

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

☐ 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 (432) 683-3344		² OGRID Number 24010
		³ API Number 30-015-22625
⁴ Property Code	⁵ Property Name State 19	⁶ Well No. 2

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	19	19 S	28 E		860	S	2057	W	Eddy

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	19	19 S	28 E		860	S	1907	W	Eddy

⁹ Pool Information

Pool Name	Pool Code
SWD; Devonian	96101

¹¹ Work Type E & D	¹² Well Type S	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3495'
¹⁶ Multiple N	¹⁷ Proposed Depth 14000' TVD & 14006' MD	¹⁸ Formation Devonian	¹⁹ Contractor to be determined	²⁰ Spud Date July 1, 2021
Depth to Ground water 95' in CP 00502		Distance from nearest fresh water well 1.71 mi. south of CP 00502		Distance to nearest surface water ≈ 1/4 mile west of drainage

A closed-loop system will be used instead of lined pits.

²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5"	13.375"	48 / H-40	GL - 447'	575	GL (circ 130 sx)
Intermed.	11"	8.625"	24 / K-55	GL - 2448'	900	GL (circ 60 sx)
Production	7.875"	5.5"	17# & 20# / N-80	7017' - 11150'	465	8990' (temp.)
Liner	7.875"	5.5"	20#, 23#, 26#	6966' - 12100'	1270	GL (CBL)
Open Hole	4.375"	N/A	N/A	12100' - 14000'	N/A	N/A

Casing/Cement Program: Additional Comments

Drill out plugs with fresh water. KOP 6966' & directionally drill new hole with water based cut brine.

²² Proposed Blowout Prevention Program

Type	Working Pressure (psi)	Test Pressure (psi)	Manufacturer
ram	5000	5000	to be determined

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 ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:

Brian Wood

Printed name: Brian Wood

Title: Consultant

E-mail Address: brian@permitswest.com

Date: 4-15-21

Phone: 505 466-8120

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

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

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

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-22625	Pool Code 96101	Pool Name SWD; Devonian
Property Code	Property Name STATE 19	Well Number 2
OGRID No 24010	Operator Name V-F PETROLEUM INC.	Elevation 3495'

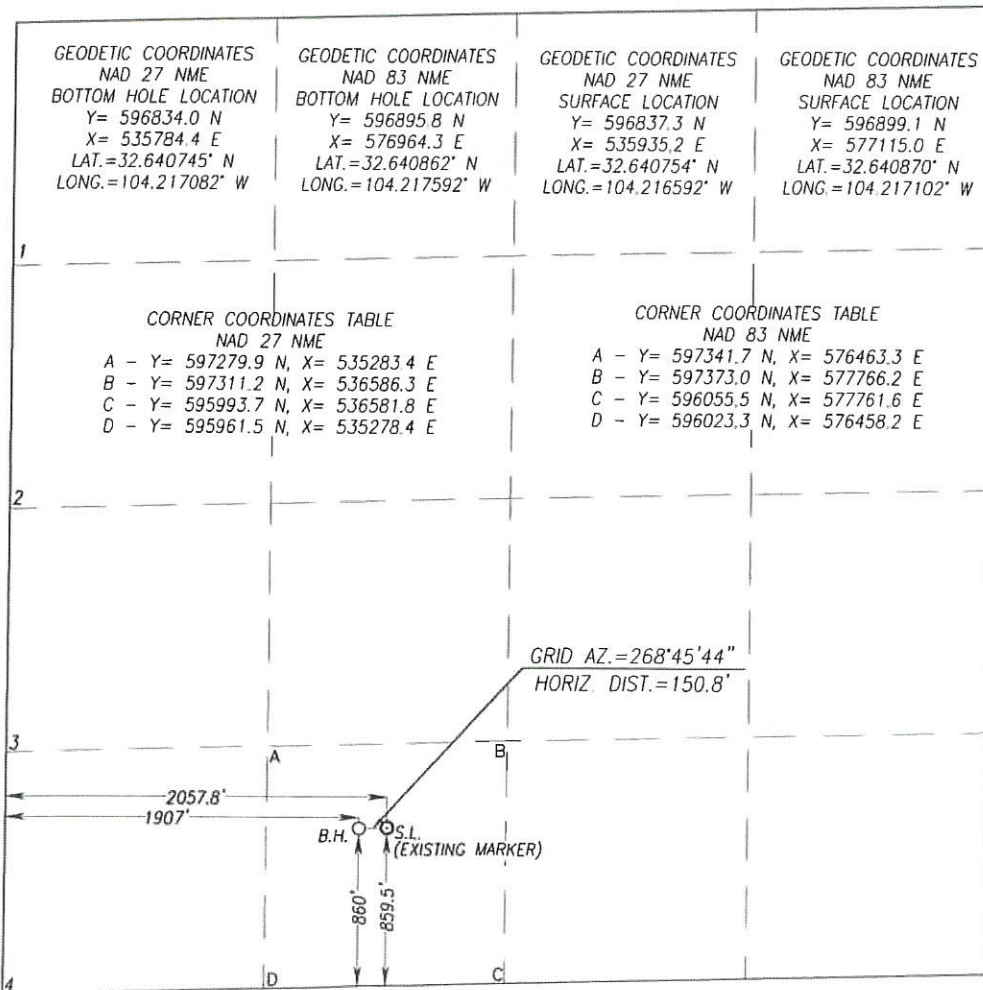
Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	19	19-S	28-E		859.5	SOUTH	2057.8	WEST	EDDY

