

RECEIVED

APR 26 2019

DISTRICT II-ARTESIA O.C.D.

V-F Petroleum Inc

Eddy County (NAD 83 NME)
(Crockett) Sec-16_T-19-S_R-28-E
Crockett 16 State Com #221H

OWB

Plan: Plan #1

Standard Planning Report

20 April, 2019

 **INTREPID**

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Crockett 16 State Com #221H
Company:	V-F Petroleum Inc	TVD Reference:	KB @ 3543.2usft
Project:	Eddy County (NAD 83 NME)	MD Reference:	KB @ 3543.2usft
Site:	(Crockett) Sec-16_T-19-S_R-28-E	North Reference:	Grid
Well:	Crockett 16 State Com #221H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project	Eddy County (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Crockett) Sec-16_T-19-S_R-28-E		
Site Position:	Map	Northing:	605,814.73 usft
From:		Easting:	590,577.92 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 39' 55.183 N
		Longitude:	104° 10' 23.956 W
		Grid Convergence:	0.09 °

Well	Crockett 16 State Com #221H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,523.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	04/19/19	7.07	60.35	47,973.35535381

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	269.31

Plan Survey Tool Program	Date 04/20/19			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	11,954.4 Plan #1 (OWB)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,803.6	0.00	0.00	6,803.6	0.0	0.0	0.00	0.00	0.00	0.00	
7,560.1	90.78	269.31	7,281.0	-5.8	-484.0	12.00	12.00	-11.99	269.31	
11,954.4	90.78	269.31	7,221.0	-58.5	-4,877.5	0.00	0.00	0.00	0.00	PBHL (Crockett 16)

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Well:	Crockett 16 State Com #221H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #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)
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

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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
6,803.6	0.00	0.00	6,803.6	0.0	0.0	0.0	0.00	0.00	0.00
KOP - DLS 12.00 TFO 269.31									
6,825.0	2.57	269.31	6,825.0	0.0	-0.5	0.5	12.00	12.00	0.00
6,850.0	5.57	269.31	6,849.9	0.0	-2.3	2.3	12.00	12.00	0.00
6,875.0	8.57	269.31	6,874.7	-0.1	-5.3	5.3	12.00	12.00	0.00
6,900.0	11.57	269.31	6,899.3	-0.1	-9.7	9.7	12.00	12.00	0.00
6,925.0	14.57	269.31	6,923.7	-0.2	-15.3	15.4	12.00	12.00	0.00
6,950.0	17.57	269.31	6,947.7	-0.3	-22.3	22.3	12.00	12.00	0.00
6,975.0	20.57	269.31	6,971.3	-0.4	-30.4	30.4	12.00	12.00	0.00
7,000.0	23.57	269.31	6,994.5	-0.5	-39.8	39.8	12.00	12.00	0.00
7,025.0	26.57	269.31	7,017.2	-0.6	-50.4	50.4	12.00	12.00	0.00
7,050.0	29.57	269.31	7,039.2	-0.7	-62.2	62.2	12.00	12.00	0.00
7,075.0	32.57	269.31	7,060.6	-0.9	-75.1	75.1	12.00	12.00	0.00
7,100.0	35.57	269.31	7,081.3	-1.1	-89.1	89.1	12.00	12.00	0.00
7,125.0	38.57	269.31	7,101.3	-1.2	-104.1	104.1	12.00	12.00	0.00
7,150.0	41.57	269.31	7,120.4	-1.4	-120.2	120.2	12.00	12.00	0.00
7,175.0	44.57	269.31	7,138.7	-1.6	-137.3	137.3	12.00	12.00	0.00
7,200.0	47.57	269.31	7,156.0	-1.9	-155.3	155.3	12.00	12.00	0.00
7,225.0	50.57	269.31	7,172.4	-2.1	-174.2	174.2	12.00	12.00	0.00
7,250.0	53.57	269.31	7,187.8	-2.3	-193.9	193.9	12.00	12.00	0.00
7,275.0	56.57	269.31	7,202.1	-2.6	-214.4	214.4	12.00	12.00	0.00
7,300.0	59.57	269.31	7,215.3	-2.8	-235.6	235.6	12.00	12.00	0.00
7,325.0	62.57	269.31	7,227.4	-3.1	-257.5	257.5	12.00	12.00	0.00
7,350.0	65.57	269.31	7,238.3	-3.4	-280.0	280.0	12.00	12.00	0.00
7,375.0	68.57	269.31	7,248.0	-3.6	-303.0	303.0	12.00	12.00	0.00
7,400.0	71.57	269.31	7,256.6	-3.9	-326.5	326.5	12.00	12.00	0.00
7,425.0	74.57	269.31	7,263.9	-4.2	-350.4	350.4	12.00	12.00	0.00
7,450.0	77.57	269.31	7,269.9	-4.5	-374.6	374.7	12.00	12.00	0.00
7,475.0	80.57	269.31	7,274.6	-4.8	-399.2	399.2	12.00	12.00	0.00
7,500.0	83.57	269.31	7,278.1	-5.1	-423.9	424.0	12.00	12.00	0.00
7,525.0	86.57	269.31	7,280.2	-5.4	-448.8	448.9	12.00	12.00	0.00
7,550.0	89.57	269.31	7,281.1	-5.7	-473.8	473.9	12.00	12.00	0.00
7,560.1	90.78	269.31	7,281.0	-5.8	-484.0	484.0	12.00	12.00	0.00
EOC - 4394.2 hold at 7560.1 MD									
7,600.0	90.78	269.31	7,280.5	-6.3	-523.8	523.9	0.00	0.00	0.00
7,700.0	90.78	269.31	7,279.1	-7.5	-623.8	623.9	0.00	0.00	0.00
7,800.0	90.78	269.31	7,277.7	-8.7	-723.8	723.8	0.00	0.00	0.00
7,900.0	90.78	269.31	7,276.4	-9.9	-823.8	823.8	0.00	0.00	0.00
8,000.0	90.78	269.31	7,275.0	-11.1	-923.8	923.8	0.00	0.00	0.00

