Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Sante Fe Main Office

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

# 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 394947

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

Operator Name and Address     V-F PETROLEUM INC		2. OGRID Number 24010
P.O. Box 1889 Midland, TX 79702		3. API Number 30-015-57235
4. Property Code 337743	5. Property Name Buchanan 33 State Com	6. Well No. 221H

7. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
	Р	33	18S	28E	Р	580	S	225	E	Eddy	
-	8. Proposed Bottom Hole Location										

Toposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	33	18S	28E	M	555	S	100	W	Eddy

9. Pool Information

TRAVIS; BONESPRING(O)	97257

**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 11964	18. Formation  Bone Spring	19. Contractor	20. Spud Date 9/1/2025
Depth to Ground water		-		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

	Ziii iopooda dadiiig alia dolliolit i rogialii											
	Type	Hole Size	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					
Ī	Prod	8.75	5.5	20	11964	1800	2500					

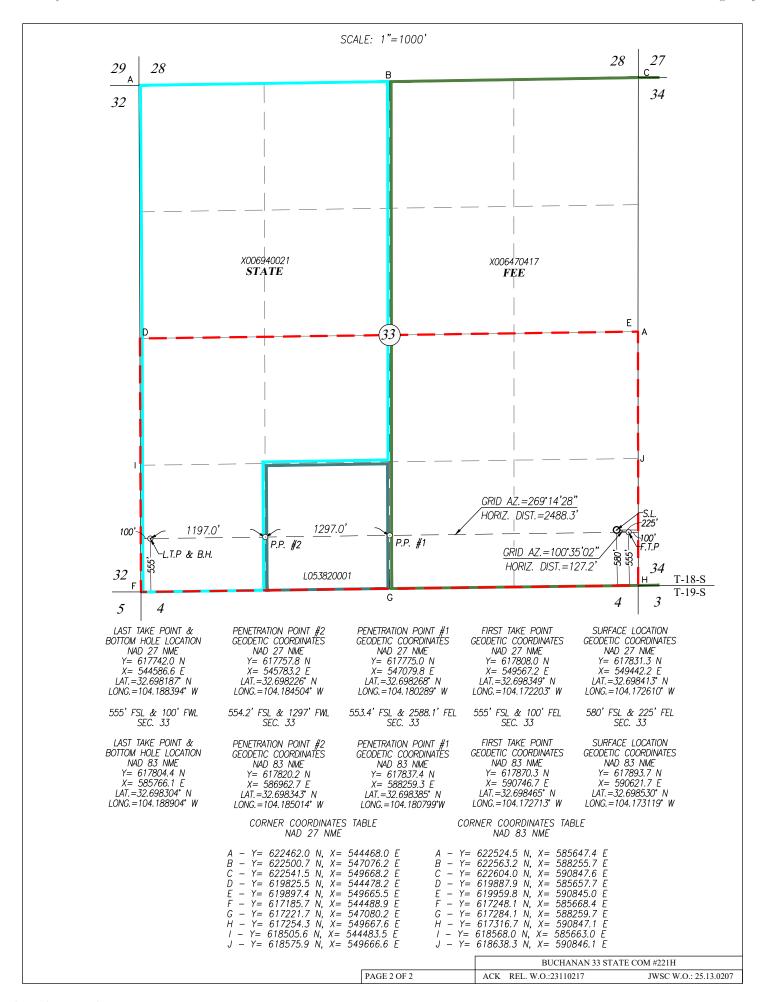
#### Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

22.1 Topocca Biomode 1 Toyondon 1 Togram									
Туре	Working Pressure	Test Pressure	Manufacturer						
Double Ram	Double Ram 5000		TBD						
Annular	5000	5000	TBD						

knowledge and b I hereby certify th or recompletion of	elief. at no additives containing PFAS ch of this well.	s true and complete to the best of my nemicals will be added to the completion NMAC 🗵 and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION
Printed Name:	Electronically filed by Pam O'Ne	il	Approved By:	Jeffrey Harrison	
Title:	Regulatory Manager		Title:	Petroleum Specialist III	
Email Address:	pamo@vfpetroleum.com		Approved Date:	9/9/2025	Expiration Date: 9/9/2027
Date:	8/7/2025	Phone: 432-683-3344	Conditions of App	roval Attached	

