

Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-48011	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No. LG-2677-2	
7. Lease Name or Unit Agreement Name LIGHTFOOT 19 STATE COM	
8. Well Number 232H	
9. OGRID Number 24010	
10. Pool name or Wildcat WINCHESTER; BONE SPRING, WEST	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ 2. Name of Operator V-F PETROLEUM INC 3. Address of Operator P.O. BOX 1889 MIDLAND, TX 79702 4. Well Location Unit Letter_I_: 2090 feet from the SOUTH line and 100 feet from the EAST line Section 19 Township 19S Range 28E NMPM EDDY County 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3508 GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

V-F PETROLEUM INC requests to change the BHL for the subject well as follows:

Permitted BHL: NWSW, 2090 FSL & 100 FWL, Sec. 19, T19S – R28E

New Requested BHL: NWSE, 1880 FSL & 2538 FEL, Sec. 24, T19S – R27E

Please see the attached updated documentation.

Estimated
Spud Date: 1/1/22

Estimated
Rig Release Date: 1/25/22

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jason J. Lodge TITLE GEOLOGIST DATE 10/27/21

Type or print name JASON J. LODGE E-mail address: JASON@VFPETROLEUM.COM PHONE: 432-683-3344

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Engineer DATE 11/12/2021

Conditions of Approval (if any):

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 & 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-48011	Pool Code 97569	Pool Name WINCHESTER; BONE SPRING, WEST
Property Code 329325	Property Name LIGHTFOOT 19 STATE COM	Well Number 232H
OGRID No. 24010	Operator Name V-F PETROLEUM INC	Elevation 3508'

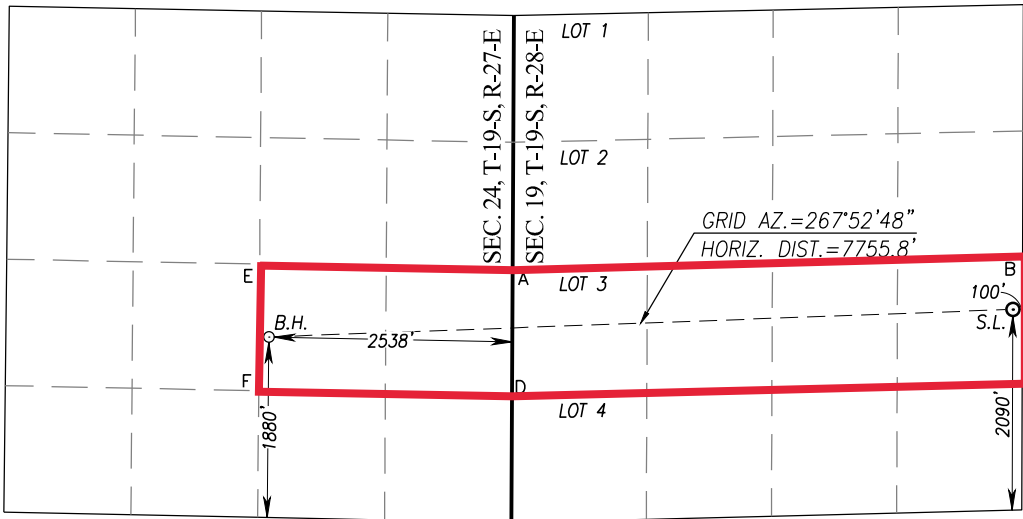
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	19-S	28-E		2090	SOUTH	100	EAST	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
J	24	19-S	27-E		1880	SOUTH	2538	EAST	EDDY
Dedicated Acres 243.08	Joint or Infill	Consolidation Code C	Order No.						

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.