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
N	19	19-S	28-E		860	SOUTH	1907	WEST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No SWD-2351						

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

Signature: *Eric Sprinkle* Date: 4/26/2019

Eric Sprinkle

Printed Name

eric@vfpetroleum.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.

Date of Survey: 4/25/2019
Signature & Seal of Professional Surveyor: *Ronald J. Eidson*

Certificate Number: Gary G. Eidson 12641
Ronald J. Eidson 3239
LSL JWSC W O 19 11 0537

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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: 4/16/2021

X Original Operator & OGRID No.: V-F Petroleum Inc. (24010)

☐ Amended - Reason for Amendment: _____

N/A – Injection Well

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: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

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	API	SHL (ULSTR)	SHL Footages	Expected MCF/D	Flared or Vented	Comments

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. Gas contract has not been signed, but N/A serves 3 wells in N/A will provide (periodically) to its Gas Transporter a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, N/A and its Gas Transporter have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at an as yet undetermined Gas Transporter Processing Plant located in N/A County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) 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. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on its Gas Transporter system at that time. Based on current information, it is N/A belief an existing or new system can take this gas upon completion of the well(s). Safety requirements during cleanout operations from using underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

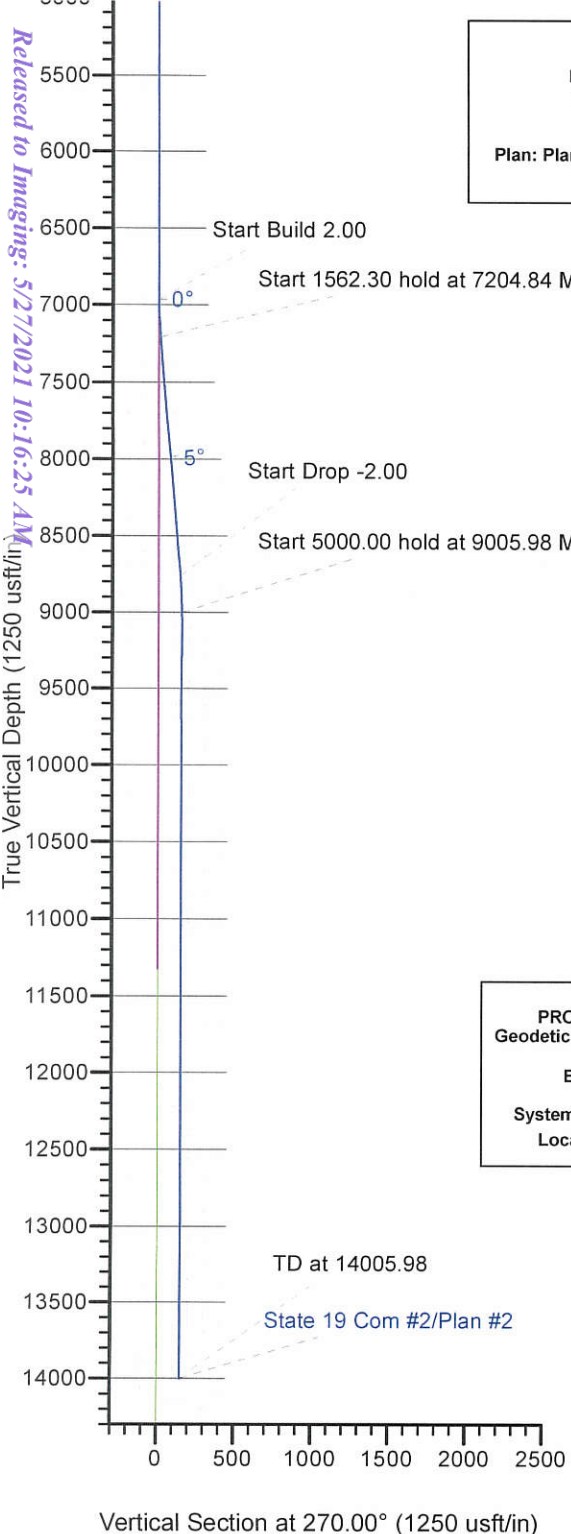
Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- 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