C-102 Submit Electronically Submit Electronically State of New Energy, Minerals & Natura				al Resources Departr	nent	al Resources Department					
	Electronically D Permitting			OIL C	CONSERVA	TION DIVISION			▼ Initial Sub	omittal	
								Submittal	☐ Amended		
					Type: As Drilled						
					WELL LOCAT	TION INFORMATION	J				
API Nu	mber		Pool Code		WELL LOCAT	Pool Name	`				
	15-5723	5	97257			TRAVIS; BONE SI	PRING				
Propert 3377	y Code		Property Na		LICILANIAN		<u></u>		Well Number		
OGRID			Operator Na		UCHANAN	33 STATE CON	VI		Ground Leve	221H	
24010			Operator 14	inic	V-F PETR	OLEUM INC.				3563'	
Surface	Owner:	State 🛛 Fee 🗌	Tribal 🗆 Fed	eral		Mineral Owner: 🛛 S	State 🛭 Fee [	☐ Tribal ☐	Federal		
	G = 4 : =	T1:	D	T -4	1	ace Location	T - 414 I -	Ι,	r ta . 4 .	Committee	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
P	33	18-S	28-E	-	580 FSL	225 FEL	32.698	530° 1	04.173119°	EDDY	
			ı		1	Hole Location	1				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
M	33	18-S	28-E	-	555 FSL	100 FWL	32.698	304°  1	04.188904°	EDDY	
Dedicat	ed Acres	Infill or Defin	-	1	; Well API	Overlapping Spacing I	Unit (Y/N)	Consolidat			
32	20	Defini	ng	30-01	15-xxxx	N			С		
Order N	lumbers.	R-22946; N	NSP-2180			Well setbacks are under Common Ownership: MYes □No					
					Kick O	ff Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
P	33	18-S	28-E	_	580 FSL	225 FEL	32.698		04.173119°	EDDY	
		10.5	20 2			ike Point (FTP)	32.090.		0 11170117	LDD I	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
P	33	18-S	28-E	_	555 FSL	100 FEL			Ü	EDDY	
1	33	10-5	20-L							LDD I	
UL	Section	Township	Range	Lot	Ft. from N/S	ke Point (LTP)           Ft. from E/W         Latitude         Longitude         Cou			County		
M	33	18-S	28-E	Lot	555 FSL	100 FWL	32.698		04.188904°	EDDY	
IVI	33	10-3	20-E	_	333 FSL	100 F W L	32.098.	304   1	U4.1009U4	EDD1	
Unitized	l Area or Are	a of Uniform Inte	erest Y	Spacing	Unit Type 🛛 Horiz	zontal   Vertical	Grou	nd Floor Ele	vation: 3563	3'	
				1			'				
		TFICATIONS				SURVEYOR CERTIFIC	CATIONS				
best of r that this in the la well at t unleased	ny knowledge organization nd including his location p I mineral inte	ne information con e and belief, and, either owns a wo the proposed both ursuant to a contrest, or to a volur ore entered by the	if the well is a rking interest of om hole location ract with an own stary pooling as	vertical or or or unleased on on or has a i oner of a wo	directional well, mineral interest right to drill this rking interest or	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.				G. E/DSON	
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.				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.  (C. E/D)  ME + (12641)				12641			
('19	ry Wal		8/-	4/2025		12 ary 2 8	Woon	06/25	5/2025	WAL SUMME	
Signatur	re		Date			Signature and Seal of Prof	essional Surve	yor	/		
Co	ory Walk					C C F:1 12(1)		п	II V 10 2022		
Printed 1	-					Gary G. Eidson 12641 Certificate Number	Date of Surv		JLY 18, 2023		
		nitswest.con	n					,			
E-mail A		mowest.cul	11								
L-man F	1441033					PAGE 1 OF 2	ACK REL.	W.O.:2311021	7	JWSC W.O.: 25.13.0207	



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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 Conditions

Permit 394947

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
V-F PETROLEUM INC [24010]	30-015-57235
P.O. Box 1889	Well:
Midland, TX 79702	Buchanan 33 State Com #221H

OCD Reviewer	Condition
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.
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	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	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.
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.

