

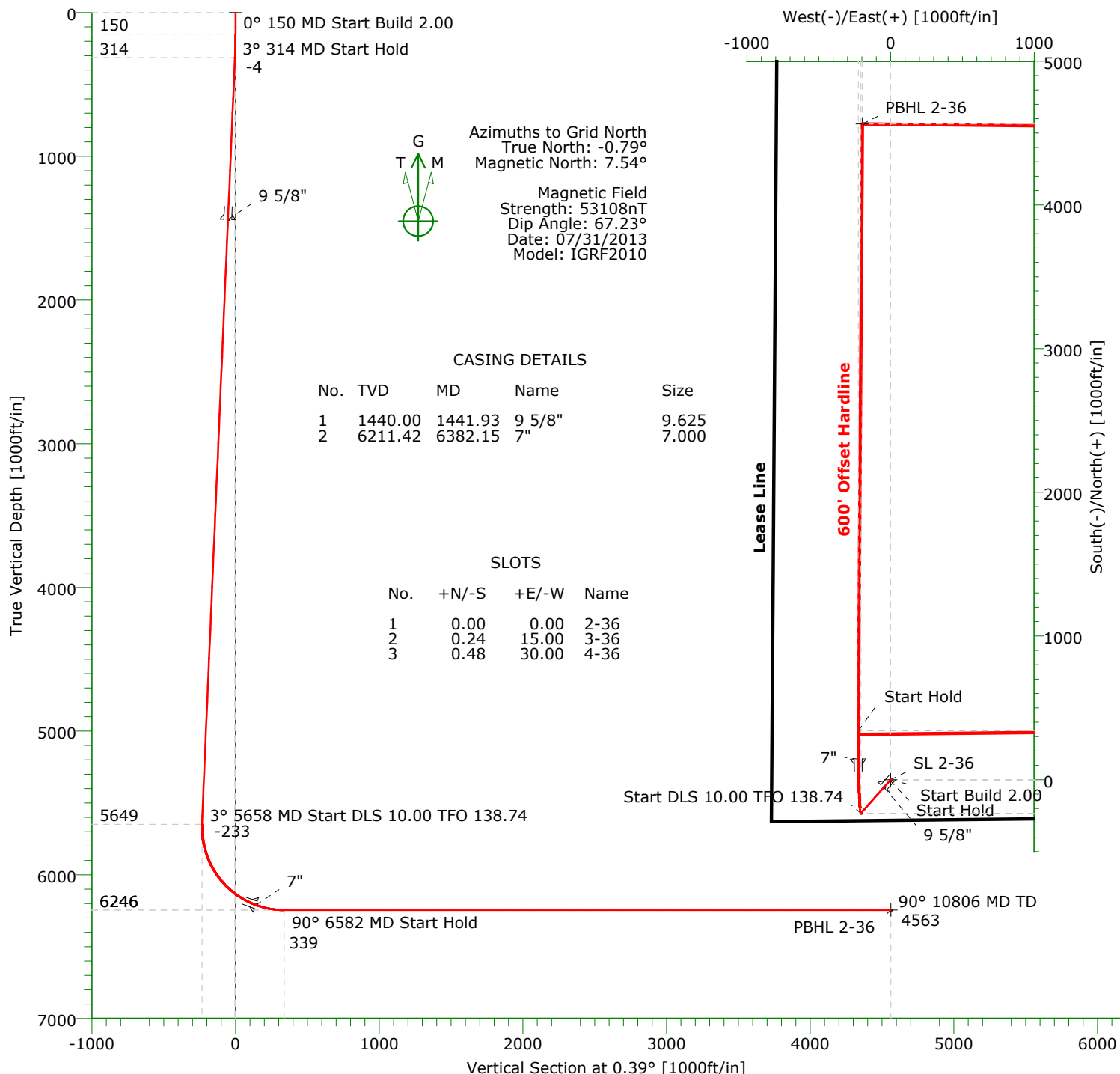


CARRIZO OIL & GAS, INC.

