

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

General Information
Phone: (505) 629-6116

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

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

Form C-101
August 1, 2011

Permit 394952

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

1. Operator Name and Address V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702		2. OGRID Number 24010
		3. API Number 30-015-57269
4. Property Code 337761	5. Property Name Buchanan 33 32 State Com	6. Well No. 231H

7. Surface Location

UL - Lot P	Section 33	Township 18S	Range 28E	Lot Idn P	Feet From 630	N/S Line S	Feet From 225	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 32	Township 18S	Range 28E	Lot Idn M	Feet From 760	N/S Line S	Feet From 100	E/W Line W	County Eddy
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9. Pool Information

TRAVIS; BONESPRING(O)	97257
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3563
16. Multiple N	17. Proposed Depth 18376	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/1/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	450	500	0
Int1	12.25	9.625	36	3000	1000	0
Prod	8.75	5.5	20	18376	2700	2500

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD
Annular	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Pam O'Neil	Approved By: Jeffrey Harrison	
Title: Regulatory Manager	Title: Petroleum Specialist III	
Email Address: pamo@vfpetroleum.com	Approved Date: 9/19/2025	Expiration Date: 9/19/2027
Date: 8/8/2025	Phone: 432-683-3344	Conditions of Approval Attached

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
	Submittal Type:	☒ Initial Submittal ☐ Amended Report ☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-57269	Pool Code 97257	Pool Name TRAVIS; BONE SPRING	
Property Code 337761	Property Name BUCHANAN 33 32 STATE COM		Well Number 231H
OGRID No. 24010	Operator Name V-F PETROLEUM INC.		Ground Level Elevation 3563'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☒ Fee ☐ Tribal ☐ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	33	18-S	28-E	-	630 FSL	225 FEL	32.698668°	104.173119°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	32	18-S	28-E	-	760 FSL	100 FWL	32.698695°	104.205757°	EDDY

Dedicated Acres 480	Infill or Defining Well Defining	Defining Well API 30-015-xxxx	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers. R-22947; NSP-2181			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	33	18-S	28-E	-	630 FSL	225 FEL	32.698668°	104.173119°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	32	18-S	28-E	-	760 FSL	100 FWL	32.698695°	104.205757°	EDDY

Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3563'
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OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Cory Walk 9/17/2025
Signature Date

Cory Walk
Printed Name
cory@permitswest.com
E-mail Address

SURVEYOR CERTIFICATIONS

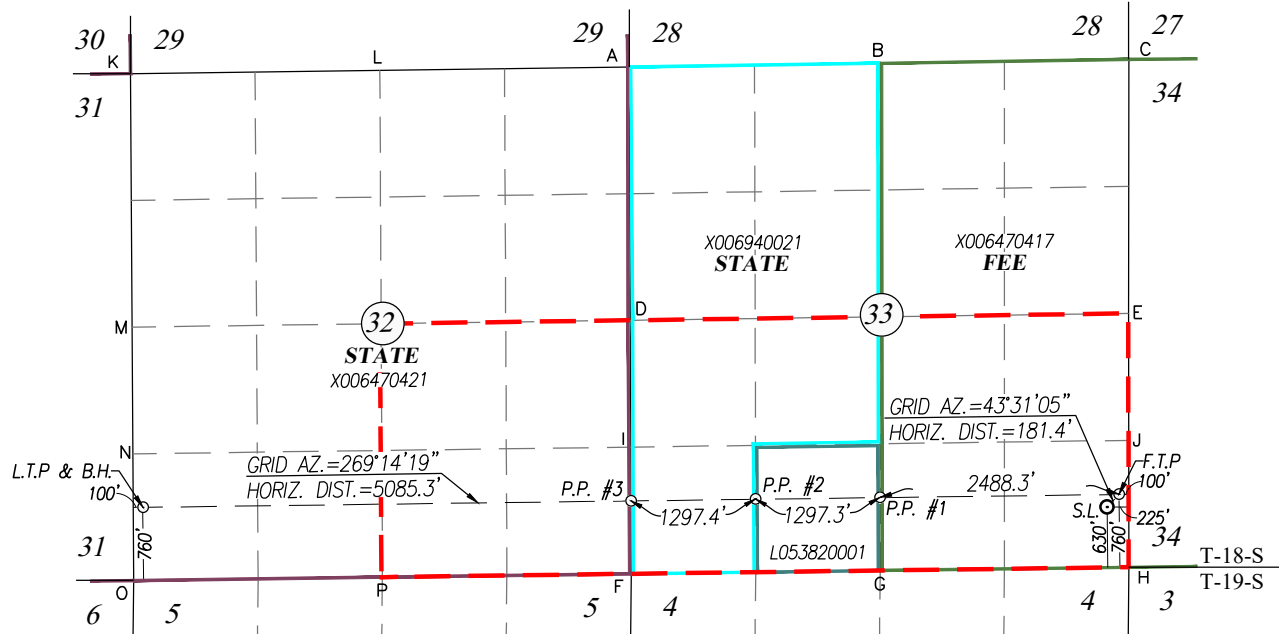
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Gary G. Eidson 06/30/2025
Signature and Seal of Professional Surveyor

Gary G. Eidson 12641 **JULY 18, 2023**
Certificate Number Date of Survey

SCALE: 1"=2000'