# State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

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

# Section 1 – Plan Description Effective May 25, 2021

I. Operator: V-F Petroleum	n Inc.		OGRID:	24010	)	Date: <u>07/</u>	01/2025
II. Type: ⊠ Original □ A	mendmen	t due to □ 19.15.	27.9.D(6)(a) NM	ИАС □	] 19.15.27.9.D(6	)(b) NMAC □	Other.
If Other, please describe:							
III. Well(s): Provide the fo be recompleted from a sing						ells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages		Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Buchanan 33 State Com #221H		P 33 18S 28E	580FSL & 225F	FEL	550	900	1,000
Buchanan 33 State Com #222H		I 33 18S 28E	1944FSL & 200	FEL	550	900	1,000
V. Anticipated Schedule: I proposed to be recompleted  Well Name				ntral d		ll or set of wells Initial Flow Back Date	First Production Date
					Date		
Buchanan 33 State Com #221H		09/15/2025	09/30/2025		01/03/2026	02/10/2026	02/10/2026
Buchanan 33 State Com #222H		10/22/2025	11/06/2025		01/03/2026	02/10/2026	02/10/2026
VII. Operational Practice Subsection A through F of S  VIII. Best Management P during active and planned n	s: ⊠ Atta 19.15.27.8 ractices:	ch a complete de NMAC.	escription of the	action	s Operator will	take to comply	with the requirements of

# 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	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. $\square$ 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 Capa	<b>city.</b> The natural	gas gathering	system $\square$	will $\square$ will	not have	capacity to	gather	100% of th	ne anticipated	natural ga
prod	uction volur	ne from the well	prior to the da	te of first p	production.						

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

A 1 .	O 1	, 1		1 4.	•	4 41 .	ased line pres	
 Attach (	Inerator	'c nlan to	manage	nraduction	in rechange	to the incre	aced line nrec	CILTO

XIV. Confidentiality: $\square$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the informat	ion 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 spec	ific information
for which confidentiality is asserted and the basis for such assertion.	

# Section 3 - Certifications <u>Effective May 25, 2021</u>

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

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

into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

**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;

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

- **(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: Cory Walk
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 08/07/2025
Phone: (505) 466-8120
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 Practices**

#### **Drilling 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

RKB @ 3588.00usft

Ground Level:

700-

1050-

1400-

2100

3563.00

KOP, Begin 2.00°/100' Build

Hold 6.00° Inc at 97.46° Azm

Begin 2.00°/100' Drop

-700

Vertical Section at 268.95° (350 usft/in)

Begin Vertical Hold

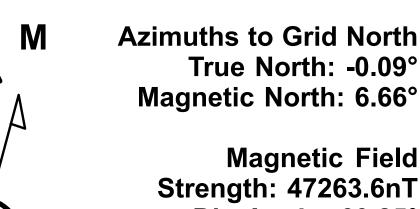
**Project: Eddy County, NM (NAD83-NME)** Site: Buchanan 33-32 State Com

Well: Buchanan 33-32 State Com 221H

Wellbore: OH

Design: Plan 1 07-29-25





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 221H, Grid North Latitude: 32° 41' 54.707744 N

