.01	7,154.05 N	792.26 E	427,929.63	703,158.39	0.00	7,160.82	0.00	
18,600.00	89.87	0.51	12,357.23	7,254.05 N	793.14 E	428,029.63	703,159.27	0.00	7,260.82	0.00	
18,700.00	89.87	0.51	12,357.46	7,354.04 N	794.03 E	428,129.62	703,160.16	0.00	7,360.82	0.00	

HALLIBURTON**Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100ft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
18,800.00	89.87	0.51	12,357.68	7,454.04 N	794.92 E	428,229.62	703,161.05	0.00	7,460.82	0.00	
18,900.00	89.87	0.51	12,357.90	7,554.04 N	795.81 E	428,329.62	703,161.94	0.00	7,560.82	0.00	
19,000.00	89.87	0.51	12,358.13	7,654.03 N	796.70 E	428,429.61	703,162.83	0.00	7,660.82	0.00	
19,100.00	89.87	0.51	12,358.35	7,754.03 N	797.59 E	428,529.61	703,163.72	0.00	7,760.82	0.00	
19,200.00	89.87	0.51	12,358.58	7,854.02 N	798.48 E	428,629.60	703,164.61	0.00	7,860.82	0.00	
19,300.00	89.87	0.51	12,358.80	7,954.02 N	799.37 E	428,729.60	703,165.50	0.00	7,960.82	0.00	
19,400.00	89.87	0.51	12,359.02	8,054.01 N	800.26 E	428,829.59	703,166.39	0.00	8,060.82	0.00	
19,500.00	89.87	0.51	12,359.25	8,154.01 N	801.15 E	428,929.59	703,167.28	0.00	8,160.82	0.00	
19,600.00	89.87	0.51	12,359.47	8,254.01 N	802.03 E	429,029.59	703,168.16	0.00	8,260.82	0.00	
19,700.00	89.87	0.51	12,359.70	8,354.00 N	802.92 E	429,129.58	703,169.05	0.00	8,360.82	0.00	
19,800.00	89.87	0.51	12,359.92	8,454.00 N	803.81 E	429,229.58	703,169.94	0.00	8,460.82	0.00	
19,900.00	89.87	0.51	12,360.14	8,553.99 N	804.70 E	429,329.57	703,170.83	0.00	8,560.82	0.00	
20,000.00	89.87	0.51	12,360.37	8,653.99 N	805.59 E	429,429.57	703,171.72	0.00	8,660.82	0.00	
20,100.00	89.87	0.51	12,360.59	8,753.98 N	806.48 E	429,529.56	703,172.61	0.00	8,760.82	0.00	
20,200.00	89.87	0.51	12,360.82	8,853.98 N	807.37 E	429,629.56	703,173.50	0.00	8,860.82	0.00	
20,300.00	89.87	0.51	12,361.04	8,953.98 N	808.26 E	429,729.56	703,174.39	0.00	8,960.82	0.00	
20,400.00	89.87	0.51	12,361.26	9,053.97 N	809.15 E	429,829.55	703,175.28	0.00	9,060.82	0.00	
20,500.00	89.87	0.51	12,361.49	9,153.97 N	810.03 E	429,929.55	703,176.16	0.00	9,160.82	0.00	
20,600.00	89.87	0.51	12,361.71	9,253.96 N	810.92 E	430,029.54	703,177.05	0.00	9,260.82	0.00	
20,700.00	89.87	0.51	12,361.94	9,353.96 N	811.81 E	430,129.54	703,177.94	0.00	9,360.82	0.00	
20,706.46	89.87	0.51	12,361.95	9,360.42 N	811.87 E	430,136.00	703,178.00	0.00	9,367.28	0.00	LTP Cross - CO 621H LTP (100' FNL/1870' FEL)
20,756.46	89.87	0.51	12,362.06	9,410.42 N	812.31 E	430,186.00	703,178.44	0.00	9,417.28	0.00	TD @ 20756.46 - CO 621H BHL (25' FNL/1870' FEL)

