

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

HOBBS OCD
FEB 19 2020
RECEIVED

☐ 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 Property Code 316206		⁴ API Number 30-015-025-46899
⁵ Property Name DMT 7 FEE		⁶ Well No. 3

7. Surface Location **NSL-7689**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
F	7	15S	38E		1350	NORTH	2300	WEST	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 Denton, Wolfcamp	Pool Code 17290
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Additional Well Information

¹¹ Work Type N	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type P	¹⁵ Ground Level Elevation 3778'
¹⁶ Multiple N	¹⁷ Proposed Depth 9625'	¹⁸ Formation Wolfcamp	¹⁹ Contractor	²⁰ Spud Date 3/1/2020
Depth to Ground water 45 Ft		Distance from nearest fresh water well 2418 Ft		Distance to nearest surface water 3 Miles

☐ 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
Conductor	26"	20"	94#	40'	50	Surface
Surface	17-1/2"	13-3/8"	54.5#	400'	400	Surface
Intermediate	12-1/4"	9-5/8"	40#	4700'	1000	Surface
Production	8-3/4"	5-1/2"	17*	9625'	600	4400'

Casing/Cement Program: Additional Comments

Cmt will be circulated as required.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
XLT 13-5/8"	5000	5000	Cameron

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 checked="" type="checkbox"/> , if applicable. Signature: <i>Mike Pippin</i>	OIL CONSERVATION DIVISION
Printed name: Mike Pippin	Approved By: <i>[Signature]</i>
Title: Petroleum Engineer	Title:
E-mail Address: mike@pippinllc.com	Approved Date: <i>02/23/2020</i> Expiration Date: <i>02/23/2022</i>
Date: 2/10/2020 Phone: 505-327-4573	See Attached Conditions of Approval

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Receipt of Fee Application Payment

HOBBS OCD
FEB 19 2020
RECEIVED



PO Number: 68QKM-200218-APD000

Payment Date: 2/18/2020 2:58:39 PM
Payment Amount: \$500.00
Payment Type: Credit Card

Application Type: Application for a permit to drill, deepen, plug back or reenter a non-federal and non-indian well.
Fee Amount: \$500.00
Application Status: Pending Document Delivery

OGRID: 24010
First Name: Eric
Last Name: Sprinkle
Email: eric@vfpetroleum.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

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Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

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FEB 19 2020

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025	Pool Code 17290	Pool Name DENTON, WOLF CAMP
Property Code 316206	Property Name DMT 7 FEE	Well Number 3
OGRID No. 24010	Operator Name V-F PETROLEUM	Elevation 3778'