Jason L. Lodge 10/27/21
Signature Date

Jason Lodge

Printed Name

Jason@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: FEBRUARY 12, 2019
3239
Date of Survey
Signature & Seal of Professional Surveyor

Ronald J. Eidson 08/27/2021

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

ACK REL. W.O.:19110130 JWSC W.O.: 21.13.0323

BOTTOM HOLE LOCATION

NAD 27 NME
Y= 597859.3 N
X= 531345.9 E
LAT.=32.643576° N
LONG.=104.231498° W

CORNER COORDINATES TABLE

NAD 27 NME

A - Y= 598565.7 N, X= 533886.6 E
B - Y= 598689.2 N, X= 539195.9 E
C - Y= 597373.7 N, X= 539192.3 E
D - Y= 597246.2 N, X= 533880.0 E
E - Y= 598617.2 N, X= 531251.8 E
F - Y= 597299.5 N, X= 531241.6 E

GEODETTIC COORDINATES

NAD 27 NME

SURFACE LOCATION
Y= 598146.0 N
X= 539094.4 E
LAT.=32.644341° N
LONG.=104.206324° W

BOTTOM HOLE LOCATION

NAD 83 NME
Y= 597921.1 N
X= 572525.7 E
LAT.=32.643692° N
LONG.=104.232008° W

CORNER COORDINATES TABLE

NAD 83 NME

A - Y= 598627.5 N, X= 575066.4 E
B - Y= 598751.1 N, X= 580375.7 E
C - Y= 597435.6 N, X= 580372.2 E
D - Y= 597308.0 N, X= 575059.8 E
E - Y= 598679.1 N, X= 572431.6 E
F - Y= 597361.3 N, X= 572421.4 E

GEODETTIC COORDINATES

NAD 83 NME

SURFACE LOCATION
Y= 598207.9 N
X= 580274.3 E
LAT.=32.644458° N
LONG.=104.206833° W



V-F Petroleum, Inc.

Eddy County, NM

Sec 19-T19S-R28E

Lightfoot 19 State Com 232H

Wellbore #1

Plan: Plan #2

Standard Planning Report

07 September, 2021



Microsoft Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Lightfoot 19 State Com 232H
Company:	V-F Petroleum, Inc.	TVD Reference:	3508+20 @ 3528.0usft
Project:	Eddy County, NM	MD Reference:	3508+20 @ 3528.0usft
Site:	Sec 19-T19S-R28E	North Reference:	Grid
Well:	Lightfoot 19 State Com 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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:	598,207.90 usft	Latitude:	32° 38' 40.049 N	
From:	Map	Easting:	580,274.30 usft	Longitude:	104° 12' 24.599 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07 °

Well	Lightfoot 19 State Com 232H					
Well Position	+N/-S	0.0 usft	Northing:	598,207.90 usft	Latitude:	32° 38' 40.049 N
	+E/-W	0.0 usft	Easting:	580,274.30 usft	Longitude:	104° 12' 24.599 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,508.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/22/21	6.89	60.30	47,747.80895585

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	268.58

Plan Survey Tool Program	Date	09/07/21		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,094.8	Plan #2 (Wellbore #1)	MWD
				OWSG MWD - Standard

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,842.7	0.00	0.00	7,842.7	0.0	0.0	0.00	0.00	0.00	0.00	
8,017.5	20.97	165.68	8,013.6	-30.7	7.8	12.00	12.00	0.00	165.68	
8,822.7	91.84	269.48	8,497.0	-221.4	-480.5	12.00	8.80	12.89	102.28	LP Lightfoot 19 State
16,094.8	91.84	269.48	8,264.0	-286.8	-7,748.6	0.00	0.00	0.00	0.00	PBHL Lightfoot 19 State



Microsoft
Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Lightfoot 19 State Com 232H
Company:	V-F Petroleum, Inc.	TVD Reference:	3508+20 @ 3528.0usft
Project:	Eddy County, NM	MD Reference:	3508+20 @ 3528.0usft
Site:	Sec 19-T19S-R28E	North Reference:	Grid
Well:	Lightfoot 19 State Com 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



