

V-F Petroleum Inc.
Standard Planning Report
Getty 1 State Com #223H

Location: 1-22S-34E
 Pool: Grama Ridge; Bone Spring, NE [28435]
 GL Elev: 3574
 Method: Minimum Curvature

30-025 44796
 HOBBBS
 MAY 17 2018
 RECEIVED

Surface Latitude: 32.414385
 Surface Longitude: -103.42055
 Bottom Hole Latitude: 32.427312
 Bottom Hole Longitude: -103.42051

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Measured			Vertical			Vertical		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Dogleg Rate	Build Rate
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)
0	0.0	359.7	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	359.7	100.0	0.0	0.0	0.0	0.0	0.0
200	0.0	359.7	200.0	0.0	0.0	0.0	0.0	0.0
300	0.0	359.7	300.0	0.0	0.0	0.0	0.0	0.0
400	0.0	359.7	400.0	0.0	0.0	0.0	0.0	0.0
500	0.0	359.7	500.0	0.0	0.0	0.0	0.0	0.0
600	0.0	359.7	600.0	0.0	0.0	0.0	0.0	0.0
700	0.0	359.7	700.0	0.0	0.0	0.0	0.0	0.0
800	0.0	359.7	800.0	0.0	0.0	0.0	0.0	0.0
900	0.0	359.7	900.0	0.0	0.0	0.0	0.0	0.0
1000	0.0	359.7	1000.0	0.0	0.0	0.0	0.0	0.0
1100	0.0	359.7	1100.0	0.0	0.0	0.0	0.0	0.0
1200	0.0	359.7	1200.0	0.0	0.0	0.0	0.0	0.0
1300	0.0	359.7	1300.0	0.0	0.0	0.0	0.0	0.0
1400	0.0	359.7	1400.0	0.0	0.0	0.0	0.0	0.0
1500	0.0	359.7	1500.0	0.0	0.0	0.0	0.0	0.0
1600	0.0	359.7	1600.0	0.0	0.0	0.0	0.0	0.0
1700	0.0	359.7	1700.0	0.0	0.0	0.0	0.0	0.0
1800	0.0	359.7	1800.0	0.0	0.0	0.0	0.0	0.0
1900	0.0	359.7	1900.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	359.7	2000.0	0.0	0.0	0.0	0.0	0.0
2100	0.0	359.7	2100.0	0.0	0.0	0.0	0.0	0.0
2200	0.0	359.7	2200.0	0.0	0.0	0.0	0.0	0.0
2300	0.0	359.7	2300.0	0.0	0.0	0.0	0.0	0.0
2400	0.0	359.7	2400.0	0.0	0.0	0.0	0.0	0.0
2500	0.0	359.7	2500.0	0.0	0.0	0.0	0.0	0.0
2600	0.0	359.7	2600.0	0.0	0.0	0.0	0.0	0.0
2700	0.0	359.7	2700.0	0.0	0.0	0.0	0.0	0.0
2800	0.0	359.7	2800.0	0.0	0.0	0.0	0.0	0.0
2900	0.0	359.7	2900.0	0.0	0.0	0.0	0.0	0.0
3000	0.0	359.7	3000.0	0.0	0.0	0.0	0.0	0.0
3100	0.0	359.7	3100.0	0.0	0.0	0.0	0.0	0.0
3200	0.0	359.7	3200.0	0.0	0.0	0.0	0.0	0.0
3300	0.0	359.7	3300.0	0.0	0.0	0.0	0.0	0.0
3400	0.0	359.7	3400.0	0.0	0.0	0.0	0.0	0.0
3500	0.0	359.7	3500.0	0.0	0.0	0.0	0.0	0.0
3600	0.0	359.7	3600.0	0.0	0.0	0.0	0.0	0.0
3700	0.0	359.7	3700.0	0.0	0.0	0.0	0.0	0.0
3800	0.0	359.7	3800.0	0.0	0.0	0.0	0.0	0.0
3900	0.0	359.7	3900.0	0.0	0.0	0.0	0.0	0.0
4000	0.0	359.7	4000.0	0.0	0.0	0.0	0.0	0.0