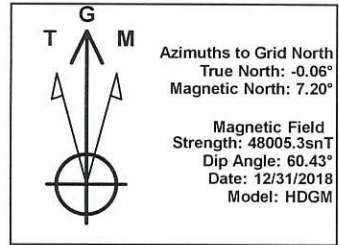


V-F Petroleum Inc.
Project: Eddy County, NM
Site: Sec 19, T19S, R28E
Well: State 19 Com #2
Wellbore: Wellbore #2
Plan: Plan #2 (State 19 Com #2/Wellbore #2)
UNK

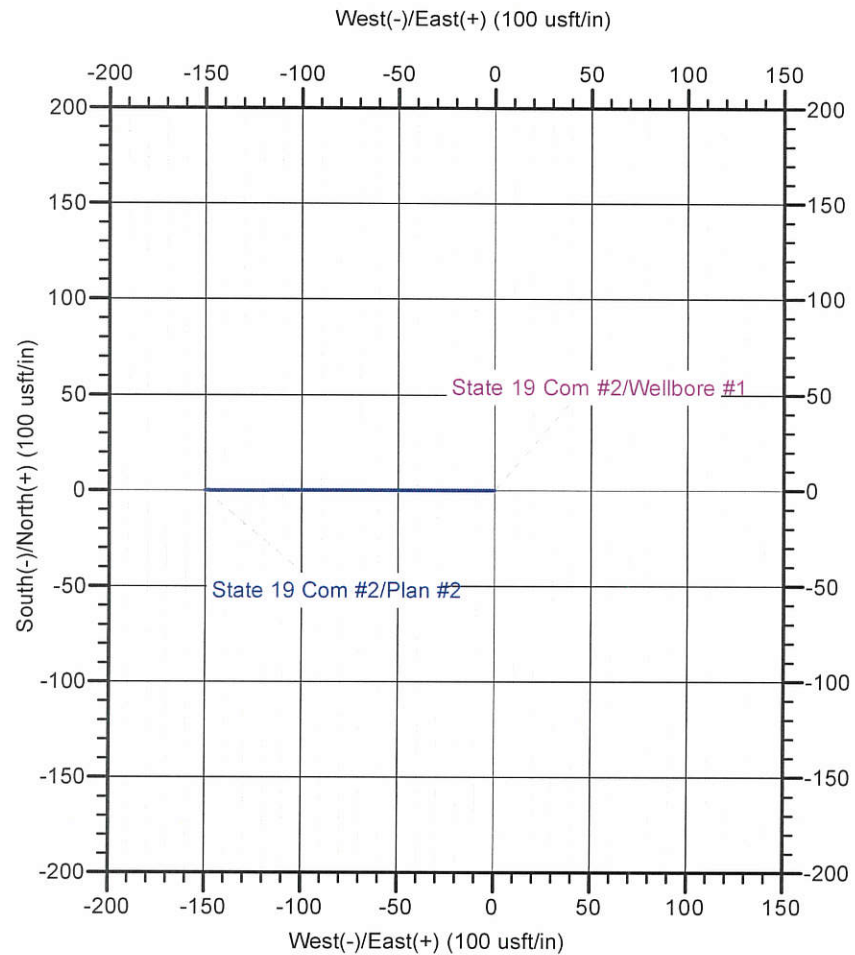
WELL DETAILS: State 19 Com #2
Ground Elevation:: 3493.00
RKB Elevation: KB=15' @ 3508.00usft (UNK)
Rig Name: UNK
Northing 596912.55 Easting 577114.93 Latitude 32.64091 Longitude -104.21710