Microsoft Planning Report

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Project:	Eddy County, NM	MD Reference:	3508+20 @ 3528.0usft
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Well:	Lightfoot 19 State Com 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,842.7	0.00	0.00	7,842.7	0.0	0.0	0.0	0.00	0.00	0.00
KOP BLD&T 12°/100'									
7,850.0	0.88	165.68	7,850.0	-0.1	0.0	0.0	12.00	12.00	0.00
7,875.0	3.88	165.68	7,875.0	-1.1	0.3	-0.2	12.00	12.00	0.00
7,900.0	6.88	165.68	7,899.9	-3.3	0.8	-0.8	12.00	12.00	0.00
7,925.0	9.88	165.68	7,924.6	-6.9	1.7	-1.6	12.00	12.00	0.00
7,950.0	12.88	165.68	7,949.1	-11.6	3.0	-2.7	12.00	12.00	0.00
7,975.0	15.88	165.68	7,973.3	-17.6	4.5	-4.1	12.00	12.00	0.00
8,000.0	18.88	165.68	7,997.2	-24.9	6.4	-5.7	12.00	12.00	0.00
8,017.5	20.97	165.68	8,013.6	-30.7	7.8	-7.1	12.00	12.00	0.00
EOB&T 20.97° CONT B&T 12°/100'									
8,025.0	20.80	168.16	8,020.6	-33.3	8.4	-7.6	12.00	-2.31	33.03
8,050.0	20.49	176.63	8,044.0	-42.0	9.6	-8.6	12.00	-1.26	33.88
8,075.0	20.59	185.19	8,067.4	-50.7	9.5	-8.2	12.00	0.42	34.21
8,100.0	21.10	193.50	8,090.8	-59.5	8.0	-6.5	12.00	2.06	33.25
8,125.0	22.00	201.30	8,114.1	-68.2	5.3	-3.6	12.00	3.59	31.19
8,150.0	23.24	208.41	8,137.2	-76.9	1.2	0.7	12.00	4.95	28.45
8,175.0	24.76	214.77	8,160.0	-85.6	-4.1	6.2	12.00	6.10	25.43
8,200.0	26.52	220.38	8,182.5	-94.1	-10.7	13.1	12.00	7.05	22.46
8,225.0	28.48	225.31	8,204.7	-102.6	-18.6	21.1	12.00	7.82	19.72
8,250.0	30.59	229.64	8,226.5	-110.9	-27.7	30.4	12.00	8.45	17.30
8,275.0	32.83	233.44	8,247.7	-119.0	-38.0	40.9	12.00	8.95	15.22
8,300.0	35.17	236.80	8,268.5	-127.0	-49.4	52.6	12.00	9.36	13.44
8,325.0	37.59	239.79	8,288.6	-134.8	-62.1	65.4	12.00	9.69	11.94
8,350.0	40.08	242.46	8,308.1	-142.4	-75.8	79.3	12.00	9.96	10.68
8,375.0	42.63	244.87	8,326.8	-149.7	-90.6	94.3	12.00	10.18	9.62
8,400.0	45.22	247.05	8,344.8	-156.7	-106.4	110.3	12.00	10.36	8.73
8,425.0	47.84	249.04	8,362.0	-163.5	-123.3	127.3	12.00	10.51	7.97