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Measured			Vertical			Vertical	Dogleg	Build
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)
4100	0.0	359.7	4100.0	0.0	0.0	0.0	0.0	0.0
4200	0.0	359.7	4200.0	0.0	0.0	0.0	0.0	0.0
4300	0.0	359.7	4300.0	0.0	0.0	0.0	0.0	0.0
4400	0.0	359.7	4400.0	0.0	0.0	0.0	0.0	0.0
4500	0.0	359.7	4500.0	0.0	0.0	0.0	0.0	0.0
4600	0.0	359.7	4600.0	0.0	0.0	0.0	0.0	0.0
4700	0.0	359.7	4700.0	0.0	0.0	0.0	0.0	0.0
4800	0.0	359.7	4800.0	0.0	0.0	0.0	0.0	0.0
4900	0.0	359.7	4900.0	0.0	0.0	0.0	0.0	0.0
5000	0.0	359.7	5000.0	0.0	0.0	0.0	0.0	0.0
5100	0.0	359.7	5100.0	0.0	0.0	0.0	0.0	0.0
5200	0.0	359.7	5200.0	0.0	0.0	0.0	0.0	0.0
5300	0.0	359.7	5300.0	0.0	0.0	0.0	0.0	0.0
5400	0.0	359.7	5400.0	0.0	0.0	0.0	0.0	0.0
5500	0.0	359.7	5500.0	0.0	0.0	0.0	0.0	0.0
5600	0.0	359.7	5600.0	0.0	0.0	0.0	0.0	0.0
5700	0.0	359.7	5700.0	0.0	0.0	0.0	0.0	0.0
5800	0.0	359.7	5800.0	0.0	0.0	0.0	0.0	0.0
5900	0.0	359.7	5900.0	0.0	0.0	0.0	0.0	0.0
6000	0.0	359.7	6000.0	0.0	0.0	0.0	0.0	0.0
6100	0.0	359.7	6100.0	0.0	0.0	0.0	0.0	0.0
6200	0.0	359.7	6200.0	0.0	0.0	0.0	0.0	0.0
6300	0.0	359.7	6300.0	0.0	0.0	0.0	0.0	0.0
6400	0.0	359.7	6400.0	0.0	0.0	0.0	0.0	0.0
6500	0.0	359.7	6500.0	0.0	0.0	0.0	0.0	0.0
6600	0.0	359.7	6600.0	0.0	0.0	0.0	0.0	0.0
6700	0.0	359.7	6700.0	0.0	0.0	0.0	0.0	0.0
6800	0.0	359.7	6800.0	0.0	0.0	0.0	0.0	0.0
6900	0.0	359.7	6900.0	0.0	0.0	0.0	0.0	0.0
7000	0.0	359.7	7000.0	0.0	0.0	0.0	0.0	0.0
7100	0.0	359.7	7100.0	0.0	0.0	0.0	0.0	0.0
7200	0.0	359.7	7200.0	0.0	0.0	0.0	0.0	0.0
7300	0.0	359.7	7300.0	0.0	0.0	0.0	0.0	0.0
7400	0.0	359.7	7400.0	0.0	0.0	0.0	0.0	0.0
7500	0.0	359.7	7500.0	0.0	0.0	0.0	0.0	0.0
7600	0.0	359.7	7600.0	0.0	0.0	0.0	0.0	0.0
7700	0.0	359.7	7700.0	0.0	0.0	0.0	0.0	0.0
7800	0.0	359.7	7800.0	0.0	0.0	0.0	0.0	0.0
7900	0.0	359.7	7900.0	0.0	0.0	0.0	0.0	0.0
8000	0.0	359.7	8000.0	0.0	0.0	0.0	0.0	0.0
8100	0.0	359.7	8100.0	0.0	0.0	0.0	0.0	0.0