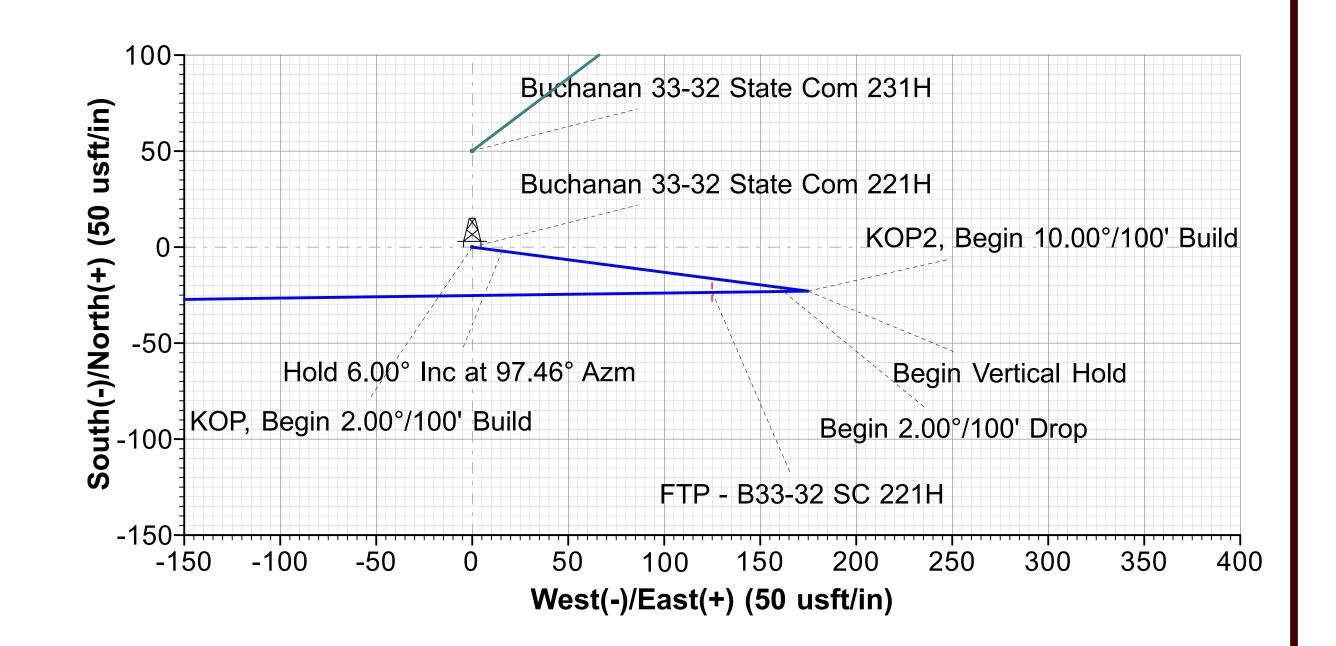
Longitude: 104° 10' 23.230094 W Grid East: 590621.70