LAST TAKE POINT &
BOTTOM HOLE LOCATION
NAD 27 NME
Y= 617877.9 N
X= 539402.2 E
LAT.=32.698579° N
LONG.=104.205247° W

760' FSL & 100' FWL
SEC. 32

LAST TAKE POINT &
BOTTOM HOLE LOCATION
NAD 83 NME
Y= 617940.2 N
X= 580581.7 E
LAT.=32.698695° N
LONG.=104.205757° W

PENETRATION POINT #3
GEODETIC COORDINATES
NAD 27 NME
Y= 617945.4 N
X= 544485.8 E
LAT.=32.698747° N
LONG.=104.188721° W

759.9' FSL
SEC. 32 & SEC. 33

PENETRATION POINT #3
GEODETIC COORDINATES
NAD 83 NME
Y= 618007.8 N
X= 585665.3 E
LAT.=32.698863° N
LONG.=104.189231° W

PENETRATION POINT #2
GEODETIC COORDINATES
NAD 27 NME
Y= 617962.6 N
X= 545782.7 E
LAT.=32.698789° N
LONG.=104.184505° W

759.1' FSL & 1297.3' FWL
SEC. 33

PENETRATION POINT #2
GEODETIC COORDINATES
NAD 83 NME
Y= 618025.0 N
X= 586962.2 E
LAT.=32.698905° N
LONG.=104.185015° W

PENETRATION POINT #1
GEODETIC COORDINATES
NAD 27 NME
Y= 617979.9 N
X= 547079.6 E
LAT.=32.698831° N
LONG.=104.180289° W

758.3' FSL & 2588.1' FEL
SEC. 33

PENETRATION POINT #1
GEODETIC COORDINATES
NAD 83 NME
Y= 618042.2 N
X= 588259.1 E
LAT.=32.698948° N
LONG.=104.180799° W

FIRST TAKE POINT
GEODETIC COORDINATES
NAD 27 NME
Y= 618012.9 N
X= 549567.0 E
LAT.=32.698912° N
LONG.=104.172203° W

760' FSL & 100' FEL
SEC. 33

FIRST TAKE POINT
GEODETIC COORDINATES
NAD 83 NME
Y= 618075.3 N
X= 590746.5 E
LAT.=32.699029° N
LONG.=104.172713° W

SURFACE LOCATION
GEODETIC COORDINATES
NAD 27 NME
Y= 617881.4 N
X= 549442.2 E
LAT.=32.698551° N
LONG.=104.172609° W

630' FSL & 225' FEL
SEC. 33

SURFACE LOCATION
GEODETIC COORDINATES
NAD 83 NME
Y= 617943.8 N
X= 590621.7 E
LAT.=32.698668° N
LONG.=104.173119° W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 622462.0 N, X= 544468.0 E
B - Y= 622500.7 N, X= 547076.2 E
C - Y= 622541.5 N, X= 549668.2 E
D - Y= 619825.5 N, X= 544478.2 E
E - Y= 619897.4 N, X= 549665.5 E
F - Y= 617185.7 N, X= 544488.9 E
G - Y= 617221.7 N, X= 547080.2 E
H - Y= 617254.3 N, X= 549667.6 E
I - Y= 618505.6 N, X= 544483.5 E
J - Y= 618575.9 N, X= 549666.6 E
K - Y= 622393.3 N, X= 539274.1 E
L - Y= 622427.7 N, X= 541871.0 E
M - Y= 619754.5 N, X= 539290.9 E
N - Y= 618435.6 N, X= 539298.9 E
O - Y= 617116.8 N, X= 539306.9 E
P - Y= 617151.9 N, X= 541898.1 E

CORNER COORDINATES TABLE
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A - Y= 622524.5 N, X= 585647.4 E
B - Y= 622563.2 N, X= 588255.7 E
C - Y= 622604.0 N, X= 590847.6 E
D - Y= 619887.9 N, X= 585657.7 E
E - Y= 619959.8 N, X= 590845.0 E
F - Y= 617248.1 N, X= 585668.4 E
G - Y= 617284.1 N, X= 588259.7 E
H - Y= 617316.7 N, X= 590847.1 E
I - Y= 618568.0 N, X= 585663.0 E
J - Y= 618638.3 N, X= 590846.1 E
K - Y= 622455.7 N, X= 580453.5 E
L - Y= 622490.1 N, X= 583050.5 E
M - Y= 619816.9 N, X= 580470.4 E
N - Y= 618498.0 N, X= 580478.4 E
O - Y= 617179.1 N, X= 580486.4 E
P - Y= 617214.3 N, X= 583077.6 E

BUCHANAN 33 32 STATE COM #231H

PAGE 2 OF 2

ACK REL. W.O.:23110218

JWSC W.O.: 25.13.0209

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
	Submittal Type:	☒ Initial Submittal		
		☐ Amended Report ☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-57269	Pool Code 97569	Pool Name WINCHESTER; BONE SPRING, WEST	
Property Code 337761	Property Name BUCHANAN 33 32 STATE COM		Well Number 231H
OGRID No. 24010	Operator Name V-F PETROLEUM INC.		Ground Level Elevation 3563'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☒ Fee ☐ Tribal ☐ Federal	

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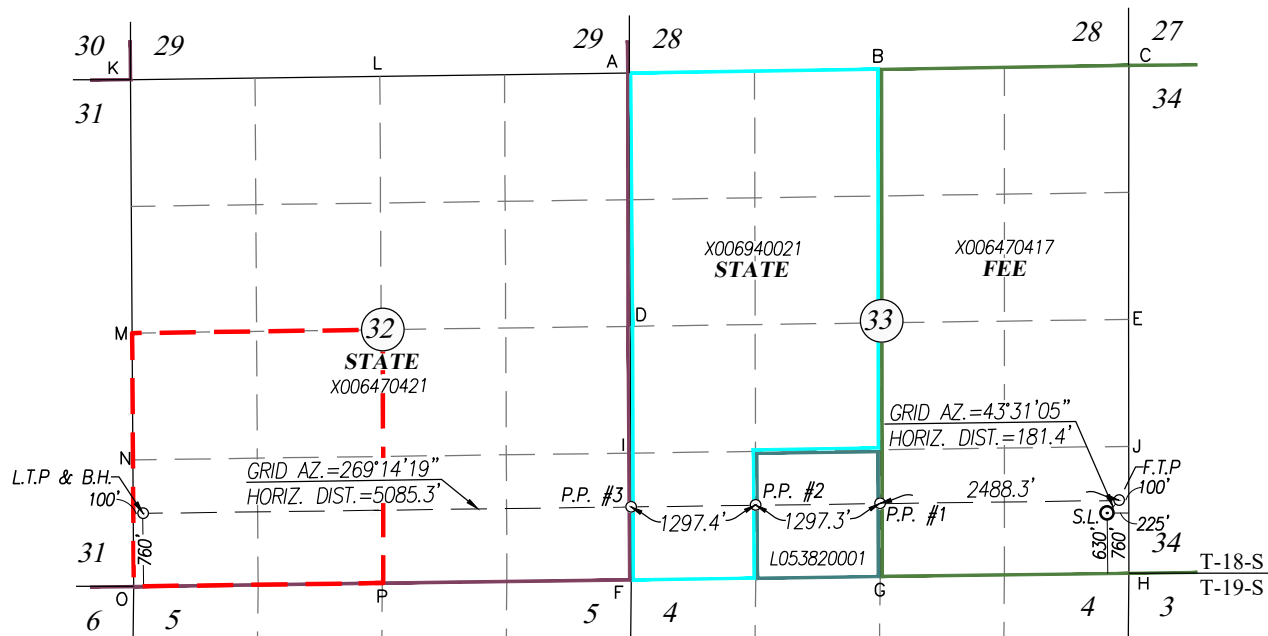
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SEC. 32

759.9' FSL
SEC. 32 & SEC. 33

759.1' FSL & 1297.3' FWL
SEC. 33

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SEC. 33

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SEC. 33

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BUCHANAN 33 32 STATE COM #231H

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JWSC W.O.: 25.13.0209

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Phone: (505) 476-3441

General Information
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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

Form APD Comments

Permit 394952

PERMIT COMMENTS

Operator Name and Address: V-F PETROLEUM INC [24010] P.O. Box 1889 Midland, TX 79702		API Number: 30-015-57269
		Well: Buchanan 33 32 State Com #231H
Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well for spacing unit.	9/19/2025

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

Form APD Conditions

Permit 394952

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: V-F PETROLEUM INC [24010] P.O. Box 1889 Midland, TX 79702	API Number: 30-015-57269
	Well: Buchanan 33 32 State Com #231H

OCD Reviewer	Condition
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: V-F Petroleum Inc. **OGRID:** 24010 **Date:** 07/01/2025

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Buchanan 33 32 State Com #231H		P 33 18S 28E	630FSL & 225FEL	650	1,000	1,200
Buchanan 33 32 State Com #232H		I 33 18S 28E	1944FSL & 200FEL	650	1,000	1,200

IV. Central Delivery Point Name: Buchanan CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Buchanan 33 32 State Com #231H		09/30/2025	10/20/2025	01/23/2026	02/10/2026	02/10/2026
Buchanan 33 32 State Com #232H		11/06/2025	11/19/2025	01/23/2026	02/10/2026	02/10/2026

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

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Jason Goss
Title: Engineering Manager
E-mail Address: jgoss@vfpetroleum.com
Date: 07/01/2025
Phone: (432) 683-3344
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

**V-F Petroleum Inc
Natural Gas Management Plan - Attachment**

VI: Separation Equipment

V-F Petroleum Inc (V-F) has sized all separation equipment to be adequate to handle the maximum anticipated production facility rates for all three phases. Adequate separation relates to retention time for Liquid-Liquid separation and velocity for Gas-Liquid separation. Ancillary equipment and metering will be selected to be serviced without flow interruptions or the need to release gas from the well.