Intrepid
Planning Report



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Planned Survey

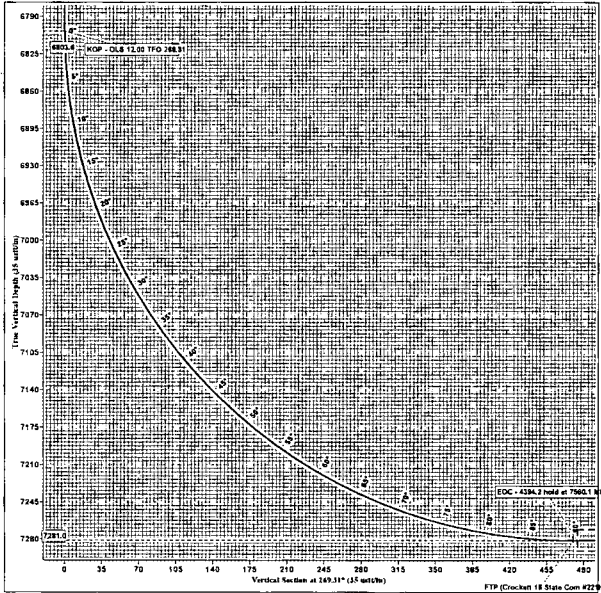
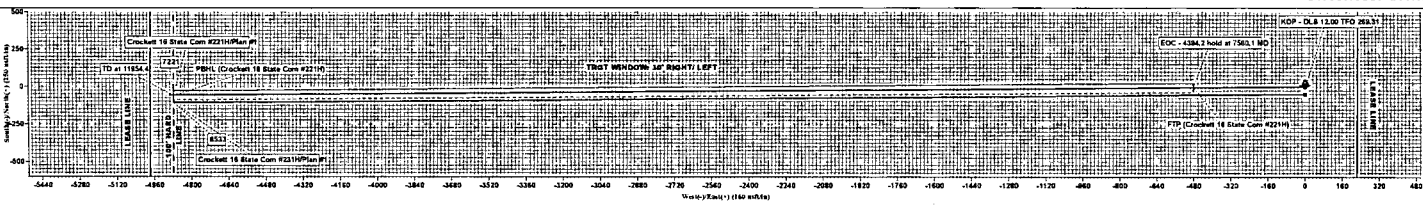
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,100.0	90.78	269.31	7,273.6	-12.3	-1,023.7	1,023.8	0.00	0.00	0.00
8,200.0	90.78	269.31	7,272.3	-13.5	-1,123.7	1,123.8	0.00	0.00	0.00
8,300.0	90.78	269.31	7,270.9	-14.7	-1,223.7	1,223.8	0.00	0.00	0.00
8,400.0	90.78	269.31	7,269.5	-15.9	-1,323.7	1,323.8	0.00	0.00	0.00
8,500.0	90.78	269.31	7,268.2	-17.1	-1,423.7	1,423.8	0.00	0.00	0.00
8,600.0	90.78	269.31	7,266.8	-18.3	-1,523.7	1,523.8	0.00	0.00	0.00
8,700.0	90.78	269.31	7,265.5	-19.5	-1,623.6	1,623.8	0.00	0.00	0.00
8,800.0	90.78	269.31	7,264.1	-20.7	-1,723.6	1,723.7	0.00	0.00	0.00
8,900.0	90.78	269.31	7,262.7	-21.9	-1,823.6	1,823.7	0.00	0.00	0.00
9,000.0	90.78	269.31	7,261.4	-23.1	-1,923.6	1,923.7	0.00	0.00	0.00
9,100.0	90.78	269.31	7,260.0	-24.3	-2,023.6	2,023.7	0.00	0.00	0.00
9,200.0	90.78	269.31	7,258.6	-25.5	-2,123.6	2,123.7	0.00	0.00	0.00
9,300.0	90.78	269.31	7,257.3	-26.7	-2,223.5	2,223.7	0.00	0.00	0.00
9,400.0	90.78	269.31	7,255.9	-27.9	-2,323.5	2,323.7	0.00	0.00	0.00
9,500.0	90.78	269.31	7,254.5	-29.1	-2,423.5	2,423.7	0.00	0.00	0.00
9,600.0	90.78	269.31	7,253.2	-30.3	-2,523.5	2,523.7	0.00	0.00	0.00
9,700.0	90.78	269.31	7,251.8	-31.4	-2,623.5	2,623.7	0.00	0.00	0.00
9,800.0	90.78	269.31	7,250.4	-32.6	-2,723.5	2,723.7	0.00	0.00	0.00