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Measured			Vertical			Vertical	Dogleg	Build
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)
8200	0.0	359.7	8200.0	0.0	0.0	0.0	0.0	0.0
8300	0.0	359.7	8300.0	0.0	0.0	0.0	0.0	0.0
8400	0.0	359.7	8400.0	0.0	0.0	0.0	0.0	0.0
8500	0.0	359.7	8500.0	0.0	0.0	0.0	0.0	0.0
8600	0.0	359.7	8600.0	0.0	0.0	0.0	0.0	0.0
8700	0.0	359.7	8700.0	0.0	0.0	0.0	0.0	0.0
8800	0.0	359.7	8800.0	0.0	0.0	0.0	0.0	0.0
8900	0.0	359.7	8900.0	0.0	0.0	0.0	0.0	0.0
9000	0.0	359.7	9000.0	0.0	0.0	0.0	0.0	0.0
9100	0.0	359.7	9100.0	0.0	0.0	0.0	0.0	0.0
9200	0.0	359.7	9200.0	0.0	0.0	0.0	0.0	0.0
9300	0.0	359.7	9300.0	0.0	0.0	0.0	0.0	0.0
9400	0.0	359.7	9400.0	0.0	0.0	0.0	0.0	0.0
9500	0.0	359.7	9500.0	0.0	0.0	0.0	0.0	0.0
9600	0.0	359.7	9600.0	0.0	0.0	0.0	0.0	0.0
9700	0.0	359.7	9700.0	0.0	0.0	0.0	0.0	0.0
9800	0.0	359.7	9800.0	0.0	0.0	0.0	0.0	0.0
9828	0.0	359.7	9827.5	0.0	0.0	0.0	0.0	0.0
9838	1.2	359.7	9837.5	0.1	0.0	0.1	12.0	12.0
9848	2.4	359.7	9847.5	0.4	0.0	0.4	12.0	12.0
9858	3.6	359.7	9857.5	1.0	0.0	1.0	12.0	12.0
9868	4.8	359.7	9867.5	1.7	0.0	1.7	12.0	12.0
9878	6.0	359.7	9877.5	2.6	0.0	2.6	12.0	12.0
9888	7.2	359.7	9887.4	3.8	0.0	3.8	12.0	12.0
9898	8.4	359.7	9897.3	5.1	0.0	5.1	12.0	12.0
9908	9.6	359.7	9907.2	6.7	0.0	6.7	12.0	12.0
9918	10.8	359.7	9917.0	8.5	-0.1	8.5	12.0	12.0
9928	12.0	359.7	9926.8	10.4	-0.1	10.4	12.0	12.0
9938	13.2	359.7	9936.6	12.6	-0.1	12.6	12.0	12.0
9948	14.4	359.7	9946.3	15.0	-0.1	15.0	12.0	12.0
9958	15.6	359.7	9956.0	17.6	-0.1	17.6	12.0	12.0
9968	16.8	359.7	9965.6	20.4	-0.1	20.4	12.0	12.0
9978	18.0	359.7	9975.1	23.4	-0.1	23.4	12.0	12.0
9988	19.2	359.7	9984.6	26.6	-0.2	26.6	12.0	12.0
9998	20.4	359.7	9994.0	30.0	-0.2	30.0	12.0	12.0
10008	21.6	359.7	10003.3	33.5	-0.2	33.5	12.0	12.0
10018	22.8	359.7	10012.6	37.3	-0.2	37.3	12.0	12.0
10028	24.0	359.7	10021.8	41.3	-0.3	41.3	12.0	12.0
10038	25.2	359.7	10030.9	45.4	-0.3	45.5	12.0	12.0
10048	26.4	359.7	10039.9	49.8	-0.3	49.8	12.0	12.0
10058	27.6	359.7	10048.8	54.3	-0.3	54.3	12.0	12.0

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Pool:	Grama Ridge; Bone Spring, NE [28435]		Surface Longitude:	-103.42055
GL Elev:	3574		Bottom Hole Latitude:	32.427312
Method:	Minimum Curvature		Bottom Hole Longitude:	-103.42051