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,225.00	1,225.00	0.00	0.00	Build @ 3.00°/100ft
1,724.94	1,719.25	45.19	46.81	Start Hold
5,851.60	5,705.33	786.88	815.16	Drop @ 2.00°/100ft
6,601.50	6,446.70	854.66	885.37	Start Hold
11,783.08	11,628.28	854.66	885.37	KOP @ 8.00°/100ft
12,345.58	12,134.71	1,062.63	857.99	45.00° Inc @ 12345.58' MD
12,906.47	12,344.48	1,563.13	792.10	FTP Cross @ 89.87°INC
12,906.48	12,344.48	1,563.14	792.10	Landing Point - Start Hold
13,061.48	12,344.82	1,716.81	771.87	Turn @ 2.00°/100ft
13,461.94	12,345.72	2,116.21	747.47	Start Hold
20,706.46	12,361.95	9,360.42	811.87	LTP Cross
20,756.46	12,362.06	9,410.42	812.31	TD @ 20756.46

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	0.51	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	1,072.00	Plan 4 R1	3_MWD+IFR1+Sag
1,072.00	4,744.44	Plan 4 R1	3_MWD+IFR1+MS+Sag
4,744.44	11,433.80	Plan 4 R1	3_MWD+IFR1+MS+Sag
11,433.80	20,756.46	Plan 4 R1	3_MWD+IFR1+MS+Sag

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,072.00	1,072.00	13-3/8" Surface Casing	13.375	17.500
4,744.44	4,635.89	10-3/4" Intermediate Casing	10.750	12.250
11,433.80	11,279.00	7-5/8" Intermediate Casing	7.625	8.500
20,756.47	12,362.06	5-1/2" Production Liner	5.500	6.100

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1**Formation Details**

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
793.59	793.59	-2,703.91	Z (RSLR)			
1,127.90	1,127.90	-2,369.60	Z (SLDO)			
2,975.18	2,926.90	-570.60	Z (CSTL)			
4,796.20	4,685.89	1,188.39	Z (LMAR)			
4,845.87	4,733.86	1,236.36	Z (BEL)			
5,740.24	5,597.77	2,100.27	Z (CHR)			
7,079.64	6,924.84	3,427.34	Z (BCN)			
8,745.85	8,591.05	5,093.55	Z (BSL)			
8,849.49	8,694.69	5,197.19	AVU			
9,763.78	9,608.98	6,111.48	FBU			
10,026.83	9,872.03	6,374.53	FBL			
10,439.55	10,284.75	6,787.25	SBU			
10,939.92	10,785.12	7,287.62	SBL			
11,684.04	11,529.24	8,031.74	TBS			
12,158.51	11,986.75	8,489.25	WCA			
12,381.32	12,159.34	8,661.84	WCA1			
18,264.65	12,356.48	8,858.98	CO_WCA1_TGT1			

Plan Report for CO 4 33 Federal Com No. 621H - Plan 4 R1**Design Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CO 621H VT () - plan hits target center - Point	0.00	0.00	6,446.70	854.66	885.37	421,630.24	703,251.50	32° 9' 26.91 N	103° 40' 35.59 W
CO 621H FTP (2614' FNL/1870' FEL) () - plan misses target center by 48.90usft at 12912.19usft MD (12344.49 TVD, 1568.80 N, 791.35 E) - Point	0.00	0.00	12,344.47	1,562.42	742.87	422,338.00	703,109.00	32° 9' 33.92 N	103° 40' 37.20 W
CO 621H LTP (100' FNL/1870' FEL) () - plan hits target center - Point	0.00	0.00	12,361.95	9,360.42	811.87	430,136.00	703,178.00	32° 10' 51.08 N	103° 40' 35.84 W
CO 621H BHL (25' FNL/1870' FEL) () - plan misses target center by 25.04usft at 20756.46usft MD (12362.06 TVD, 9410.42 N, 812.31 E) - Point	0.00	0.00	12,362.04	9,435.42	810.87	430,211.00	703,177.00	32° 10' 51.82 N	103° 40' 35.85 W