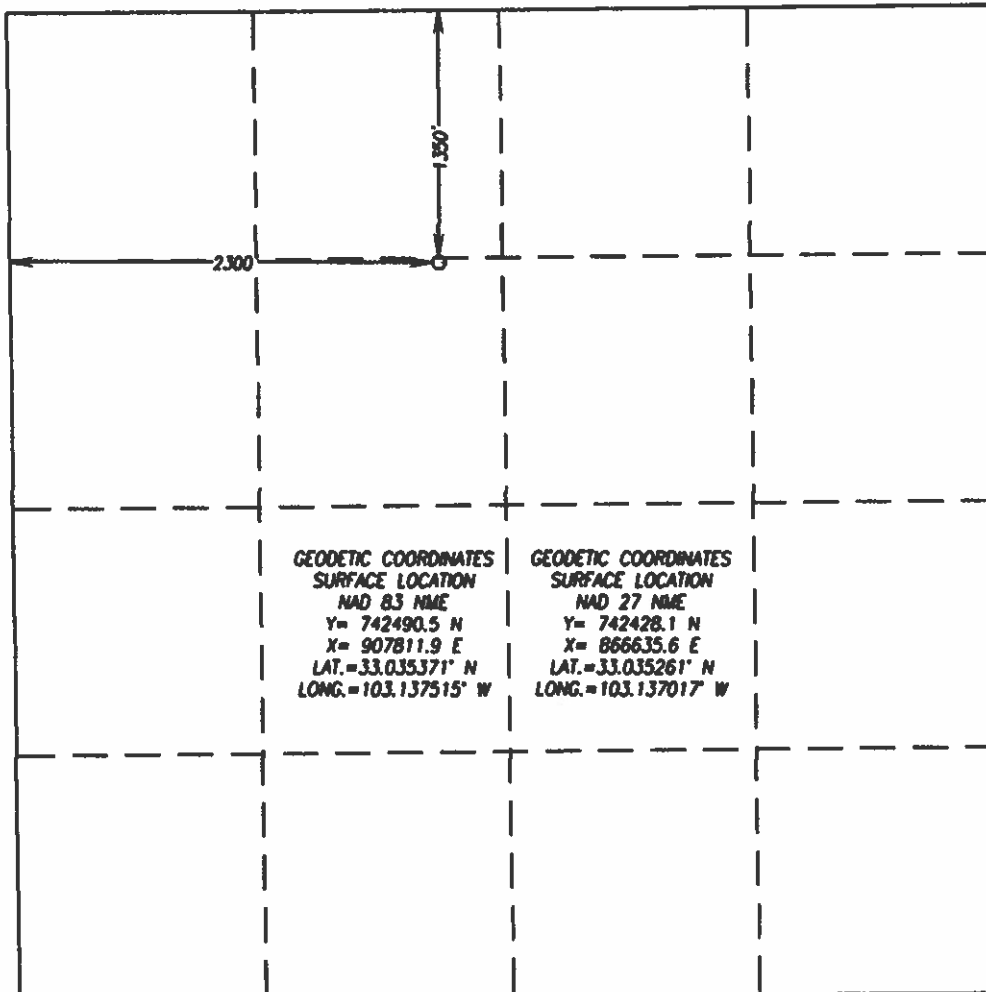
Surface Location

UL or lot No. F	Section 7	Township 15-S	Range 38-E	Lot Idn	Feet from the 1350	North/South line NORTH	Feet from the 2300	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill N	Consolidation Code	Order No. NSL-7689						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and 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 such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Mike Pippin 2/8/20
Signature Date

MIKE PIPPIN
Printed Name

MIKE@PIPPINLLC.COM
E-mail Address

SURVEYOR CERTIFICATION

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.

JANUARY 20, 2020

Date of Survey 3239
Signature & Seal of Professional Surveyor:

Ronald J. Eidson 02/04/2020

Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

LSL REL: 15110114 JWSC W.O.: 20.11.0027

V-F Petroleum Inc.

500 W. Texas, Suite 350, Midland, Texas 79701
Mailing Address: P.O. Box 1889, Midland, TX 79702

432-683-3344
E-mail: bill@vfpetroleum.com

FAX: 432-683-3352
www.vfpetroleum.com

WELL DRILLING & EVALUATION PROGRAM

January 20, 2020

V-F Petroleum Inc.

DMT 7 Fee #3

1,350' FNL & 2,300' FWL

Section 7, T-15-S, R-38-E

Lea County, New Mexico

API Number: 30-025-43232

1. The elevation of the unprepared ground is 3778' above sea level.
2. The geological name of the surface information is Quaternary – Alluvium.
3. A rotary rig will be utilized to drill the well to a vertical depth of 9,625' MD & 9,625' TVD and run casing to TVD. The drilling equipment will be rigged down and the well completed with a well service unit.
4. The well is located in the following Field: Denton; Wolfcamp.
5. The following are estimated formation Tops:

	Est. Drill	Est.	Denton 7 #1
	<u>Depth</u>	<u>Subsea</u>	<u>Log Depth</u>
Rustler	2,170'	1,623'	2,168'
Yates	3,200'	593'	3,200'
7 Rivers	3,360'	433'	3,367'
Queen	3,925'	(-132')	3,979'
Grayburg	4,275'	(-482')	4,278'
**San Andres	4,450'	(-657')	4,461'
Glorieta	6,700'	(-2,907')	6,696'
**Blinberry	6,925'	(-3,132')	6,934'
Tubb	7,500'	(-3,707')	7,502'
Drinkard	7,610'	(-3,817')	7,616'
*Abo	8,210'	(-4,417')	8,214'
Abo Porosity	9,340'	(-5,547')	9,348'
*Wolfcamp	9,380'	(-5,587')	9,390'
TD	9,625'	(-5,832')	9,625'