Microsoft
Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Lightfoot 19 State Com 232H
Company:	V-F Petroleum, Inc.	TVD Reference:	3508+20 @ 3528.0usft
Project:	Eddy County, NM	MD Reference:	3508+20 @ 3528.0usft
Site:	Sec 19-T19S-R28E	North Reference:	Grid
Well:	Lightfoot 19 State Com 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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)
8,450.0	50.50	250.88	8,378.4	-170.0	-141.0	145.2	12.00	10.64	7.33
8,475.0	53.19	252.58	8,393.8	-176.1	-159.7	164.0	12.00	10.75	6.79
8,500.0	55.90	254.16	8,408.3	-182.0	-179.2	183.6	12.00	10.84	6.33
8,525.0	58.63	255.64	8,421.8	-187.4	-199.5	204.1	12.00	10.91	5.93
8,550.0	61.37	257.04	8,434.3	-192.5	-220.5	225.2	12.00	10.98	5.60
8,575.0	64.13	258.37	8,445.8	-197.3	-242.3	247.1	12.00	11.03	5.31
8,600.0	66.90	259.64	8,456.1	-201.6	-264.6	269.5	12.00	11.08	5.07
8,625.0	69.68	260.85	8,465.4	-205.5	-287.5	292.5	12.00	11.12	4.86
8,650.0	72.47	262.02	8,473.5	-209.1	-310.9	315.9	12.00	11.15	4.69
8,675.0	75.26	263.16	8,480.4	-212.2	-334.7	339.8	12.00	11.18	4.55
8,700.0	78.06	264.27	8,486.2	-214.8	-358.8	364.0	12.00	11.20	4.43
8,725.0	80.86	265.36	8,490.8	-217.0	-383.3	388.6	12.00	11.21	4.34
8,750.0	83.67	266.43	8,494.1	-218.8	-408.0	413.3	12.00	11.23	4.28
8,775.0	86.48	267.48	8,496.3	-220.1	-432.9	438.2	12.00	11.24	4.23
8,800.0	89.29	268.53	8,497.2	-221.0	-457.9	463.2	12.00	11.24	4.20
8,822.7	91.84	269.48	8,497.0	-221.4	-480.5	485.8	12.00	11.24	4.20
EOB&T HLD 91.84° Inc.									
8,900.0	91.84	269.48	8,494.5	-222.1	-557.8	563.1	0.00	0.00	0.00
9,000.0	91.84	269.48	8,491.3	-223.0	-657.7	663.1	0.00	0.00	0.00
9,100.0	91.84	269.48	8,488.1	-223.9	-757.7	763.0	0.00	0.00	0.00
9,200.0	91.84	269.48	8,484.9	-224.8	-857.6	862.9	0.00	0.00	0.00
9,300.0	91.84	269.48	8,481.7	-225.7	-957.6	962.9	0.00	0.00	0.00
9,400.0	91.84	269.48	8,478.5	-226.6	-1,057.5	1,062.8	0.00	0.00	0.00
9,500.0	91.84	269.48	8,475.3	-227.5	-1,157.5	1,162.7	0.00	0.00	0.00
9,600.0	91.84	269.48	8,472.1	-228.4	-1,257.4	1,262.7	0.00	0.00	0.00
