

**V-F Petroleum Inc.**  
**Standard Planning Report**  
**Getty 1 State #221H**

Location: 1-22S-34E  
 Pool: Grama Ridge; Bone Spring, NE [28435]  
 GL Elev: 3565  
 Method: Minimum Curvature

30-025-4494

Surface Latitude: 32.414381  
 Surface Longitude: -103.42911  
 Bottom Hole Latitude: 32.427301  
 Bottom Hole Longitude: -103.42907

md\regulatory\, nm ocd blm\Getty 1 State Horiz\Getty 1 State #221H\#221H Planned Survey 180501

| 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) |
| 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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 Method: Minimum Curvature

30-025-\_\_\_\_\_

Surface Latitude: 32.414381  
 Surface Longitude: -103.42911  
 Bottom Hole Latitude: 32.427301  
 Bottom Hole Longitude: -103.42907

md\regulatory\, nm ocd blm\Getty 1 State Horiz\Getty 1 State #221H\#221H Planned Survey 180501

| 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         |
| 9858     | 0.0         | 359.7   | 9857.5   | 0.0   | 0.0   | 0.0      | 0.0         | 0.0         |
| 9868     | 1.2         | 359.7   | 9867.5   | 0.1   | 0.0   | 0.1      | 12.0        | 12.0        |
| 9878     | 2.4         | 359.7   | 9877.5   | 0.4   | 0.0   | 0.4      | 12.0        | 12.0        |
| 9888     | 3.6         | 359.7   | 9887.5   | 1.0   | 0.0   | 1.0      | 12.0        | 12.0        |
| 9898     | 4.8         | 359.7   | 9897.5   | 1.7   | 0.0   | 1.7      | 12.0        | 12.0        |
| 9908     | 6.0         | 359.7   | 9907.5   | 2.6   | 0.0   | 2.6      | 12.0        | 12.0        |
| 9918     | 7.2         | 359.7   | 9917.4   | 3.8   | 0.0   | 3.8      | 12.0        | 12.0        |
| 9928     | 8.4         | 359.7   | 9927.3   | 5.1   | 0.0   | 5.1      | 12.0        | 12.0        |
| 9938     | 9.6         | 359.7   | 9937.2   | 6.7   | 0.0   | 6.7      | 12.0        | 12.0        |
| 9948     | 10.8        | 359.7   | 9947.0   | 8.5   | 0.0   | 8.5      | 12.0        | 12.0        |
| 9958     | 12.0        | 359.7   | 9956.8   | 10.4  | -0.1  | 10.4     | 12.0        | 12.0        |
| 9968     | 13.2        | 359.7   | 9966.6   | 12.6  | -0.1  | 12.6     | 12.0        | 12.0        |
| 9978     | 14.4        | 359.7   | 9976.3   | 15.0  | -0.1  | 15.0     | 12.0        | 12.0        |
| 9988     | 15.6        | 359.7   | 9986.0   | 17.6  | -0.1  | 17.6     | 12.0        | 12.0        |
| 9998     | 16.8        | 359.7   | 9995.6   | 20.4  | -0.1  | 20.4     | 12.0        | 12.0        |
| 10008    | 18.0        | 359.7   | 10005.1  | 23.4  | -0.1  | 23.4     | 12.0        | 12.0        |
| 10018    | 19.2        | 359.7   | 10014.6  | 26.6  | -0.2  | 26.6     | 12.0        | 12.0        |
| 10028    | 20.4        | 359.7   | 10024.0  | 30.0  | -0.2  | 30.0     | 12.0        | 12.0        |
| 10038    | 21.6        | 359.7   | 10033.3  | 33.5  | -0.2  | 33.5     | 12.0        | 12.0        |
| 10048    | 22.8        | 359.7   | 10042.6  | 37.3  | -0.2  | 37.3     | 12.0        | 12.0        |
| 10058    | 24.0        | 359.7   | 10051.8  | 41.3  | -0.2  | 41.3     | 12.0        | 12.0        |
| 10068    | 25.2        | 359.7   | 10060.9  | 45.4  | -0.3  | 45.5     | 12.0        | 12.0        |
| 10078    | 26.4        | 359.7   | 10069.9  | 49.8  | -0.3  | 49.8     | 12.0        | 12.0        |
| 10088    | 27.6        | 359.7   | 10078.8  | 54.3  | -0.3  | 54.3     | 12.0        | 12.0        |