Directional Difficulty Index

Average Dogleg over Survey:	0.62 °/100ft	Maximum Dogleg over Survey:	8.00 °/100ft at 12,906.48 usft
Net Tortousity applicable to Plans:	0.62 °/100ft	Directional Difficulty Index:	6.554

Audit Info

North Reference Sheet for CO Pad 621 - CO 4 33 Federal Com No. 621H - OH - 53563

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3469ft + RKB 28.5ft @ 3497.50usft (Patterson 815). Northing and Easting are relative to CO 4 33 Federal Com No. 621H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.00 W°, Longitude Origin:0° 0' 0.00 E°, Latitude Origin:0° 0' 0.00 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99995599

Grid Coordinates of Well: 420,775.58 usft N, 702,366.13 usft E

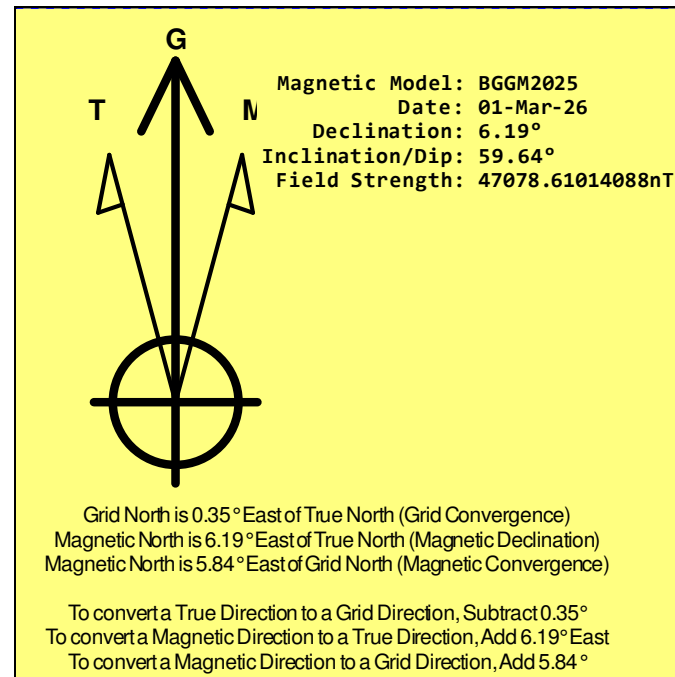
Geographical Coordinates of Well: 32° 9' 18.50 N, 103° 40' 45.95 W

Grid Convergence at Surface is: 0.35°

Based upon Minimum Curvature type calculations, at a Measured Depth of 20,756.46usft

the Bottom Hole Displacement is 9,445.41usft in the Direction of 4.93° (Grid).

Magnetic Convergence at surface is: -5.84° (1 March 2026, , BGGM2025)



45 CFR 3171
 Chevron
 CO 4 33 FEDERAL 621H
 Lea County, NM

Pad Summary: CO Pad 621

The table below lists all the wells for the given pad and their respective name and TVD's (ft) for their production target intervals:

Well Name(s)	Target TVD	Formation Desc.
CO 4 33 FEDERAL 621H	12,350	Wolfcamp A
CO 4 9 FEDERAL COM 622H	12,350	Wolfcamp A
CO 4 33 FEDERAL 623H	12,350	Wolfcamp A
CO 4 9 FEDERAL COM 624H	12,350	Wolfcamp A
CO 4 33 FEDERAL 625H	12,350	Wolfcamp A
CO 4 9 FEDERAL COM 626H	12,350	Wolfcamp A

1. GEOLOGICAL TOPS

Elevation: As seen in C-102

The estimated tops of important geologic markers are as follows:

FORMATION	LITHOLOGIES	TVD	MD	Producing Formation?
Rustler (RSLR)	Sandstone	887	888	No
Saldo (SLDO)	Anhydrite/Salt	1,213	1,219	No
Castile (CSTL)	Anhydrite/Salt	3,272	3,330	No
Lamar (LMAR)	Limestone/Shale	4,816	4,913	No
Bell Canyon (BEL)	Sandstone/Limestone	4,860	4,958	No
Cherry Canyon (CHR)	Sandstone/Siltstone	5,709	5,828	No
Brushy Canyon (BCN)	Sandstone/Limestone	7,093	7,233	No
Bone Spring (BSL)	Shale/Siltstone	8,736	8,876	No
Upper Avalon (AVU)	Shale	8,852	8,992	No
Lower Avalon (AVL)	Shale	9,218	9,358	No
First Bone Spring Upper (FBU)	Sandstone/Shale	9,742	9,882	No
First Bone Spring Lower (FBL)	Sandstone/Shale	10,068	10,208	No
Second Bone Spring Upper (SBU)	Sandstone/Shale	10,400	10,540	No
Second Bone Spring Lower (SBL)	Sandstone/Shale	10,911	11,051	No
Third Bone Spring (TBS)	Sandstone/Shale	11,647	11,787	No
Wolfcamp A (WCA)	Sandstone/Shale	12,070	12,224	Yes: Oil & Natural Gas

WELLBORE LOCATIONS	MD	TVD
SHL	-	-
KOP	11,786	11,628
FTP	12,910	12,344
LTP	20,710	12,362
BHL	20,760	12,362

Chevron
CO 4 33 FEDERAL COM 621H
Lea County, NM

2. BOP EQUIPMENT AND TESTING

Rating Depth 12,362 TVD

Equipment
Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing and a 10,000 psi rig stack for drilling the production hole section. See attached proposed schematics and 10,000 PSI Annular BOP Variance Request.

Request Variance: Yes

Variance Request(s)

Chevron respectfully request to vary from the 43 CFR 3172 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / ≥ 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized.

Chevron respectfully requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nipped up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party.

Chevron respectfully requests a variance from the 0.422" annular clearance requirement per 43 CFR3172 for the intermediate 1 (salt) section under the following condition:
1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing connection OD for the first 500' of overlap between both strings.

Testing Procedure

The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the Digital BOP Test Method in lieu of the standard test chart. In the event the digital system is unavailable, the standard test chart will be used.

3. CASING PROGRAM

a. The proposed PRIMARY casing program will be as follows:

Purpose	Top (MD)	Top (TVD)	Bot (MD)	Bot (TVD)	Hole Size	Csg Size	Weight	Grade	Thread
Surface	0'	0'	1,072'	1,072'	17.5"	13.375"	54.5 #	J-55	BTC
Intermediate 1	0'	0'	4,893'	4,796'	12.25"	10.75"	40.5 #	J-55	BTC
Intermediate 2	0'	0'	11,766'	11,608'	9.875"	7.625"	29.7 #	P-110ICY	W441
Production Liner (Primary)	11,566'	11,408'	20,760'	12,362'	6.75"	5"	13.0 #	P-110ICY	W421
Production Liner (Alternative)	11,566'	11,408'	20,760'	12,362'	6.75"	5-1/2"	17.0 #	P-110ICY	W451

Surface casing set below magenta dolomite and above top of salt (25 ft below los medianos)

- b. All casing strings will be new pipe.
- c. Casing design depths subject to revision based on directional drilling and geologic conditions encountered.
- d. Chevron will keep intermediate casing fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840'), and never to surpass 1/3 of casing, while running intermediate casing in order to maintain collapse SF.
- e. Chevron will keep 5" 13# Production liner fluid filled at all times and while RIH. Chevron will check casing at a minimum of every 20 jts (~840'), and never to surpass 1/3 of casing, while running production liner casing in order to maintain collapse SF.
- f. The 5.5" 17# W451 Production liner is an alternative liner that will be "floated" in the event of challenges running the 5" 13# fluid-filled liner

Casing String	Min SF Collapse	Min SF Burst	Min SF Axial (Joint)	Min SF Axial (Body)
Surface	2.03	1.51	15.56	14.60
Intermediate 1	Refer to attached casing design load analysis			
Intermediate 2	1.02	1.96	2.32	3.10
Production Liner (Primary)	Refer to attached casing design load analysis			
Production Liner (Alternative)	1.47	2.55	3.19	3.47

g. All minimum safety factors are calculated in bouyant conditions.