9,900.0	90.78	269.31	7,249.1	-33.8	-2,823.4	2,823.6	0.00	0.00	0.00
10,000.0	90.78	269.31	7,247.7	-35.0	-2,923.4	2,923.6	0.00	0.00	0.00
10,100.0	90.78	269.31	7,246.3	-36.2	-3,023.4	3,023.6	0.00	0.00	0.00
10,200.0	90.78	269.31	7,245.0	-37.4	-3,123.4	3,123.6	0.00	0.00	0.00
10,300.0	90.78	269.31	7,243.6	-38.6	-3,223.4	3,223.6	0.00	0.00	0.00
10,400.0	90.78	269.31	7,242.2	-39.8	-3,323.4	3,323.6	0.00	0.00	0.00
10,500.0	90.78	269.31	7,240.9	-41.0	-3,423.3	3,423.6	0.00	0.00	0.00
10,600.0	90.78	269.31	7,239.5	-42.2	-3,523.3	3,523.6	0.00	0.00	0.00
10,700.0	90.78	269.31	7,238.1	-43.4	-3,623.3	3,623.6	0.00	0.00	0.00
10,800.0	90.78	269.31	7,236.8	-44.6	-3,723.3	3,723.6	0.00	0.00	0.00
10,900.0	90.78	269.31	7,235.4	-45.8	-3,823.3	3,823.6	0.00	0.00	0.00
11,000.0	90.78	269.31	7,234.0	-47.0	-3,923.3	3,923.5	0.00	0.00	0.00
11,100.0	90.78	269.31	7,232.7	-48.2	-4,023.2	4,023.5	0.00	0.00	0.00
11,200.0	90.78	269.31	7,231.3	-49.4	-4,123.2	4,123.5	0.00	0.00	0.00
11,300.0	90.78	269.31	7,229.9	-50.6	-4,223.2	4,223.5	0.00	0.00	0.00
11,400.0	90.78	269.31	7,228.6	-51.8	-4,323.2	4,323.5	0.00	0.00	0.00
11,500.0	90.78	269.31	7,227.2	-53.0	-4,423.2	4,423.5	0.00	0.00	0.00
11,600.0	90.78	269.31	7,225.8	-54.2	-4,523.2	4,523.5	0.00	0.00	0.00
11,700.0	90.78	269.31	7,224.5	-55.4	-4,623.1	4,623.5	0.00	0.00	0.00
11,800.0	90.78	269.31	7,223.1	-56.6	-4,723.1	4,723.5	0.00	0.00	0.00
11,900.0	90.78	269.31	7,221.7	-57.8	-4,823.1	4,823.5	0.00	0.00	0.00
11,954.4	90.78	269.31	7,221.0	-58.5	-4,877.5	4,877.8	0.00	0.00	0.00