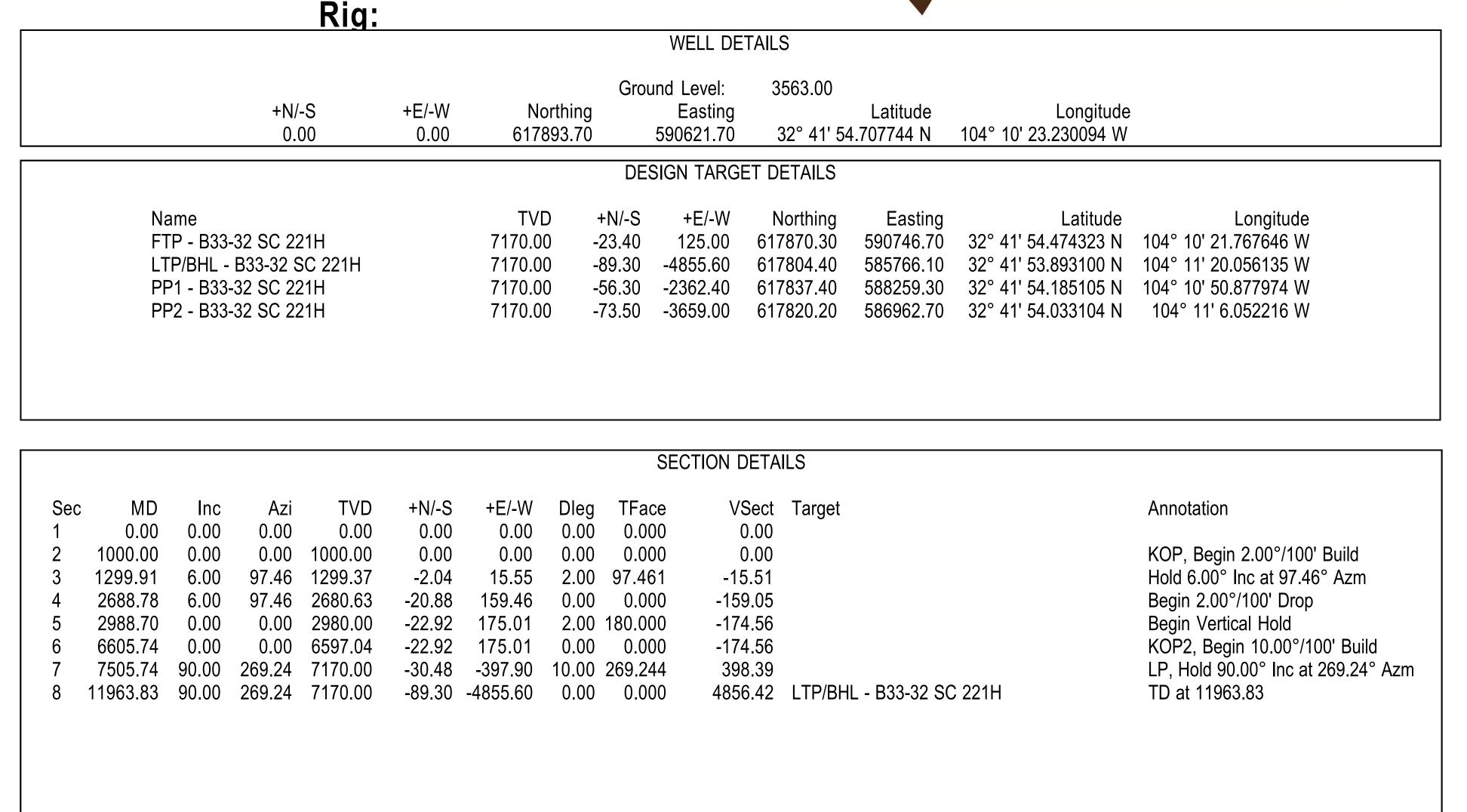
Geomagnetic Model: HDGM Sample Date: 23-Sep-25 Magnetic Declination: 6.750° Dip Angle from Horizontal: 60.250° Magnetic Field Strength: 47263.6000000nT

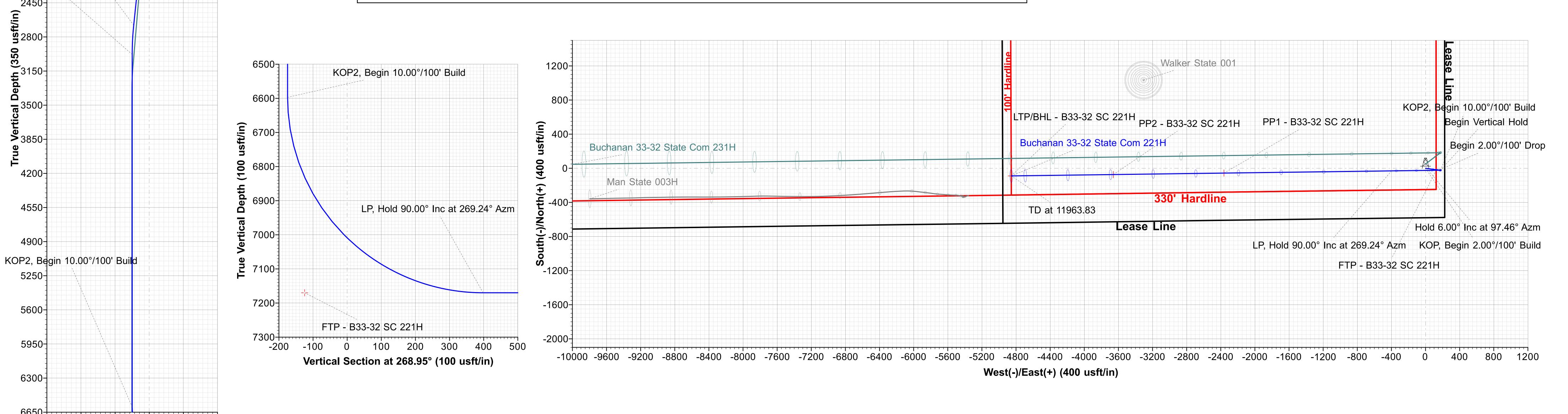
To convert a Magnetic Direction to a Grid Direction, Add 6.663° To convert a Magnetic Direction to a True Direction, Add 6.750° East To convert a True Direction to a Grid Direction, Subtract 0.087°