VII: Operational PracticesDrilling Operations

V-F will capture or combust natural gas using best industry practices and control technologies during drilling operations. A properly sized flare stack will be located at a minimum of 100 feet from the nearest surface hole location. Gas may be vented in an emergency to avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.

Completion/Recompletion Operations

During initial flowback, V-F will route flowback fluids into a completion or storage tank, and if possible, flare instead of vent any natural gas with a properly sized flare stack until it is able to flow through a separator and down a line for sales. In the unlikely event that produced natural gas does not meet pipeline specifications, V-F will flare it for 60 days or until the natural gas meets pipeline specifications, whichever is sooner.

Production Operations

Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D (1) through (4). If there is no adequate takeaway for the separator gas, all effected wells will be shut in until takeaway issues are resolved. Exceptions would be emergency or major malfunction situations.

Performance Standards

All completion, production separation equipment, and storage tanks will be properly sized to handle the maximum anticipated volumes and pressures associated with each well. Any permanent storage tank associated with production operations that is routed to a flare or control device, will be equipped with an automatic gauging system that reduces the venting of natural gas. A properly sized flare stack will be securely anchored and installed at least 100 feet away from both the well(s) and storage tanks, and will be equipped with an automatic ignitor or continuous pilot. V-F will conduct AVO inspections on the frequency specified in 19.15.27.8 E (5) (b) and (c). V-F will do everything possible to minimize waste and will resolve emergencies as quickly and safely as possible.

Measurement and Estimation

Any vented or flared natural gas volumes will be estimated and reported appropriately. V-F will install equipment to measure the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units. All measuring equipment will adhere to industry standards set forth by the American Petroleum Institute Manual of Petroleum Measurement Standards Chapter 14.10. Measuring equipment will not be designed or equipped with a manifold that allows diversion of natural gas around a metering element, except for the sole purpose of inspecting and servicing the measurement equipment. Flared/vented

**V-F Petroleum Inc
Natural Gas Management Plan - Attachment**

natural gas will be estimated if metering is not practical due to low flow rate or low pressures. This estimation will include but will not be limited to an annual GOR test reported to the division.

VIII: Best Management Practices

V-F will utilize best management practices to minimize venting during active and planned maintenance. Potential actions that will be considered include, but are not limited to:

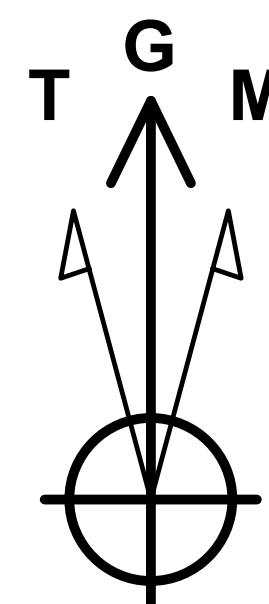
- Venting limited to the depressurizing of the subject equipment to ensure a safe repair
- Identifying alternate capture methods
- Temporarily reduce production or shut-in wells during maintenance
- Flare if natural gas does not meet pipeline specifications
- Perform preventative maintenance to avoid potential equipment failure



Project: Eddy County, NM (NAD83-NME)
Site: Buchanan 33-32 State Com
Well: Buchanan 33-32 State Com 231H
Wellbore: OH
Design: Plan 1 07-29-25
Riq:



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.09°
Magnetic North: 6.66°

Magnetic Field
Strength: 47263.6nT
Dip Angle: 60.25°
Date: 2025-09-23
Model: HDGM

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

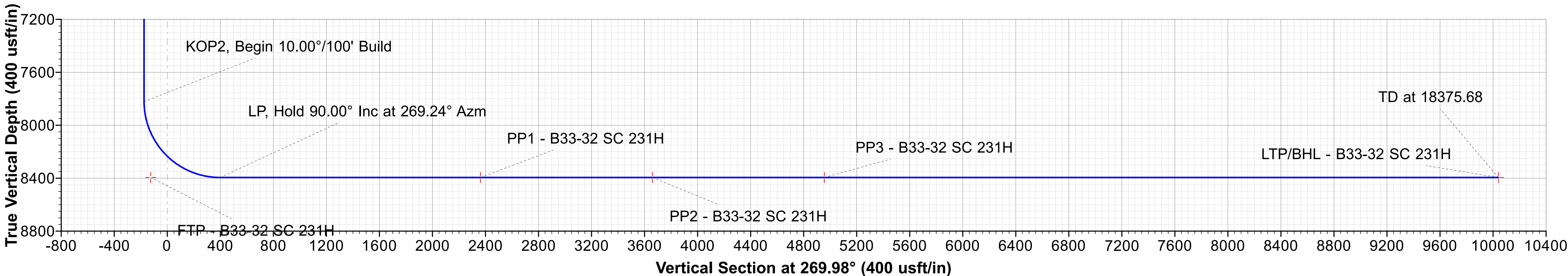
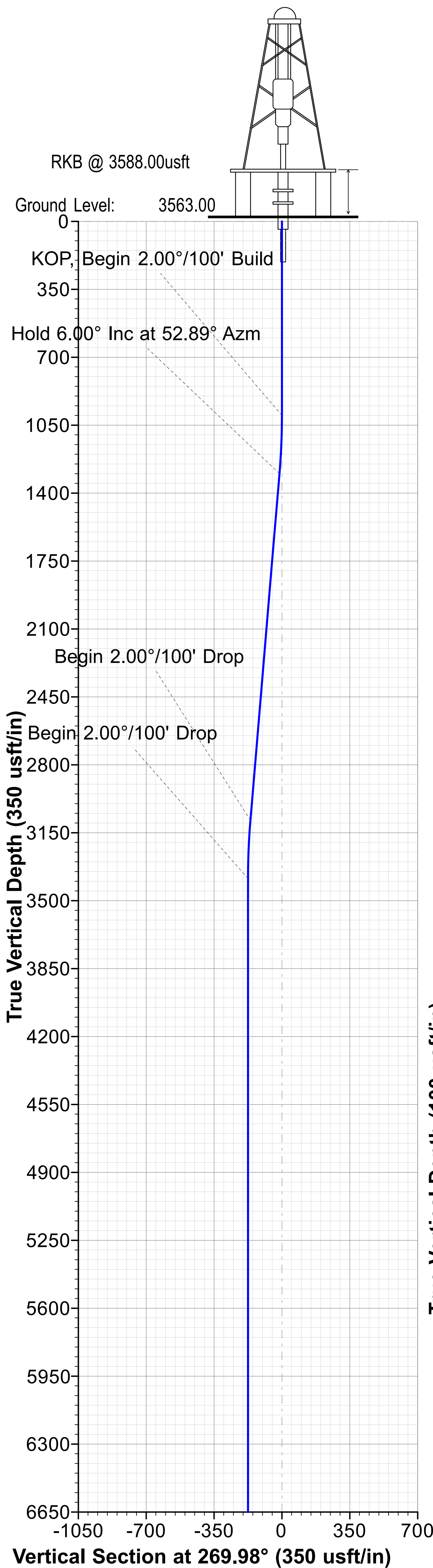
Local Origin: Well Buchanan 33-32 State Com 231H, Grid North