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Pool: Grama Ridge; Bone Spring, NE [28435]  
GL Elev: 3565  
Method: Minimum Curvature

**30-025-**\_\_\_\_\_

Surface Latitude: 32.414381  
Surface Longitude: -103.42911  
Bottom Hole Latitude: 32.427301  
Bottom Hole Longitude: -103.42907

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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) |
| 10098    | 28.8        | 359.7   | 10087.6  | 59.1  | -0.3  | 59.1     | 12.0        | 12.0        |
| 10108    | 30.0        | 359.7   | 10096.3  | 64.0  | -0.4  | 64.0     | 12.0        | 12.0        |
| 10118    | 31.2        | 359.7   | 10104.9  | 69.1  | -0.4  | 69.1     | 12.0        | 12.0        |
| 10128    | 32.4        | 359.7   | 10113.4  | 74.3  | -0.4  | 74.3     | 12.0        | 12.0        |
| 10138    | 33.6        | 359.7   | 10121.8  | 79.8  | -0.5  | 79.8     | 12.0        | 12.0        |
| 10148    | 34.8        | 359.7   | 10130.1  | 85.4  | -0.5  | 85.4     | 12.0        | 12.0        |
| 10158    | 36.0        | 359.7   | 10138.3  | 91.2  | -0.5  | 91.2     | 12.0        | 12.0        |
| 10168    | 37.2        | 359.7   | 10146.3  | 97.2  | -0.6  | 97.2     | 12.0        | 12.0        |
| 10178    | 38.4        | 359.7   | 10154.2  | 103.3 | -0.6  | 103.3    | 12.0        | 12.0        |
| 10188    | 39.6        | 359.7   | 10162.0  | 109.6 | -0.6  | 109.6    | 12.0        | 12.0        |
| 10198    | 40.8        | 359.7   | 10169.6  | 116.0 | -0.7  | 116.0    | 12.0        | 12.0        |
| 10208    | 42.0        | 359.7   | 10177.1  | 122.6 | -0.7  | 122.6    | 12.0        | 12.0        |
| 10218    | 43.2        | 359.7   | 10184.5  | 129.4 | -0.8  | 129.4    | 12.0        | 12.0        |
| 10228    | 44.4        | 359.7   | 10191.7  | 136.3 | -0.8  | 136.3    | 12.0        | 12.0        |
| 10238    | 45.6        | 359.7   | 10198.8  | 143.4 | -0.8  | 143.4    | 12.0        | 12.0        |
| 10248    | 46.8        | 359.7   | 10205.7  | 150.6 | -0.9  | 150.6    | 12.0        | 12.0        |
| 10258    | 48.0        | 359.7   | 10212.5  | 158.0 | -0.9  | 158.0    | 12.0        | 12.0        |
| 10268    | 49.2        | 359.7   | 10219.1  | 165.5 | -1.0  | 165.5    | 12.0        | 12.0        |
| 10278    | 50.4        | 359.7   | 10225.6  | 173.1 | -1.0  | 173.1    | 12.0        | 12.0        |
| 10288    | 51.6        | 359.7   | 10231.9  | 180.9 | -1.1  | 180.9    | 12.0        | 12.0        |
| 10298    | 52.8        | 359.7   | 10238.0  | 188.8 | -1.1  | 188.8    | 12.0        | 12.0        |
| 10308    | 54.0        | 359.7   | 10244.0  | 196.8 | -1.1  | 196.8    | 12.0        | 12.0        |
| 10318    | 55.2        | 359.7   | 10249.8  | 205.0 | -1.2  | 205.0    | 12.0        | 12.0        |
| 10328    | 56.4        | 359.7   | 10255.4  | 213.2 | -1.2  | 213.2    | 12.0        | 12.0        |
| 10338    | 57.6        | 359.7   | 10260.8  | 221.6 | -1.3  | 221.6    | 12.0        | 12.0        |
| 10348    | 58.8        | 359.7   | 10266.1  | 230.1 | -1.3  | 230.1    | 12.0        | 12.0        |
| 10358    | 60.0        | 359.7   | 10271.2  | 238.7 | -1.4  | 238.7    | 12.0        | 12.0        |
| 10368    | 61.2        | 359.7   | 10276.1  | 247.4 | -1.4  | 247.5    | 12.0        | 12.0        |
| 10378    | 62.4        | 359.7   | 10280.8  | 256.3 | -1.5  | 256.3    | 12.0        | 12.0        |
| 10388    | 63.6        | 359.7   | 10285.3  | 265.2 | -1.5  | 265.2    | 12.0        | 12.0        |
| 10398    | 64.8        | 359.7   | 10289.7  | 274.2 | -1.6  | 274.2    | 12.0        | 12.0        |
| 10408    | 66.0        | 359.7   | 10293.9  | 283.3 | -1.7  | 283.3    | 12.0        | 12.0        |
| 10418    | 67.2        | 359.7   | 10297.9  | 292.4 | -1.7  | 292.4    | 12.0        | 12.0        |
| 10428    | 68.4        | 359.7   | 10301.7  | 301.7 | -1.8  | 301.7    | 12.0        | 12.0        |
| 10438    | 69.6        | 359.7   | 10305.3  | 311.0 | -1.8  | 311.0    | 12.0        | 12.0        |
| 10448    | 70.8        | 359.7   | 10308.7  | 320.4 | -1.9  | 320.5    | 12.0        | 12.0        |
| 10458    | 72.0        | 359.7   | 10311.9  | 329.9 | -1.9  | 329.9    | 12.0        | 12.0        |
| 10468    | 73.2        | 359.7   | 10314.9  | 339.5 | -2.0  | 339.5    | 12.0        | 12.0        |
| 10478    | 74.4        | 359.7   | 10317.7  | 349.1 | -2.0  | 349.1    | 12.0        | 12.0        |
| 10488    | 75.6        | 359.7   | 10320.3  | 358.7 | -2.1  | 358.7    | 12.0        | 12.0        |
| 10498    | 76.8        | 359.7   | 10322.7  | 368.4 | -2.2  | 368.4    | 12.0        | 12.0        |