4. **CEMENTING PROGRAM**

Slurry	Type	Top	Bottom	Quantity	Yield	Density	%Excess	Volume	Additives
				(sks)	(cuft/sk)	(ppg)		(cuft)	
Surface Casing 13-3/8"									
Lead	Class C	0'	530'	91	2.29	12.8	25	208	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	530'	1,072'	690	1.35	14.8	25	931	Extender, Antifoam, Retarder, Viscosifier
Intermediate 1 Casing 10-3/4"									
<i>Planned single stage cement job</i>									
Lead	Class C	0'	3,893'	360	2.29	11.5	25	825	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	3,893'	4,893'	175	1.63	12.6	25	285	Extender, Antifoam, Retarder, Viscosifier
<i>Contingency: Top Job</i>									
1st Tail	Class C	0'	3,893'	857	1.35	14.8	25	1157	Extender, Antifoam, Retarder, Viscosifier
Intermediate 2 Casing 7-5/8"									
<i>Planned single stage cement job</i>									
Lead	Class C	0'	10,766'	773	3.52	10.5	25	2721	Extender, Antifoam, Retarder, Viscosifier
Tail	Class C	10,766'	11,766'	192	1.52	12.6	25	292	Extender, Antifoam, Retarder, Viscosifier
<i>Contingency: Top Job</i>									
1st Tail	Class C	0'	8,766'	1898	1.35	14.8	25	2562	Extender, Antifoam, Retarder, Viscosifier
Production Liner 5									
Lead	Class H	11,566'	20,760'	848	1.52	12.6	25	1289	Extender, Antifoam, Retarder, Viscosifier

Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

Lea County, NM

5. **MUD PROGRAM**

Top	Bottom	Type	Min MW	Max MW at TD	Additional Characteristics
0'	1,072'	Spud Mud	8.3	10	
1,072'	4,893'	Brine	8.3	11.5	Saturated brine would be used through salt sections.
4,893'	11,766'	WBM/Brine	8.3	12.0	
11,766'	20,760'	OBM	8.6	13.0	Due to wellbore instability in the lateral, may exceed the MW window needed to maintain overburden stresses

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

If an open reserve pit is not approved by OCD, a closed system will be used consisting of above ground steel tanks and all wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. If an open reserve pit is in place, pit construction, operation, and closure will follow all applicable rules and regulation. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

6. **TESTING, LOGGING, AND CORING**

- a. **Production tests are not planned.**
- b. Logs run include: **Gamma Ray Log, Directional Survey**
- c. **Coring Operations are not planned.**

7. **ABNORMAL PRESSURES AND HYDROGEN SULFIDE**

Anticipated BHP	8,357 psi
Anticipated BHT	216 °F
Anticipated abnormal pressures?	Yes
Describe abnormal pressures	Pressure ramp begins in the bottom of the Third Bone Spring formation
Contingency plan(s) description:	<ul style="list-style-type: none"> - Casing design accounts for pressure ramp - Mud weighting agents available on location to increase drilling fluid density - BOP, choke, and well control drills - BOP functioned and pressure tested

Hydrogen sulfide gas is not anticipated: However the H2S Contingency plan is attached with this APD in the event that H2S is encountered