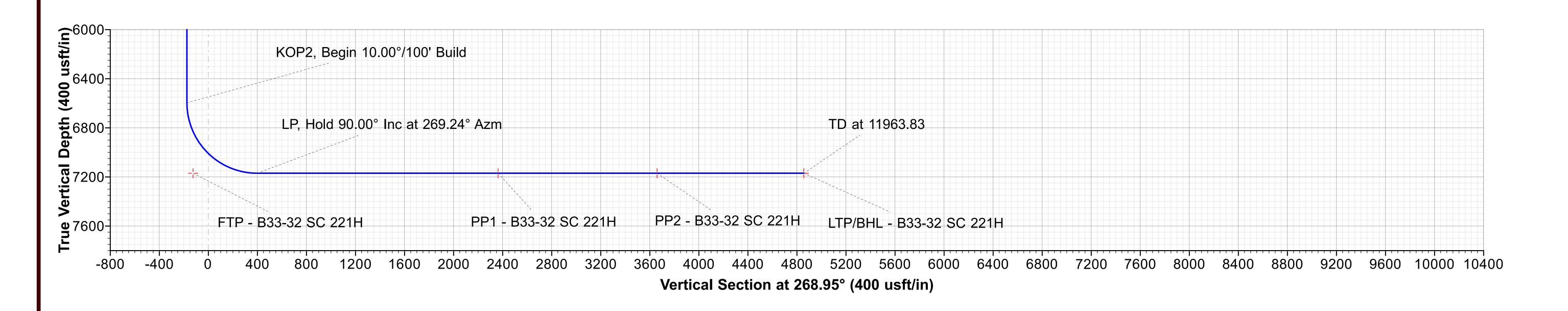
Grid North: 617893.70

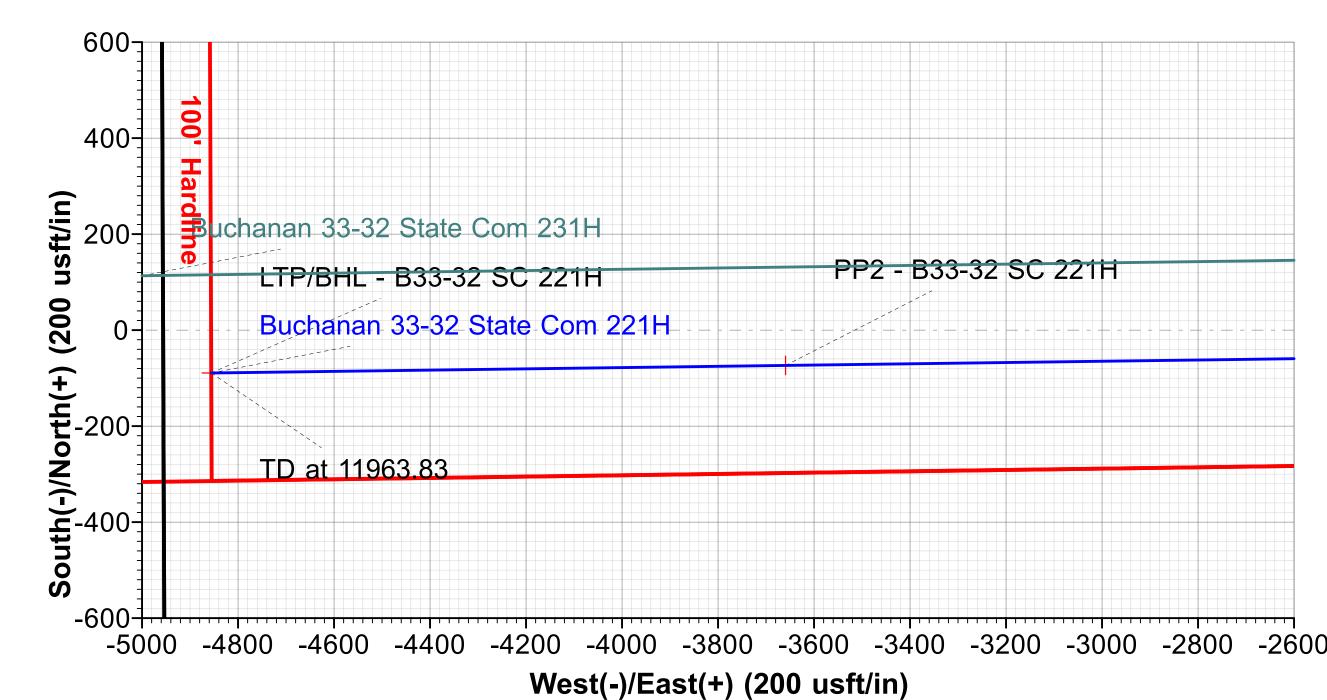
Scale Factor: 1.000













# **VF Petroleum**

Eddy County, NM (NAD83-NME) Buchanan 33-32 State Com Buchanan 33-32 State Com 221H

OH

Plan: Plan 1 07-29-25

# **Standard Planning Report**

29 July, 2025





#### Planning Report



Database: Company: Project:

**USAEDMDB** VF Petroleum

Eddy County, NM (NAD83-NME) Buchanan 33-32 State Com Buchanan 33-32 State Com 221H

OH

Wellbore: Design:

Site:

Well:

Plan 1 07-29-25

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Buchanan 33-32 State Com 221H

RKB @ 3588.00usft RKB @ 3588.00usft

Minimum Curvature

**Project** 

Eddy County, NM (NAD83-NME)

Map System: Geo Datum: Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

Well

Buchanan 33-32 State Com

Site Position: Northing: From: Мар Easting:

Slot Radius:

617,893.70 usft Latitude: 590,621.70 usft

617,893.70 usfl

Longitude:

32° 41' 54.707744 N 104° 10' 23.230094 W

**Position Uncertainty:** 

0.00 usft

13-3/16 "

Buchanan 33-32 State Com 221H

Latitude: Longitude:

32° 41' 54.707744 N 104° 10' 23.230094 W

