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

Form C-101
Revised July 18, 2013

AMENDED REPORT

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 30-025-30735
4. Property Code 21820	5. Property Name Mitchell 16 State	Well No. #1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	16	18S	32E		1650	North	990	East	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name YOUNG; BONE SPRING, NORTH	Pool Code 65350
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Additional Well Information

11. Work Type Recomplete	12. Well Type O	13. Cable/Rotary R	14. Lease Type S	15. Ground Level Elevation 3791
16. Multiple N	17. Proposed Depth	Formation 3rd BONE SPRING, CARBONATE	19. Contractor	20. Spud Date 6/04/2024 start recomplete
Depth to Ground water 300		Distance from nearest fresh water well CP 00483 is 1.2 miles to the SE		Distance to nearest surface water 400 SW of Surface pond

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
No Changes to original casing for Recompletion						

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: <i>Kristina Lee</i> Printed name: Kristina Lee Title: Regulatory Consultant E-mail Address: krislee@skybeam.com Date: 6/03/24 Phone: 303.884.4229	OIL CONSERVATION DIVISION	
	Approved By:	
	Title:	
	Approved Date: 06/04/2024	Expiration Date: 06/04/2026
	Conditions of Approval Attached	

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 Inc **OGRID:** 24010 **Date:** 3/14/2024

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
Mitchell 16 State #1	30-025-30735	H 16 18S 32E	1650 FNL 990 FEL	5	15	5

IV. Central Delivery Point Name: Mitchell 16 #1 [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
Mitchell 16 State #1	30-025-30735	4/20/22	4/21/22	4/23/22	4/23/22	4/24/22

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: <i>Bill Pierce</i>
Printed Name: Bill Pierce
Title: Engineer
E-mail Address: bill@vfpetroleum.com
Date: 3/15/2024
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 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

Mitchell 16 State #1 – 03-025-30735

No changes to casing downhole

V-F would like to try a completion in the 3rd Bone Spring Carbonate. The perforations are (9,490' – 9,496'), (9,502' -9,508') and (9,514' -9,428').

VF Petroleum recently tried to recomplete this well into the Lovington sands and came up with no hydrocarbons. This is what was done to the well:

Spotted 35 sack Class H cement plug at depth of 10,000', then spotted 35 sack Class H cement plug at depth of 8,500' and then spotted 35 sack Class H cement plug at depth of 6,500'; Rig up wireline and set CIBP at depth of 5,000'. RIH with gamma perforating gun and perforate Lovington Sand formation; 4,730' - 4,748'; 18' x 2 spf. RIH with 5-1/2" AS1-10X packer and set at depth of 4,605'

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CONDITIONS

Action 350497

CONDITIONS

Operator: V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702	OGRID: 24010
	Action Number: 350497
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PRIOR TO PERFORATING 3BSS MUST SQUEZE PERFS @ 4730-4748.	6/4/2024