8. **OTHER ITEMS**

- a. **Batch drilling** will be employed whereby the drilling rig may drill a specific hole section on all wells prior to moving to the next hole section.
- b. **Shallow rig** may be utilized to drill surface or intermediate sections. The production section will not be drilled by the shallow rig.
- c. **Wait on cement** duration for surface and intermediate string(s) will be based on time for tail slurry to develop 500 psi compressive strength and will follow rules as laid out in 43 CFR 3172
- d. **Offline cementing** will be employed on the hole sections that run a long string casing to surface. Offline cementing schematic below.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

(NAD 27 NM E)

CO 4 33 FEDERAL NO. 621H WELL X=702,366.13 Y=420,775.58 LAT.32.155139°N LONG.103.679431°W	PROPOSED KICK OFF POINT X=703,111.47 Y=421,740.43 LAT.32.157779°N LONG.103.677004°W	PROPOSED FIRST TAKE POINT X=703,108.82 Y=422,338.31 LAT.32.159423°N LONG.103.677000°W
--	--	--

PROPOSED MID POINT X=703,090.70 Y=424,951.43 LAT.32.166606°N LONG.103.677008°W	PROPOSED LAST TAKE POINT X=703,177.79 Y=430,136.31 LAT.32.180857°N LONG.103.676624°W	PROPOSED BOTTOM HOLE LOCATION X=703,177.28 Y=430,211.31 LAT.32.181063°N LONG.103.676624°W
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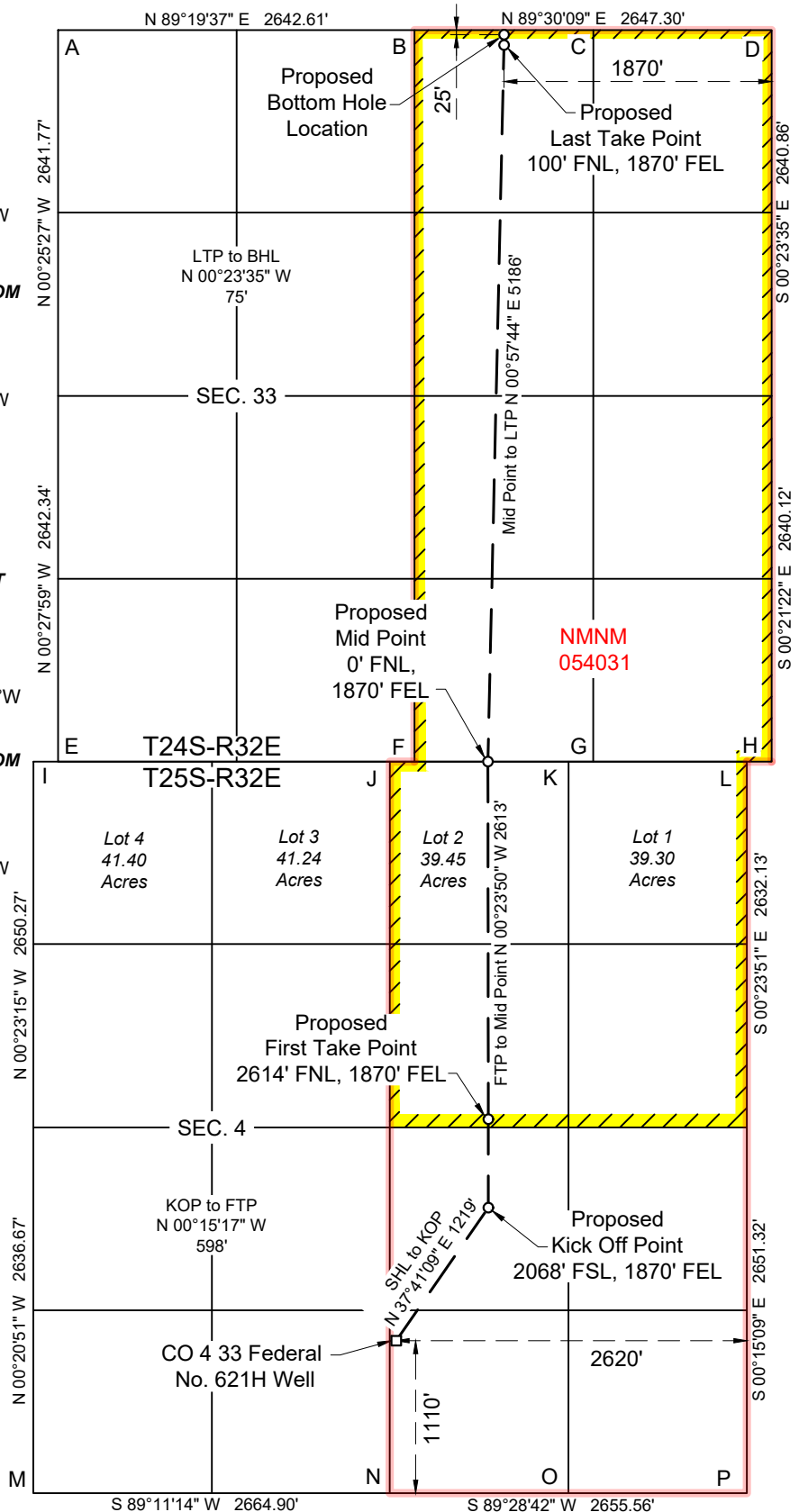
(NAD 83/2011 NM E)