9,700.0	91.84	269.48	8,468.9	-229.3	-1,357.4	1,362.6	0.00	0.00	0.00
9,800.0	91.84	269.48	8,465.7	-230.2	-1,457.3	1,462.6	0.00	0.00	0.00
9,900.0	91.84	269.48	8,462.5	-231.1	-1,557.2	1,562.5	0.00	0.00	0.00
10,000.0	91.84	269.48	8,459.3	-232.0	-1,657.2	1,662.4	0.00	0.00	0.00
10,100.0	91.84	269.48	8,456.1	-232.9	-1,757.1	1,762.4	0.00	0.00	0.00
10,200.0	91.84	269.48	8,452.9	-233.8	-1,857.1	1,862.3	0.00	0.00	0.00
10,300.0	91.84	269.48	8,449.7	-234.7	-1,957.0	1,962.2	0.00	0.00	0.00
10,400.0	91.84	269.48	8,446.5	-235.6	-2,057.0	2,062.2	0.00	0.00	0.00
10,500.0	91.84	269.48	8,443.3	-236.5	-2,156.9	2,162.1	0.00	0.00	0.00
10,600.0	91.84	269.48	8,440.1	-237.4	-2,256.9	2,262.0	0.00	0.00	0.00
10,700.0	91.84	269.48	8,436.8	-238.3	-2,356.8	2,362.0	0.00	0.00	0.00
10,800.0	91.84	269.48	8,433.6	-239.2	-2,456.7	2,461.9	0.00	0.00	0.00
10,900.0	91.84	269.48	8,430.4	-240.1	-2,556.7	2,561.9	0.00	0.00	0.00
11,000.0	91.84	269.48	8,427.2	-241.0	-2,656.6	2,661.8	0.00	0.00	0.00
11,100.0	91.84	269.48	8,424.0	-241.9	-2,756.6	2,761.7	0.00	0.00	0.00
11,200.0	91.84	269.48	8,420.8	-242.8	-2,856.5	2,861.7	0.00	0.00	0.00
11,300.0	91.84	269.48	8,417.6	-243.7	-2,956.5	2,961.6	0.00	0.00	0.00
11,400.0	91.84	269.48	8,414.4	-244.6	-3,056.4	3,061.5	0.00	0.00	0.00
11,500.0	91.84	269.48	8,411.2	-245.5	-3,156.4	3,161.5	0.00	0.00	0.00
11,600.0	91.84	269.48	8,408.0	-246.4	-3,256.3	3,261.4	0.00	0.00	0.00
11,700.0	91.84	269.48	8,404.8	-247.3	-3,356.2	3,361.3	0.00	0.00	0.00
11,800.0	91.84	269.48	8,401.6	-248.2	-3,456.2	3,461.3	0.00	0.00	0.00
11,900.0	91.84	269.48	8,398.4	-249.1	-3,556.1	3,561.2	0.00	0.00	0.00
12,000.0	91.84	269.48	8,395.2	-250.0	-3,656.1	3,661.1	0.00	0.00	0.00
12,100.0	91.84	269.48	8,392.0	-250.9	-3,756.0	3,761.1	0.00	0.00	0.00
12,200.0	91.84	269.48	8,388.8	-251.8	-3,856.0	3,861.0	0.00	0.00	0.00
12,300.0	91.84	269.48	8,385.6	-252.7	-3,955.9	3,961.0	0.00	0.00	0.00
12,400.0	91.84	269.48	8,382.4	-253.6	-4,055.9	4,060.9	0.00	0.00	0.00
12,500.0	91.84	269.48	8,379.2	-254.5	-4,155.8	4,160.8	0.00	0.00	0.00