**V-F Petroleum Inc.**  
**Standard Planning Report**  
**Getty 1 State #221H**

Location: 1-22S-34E  
 Pool: Grama Ridge; Bone Spring, NE [28435]  
 GL Elev: 3565  
 Method: Minimum Curvature

**30-025-**\_\_\_\_\_

Surface Latitude: 32.414381  
 Surface Longitude: -103.42911  
 Bottom Hole Latitude: 32.427301  
 Bottom Hole Longitude: -103.42907

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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) |
| 10508    | 78.0        | 359.7   | 10324.9  | 378.2  | -2.2  | 378.2    | 12.0        | 12.0        |
| 10518    | 79.2        | 359.7   | 10326.9  | 388.0  | -2.3  | 388.0    | 12.0        | 12.0        |
| 10528    | 80.4        | 359.7   | 10328.7  | 397.8  | -2.3  | 397.8    | 12.0        | 12.0        |
| 10538    | 81.6        | 359.7   | 10330.3  | 407.7  | -2.4  | 407.7    | 12.0        | 12.0        |
| 10548    | 82.8        | 359.7   | 10331.7  | 417.6  | -2.4  | 417.6    | 12.0        | 12.0        |
| 10558    | 84.0        | 359.7   | 10332.8  | 427.6  | -2.5  | 427.6    | 12.0        | 12.0        |
| 10568    | 85.2        | 359.7   | 10333.7  | 437.5  | -2.6  | 437.5    | 12.0        | 12.0        |
| 10578    | 86.4        | 359.7   | 10334.4  | 447.5  | -2.6  | 447.5    | 12.0        | 12.0        |
| 10588    | 87.6        | 359.7   | 10334.9  | 457.5  | -2.7  | 457.5    | 12.0        | 12.0        |
| 10598    | 88.8        | 359.7   | 10335.2  | 467.5  | -2.7  | 467.5    | 12.0        | 12.0        |
| 10608    | 90.0        | 359.7   | 10335.3  | 477.5  | -2.8  | 477.5    | 12.0        | 12.0        |
| 10708    | 90.4        | 359.7   | 10335.0  | 577.5  | -3.4  | 577.5    | 0.4         | 0.4         |
| 10808    | 90.4        | 359.7   | 10334.3  | 677.5  | -4.0  | 677.5    | 0.0         | 0.0         |
| 10908    | 90.4        | 359.7   | 10333.6  | 777.5  | -4.5  | 777.5    | 0.0         | 0.0         |
| 11008    | 90.4        | 359.7   | 10332.9  | 877.5  | -5.1  | 877.5    | 0.0         | 0.0         |
| 11108    | 90.4        | 359.7   | 10332.2  | 977.4  | -5.7  | 977.5    | 0.0         | 0.0         |
| 11208    | 90.4        | 359.7   | 10331.5  | 1077.4 | -6.3  | 1077.5   | 0.0         | 0.0         |
| 11308    | 90.4        | 359.7   | 10330.8  | 1177.4 | -6.9  | 1177.5   | 0.0         | 0.0         |