CO 4 33 FEDERAL NO. 621H WELL X=743,551.32 Y=420,833.70 LAT.32.155263°N LONG.103.679908°W	PROPOSED KICK OFF POINT X=744,296.62 Y=421,798.57 LAT.32.157903°N LONG.103.677481°W	PROPOSED FIRST TAKE POINT X=744,293.94 Y=422,396.46 LAT.32.159546°N LONG.103.677478°W
--	--	--

PROPOSED MID POINT X=744,275.71 Y=425,009.64 LAT.32.166730°N LONG.103.677485°W	PROPOSED LAST TAKE POINT X=744,362.58 Y=430,194.63 LAT.32.180980°N LONG.103.677102°W	PROPOSED BOTTOM HOLE LOCATION X=744,362.06 Y=430,269.63 LAT.32.181187°N LONG.103.677103°W
---	---	--

CORNER COORDINATES
(NAD 27 NM E)

- A - X=699758.44, Y=430198.53 IP w/ CAP "1916"
- B - X=702400.36, Y=430229.56 IP w/ CAP "1916"
- C - X=703723.70, Y=430241.05
- D - X=705047.04, Y=430252.55 IP w/ CAP "1913"
- E - X=699799.50, Y=424915.62 IP w/ CAP "1916"
- F - X=702440.53, Y=424944.36
- G - X=703761.05, Y=424958.73
- H - X=705081.56, Y=424972.71 IP w/ CAP "1916"
- I - X=699637.58, Y=424913.28 IP w/ CAP "1916"
- J - X=702299.08, Y=424942.82
- K - X=703629.84, Y=424957.30
- L - X=704960.59, Y=424971.78 IP w/ CAP "1916"
- M - X=699671.49, Y=419627.49 IP w/ CAP "1939"
- N - X=702335.60, Y=419665.28 IP w/ CAP "1939"
- O - X=703663.06, Y=419677.36
- P - X=704990.53, Y=419689.45 IP w/ CAP "1939"



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 576570

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 576570
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	If using a pit for drilling and completion operations, operator must have an approved pit form prior to spudding the well. If a closed loop is to be utilized, please submit a form C-103A change of plans stating such.	4/23/2026
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If strata isolation is not achieved, remediation will be required before further operations may commence.	4/23/2026
matthew.gomez	All conducted logs must be submitted to the OCD.	4/23/2026
matthew.gomez	Cement must be in place for at least eight hours AND achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	4/23/2026
matthew.gomez	Administrative order required for non-standard location prior to production.	4/23/2026
matthew.gomez	Pool code is now 98270.	4/23/2026
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	4/23/2026
matthew.gomez	All previous COA's still apply.	4/23/2026