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Measured			Vertical			Vertical		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Dogleg Rate	Build Rate
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)
10068	28.8	359.7	10057.6	59.1	-0.4	59.1	12.0	12.0
10078	30.0	359.7	10066.3	64.0	-0.4	64.0	12.0	12.0
10088	31.2	359.7	10074.9	69.1	-0.4	69.1	12.0	12.0
10098	32.4	359.7	10083.4	74.3	-0.5	74.3	12.0	12.0
10108	33.6	359.7	10091.8	79.8	-0.5	79.8	12.0	12.0
10118	34.8	359.7	10100.1	85.4	-0.5	85.4	12.0	12.0
10128	36.0	359.7	10108.3	91.2	-0.6	91.2	12.0	12.0
10138	37.2	359.7	10116.3	97.2	-0.6	97.2	12.0	12.0
10148	38.4	359.7	10124.2	103.3	-0.6	103.3	12.0	12.0
10158	39.6	359.7	10132.0	109.6	-0.7	109.6	12.0	12.0
10168	40.8	359.7	10139.6	116.0	-0.7	116.0	12.0	12.0
10178	42.0	359.7	10147.1	122.6	-0.7	122.6	12.0	12.0
10188	43.2	359.7	10154.5	129.4	-0.8	129.4	12.0	12.0
10198	44.4	359.7	10161.7	136.3	-0.8	136.3	12.0	12.0
10208	45.6	359.7	10168.8	143.4	-0.9	143.4	12.0	12.0
10218	46.8	359.7	10175.7	150.6	-0.9	150.6	12.0	12.0
10228	48.0	359.7	10182.5	158.0	-1.0	158.0	12.0	12.0
10238	49.2	359.7	10189.1	165.5	-1.0	165.5	12.0	12.0
10248	50.4	359.7	10195.6	173.1	-1.1	173.1	12.0	12.0
10258	51.6	359.7	10201.9	180.9	-1.1	180.9	12.0	12.0
10268	52.8	359.7	10208.0	188.8	-1.1	188.8	12.0	12.0
10278	54.0	359.7	10214.0	196.8	-1.2	196.8	12.0	12.0
10288	55.2	359.7	10219.8	205.0	-1.2	205.0	12.0	12.0
10298	56.4	359.7	10225.4	213.2	-1.3	213.2	12.0	12.0
10308	57.6	359.7	10230.8	221.6	-1.3	221.6	12.0	12.0
10318	58.8	359.7	10236.1	230.1	-1.4	230.1	12.0	12.0
10328	60.0	359.7	10241.2	238.7	-1.4	238.7	12.0	12.0
10338	61.2	359.7	10246.1	247.4	-1.5	247.5	12.0	12.0
10348	62.4	359.7	10250.8	256.3	-1.6	256.3	12.0	12.0
10358	63.6	359.7	10255.3	265.2	-1.6	265.2	12.0	12.0
10368	64.8	359.7	10259.7	274.2	-1.7	274.2	12.0	12.0
10378	66.0	359.7	10263.9	283.3	-1.7	283.3	12.0	12.0
10388	67.2	359.7	10267.9	292.4	-1.8	292.4	12.0	12.0
10398	68.4	359.7	10271.7	301.7	-1.8	301.7	12.0	12.0
10408	69.6	359.7	10275.3	311.0	-1.9	311.0	12.0	12.0
10418	70.8	359.7	10278.7	320.4	-1.9	320.5	12.0	12.0
10428	72.0	359.7	10281.9	329.9	-2.0	329.9	12.0	12.0
10438	73.2	359.7	10284.9	339.5	-2.1	339.5	12.0	12.0
10448	74.4	359.7	10287.7	349.1	-2.1	349.1	12.0	12.0
10458	75.6	359.7	10290.3	358.7	-2.2	358.7	12.0	12.0
10468	76.8	359.7	10292.7	368.4	-2.2	368.4	12.0	12.0