Microsoft Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Lightfoot 19 State Com 232H
Company:	V-F Petroleum, Inc.	TVD Reference:	3508+20 @ 3528.0usft
Project:	Eddy County, NM	MD Reference:	3508+20 @ 3528.0usft
Site:	Sec 19-T19S-R28E	North Reference:	Grid
Well:	Lightfoot 19 State Com 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

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)	
12,600.0	91.84	269.48	8,376.0	-255.4	-4,255.8	4,260.8	0.00	0.00	0.00	
12,700.0	91.84	269.48	8,372.8	-256.3	-4,355.7	4,360.7	0.00	0.00	0.00	
12,800.0	91.84	269.48	8,369.6	-257.2	-4,455.6	4,460.6	0.00	0.00	0.00	
12,900.0	91.84	269.48	8,366.4	-258.1	-4,555.6	4,560.6	0.00	0.00	0.00	
13,000.0	91.84	269.48	8,363.2	-259.0	-4,655.5	4,660.5	0.00	0.00	0.00	
13,100.0	91.84	269.48	8,360.0	-259.9	-4,755.5	4,760.4	0.00	0.00	0.00	
13,200.0	91.84	269.48	8,356.7	-260.8	-4,855.4	4,860.4	0.00	0.00	0.00	
13,300.0	91.84	269.48	8,353.5	-261.7	-4,955.4	4,960.3	0.00	0.00	0.00	
13,400.0	91.84	269.48	8,350.3	-262.6	-5,055.3	5,060.3	0.00	0.00	0.00	
13,500.0	91.84	269.48	8,347.1	-263.5	-5,155.3	5,160.2	0.00	0.00	0.00	
13,600.0	91.84	269.48	8,343.9	-264.4	-5,255.2	5,260.1	0.00	0.00	0.00	
13,700.0	91.84	269.48	8,340.7	-265.3	-5,355.1	5,360.1	0.00	0.00	0.00	
13,800.0	91.84	269.48	8,337.5	-266.2	-5,455.1	5,460.0	0.00	0.00	0.00	
13,900.0	91.84	269.48	8,334.3	-267.1	-5,555.0	5,559.9	0.00	0.00	0.00	
14,000.0	91.84	269.48	8,331.1	-268.0	-5,655.0	5,659.9	0.00	0.00	0.00	
14,100.0	91.84	269.48	8,327.9	-268.9	-5,754.9	5,759.8	0.00	0.00	0.00	
14,200.0	91.84	269.48	8,324.7	-269.8	-5,854.9	5,859.7	0.00	0.00	0.00	
14,300.0	91.84	269.48	8,321.5	-270.7	-5,954.8	5,959.7	0.00	0.00	0.00	
14,400.0	91.84	269.48	8,318.3	-271.6	-6,054.8	6,059.6	0.00	0.00	0.00	
14,500.0	91.84	269.48	8,315.1	-272.5	-6,154.7	6,159.6	0.00	0.00	0.00	
14,600.0	91.84	269.48	8,311.9	-273.4	-6,254.6	6,259.5	0.00	0.00	0.00	
14,700.0	91.84	269.48	8,308.7	-274.3	-6,354.6	6,359.4	0.00	0.00	0.00	
14,800.0	91.84	269.48	8,305.5	-275.2	-6,454.5	6,459.4	0.00	0.00	0.00	
14,900.0	91.84	269.48	8,302.3	-276.1	-6,554.5	6,559.3	0.00	0.00	0.00	
15,000.0	91.84	269.48	8,299.1	-277.0	-6,654.4	6,659.2	0.00	0.00	0.00	
15,100.0	91.84	269.48	8,295.9	-277.9	-6,754.4	6,759.2	0.00	0.00	0.00	
15,200.0	91.84	269.48	8,292.7	-278.8	-6,854.3	6,859.1	0.00	0.00	0.00	
15,300.0	91.84	269.48	8,289.5	-279.7	-6,954.3	6,959.0	0.00	0.00	0.00	
15,400.0	91.84	269.48	8,286.3	-280.6	-7,054.2	7,059.0	0.00	0.00	0.00	
15,500.0	91.84	269.48	8,283.1	-281.5	-7,154.1	7,158.9	0.00	0.00	0.00	
15,600.0	91.84	269.48	8,279.9	-282.4	-7,254.1	7,258.9	0.00	0.00	0.00	
15,700.0	91.84	269.48	8,276.6	-283.2	-7,354.0	7,358.8	0.00	0.00	0.00	
15,800.0	91.84	269.48	8,273.4	-284.1	-7,454.0	7,458.7	0.00	0.00	0.00	
15,900.0	91.84	269.48	8,270.2	-285.0	-7,553.9	7,558.7	0.00	0.00	0.00	
16,000.0	91.84	269.48	8,267.0	-285.9	-7,653.9	7,658.6	0.00	0.00	0.00	
16,094.8	91.84	269.48	8,264.0	-286.8	-7,748.6	7,753.3	0.00	0.00	0.00	
TD at 16094.8										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL Lightfoot 19 State	0.00	0.00	8,264.0	-286.8	-7,748.6	597,921.10	572,525.70	32° 38' 37.293 N	104° 13' 55.229 W	
- plan hits target center										
- Point										
LP Lightfoot 19 State Cr	0.00	0.00	8,497.0	-221.4	-480.5	597,986.50	579,793.80	32° 38' 37.863 N	104° 12' 30.222 W	
- plan hits target center										
- Point										



Microsoft
Planning Report

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Lightfoot 19 State Com 232H
Company:	V-F Petroleum, Inc.	TVD Reference:	3508+20 @ 3528.0usft
Project:	Eddy County, NM	MD Reference:	3508+20 @ 3528.0usft
Site:	Sec 19-T19S-R28E	North Reference:	Grid
Well:	Lightfoot 19 State Com 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,842.7	7,842.7	0.0	0.0	KOP BLD&T 12°/100'
8,017.5	8,013.6	-30.7	7.8	EOB&T 20.97° CONT B&T 12°/100'
8,822.7	8,497.0	-221.4	-480.5	EOB&T HLD 91.84° Inc.
16,094.8	8,264.0	-286.8	-7,748.6	TD at 16094.8

Oilfield Petroleum, Inc.
 Project: Eddy County, NM
 Site: Sec 19-T19S-R28E
 Well: Lightfoot 19 State Com 232H
 Wellbore: Wellbore #1
 Plan: Plan #2 (Lightfoot 19 State Com 232H/Wellbore #1)