SECTION DETAILS											Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	6966.00	0.00	0.00	6966.00	0.00	0.00	0.00	0.00	0.00		Start Build 2.00
2	7204.84	4.78	270.00	7204.56	0.00	-9.95	2.00	270.00	9.95		Start 1562.30 hold at 7204.84 MD
3	8767.14	4.78	270.00	8761.44	0.00	-140.05	0.00	0.00	140.05		Start Drop -2.00
4	9005.98	0.00	0.00	9000.00	0.00	-150.00	2.00	180.00	150.00		Start 5000.00 hold at 9005.98 MD
5	14005.98	0.00	0.00	14000.00	0.00	-150.00	0.00	0.00	150.00		TD at 14005.98



PROJECT DETAILS: Eddy County, NM
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



Survey Report



Company:	V-F Petroleum Inc.	Local Co-ordinate Reference:	Well State 19 Com #2
Project:	Eddy County,NM	TVD Reference:	KB=15' @ 3508.00usft (UNK)
Site:	Sec 19, T19S, R28E	MD Reference:	KB=15' @ 3508.00usft (UNK)
Well:	State 19 Com #2	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1

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

Site		Sec 19, T19S, R28E			
Site Position:		Northing:	596,912.55 usft	Latitude:	32.64091
From:	Lat/Long	Easting:	577,114.93 usft	Longitude:	-104.21710
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	State 19 Com #2					
Well Position	+N/-S	0.00 usft	Northing:	596,912.55 usft	Latitude:	32.64091
	+E/-W	0.00 usft	Easting:	577,114.93 usft	Longitude:	-104.21710
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,493.00 usft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/31/2018	7.27	60.43	48,005

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	6,966.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	270.00

Survey Tool Program		Date	1/30/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
11,325.00	6,966.00	Original Wellbore #1 (Wellbore #1)	MWD	Fixed:v2:standard declination	
6,966.00	14,005.98	Plan #2 (Wellbore #2)	MWD	Fixed:v2:standard declination	

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)
6,966.00	0.00	0.00	6,966.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
7,000.00	0.68	270.00	7,000.00	0.00	-0.20	0.20	2.00	2.00	0.00
7,100.00	2.68	270.00	7,099.95	0.00	-3.13	3.13	2.00	2.00	0.00
7,200.00	4.68	270.00	7,199.74	0.00	-9.55	9.55	2.00	2.00	0.00
7,204.84	4.78	270.00	7,204.56	0.00	-9.95	9.95	2.00	2.00	0.00
Start 1562.30 hold at 7204.84 MD									
7,300.00	4.78	270.00	7,299.39	0.00	-17.87	17.87	0.00	0.00	0.00
7,400.00	4.78	270.00	7,399.05	0.00	-26.20	26.20	0.00	0.00	0.00

Survey Report



Company: V-F Petroleum Inc.
Project: Eddy County, NM
Site: Sec 19, T19S, R28E
Well: State 19 Com #2
Wellbore: Wellbore #2
Design: Plan #2

Local Co-ordinate Reference: Well State 19 Com #2
TVD Reference: KB=15' @ 3508.00usft (UNK)
MD Reference: KB=15' @ 3508.00usft (UNK)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1