| 11408    | 90.4        | 359.7   | 10330.1  | 1277.4 | -7.5  | 1277.5   | 0.0         | 0.0         |
| 11508    | 90.4        | 359.7   | 10329.4  | 1377.4 | -8.0  | 1377.5   | 0.0         | 0.0         |
| 11608    | 90.4        | 359.7   | 10328.7  | 1477.4 | -8.6  | 1477.5   | 0.0         | 0.0         |
| 11708    | 90.4        | 359.7   | 10328.0  | 1577.4 | -9.2  | 1577.5   | 0.0         | 0.0         |
| 11808    | 90.4        | 359.7   | 10327.3  | 1677.4 | -9.8  | 1677.4   | 0.0         | 0.0         |
| 11908    | 90.4        | 359.7   | 10326.6  | 1777.4 | -10.4 | 1777.4   | 0.0         | 0.0         |
| 12008    | 90.4        | 359.7   | 10325.9  | 1877.4 | -11.0 | 1877.4   | 0.0         | 0.0         |
| 12108    | 90.4        | 359.7   | 10325.2  | 1977.4 | -11.6 | 1977.4   | 0.0         | 0.0         |
| 12208    | 90.4        | 359.7   | 10324.5  | 2077.4 | -12.1 | 2077.4   | 0.0         | 0.0         |
| 12308    | 90.4        | 359.7   | 10323.8  | 2177.4 | -12.7 | 2177.4   | 0.0         | 0.0         |
| 12408    | 90.4        | 359.7   | 10323.1  | 2277.4 | -13.3 | 2277.4   | 0.0         | 0.0         |
| 12508    | 90.4        | 359.7   | 10322.4  | 2377.4 | -13.9 | 2377.4   | 0.0         | 0.0         |
| 12608    | 90.4        | 359.7   | 10321.7  | 2477.4 | -14.5 | 2477.4   | 0.0         | 0.0         |
| 12708    | 90.4        | 359.7   | 10321.0  | 2577.4 | -15.1 | 2577.4   | 0.0         | 0.0         |
| 12808    | 90.4        | 359.7   | 10320.3  | 2677.4 | -15.6 | 2677.4   | 0.0         | 0.0         |
| 12908    | 90.4        | 359.7   | 10319.6  | 2777.4 | -16.2 | 2777.4   | 0.0         | 0.0         |
| 13008    | 90.4        | 359.7   | 10318.9  | 2877.4 | -16.8 | 2877.4   | 0.0         | 0.0         |
| 13108    | 90.4        | 359.7   | 10318.2  | 2977.4 | -17.4 | 2977.4   | 0.0         | 0.0         |
| 13208    | 90.4        | 359.7   | 10317.5  | 3077.4 | -18.0 | 3077.4   | 0.0         | 0.0         |
| 13308    | 90.4        | 359.7   | 10316.8  | 3177.4 | -18.6 | 3177.4   | 0.0         | 0.0         |
| 13408    | 90.4        | 359.7   | 10316.1  | 3277.4 | -19.1 | 3277.4   | 0.0         | 0.0         |
| 13508    | 90.4        | 359.7   | 10315.4  | 3377.4 | -19.7 | 3377.4   | 0.0         | 0.0         |
| 13608    | 90.4        | 359.7   | 10314.7  | 3477.3 | -20.3 | 3477.4   | 0.0         | 0.0         |