* = Primary objective

** = Potential Oil or Gas bearing formations

6. The Proposed Casing and Cement Program is as follows:

20", 94#, J-55 ERW	40'	Conductor set at 40' and grouted with 50 sacks of Redi-Mix.
13 3/8", 54.5#, J-55, STC	400'	Surface Casing in 17 1/2" hole cemented with 400 sacks Class C containing 2% CaCl ₂ + 1/4#/sack cellophane flakes mixed @ 14.8 ppg w/yield of 1.35ft ³ /sack. Circulate to surface.
9 5/8", 40#, N-80, LTC	4,700'	Intermediate Casing in 12 1/4" hole cemented with lead slurry of 800 sacks of Class "C" 65-35 Pozmix Lite containing 1/2#/sack cellophane flakes mixed @ 12.5 ppg w/yield of 1.7972ft ³ /sack followed by tail slurry of 200 sacks of Class C containing 1% CaCl ₂ mixed @ 14.8 ppg w/yield of 1.32ft ³ /sack. Circulate to surface.

5 ½", 17#, L-80, LTC 9,625' Production hole in 8 ¾" hole cemented with cemented with lead slurry of 400 sacks of Class "H" 50-50 Pozmix Lite containing ½#/sack cellophane flakes + .3% dispersant + .4% fluid loss additive + 10% bentonite mixed @ 11.5 ppg w/yield of 2.2374 ft³/sack followed by tail slurry of 200 sacks of Class H containing 15% anti-settling agent + .25% cement retarder + .5% fluid loss additive mixed @ 14.8 ppg w/yield of 1.32 ft³/sack. Tie back into 9 5/8" intermediate casing 200' +/-.

7. Mud Program:

This well will be drilled with fresh water (8.33 ppg) from surface to a depth of 400' +/- . Surface hole Mud properties of pH 9.0 – 10.5, no control of WL, Viscosity of 28 – 34 cp, no control of filter cake. Pump rates of 300 – 500 GPM.

The Intermediate hole interval from 400' +/- to 4,700' +/- will be drilled with Salt Gel & Starch brine water (9.8 - 10.0 ppg). Intermediate hole Mud properties of pH 10.0 – 12.0, no control of WL, Viscosity of 28 – 29 cp, filter cake no control. Pump rates of 375 – 425 GPM. Other: utilize polymer sticks and MF-55 high viscosity sweeps as needed to clean hole.

The Production hole interval from 4,700' +/- to 9,625' will be drilled with Salt Gel & Starch cut-brine water (9.8 – 10.1 ppg). Production hole Mud properties pH 10.0 – 12.0, WL 20 – 30 cc's, Viscosity of 32 – 34 cp, filter cake less than 2. Pump rates of 400 – 425 GPM. Other: utilize MF-55 high viscosity sweeps as needed to clean hole and starch as needed to raise viscosity and control fluid loss.

8. Mud Loggers:

On at 4,700' to TD 9,625', 2-man unit. The drilling fluid should be able to deliver excellent samples from 4,700' to TD. One set of ten (10) foot dry samples, including all circulating samples, shall be caught by the mud logger from surface to TD. Mud logger samples will be caught in all significant drilling breaks of 5 feet or more from 4,700' to TD.

9. Testing, Logging & Coring Program

Run One:	GR – Comp. Neutron	4,700' to surface
	GR – Caliper – Comp. Neutron – PE- Density	9,625' to 4,700'
	GR – Caliper – Dual Laterlog w/MLL	9,625 to 4,700'

No testing or coring are anticipated.