Latitude: 32° 41' 55.203497 N
Longitude: 104° 10' 23.229208 W

Grid East: 590621.70
Grid North: 617943.80
Scale Factor: 1.000

Geomagnetic Model: HDGM
Sample Date: 23-Sep-25
Magnetic Declination: 6.750°
Dip Angle from Horizontal: 60.250°
Magnetic Field Strength: 47263.60000000nT

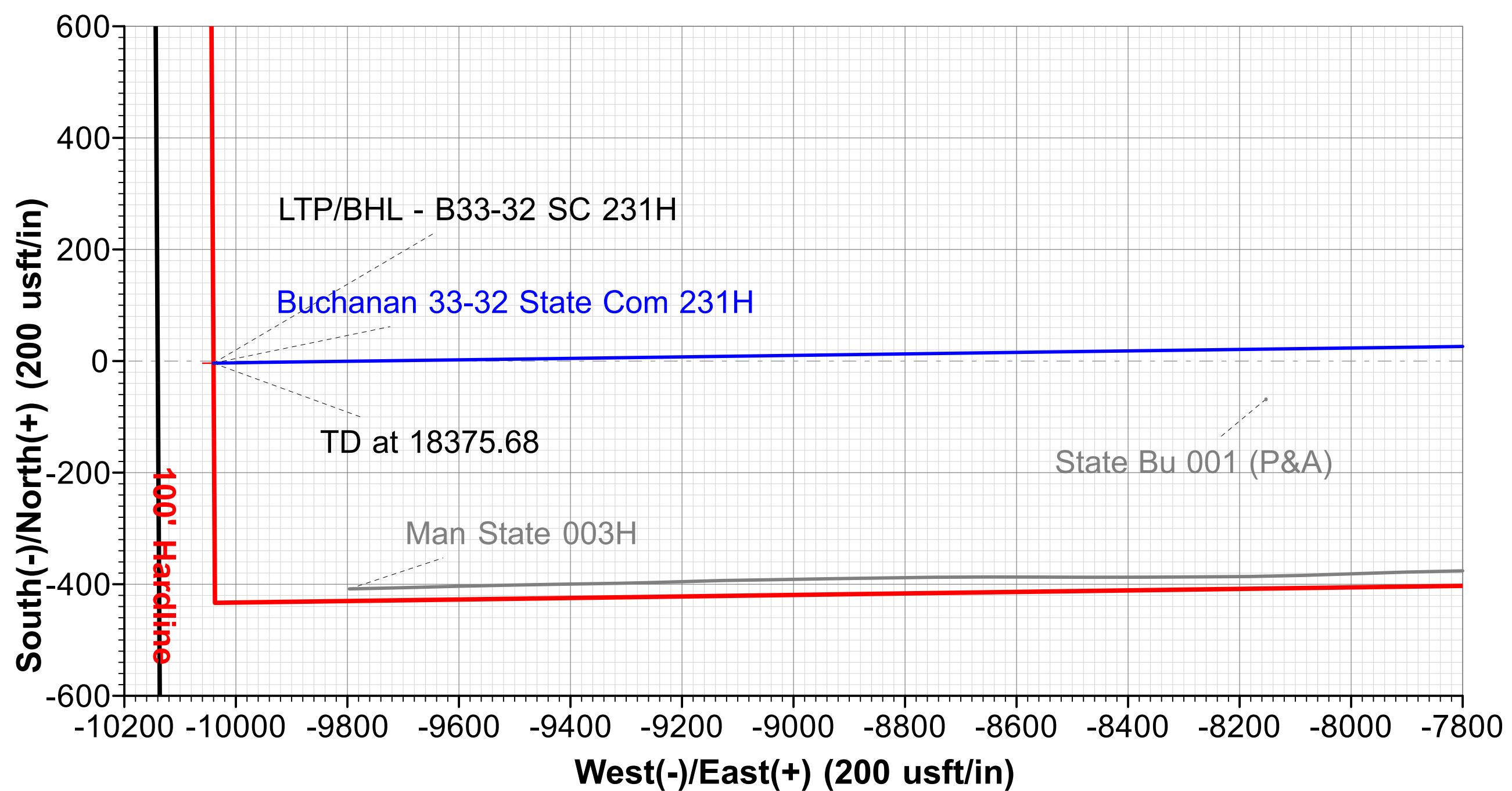
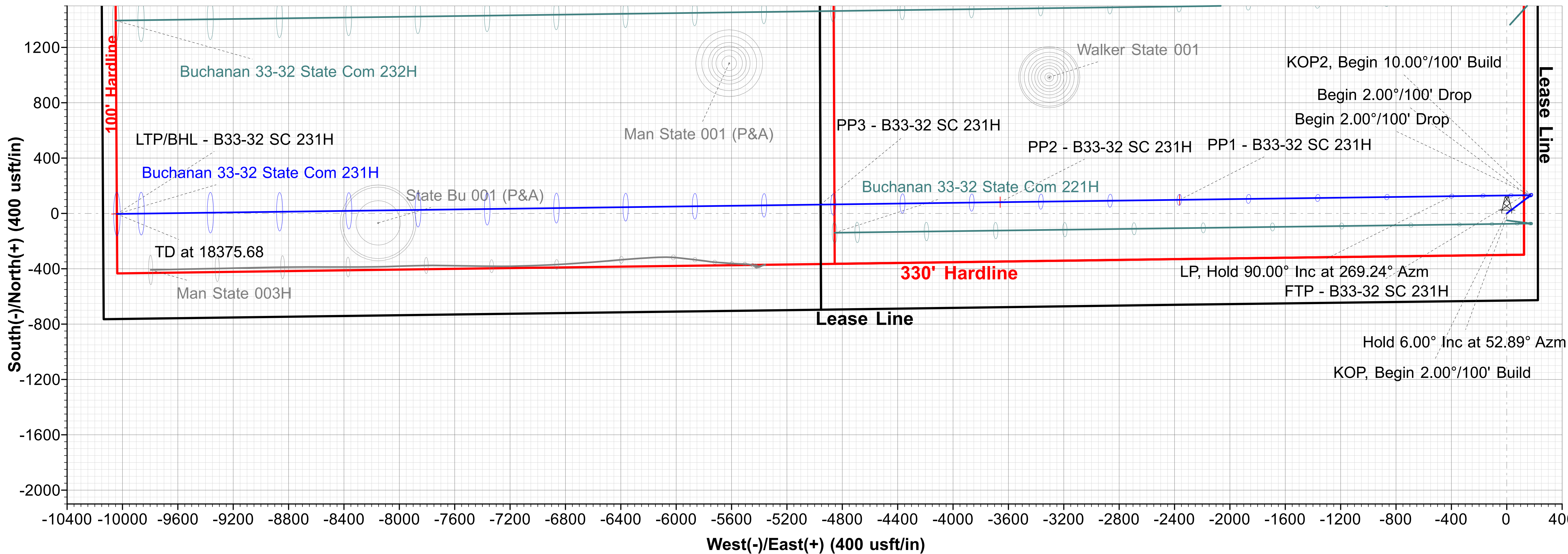
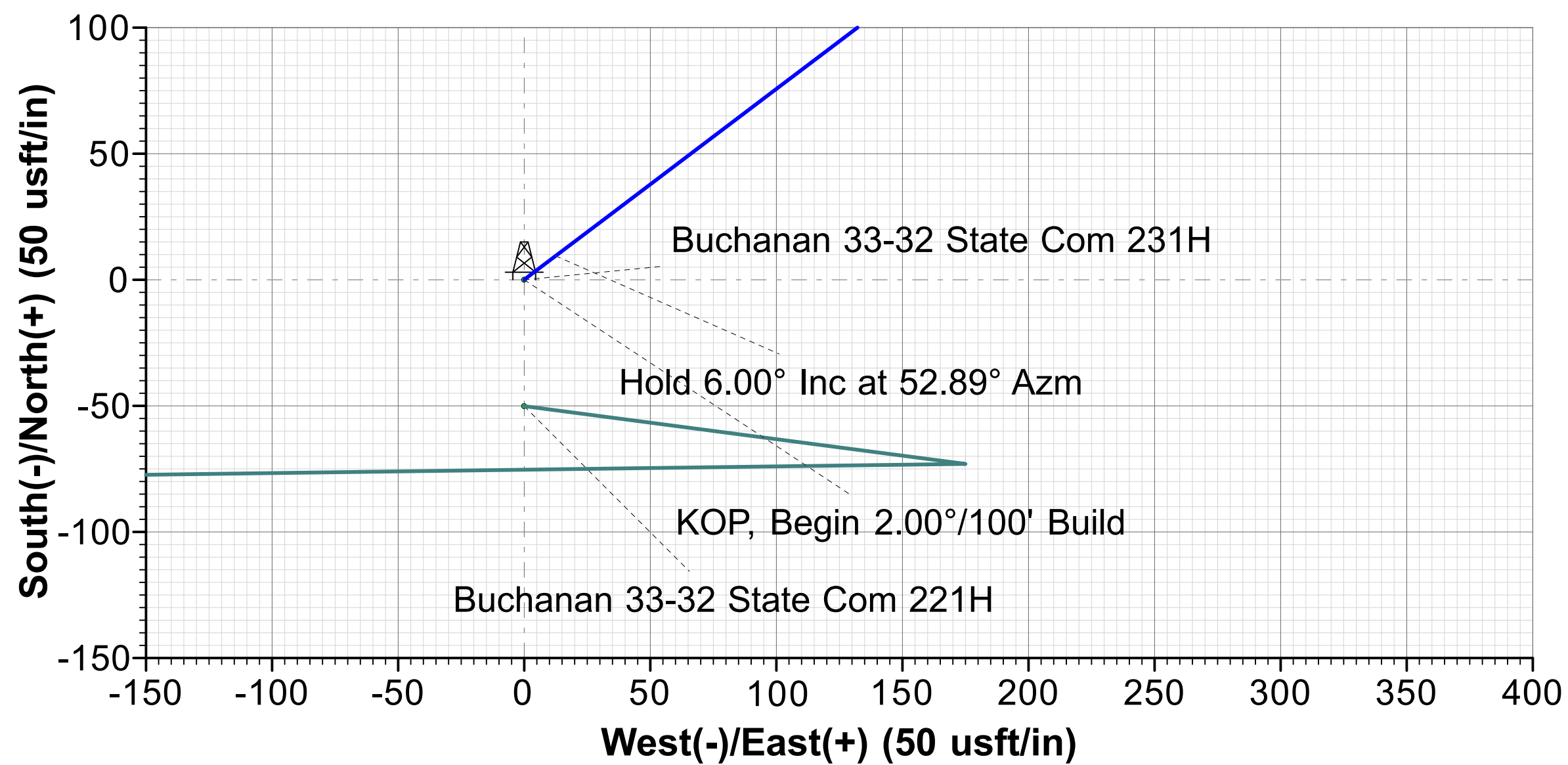
To convert a Magnetic Direction to a Grid Direction, Add 6.663°
To convert a Magnetic Direction to a True Direction, Add 6.750° East
To convert a True Direction to a Grid Direction, Subtract 0.087°