**V-F Petroleum Inc.**  
**Standard Planning Report**  
**Getty 1 State #221H**

Location: 1-22S-34E  
 Pool: Grama Ridge; Bone Spring, NE [28435]  
 GL Elev: 3565  
 Method: Minimum Curvature

**30-025-**\_\_\_\_\_

Surface Latitude: 32.414381  
 Surface Longitude: -103.42911  
 Bottom Hole Latitude: 32.427301  
 Bottom Hole Longitude: -103.42907

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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) |
| 13708    | 90.4        | 359.7   | 10314.0  | 3577.3 | -20.9 | 3577.4   | 0.0         | 0.0         |
| 13808    | 90.4        | 359.7   | 10313.3  | 3677.3 | -21.5 | 3677.4   | 0.0         | 0.0         |
| 13908    | 90.4        | 359.7   | 10312.6  | 3777.3 | -22.1 | 3777.4   | 0.0         | 0.0         |
| 14008    | 90.4        | 359.7   | 10311.9  | 3877.3 | -22.7 | 3877.4   | 0.0         | 0.0         |
| 14108    | 90.4        | 359.7   | 10311.2  | 3977.3 | -23.2 | 3977.4   | 0.0         | 0.0         |
| 14208    | 90.4        | 359.7   | 10310.5  | 4077.3 | -23.8 | 4077.4   | 0.0         | 0.0         |
| 14308    | 90.4        | 359.7   | 10309.8  | 4177.3 | -24.4 | 4177.4   | 0.0         | 0.0         |
| 14408    | 90.4        | 359.7   | 10309.1  | 4277.3 | -25.0 | 4277.4   | 0.0         | 0.0         |
| 14508    | 90.4        | 359.7   | 10308.4  | 4377.3 | -25.6 | 4377.4   | 0.0         | 0.0         |
| 14608    | 90.4        | 359.7   | 10307.7  | 4477.3 | -26.2 | 4477.4   | 0.0         | 0.0         |
| 14708    | 90.4        | 359.7   | 10307.0  | 4577.3 | -26.7 | 4577.4   | 0.0         | 0.0         |
| 14808    | 90.4        | 359.7   | 10306.3  | 4677.3 | -27.3 | 4677.4   | 0.0         | 0.0         |
| 14832    | 90.4        | 359.7   | 10306.1  | 4701.3 | -27.5 | 4701.4   | 0.0         | 0.0         |