10. Potential Hazards:

No abnormal pressures or temperatures are anticipated. If H₂S is encountered the operator will comply with all NMOCD rules and regulations regarding same. All personnel will be familiar with all aspects of safe operations and of all equipment being utilized to drill the well. Estimated BHP is 4,235 psi based on 0.44 x TVD. The estimated BHT is 165 degrees F. (See attached H₂S site plan.)

11. Pressure Control Equipment:

See attached description and diagram of Pressure Control Equipment.

12. Duration of Operations:

Anticipated spud date will be March 1, 2020 to meet lease expiration and deadline. Move in operations and drilling are expected to require 25 days. Completion operations will require an additional 10 days. Production facilities already exist on the lease.

HYDROGEN SULFIDE (H₂S) DRILLING PLAN SUMMARY

- A. All personnel shall receive proper H₂S training in accordance with all NMOCD rules.
- B. Briefing Area: Two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

Well Control Equipment:

- a. Flare line 150' from wellhead to be ignited by flare gun.
- b. Choke manifold with a remotely operated choke.
- c. Mud / gas separator.

Protective Equipment for Essential Personnel:

Breathing Apparatus

- a. Rescue Packs (SCBA) – 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work / Escape Packs – 4 shall be stored on the rig floor and contain sufficiently long air hoses as not to restrict work activities.
- c. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100' of 5/8" OSHA approved rope
- d. 1 – 20# class ABC fire extinguisher

H₂S Detection & Monitoring Equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places; Rig floor / bell nipple / end of flowline or where well bore is being discharged. (Gas sample tubes will be stored in safety trailer).

Visual Warning Systems:

- a. One color condition sign will be placed at the entrance to the site reflecting the possible conditions at the sight.
- b. A colored flag will be displayed reflecting the current condition at the site at the time.
- c. Two wind socks will be placed in strategic locations, visible from all angles.

Mud Program:

The mud program has been designed to minimize the volume of H₂S circulated to the surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.

Metallurgy:

- a. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- b. All elastomers used for packing and seals shall be H₂S trim.

Communication:

Communication will be via two way radio in emergency and police vehicles. Cell phones will be utilized for company personnel and all other personnel.

EMERGENCY ASSISTANCE TELEPHONE LIST

PUBLIC SAFETY: 911 or see below

Lea County Sheriff's
Department
(575) 396-3611

Fire
Department
(575) 397-9308

Hospital
(575) 492-5000

Ambulance
911

New Mexico State
Police
(575) 392-5588

New Mexico Oil Conservation Division Hobbs
Office
(575) 393-6161

Operator Contacts:

V-F Petroleum,
Inc.
(432) 683-3344

Rick Massey,
Consultant
(575) 942-4035

Bill Pierce, VP of
Operations
(432) 683-3344

Tom Beall,
President
~~~~~ (432) 683-3344

Wayne Luna, Production  
Superintendent ~~~~~ (432)  
557-2688



## PRESSURE CONTROL EQUIPMENT

The blowout preventer equipment (BOP) will consist of a 5,000 psi rated, double "U" ram Cameron or Schaffer type that will be tested by an independent third party to a maximum of 5,000 psi. The BOP's will be hydraulically operated and the ram type will be equipped with blind rams on bottom and pipe rams on top. An annular (Hydril) type preventer will be mounted on top of the double "U" ram type preventer and will be rated to 3000 psi. The annular preventer will be tested to a maximum of 2,500 psi. The 3M annular preventer will be installed on the 13 3/8" surface casing and utilized while drilling the intermediate hole. The double ram preventer and the annular preventer will be installed on the 9 5/8" intermediate casing and will remain in place until drilling operations have been completed. All casing strings will be tested to 50% of rated burst prior to drilling out. Should drilling operations extend beyond 30 days, the BOP will be tested by an independent third party.

Pipe rams will be operated and checked daily and each time the drill string is removed from the borehole. These function tests will be recorded on the IADC daily drilling sheet.

The BOP equipment will consist of the following:

- Double ram with blind rams (bottom) and pipe rams (top),
- Drilling spool or BOP with two side outlets (choke side and kill side shall be a minimum 2" diameter),
- Kill line (2 inch minimum),
- Minimum of two choke line valves with diameters of at least 2 inches,
- 2 inch diameter choke line,
- two chokes one of which shall be capable of remote operations,
- pressure gauge on choke manifold,
- upper kelly cock valve with handle available,
- Safety valve and subs to fit all drill string connections in use,
- All BOPE connections subjected to well pressure will be flanged, welded or clamped,
- A fill-up line above the uppermost preventer.

# V-F Petroleum Inc.

500 W. Texas, Suite 350, Midland, Texas 79701

432/683-3344

432/683-3352 FAX

Mailing Address: P.O. Box 1889, Midland, TX 79702

E-mail: [sandy@vfpetroleum.com](mailto:sandy@vfpetroleum.com)

[www.vfpetroleum.com](http://www.vfpetroleum.com)

January 21, 2020

State of New Mexico  
Energy, Minerals and Natural Resources  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                       |
|-------------------------------------------------------|
| Lease Name or Unit Agreement<br>Name <b>DMT 7 Fee</b> |
| Well Number <b>3</b>                                  |
| OGRID Number <b>24010</b>                             |
| Pool name or Wildcat<br><b>Denton: Wolfcamp</b>       |

Unit Letter F : 1350 feet from the  
North line and 2300 feet from the  
West line, Sec 7 Township 15-S Rge  
38-E NMPM Lea County

Gentlemen:

Please be advised that a Surface and Ranch Disturbance Agreement dated July 29, 2014 has been executed by V-F Petroleum Inc. (Operator) and Angell #2 Family Limited Partnership, P.O. Box 190, Lovington, NM 88260-0190.

Very truly yours,



Sandra K. Lawlis  
Vice President & Controller

SKL/as

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

Submit Original  
to Appropriate  
District Office

### GAS CAPTURE PLAN

Date: 2/10/2020

☒ Original

Operator & OGRID No.: V-F PETROLEUM, INC.

☐ Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name    | API     | Well Location (ULSTR) | Footages               | Expected MCF/D | Flared or Vented | Comments |