**Position Uncertainty** 

**Well Position** 

0.00 usft 0.00 usft 1.00 usft Northing: Easting:

590,621.70 usft Wellhead Elevation:

usfl **Ground Level:**  3,563.00 usft

**Grid Convergence:** 

0.087°

Wellbore

ОН

+N/-S

+E/-W

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

Design

Plan 1 07-29-25

**Audit Notes:** 

Version:

Phase:

**PLAN** 

Tie On Depth:

0.00

**Vertical Section:** 

Depth From (TVD) (usft)

0.00

+N/-S (usft)

+E/-W (usft)

0.00

Direction (°)

268.95

**Plan Survey Tool Program** Date 2025-07-29

**Depth From Depth To** (usft)

(usft)

Survey (Wellbore)

**Tool Name** 

0.00

Remarks

0.00 1

11,963.83 Plan 1 07-29-25 (OH) B024Mc\_MWD+HRGM+MS MWD+HRGM+NoSag+MSA

**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	
1,299.91	6.00	97.46	1,299.37	-2.04	15.55	2.00	2.00	0.00	97.461	
2,688.78	6.00	97.46	2,680.63	-20.88	159.46	0.00	0.00	0.00	0.000	
2,988.70	0.00	0.00	2,980.00	-22.92	175.01	2.00	-2.00	0.00	180.000	
6,605.74	0.00	0.00	6,597.04	-22.92	175.01	0.00	0.00	0.00	0.000	
7,505.74	90.00	269.24	7,170.00	-30.48	-397.90	10.00	10.00	0.00	269.244	
11,963.83	90.00	269.24	7,170.00	-89.30	-4,855.60	0.00	0.00	0.00	0.000 L	TP/BHL - B33-32 §