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Measured			Vertical			Vertical	Dogleg	Build
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)
10478	78.0	359.7	10294.9	378.2	-2.3	378.2	12.0	12.0
10488	79.2	359.7	10296.9	388.0	-2.4	388.0	12.0	12.0
10498	80.4	359.7	10298.7	397.8	-2.4	397.8	12.0	12.0
10508	81.6	359.7	10300.3	407.7	-2.5	407.7	12.0	12.0
10518	82.8	359.7	10301.7	417.6	-2.5	417.6	12.0	12.0
10528	84.0	359.7	10302.8	427.6	-2.6	427.6	12.0	12.0
10538	85.2	359.7	10303.7	437.5	-2.7	437.5	12.0	12.0
10548	86.4	359.7	10304.4	447.5	-2.7	447.5	12.0	12.0
10558	87.6	359.7	10304.9	457.5	-2.8	457.5	12.0	12.0
10568	88.8	359.7	10305.2	467.5	-2.8	467.5	12.0	12.0
10578	90.0	359.7	10305.3	477.5	-2.9	477.5	12.0	12.0
10678	90.2	359.7	10305.1	577.5	-3.5	577.5	0.2	0.2
10778	90.2	359.7	10304.7	677.5	-4.1	677.5	0.0	0.0
10878	90.2	359.7	10304.3	777.5	-4.7	777.5	0.0	0.0
10978	90.2	359.7	10303.9	877.5	-5.3	877.5	0.0	0.0
11078	90.2	359.7	10303.5	977.5	-5.9	977.5	0.0	0.0
11178	90.2	359.7	10303.1	1077.5	-6.5	1077.5	0.0	0.0
11278	90.2	359.7	10302.7	1177.4	-7.1	1177.5	0.0	0.0
11378	90.2	359.7	10302.3	1277.4	-7.8	1277.5	0.0	0.0
11478	90.2	359.7	10301.9	1377.4	-8.4	1377.5	0.0	0.0
11578	90.2	359.7	10301.5	1477.4	-9.0	1477.5	0.0	0.0
11678	90.2	359.7	10301.1	1577.4	-9.6	1577.5	0.0	0.0
11778	90.2	359.7	10300.7	1677.4	-10.2	1677.5	0.0	0.0
11878	90.2	359.7	10300.3	1777.4	-10.8	1777.5	0.0	0.0
11978	90.2	359.7	10299.9	1877.4	-11.4	1877.5	0.0	0.0
12078	90.2	359.7	10299.5	1977.4	-12.0	1977.5	0.0	0.0
12178	90.2	359.7	10299.1	2077.4	-12.6	2077.5	0.0	0.0
12278	90.2	359.7	10298.7	2177.4	-13.2	2177.5	0.0	0.0
12378	90.2	359.7	10298.3	2277.4	-13.8	2277.5	0.0	0.0
12478	90.2	359.7	10297.9	2377.4	-14.4	2377.5	0.0	0.0
12578	90.2	359.7	10297.5	2477.4	-15.0	2477.5	0.0	0.0
12678	90.2	359.7	10297.1	2577.4	-15.6	2577.5	0.0	0.0
12778	90.2	359.7	10296.7	2677.4	-16.3	2677.5	0.0	0.0
12878	90.2	359.7	10296.3	2777.4	-16.9	2777.5	0.0	0.0
12978	90.2	359.7	10295.9	2877.4	-17.5	2877.5	0.0	0.0
13078	90.2	359.7	10295.5	2977.4	-18.1	2977.5	0.0	0.0
13178	90.2	359.7	10295.1	3077.4	-18.7	3077.5	0.0	0.0
13278	90.2	359.7	10294.7	3177.4	-19.3	3177.5	0.0	0.0
13378	90.2	359.7	10294.3	3277.4	-19.9	3277.5	0.0	0.0
13478	90.2	359.7	10293.9	3377.4	-20.5	3377.5	0.0	0.0
13578	90.2	359.7	10293.5	3477.4	-21.1	3477.5	0.0	0.0

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Location:	1-22S-34E	30-025- _____	Surface Latitude:	32.414385
Pool:	Grama Ridge; Bone Spring, NE [28435]		Surface Longitude:	-103.42055
GL Elev:	3574		Bottom Hole Latitude:	32.427312
Method:	Minimum Curvature		Bottom Hole Longitude:	-103.42051

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Measured			Vertical			Vertical	Dogleg	Build
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)
13678	90.2	359.7	10293.1	3577.4	-21.7	3577.5	0.0	0.0
13778	90.2	359.7	10292.7	3677.4	-22.3	3677.5	0.0	0.0
13878	90.2	359.7	10292.3	3777.4	-22.9	3777.5	0.0	0.0
13978	90.2	359.7	10291.9	3877.4	-23.5	3877.5	0.0	0.0
14078	90.2	359.7	10291.5	3977.4	-24.1	3977.5	0.0	0.0
14178	90.2	359.7	10291.1	4077.4	-24.7	4077.5	0.0	0.0
14278	90.2	359.7	10290.7	4177.4	-25.4	4177.5	0.0	0.0
14378	90.2	359.7	10290.3	4277.4	-26.0	4277.5	0.0	0.0
14478	90.2	359.7	10289.9	4377.4	-26.6	4377.4	0.0	0.0
14578	90.2	359.7	10289.5	4477.4	-27.2	4477.4	0.0	0.0
14678	90.2	359.7	10289.1	4577.4	-27.8	4577.4	0.0	0.0
14778	90.2	359.7	10288.7	4677.4	-28.4	4677.4	0.0	0.0
14804	90.2	359.7	10288.6	4704.0	-28.6	4704.1	0.0	0.0