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)
7,500.00	4.78	270.00	7,498.70	0.00	-34.53	34.53	0.00	0.00	0.00
7,600.00	4.78	270.00	7,598.35	0.00	-42.86	42.86	0.00	0.00	0.00
7,700.00	4.78	270.00	7,698.00	0.00	-51.18	51.18	0.00	0.00	0.00
7,800.00	4.78	270.00	7,797.66	0.00	-59.51	59.51	0.00	0.00	0.00
7,900.00	4.78	270.00	7,897.31	0.00	-67.84	67.84	0.00	0.00	0.00
8,000.00	4.78	270.00	7,996.96	0.00	-76.17	76.17	0.00	0.00	0.00
8,100.00	4.78	270.00	8,096.61	0.00	-84.49	84.49	0.00	0.00	0.00
8,200.00	4.78	270.00	8,196.27	0.00	-92.82	92.82	0.00	0.00	0.00
8,300.00	4.78	270.00	8,295.92	0.00	-101.15	101.15	0.00	0.00	0.00
8,400.00	4.78	270.00	8,395.57	0.00	-109.48	109.48	0.00	0.00	0.00
8,500.00	4.78	270.00	8,495.23	0.00	-117.80	117.80	0.00	0.00	0.00
8,600.00	4.78	270.00	8,594.88	0.00	-126.13	126.13	0.00	0.00	0.00
8,700.00	4.78	270.00	8,694.53	0.00	-134.46	134.46	0.00	0.00	0.00
8,767.14	4.78	270.00	8,761.44	0.00	-140.05	140.05	0.00	0.00	0.00
Start Drop -2.00									
8,800.00	4.12	270.00	8,794.20	0.00	-142.60	142.60	2.00	-2.00	0.00
8,900.00	2.12	270.00	8,894.04	0.00	-148.04	148.04	2.00	-2.00	0.00
9,000.00	0.12	270.00	8,994.02	0.00	-149.99	149.99	2.00	-2.00	0.00
9,005.98	0.00	0.00	9,000.00	0.00	-150.00	150.00	2.00	-2.00	0.00
Start 5000.00 hold at 9005.98 MD									
9,100.00	0.00	0.00	9,094.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,194.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,294.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,394.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,494.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,594.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,694.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,794.02	0.00	-150.00	150.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,894.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,000.00	0.00	0.00	9,994.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,094.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,194.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,294.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,394.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,494.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,594.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,694.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,794.02	0.00	-150.00	150.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,894.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,000.00	0.00	0.00	10,994.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,094.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,194.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,294.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,394.02	0.00	-150.00	150.00	0.00	0.00	0.00

Survey Report



Company:	V-F Petroleum Inc.	Local Co-ordinate Reference:	Well State 19 Com #2
Project:	Eddy County, NM	TVD Reference:	KB=15' @ 3508.00usft (UNK)
Site:	Sec 19, T19S, R28E	MD Reference:	KB=15' @ 3508.00usft (UNK)
Well:	State 19 Com #2	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1

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)
11,500.00	0.00	0.00	11,494.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,594.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,700.00	0.00	0.00	11,694.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,800.00	0.00	0.00	11,794.02	0.00	-150.00	150.00	0.00	0.00	0.00
11,900.00	0.00	0.00	11,894.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,000.00	0.00	0.00	11,994.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,100.00	0.00	0.00	12,094.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,200.00	0.00	0.00	12,194.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,300.00	0.00	0.00	12,294.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,400.00	0.00	0.00	12,394.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,500.00	0.00	0.00	12,494.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,600.00	0.00	0.00	12,594.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,700.00	0.00	0.00	12,694.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,800.00	0.00	0.00	12,794.02	0.00	-150.00	150.00	0.00	0.00	0.00
12,900.00	0.00	0.00	12,894.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,000.00	0.00	0.00	12,994.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,100.00	0.00	0.00	13,094.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,200.00	0.00	0.00	13,194.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,300.00	0.00	0.00	13,294.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,400.00	0.00	0.00	13,394.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,500.00	0.00	0.00	13,494.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,600.00	0.00	0.00	13,594.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,700.00	0.00	0.00	13,694.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,800.00	0.00	0.00	13,794.02	0.00	-150.00	150.00	0.00	0.00	0.00
13,900.00	0.00	0.00	13,894.02	0.00	-150.00	150.00	0.00	0.00	0.00
14,000.00	0.00	0.00	13,994.02	0.00	-150.00	150.00	0.00	0.00	0.00
14,005.98	0.00	0.00	14,000.00	0.00	-150.00	150.00	0.00	0.00	0.00
TD at 14005.98									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6966	6966	0	0	Start Build 2.00
7205	7205	0	-10	Start 1562.30 hold at 7204.84 MD
8767	8761	0	-140	Start Drop -2.00
9006	9000	0	-150	Start 5000.00 hold at 9005.98 MD
14,006	14,000	0	-150	TD at 14005.98

Checked By: _____ Approved By: _____ Date: _____

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 24327

COMMENTS

Operator: V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702	OGRID: 24010
	Action Number: 24327
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/17/2021	5/17/2021
kpickford	BL SWD-2351	5/17/2021

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CONDITIONS

Action 24327

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CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	5/17/2021
kpickford	Will require a File As Drilled C-102 and a Deviation Survey	5/17/2021
kpickford	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	5/17/2021
kpickford	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	5/17/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	5/17/2021
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water	5/17/2021