|--------------|---------|-----------------------|------------------------|----------------|------------------|----------|
| DMT 7 FEE #3 | 30-015- | F 7 15S 38E           | 1350' FNL<br>2300' FWL | 35             | Vented           |          |
|              |         |                       |                        |                |                  |          |

#### Gathering System and Pipeline Notification

Following this well's drilling & completion operations, we anticipate that all produced natural gas will be used on the lease.

#### Flowback Strategy

After the fracture treatment operations, well will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. We anticipate that all produced natural gas will be used on the lease.

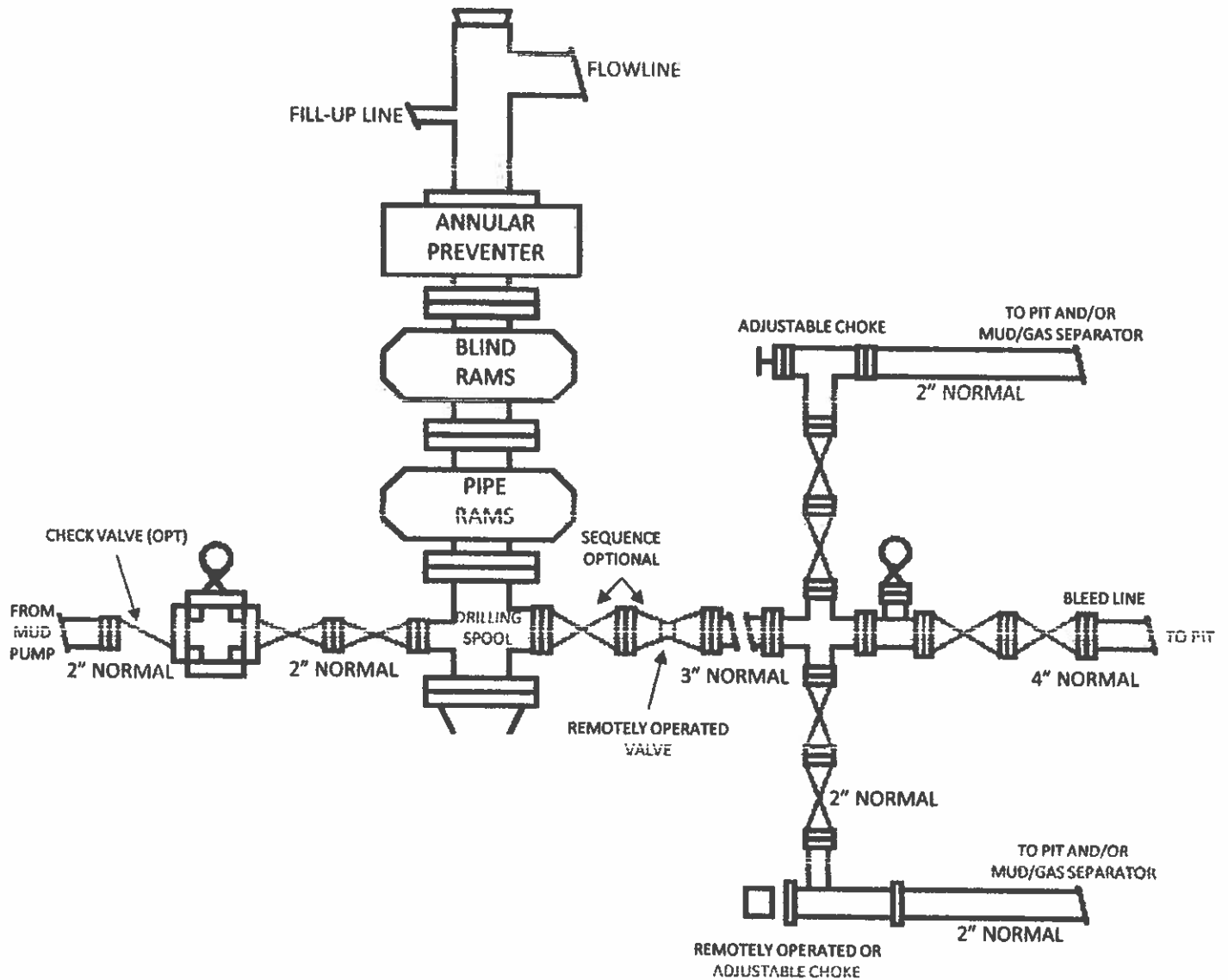
Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared.

#### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

# **BOP DIAGRAM** **5000# SYSTEM**



VF Petroleum Inc.  
DMT 7 Fee #3  
BOP Schematic

## CONDITIONS OF APPROVAL

| API #        | Operator           | Well name & Number |
|--------------|--------------------|--------------------|
| 30-025-46899 | V-F PETROLEUM Inc. | DMT 7 FEE # 003    |

Applicable conditions of approval marked with **XXXXXX**

### Drilling

|               |                                                                                                                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>XXXXXX</b> | 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 |
|               |                                                                                                                                                                                                                                                                      |

### Casing

|               |                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------|
| <b>XXXXXX</b> | SURFACE & INTERMEDIATE(1) CASING - Cement must circulate to surface --                                       |
| <b>XXXXXX</b> | PRODUCTION CASING - Cement must tie back into intermediate casing --                                         |
| <b>XXXXXX</b> | If cement does not circulate to surface, must run temperature survey or other log to determine top of cement |
|               |                                                                                                              |

### Lost Circulation

|               |                                                                                 |
|---------------|---------------------------------------------------------------------------------|
| <b>XXXXXX</b> | Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186 |
|               |                                                                                 |

### Stage Tool

|               |                                                                                                                             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>XXXXXX</b> | Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186                                                    |
| <b>XXXXXX</b> | If using Stage Tool on Surface casing, Stage Tool must be greater than 350' and a minimum 200 feet above surface shoe.      |
| <b>XXXXXX</b> | When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe. |
|               |                                                                                                                             |