#### Planning Report



Database: Company: Project:

Site:

Well:

**USAEDMDB** 

VF Petroleum Eddy County, NM (NAD83-NME) Buchanan 33-32 State Com Buchanan 33-32 State Com 221H

ОН Wellbore:

Design: Plan 1 07-29-25 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Buchanan 33-32 State Com 221H

RKB @ 3588.00usft RKB @ 3588.00usft

Grid

Minimum Curvature

nned 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 1,000.00	0.00 0.00	0.00 0.00	0.00 1,000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
<b>KOP, Begi</b> 1,299.91	n <b>2.00°/100' B</b> ເ 6.00	i <b>ild</b> 97.46	1,299.37	-2.04	15.55	-15.51	2.00	2.00	0.00
Hold 6.00° 2,688.78	Inc at 97.46° A	<b>Azm</b> 97.46	2,680.63	-20.88	159.46	-159.05	0.00	0.00	0.00
Begin 2.00 2.988.70	0°/ <b>100' Drop</b> 0.00	0.00	2,980.00	-22.92	175.01	-174.56	2.00	-2.00	0.00
Begin Vert			_,,						
6,605.74	0.00	0.00	6,597.04	-22.92	175.01	-174.56	0.00	0.00	0.00
,	gin 10.00°/100'								
7,505.74	90.00	269.24	7,170.00	-30.48	-397.90	398.39	10.00	10.00	0.00
LP, Hold 9	0.00° Inc at 26	9.24° Azm							
11,963.83 <b>TD at 1196</b>	90.00	269.24	7,170.00	-89.30	-4,855.60	4,856.42	0.00	0.00	0.00

#### **Design Targets**

_						
ıa	rq	et	N	a	m	E

ranget Hanne									
<ul> <li>hit/miss target</li> </ul>	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Langituda
•	` '	` '	(,	(5.515)	(,	(,	(,	Latitude	Longitude

PP1 - B33-32 SC 221

0.00

0.00 7,170.00

-56.30 -2,362.40

588,259.3032° 41' 54.185106 N 4° 10' 50.877974 W

- plan misses target center by 1964.67usft at 7505.74usft MD (7170.00 TVD, -30.48 N, -397.90 E)

-89.30 -4,855.60

617,837.40

PP2 - B33-32 SC 221 0.00 7,170.00 -73.50 -3,659.00 0.00 617,820.20 - plan misses target center by 0.01usft at 10767.13usft MD (7170.00 TVD, -73.51 N, -3659.00 E)

- Point

- Point

FTP - B33-32 SC 221

0.00

0.00

0.00 7,170.00

0.00 7,170.00

-23.40

125.00

617,870.30

617,804.40

590,746.7032° 41' 54.474323 N 4° 10' 21.767647 W

585,766.1032° 41' 53.893100 N 4° 11' 20.056135 W

586,962.7032° 41' 54.033104 N 04° 11' 6.052216 W

- plan misses target center by 203.35usft at 7095.02usft MD (7028.99 TVD, -25.51 N, -21.49 E)

- Point

LTP/BHL - B33-32 SC

plan hits target centerPoint

Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
1,299.91	1,299.37	-2.04	15.55	Hold 6.00° Inc at 97.46° Azm
2,688.78	2,680.63	-20.88	159.46	Begin 2.00°/100' Drop
2,988.70	2,980.00	-22.92	175.01	Begin Vertical Hold
6,605.74	6,597.04	-22.92	175.01	KOP2, Begin 10.00°/100' Build
7,505.74	7,170.00	-30.48	-397.90	LP, Hold 90.00° Inc at 269.24° Azm
11,963.83	7,170.00	-89.30	-4,855.60	TD at 11963.83