WELL DETAILS						
	Ground Level:	3563.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	617943.80	590621.70	32° 41' 55.203497 N	104° 10' 23.229208 W	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
FTP - B33-32 SC 231H	8395.00	131.50	124.80	618075.30	590746.50	32° 41' 56.502858 N	104° 10' 21.766354 W	
LTP/BHL - B33-32 SC 231H	8395.00	-3.60	-10040.00	617940.20	580581.70	32° 41' 55.302664 N	104° 12' 20.726647 W	
PP1 - B33-32 SC 231H	8395.00	98.40	-2362.60	618042.20	588259.10	32° 41' 56.211662 N	104° 10' 50.876868 W	
PP2 - B33-32 SC 231H	8395.00	81.20	-3659.50	618025.00	586962.20	32° 41' 56.059665 N	104° 11' 6.054716 W	
PP3 - B33-32 SC 231H	8395.00	64.00	-4956.40	618007.80	585665.30	32° 41' 55.907158 N	104° 11' 21.232551 W	

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
3	1299.88	6.00	52.89	1299.33	9.46	12.51	2.00	52.890	-12.51		Hold 6.00° Inc at 52.89° Azm
4	3097.05	6.00	52.89	3086.67	122.76	162.25	0.00	0.000	-162.30		Begin 2.00°/100' Drop
5	3396.93	0.00	0.00	3386.00	132.22	174.76	2.00	180.000	-174.81		Begin 2.00°/100' Drop
6	7832.97	0.00	0.00	7822.04	132.22	174.76	0.00	0.000	-174.81		KOP2, Begin 10.00°/100' Build
7	8732.97	90.00	269.24	8395.00	124.60	-398.15	10.00	269.238	398.10		LP, Hold 90.00° Inc at 269.24° Azm
8	18375.68	90.00	269.24	8395.00	-3.60	-10040.00	0.00	0.000	10040.00	LTP/BHL - B33-32 SC 231H	TD at 18375.68