TD at 11954.4

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Crockett 16 State Com #221H
Company:	V-F Petroleum Inc	TVD Reference:	KB @ 3543.2usft
Project:	Eddy County (NAD 83 NME)	MD Reference:	KB @ 3543.2usft
Site:	(Crockett) Sec-16_T-19-S_R-28-E	North Reference:	Grid
Well:	Crockett 16 State Com #221H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

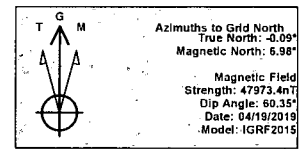
Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL (Crockett 16 St	-0.78	269.31	7,221.0	-58.5	-4,877.5	605,756.26	585,700.45	32° 39' 54.674 N	104° 11' 21.016 W
- plan hits target center									
- Rectangle (sides W60.0 H4,394.2 D20.0)									
FTP (Crockett 16 Stat	0.00	0.14	7,281.0	-5.8	-479.9	605,808.92	590,098.06	32° 39' 55.133 N	104° 10' 29.569 W
- plan misses target center by 0.1usft at 7556.0usft MD (7281.1 TVD, -5.8 N, -479.9 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
6,803.6	6,803.6	0.0	0.0	KOP - DLS 12.00 TFO 269.31
7,560.1	7,281.0	-5.8	-484.0	EOC - 4394.2 hold at 7560.1 MD
11,954.4	7,221.0	-58.5	-4,877.5	TD at 11954.4



V-F Petroleum Inc
Project: Eddy County (NAD 83 NME)
Site: (Crockett) Sec-16, T-19-S, R-28-E
Well: Crockett 16 State Com #221H
Wellbore: OWB
Design: Plan #1
Lat: 32° 39' 55.183 N
Long: 104° 10' 23.956 W
Pad GL: 3523.2
KB: KB @ 3543.2usft

WELL DETAILS: Crockett 16 State Com #221H					
	3523.2				
+N-S	+E-W	Nothing	59577.32	Latitude	Longitude
0.0	0.0	605814.73	590577.32	32° 39' 55.183 N	104° 10' 23.956 W
SECTION DETAILS					
MD	Inc	Azi	TVD	+N-S	+E-W
0.0	0.00	0.00	0.0	0.0	0.00
803.6	0.00	0.00	803.6	0.0	0.00
7660.1	90.78	769.31	7281.0	-6.8	-484.0
11954.4	90.78	269.31	7221.0	-68.5	-4877.5
Annotation					
KOP - DLS 12.00 TFO 268.3					
484.0EOC - 4384.2 hold at 7560.1 MD					
TD at 11854.4					
DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Nothing	Easting
PBHL (Crockett 16 State Com #221H)	7221.0	-68.5	-4877.5	605756.28	685700.46
FTP (Crockett 16 State Com #221H)	7281.0	-6.8	-478.9	605006.92	680298.06



To convert a Magnetic Direction to a Grid Direction, Add 8.98°