WELL DETAILS: Lightfoot 19 State Com 232H

Ground Elevation: 3508.0
 RKB Elevation: 3508+20 @ 3528.0ust
 Rig Name:

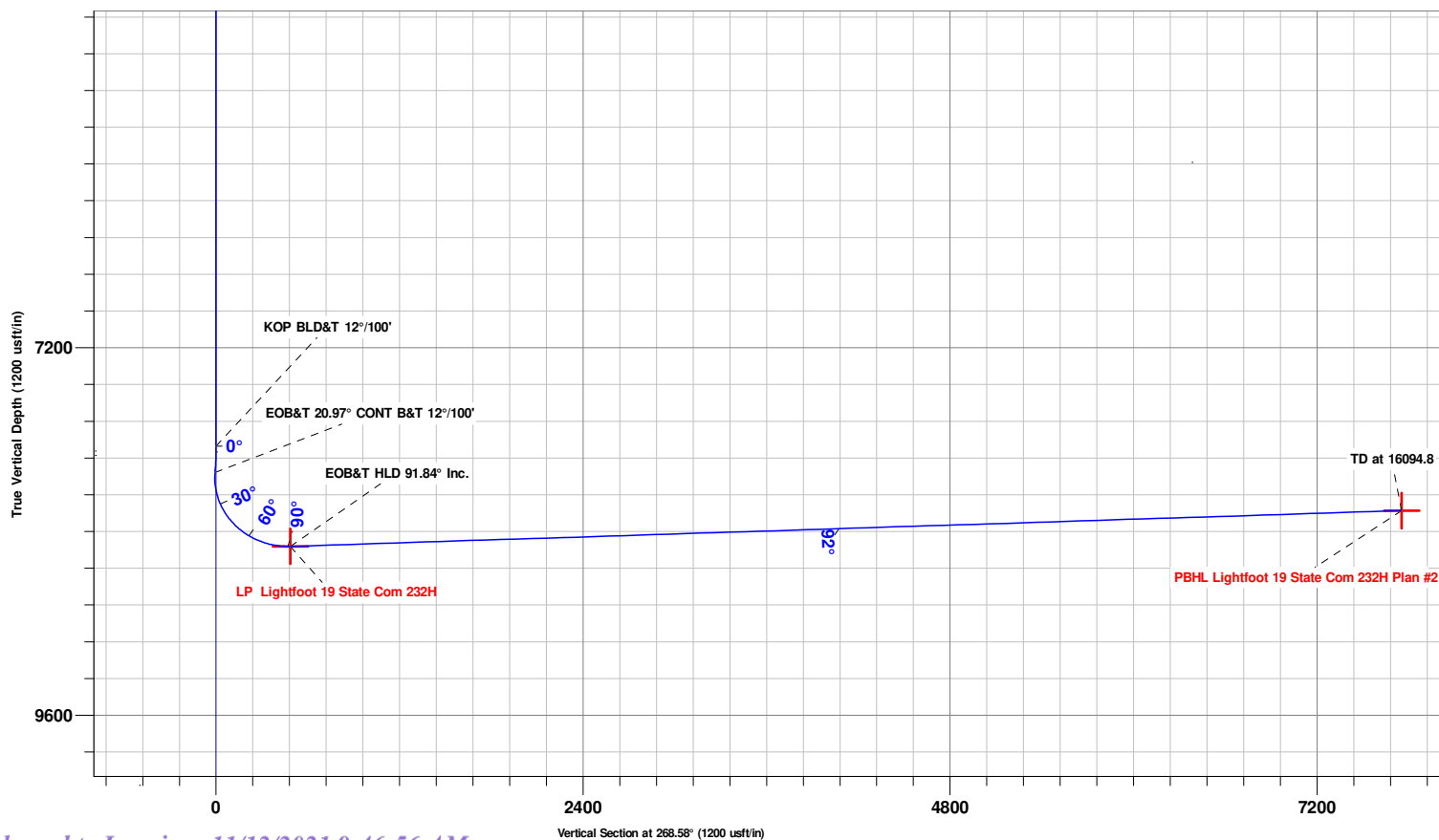
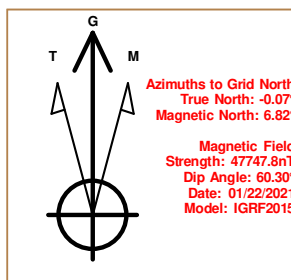
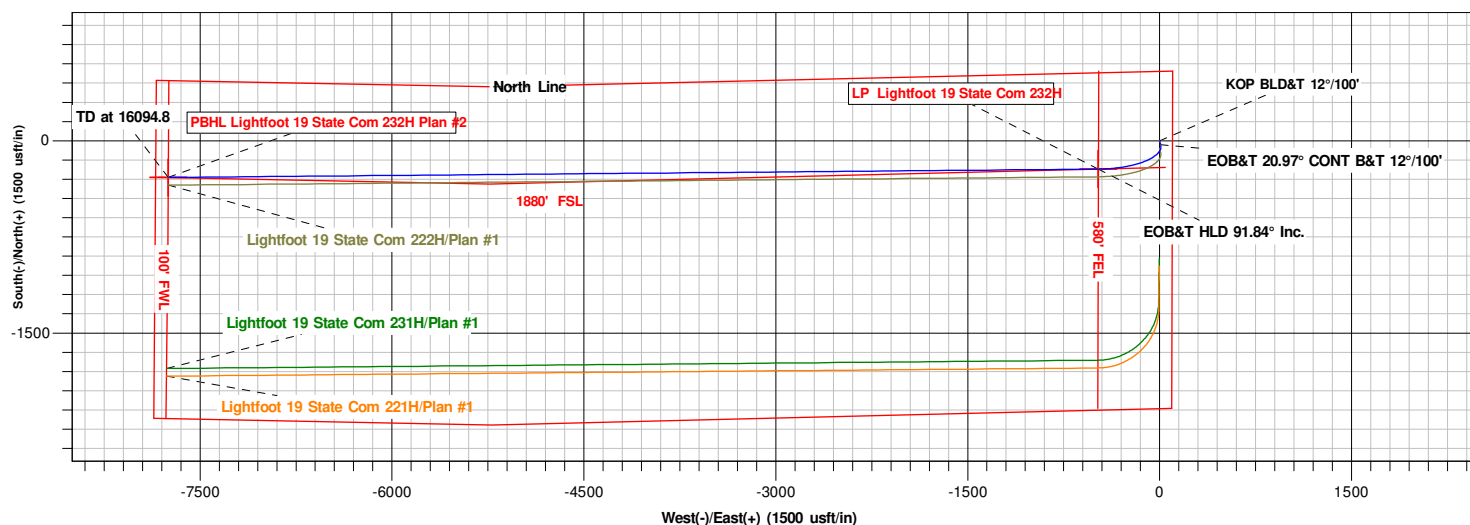
Northing: 598207.90 Easting: 580274.30 Latitude: 32° 38' 40.13" N Longitude: 104° 12' 24.59" W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
7842.7	0.00	0.00	7842.7	0.0	0.0	0.00	0.00	0.0
8017.5	20.97	165.68	8013.6	-30.7	7.8	12.00	165.68	-7.1
8822.7	91.84	269.48	8497.0	-221.4	-480.5	12.00	102.28	485.8
16094.8	91.84	269.48	8264.0	-286.8	-7748.6	0.00	0.00	7753.3

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL Lightfoot 19 State Com 232H Plan #2	8264.0	-286.8	-7748.6	597921.10	572525.70	32° 38' 37.293 N	104° 13' 55.229 W	Point
LP Lightfoot 19 State Com 232H	8497.0	-221.4	-480.5	597986.50	579793.80	32° 38' 37.863 N	104° 12' 30.222 W	Point
- plan hits target center - plan hits target center								



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 58088

COMMENTS

Operator: V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702	OGRID: 24010
	Action Number: 58088
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 11/8/2021	11/8/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 58088

CONDITIONS

Operator: V-F PETROLEUM INC P.O. Box 1889 Midland, TX 79702	OGRID: 24010
	Action Number: 58088
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	11/12/2021