VF Petroleum

**Eddy County, NM (NAD83-NME)
Buchanan 33-32 State Com
Buchanan 33-32 State Com 231H**

OH

Plan: Plan 1 07-29-25

Standard Planning Report

29 July, 2025





Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Buchanan 33-32 State Com 231H
Company:	VF Petroleum	TVD Reference:	RKB @ 3588.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	RKB @ 3588.00usft
Site:	Buchanan 33-32 State Com	North Reference:	Grid
Well:	Buchanan 33-32 State Com 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-29-25		

Project	Eddy County, NM (NAD83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Buchanan 33-32 State Com		
Site Position:		Northing:	617,893.70 usft
From:	Map	Easting:	590,621.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 54.707744 N
		Longitude:	104° 10' 23.230094 W

Well	Buchanan 33-32 State Com 231H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.087 °		
		Latitude:	32° 41' 55.203497 N
		Longitude:	104° 10' 23.229208 W
		Ground Level:	3,563.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2025-09-23	6.750	60.250	47,263.60000000

Design	Plan 1 07-29-25				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.98	

Plan Survey Tool Program	Date	2025-07-29			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	18,375.68 Plan 1 07-29-25 (OH)	B024Mc_MWD+HRGM+M#	MWD+HRGM+NoSag+MS#	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,299.88	6.00	52.89	1,299.33	9.46	12.51	2.00	2.00	0.00	52.890	
3,097.05	6.00	52.89	3,086.67	122.76	162.25	0.00	0.00	0.00	0.000	
3,396.93	0.00	0.00	3,386.00	132.22	174.76	2.00	-2.00	0.00	180.000	
7,832.97	0.00	0.00	7,822.04	132.22	174.76	0.00	0.00	0.00	0.000	
8,732.97	90.00	269.24	8,395.00	124.60	-398.15	10.00	10.00	0.00	269.238	
18,375.68	90.00	269.24	8,395.00	-3.60	-10,040.00	0.00	0.00	0.00	0.000	LTP/BHL - B33-32 5



Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Buchanan 33-32 State Com 231H
Company:	VF Petroleum	TVD Reference:	RKB @ 3588.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	RKB @ 3588.00usft
Site:	Buchanan 33-32 State Com	North Reference:	Grid
Well:	Buchanan 33-32 State Com 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-29-25		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,100.00	2.00	52.89	1,099.98	1.05	1.39	-1.39	2.00	2.00	0.00
1,200.00	4.00	52.89	1,199.84	4.21	5.57	-5.57	2.00	2.00	0.00
1,299.88	6.00	52.89	1,299.33	9.46	12.51	-12.51	2.00	2.00	0.00
Hold 6.00° Inc at 52.89° Azm									
1,300.00	6.00	52.89	1,299.45	9.47	12.52	-12.52	0.00	0.00	0.00
1,400.00	6.00	52.89	1,398.90	15.77	20.85	-20.85	0.00	0.00	0.00
1,500.00	6.00	52.89	1,498.36	22.08	29.18	-29.19	0.00	0.00	0.00
1,600.00	6.00	52.89	1,597.81	28.38	37.51	-37.52	0.00	0.00	0.00
1,700.00	6.00	52.89	1,697.26	34.69	45.85	-45.86	0.00	0.00	0.00
1,800.00	6.00	52.89	1,796.72	40.99	54.18	-54.19	0.00	0.00	0.00
1,900.00	6.00	52.89	1,896.17	47.29	62.51	-62.53	0.00	0.00	0.00
2,000.00	6.00	52.89	1,995.62	53.60	70.84	-70.86	0.00	0.00	0.00
2,100.00	6.00	52.89	2,095.07	59.90	79.18	-79.20	0.00	0.00	0.00
2,200.00	6.00	52.89	2,194.53	66.21	87.51	-87.53	0.00	0.00	0.00
2,300.00	6.00	52.89	2,293.98	72.51	95.84	-95.87	0.00	0.00	0.00
2,400.00	6.00	52.89	2,393.43	78.82	104.17	-104.20	0.00	0.00	0.00
2,500.00	6.00	52.89	2,492.88	85.12	112.51	-112.54	0.00	0.00	0.00
2,600.00	6.00	52.89	2,592.34	91.42	120.84	-120.87	0.00	0.00	0.00
2,700.00	6.00	52.89	2,691.79	97.73	129.17	-129.21	0.00	0.00	0.00
2,800.00	6.00	52.89	2,791.24	104.03	137.50	-137.54	0.00	0.00	0.00
2,900.00	6.00	52.89	2,890.69	110.34	145.84	-145.87	0.00	0.00	0.00
3,000.00	6.00	52.89	2,990.15	116.64	154.17	-154.21	0.00	0.00	0.00
3,097.05	6.00	52.89	3,086.67	122.76	162.25	-162.30	0.00	0.00	0.00
Begin 2.00°/100' Drop									
3,100.00	5.94	52.89	3,089.60	122.94	162.50	-162.54	2.00	-2.00	0.00
3,200.00	3.94	52.89	3,189.22	128.14	169.36	-169.41	2.00	-2.00	0.00
3,300.00	1.94	52.89	3,289.09	131.23	173.45	-173.50	2.00	-2.00	0.00
3,396.93	0.00	0.00	3,386.00	132.22	174.76	-174.81	2.00	-2.00	0.00
Begin 2.00°/100' Drop									
7,832.97	0.00	0.00	7,822.04	132.22	174.76	-174.81	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
7,900.00	6.70	269.24	7,888.92	132.17	170.84	-170.89	10.00	10.00	0.00
8,000.00	16.70	269.24	7,986.71	131.90	150.59	-150.64	10.00	10.00	0.00
8,100.00	26.70	269.24	8,079.51	131.41	113.66	-113.71	10.00	10.00	0.00
8,200.00	36.70	269.24	8,164.48	130.71	61.18	-61.23	10.00	10.00	0.00
8,300.00	46.70	269.24	8,239.04	129.83	-5.26	5.21	10.00	10.00	0.00
8,400.00	56.70	269.24	8,300.94	128.78	-83.63	83.58	10.00	10.00	0.00
8,500.00	66.70	269.24	8,348.28	127.62	-171.56	171.51	10.00	10.00	0.00
8,600.00	76.70	269.24	8,379.64	126.35	-266.38	266.33	10.00	10.00	0.00
8,700.00	86.70	269.24	8,394.05	125.04	-365.19	365.15	10.00	10.00	0.00
8,732.97	90.00	269.24	8,395.00	124.60	-398.15	398.10	10.00	10.00	0.00
LP, Hold 90.00° Inc at 269.24° Azm									
8,800.00	90.00	269.24	8,395.00	123.71	-465.17	465.12	0.00	0.00	0.00
8,900.00	90.00	269.24	8,395.00	122.38	-565.16	565.11	0.00	0.00	0.00
9,000.00	90.00	269.24	8,395.00	121.05	-665.15	665.11	0.00	0.00	0.00
9,100.00	90.00	269.24	8,395.00	119.72	-765.14	765.10	0.00	0.00	0.00
9,200.00	90.00	269.24	8,395.00	118.39	-865.13	865.09	0.00	0.00	0.00
9,300.00	90.00	269.24	8,395.00	117.06	-965.12	965.08	0.00	0.00	0.00
9,400.00	90.00	269.24	8,395.00	115.73	-1,065.11	1,065.07	0.00	0.00	0.00
9,500.00	90.00	269.24	8,395.00	114.40	-1,165.11	1,165.06	0.00	0.00	0.00



Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Buchanan 33-32 State Com 231H
Company:	VF Petroleum	TVD Reference:	RKB @ 3588.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	RKB @ 3588.00usft
Site:	Buchanan 33-32 State Com	North Reference:	Grid
Well:	Buchanan 33-32 State Com 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-29-25		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.00	90.00	269.24	8,395.00	113.08	-1,265.10	1,265.06	0.00	0.00	0.00
9,700.00	90.00	269.24	8,395.00	111.75	-1,365.09	1,365.05	0.00	0.00	0.00
9,800.00	90.00	269.24	8,395.00	110.42	-1,465.08	1,465.04	0.00	0.00	0.00
9,900.00	90.00	269.24	8,395.00	109.09	-1,565.07	1,565.03	0.00	0.00	0.00
10,000.00	90.00	269.24	8,395.00	107.76	-1,665.06	1,665.02	0.00	0.00	0.00
10,100.00	90.00	269.24	8,395.00	106.43	-1,765.05	1,765.01	0.00	0.00	0.00
10,200.00	90.00	269.24	8,395.00	105.10	-1,865.04	1,865.01	0.00	0.00	0.00
10,300.00	90.00	269.24	8,395.00	103.77	-1,965.03	1,965.00	0.00	0.00	0.00
10,400.00	90.00	269.24	8,395.00	102.44	-2,065.03	2,064.99	0.00	0.00	0.00
10,500.00	90.00	269.24	8,395.00	101.11	-2,165.02	2,164.98	0.00	0.00	0.00
10,600.00	90.00	269.24	8,395.00	99.78	-2,265.01	2,264.97	0.00	0.00	0.00
10,700.00	90.00	269.24	8,395.00	98.45	-2,365.00	2,364.96	0.00	0.00	0.00
10,800.00	90.00	269.24	8,395.00	97.12	-2,464.99	2,464.96	0.00	0.00	0.00
10,900.00	90.00	269.24	8,395.00	95.79	-2,564.98	2,564.95	0.00	0.00	0.00
11,000.00	90.00	269.24	8,395.00	94.46	-2,664.97	2,664.94	0.00	0.00	0.00
11,100.00	90.00	269.24	8,395.00	93.13	-2,764.96	2,764.93	0.00	0.00	0.00
11,200.00	90.00	269.24	8,395.00	91.80	-2,864.96	2,864.92	0.00	0.00	0.00
11,300.00	90.00	269.24	8,395.00	90.47	-2,964.95	2,964.91	0.00	0.00	0.00
11,400.00	90.00	269.24	8,395.00	89.14	-3,064.94	3,064.91	0.00	0.00	0.00
11,500.00	90.00	269.24	8,395.00	87.81	-3,164.93	3,164.90	0.00	0.00	0.00
11,600.00	90.00	269.24	8,395.00	86.48	-3,264.92	3,264.89	0.00	0.00	0.00
11,700.00	90.00	269.24	8,395.00	85.15	-3,364.91	3,364.88	0.00	0.00	0.00
11,800.00	90.00	269.24	8,395.00	83.83	-3,464.90	3,464.87	0.00	0.00	0.00
11,900.00	90.00	269.24	8,395.00	82.50	-3,564.89	3,564.86	0.00	0.00	0.00
12,000.00	90.00	269.24	8,395.00	81.17	-3,664.88	3,664.86	0.00	0.00	0.00
12,100.00	90.00	269.24	8,395.00	79.84	-3,764.88	3,764.85	0.00	0.00	0.00
12,200.00	90.00	269.24	8,395.00	78.51	-3,864.87	3,864.84	0.00	0.00	0.00
12,300.00	90.00	269.24	8,395.00	77.18	-3,964.86	3,964.83	0.00	0.00	0.00
12,400.00	90.00	269.24	8,395.00	75.85	-4,064.85	4,064.82	0.00	0.00	0.00
12,500.00	90.00	269.24	8,395.00	74.52	-4,164.84	4,164.81	0.00	0.00	0.00
12,600.00	90.00	269.24	8,395.00	73.19	-4,264.83	4,264.80	0.00	0.00	0.00
12,700.00	90.00	269.24	8,395.00	71.86	-4,364.82	4,364.80	0.00	0.00	0.00
12,800.00	90.00	269.24	8,395.00	70.53	-4,464.81	4,464.79	0.00	0.00	0.00
12,900.00	90.00	269.24	8,395.00	69.20	-4,564.80	4,564.78	0.00	0.00	0.00
13,000.00	90.00	269.24	8,395.00	67.87	-4,664.80	4,664.77	0.00	0.00	0.00
13,100.00	90.00	269.24	8,395.00	66.54	-4,764.79	4,764.76	0.00	0.00	0.00
13,200.00	90.00	269.24	8,395.00	65.21	-4,864.78	4,864.75	0.00	0.00	0.00
13,300.00	90.00	269.24	8,395.00	63.88	-4,964.77	4,964.75	0.00	0.00	0.00
13,400.00	90.00	269.24	8,395.00	62.55	-5,064.76	5,064.74	0.00	0.00	0.00
13,500.00	90.00	269.24	8,395.00	61.22	-5,164.75	5,164.73	0.00	0.00	0.00
13,600.00	90.00	269.24	8,395.00	59.89	-5,264.74	5,264.72	0.00	0.00	0.00
13,700.00	90.00	269.24	8,395.00	58.56	-5,364.73	5,364.71	0.00	0.00	0.00
13,800.00	90.00	269.24	8,395.00	57.23	-5,464.73	5,464.70	0.00	0.00	0.00
13,900.00	90.00	269.24	8,395.00	55.91	-5,564.72	5,564.70	0.00	0.00	0.00
14,000.00	90.00	269.24	8,395.00	54.58	-5,664.71	5,664.69	0.00	0.00	0.00
14,100.00	90.00	269.24	8,395.00	53.25	-5,764.70	5,764.68	0.00	0.00	0.00
14,200.00	90.00	269.24	8,395.00	51.92	-5,864.69	5,864.67	0.00	0.00	0.00
14,300.00	90.00	269.24	8,395.00	50.59	-5,964.68	5,964.66	0.00	0.00	0.00
14,400.00	90.00	269.24	8,395.00	49.26	-6,064.67	6,064.65	0.00	0.00	0.00
14,500.00	90.00	269.24	8,395.00	47.93	-6,164.66	6,164.65	0.00	0.00	0.00
14,600.00	90.00	269.24	8,395.00	46.60	-6,264.65	6,264.64	0.00	0.00	0.00
14,700.00	90.00	269.24	8,395.00	45.27	-6,364.65	6,364.63	0.00	0.00	0.00
14,800.00	90.00	269.24	8,395.00	43.94	-6,464.64	6,464.62	0.00	0.00	0.00
14,900.00	90.00	269.24	8,395.00	42.61	-6,564.63	6,564.61	0.00	0.00	0.00



Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Buchanan 33-32 State Com 231H
Company:	VF Petroleum	TVD Reference:	RKB @ 3588.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	RKB @ 3588.00usft
Site:	Buchanan 33-32 State Com	North Reference:	Grid
Well:	Buchanan 33-32 State Com 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-29-25		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,000.00	90.00	269.24	8,395.00	41.28	-6,664.62	6,664.60	0.00	0.00	0.00	
15,100.00	90.00	269.24	8,395.00	39.95	-6,764.61	6,764.60	0.00	0.00	0.00	
15,200.00	90.00	269.24	8,395.00	38.62	-6,864.60	6,864.59	0.00	0.00	0.00	
15,300.00	90.00	269.24	8,395.00	37.29	-6,964.59	6,964.58	0.00	0.00	0.00	
15,400.00	90.00	269.24	8,395.00	35.96	-7,064.58	7,064.57	0.00	0.00	0.00	
15,500.00	90.00	269.24	8,395.00	34.63	-7,164.58	7,164.56	0.00	0.00	0.00	
15,600.00	90.00	269.24	8,395.00	33.30	-7,264.57	7,264.55	0.00	0.00	0.00	
15,700.00	90.00	269.24	8,395.00	31.97	-7,364.56	7,364.55	0.00	0.00	0.00	
15,800.00	90.00	269.24	8,395.00	30.64	-7,464.55	7,464.54	0.00	0.00	0.00	
15,900.00	90.00	269.24	8,395.00	29.31	-7,564.54	7,564.53	0.00	0.00	0.00	
16,000.00	90.00	269.24	8,395.00	27.99	-7,664.53	7,664.52	0.00	0.00	0.00	
16,100.00	90.00	269.24	8,395.00	26.66	-7,764.52	7,764.51	0.00	0.00	0.00	
16,200.00	90.00	269.24	8,395.00	25.33	-7,864.51	7,864.50	0.00	0.00	0.00	
16,300.00	90.00	269.24	8,395.00	24.00	-7,964.50	7,964.50	0.00	0.00	0.00	
16,400.00	90.00	269.24	8,395.00	22.67	-8,064.50	8,064.49	0.00	0.00	0.00	
16,500.00	90.00	269.24	8,395.00	21.34	-8,164.49	8,164.48	0.00	0.00	0.00	
16,600.00	90.00	269.24	8,395.00	20.01	-8,264.48	8,264.47	0.00	0.00	0.00	
16,700.00	90.00	269.24	8,395.00	18.68	-8,364.47	8,364.46	0.00	0.00	0.00	
16,800.00	90.00	269.24	8,395.00	17.35	-8,464.46	8,464.45	0.00	0.00	0.00	
16,900.00	90.00	269.24	8,395.00	16.02	-8,564.45	8,564.45	0.00	0.00	0.00	
17,000.00	90.00	269.24	8,395.00	14.69	-8,664.44	8,664.44	0.00	0.00	0.00	
17,100.00	90.00	269.24	8,395.00	13.36	-8,764.43	8,764.43	0.00	0.00	0.00	
17,200.00	90.00	269.24	8,395.00	12.03	-8,864.42	8,864.42	0.00	0.00	0.00	
17,300.00	90.00	269.24	8,395.00	10.70	-8,964.42	8,964.41	0.00	0.00	0.00	
17,400.00	90.00	269.24	8,395.00	9.37	-9,064.41	9,064.40	0.00	0.00	0.00	
17,500.00	90.00	269.24	8,395.00	8.04	-9,164.40	9,164.39	0.00	0.00	0.00	
17,600.00	90.00	269.24	8,395.00	6.71	-9,264.39	9,264.39	0.00	0.00	0.00	
17,700.00	90.00	269.24	8,395.00	5.38	-9,364.38	9,364.38	0.00	0.00	0.00	
17,800.00	90.00	269.24	8,395.00	4.05	-9,464.37	9,464.37	0.00	0.00	0.00	
17,900.00	90.00	269.24	8,395.00	2.72	-9,564.36	9,564.36	0.00	0.00	0.00	
18,000.00	90.00	269.24	8,395.00	1.39	-9,664.35	9,664.35	0.00	0.00	0.00	
18,100.00	90.00	269.24	8,395.00	0.07	-9,764.35	9,764.34	0.00	0.00	0.00	
18,200.00	90.00	269.24	8,395.00	-1.26	-9,864.34	9,864.34	0.00	0.00	0.00	
18,300.00	90.00	269.24	8,395.00	-2.59	-9,964.33	9,964.33	0.00	0.00	0.00	
18,375.68	90.00	269.24	8,395.00	-3.60	-10,040.00	10,040.00	0.00	0.00	0.00	
TD at 18375.68										



Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Buchanan 33-32 State Com 231H
Company:	VF Petroleum	TVD Reference:	RKB @ 3588.00usft
Project:	Eddy County, NM (NAD83-NME)	MD Reference:	RKB @ 3588.00usft
Site:	Buchanan 33-32 State Com	North Reference:	Grid
Well:	Buchanan 33-32 State Com 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-29-25		

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP/BHL - B33-32 SC - hit/miss target - Shape - Point	0.00	0.01	8,395.00	-3.60	-10,040.00	617,940.20	580,581.70	32° 41' 55.302664 N	4° 12' 20.726647 W
PP2 - B33-32 SC 231 - plan misses target center by 0.04usft at 11994.62usft MD (8395.00 TVD, 81.24 N, -3659.50 E) - Point	0.00	0.00	8,395.00	81.20	-3,659.50	618,025.00	586,962.20	32° 41' 56.059665 N	04° 11' 6.054716 W
FTP - B33-32 SC 231 - plan misses target center by 203.08usft at 8300.00usft MD (8239.04 TVD, 129.83 N, -5.26 E) - Point	0.00	0.00	8,395.00	131.50	124.80	618,075.30	590,746.50	32° 41' 56.502859 N	4° 10' 21.766354 W
PP3 - B33-32 SC 231 - plan misses target center by 0.01usft at 13291.63usft MD (8395.00 TVD, 63.99 N, -4956.40 E) - Point	0.00	0.00	8,395.00	64.00	-4,956.40	618,007.80	585,665.30	32° 41' 55.907158 N	4° 11' 21.232551 W
PP1 - B33-32 SC 231 - plan misses target center by 0.08usft at 10697.60usft MD (8395.00 TVD, 98.48 N, -2362.60 E) - Point	0.00	0.00	8,395.00	98.40	-2,362.60	618,042.20	588,259.10	32° 41' 56.211662 N	4° 10' 50.876868 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
1,299.88	1,299.33	9.46	12.51	Hold 6.00° Inc at 52.89° Azm
3,097.05	3,086.67	122.76	162.25	Begin 2.00°/100' Drop
3,396.93	3,386.00	132.22	174.76	Begin 2.00°/100' Drop
7,832.97	7,822.04	132.22	174.76	KOP2, Begin 10.00°/100' Build
8,732.97	8,395.00	124.60	-398.15	LP, Hold 90.00° Inc at 269.24° Azm
18,375.68	8,395.00	-3.60	-10,040.00	TD at 18375.68