Field: Niobrara CONZ'83
 Site: Bob White 2-36-8-62 Pad
 Well: 2-36-8-62
 Wellpath: Original Hole
 Plan: Plan #1



Precision
 Directional Services



TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|-----------|---------|---------|---------|------------|------------|-----------------------------|-----------|-------|
| SL 2-36 | 0.00 | 0.00 | 0.00 | 1467812.21 | 3340071.27 | 40°36'39.912N104°16'30.485W | | Point |
| PBHL 2-36 | 6246.00 | 4564.03 | -195.75 | 1472376.24 | 3339875.52 | 40°37'25.034N104°16'32.206W | | Point |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|---------|---------|-------|--------|---------|-----------|
| 1 | 0.00 | 0.00 | 221.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 150.00 | 0.00 | 221.60 | 150.00 | 0.00 | 0.00 | 0.00 | 221.60 | 0.00 | |
| 3 | 313.84 | 3.28 | 221.60 | 313.75 | -3.50 | -3.11 | 2.00 | 0.00 | -3.52 | |
| 4 | 5657.66 | 3.28 | 221.60 | 5648.83 | -231.91 | -205.93 | 0.00 | 0.00 | -233.30 | |
| 5 | 6582.30 | 90.00 | 0.39 | 6246.00 | 340.66 | -224.55 | 10.00 | 138.74 | 339.12 | |
| 6 | 10805.77 | 90.00 | 0.39 | 6246.00 | 4564.03 | -195.75 | 0.00 | 0.00 | 4562.59 | PBHL 2-36 |

Precision Directional Services, Inc.

Planning Report

| | | | | |
|---|--|---|-----------------------|----------------|
| Company: CARRIZO OIL & GAS, INC. | | Date: 06/17/2013 | Time: 12:44:46 | Page: 1 |
| Field: Niobrara CONZ'83 | | Co-ordinate(NE) Reference: Well: 2-36-8-62, Grid North | | |
| Site: Bob White 2-36-8-62 Pad | | Vertical (TVD) Reference: 4939'GL+17'KB 4956.0 | | |
| Well: 2-36-8-62 | | Section (VS) Reference: Well (0.00N,0.00E,0.39Azi) | | |
| Wellpath: Original Hole | | Plan: Plan #1 | | |

| | |
|--|--|
| Field: Niobrara CONZ'83 | |
| Map System: US State Plane Coordinate System 1983 | Map Zone: Colorado, Northern Zone |
| Geo Datum: GRS 1980 | Coordinate System: Well Centre |
| Sys Datum: Mean Sea Level | Geomagnetic Model: IGRF2010 |

| | |
|--------------------------------------|-----------------------------------|
| Site: Bob White 2-36-8-62 Pad | |
| Weld County | |
| Site Position: | Northing: 1467812.21 ft |
| From: Map | Easting: 3340071.27 ft |
| Position Uncertainty: 0.00 ft | Latitude: 40 36 39.912 N |
| Ground Level: 4939.00 ft | Longitude: 104 16 30.485 W |
| | North Reference: Grid |
| | Grid Convergence: 0.79 deg |

| | | | |
|--------------------------------------|--------------------------------|-----------------------------------|--|
| Well: 2-36-8-62 | | Slot Name: | |
| Well Position: | Northing: 1467812.21 ft | Latitude: 40 36 39.912 N | |
| Position Uncertainty: 0.00 ft | Easting: 3340071.27 ft | Longitude: 104 16 30.485 W | |

| | | | |
|-------------------------------------|--------------------------|---|------------------|
| Wellpath: Original Hole | | Drilled From: Surface | |
| Current Datum: 4939'GL+17'KB | Height 4956.00 ft | Tie-on Depth: 0.00 ft | |
| Magnetic Data: 07/31/2013 | | Above System Datum: Mean Sea Level | |
| Field Strength: 53108 nT | | Declination: 8.33 deg | |
| Vertical Section: | | Mag Dip Angle: 67.23 deg | |
| Depth From (TVD) | +N/-S | +E/-W | Direction |
| ft | ft | ft | deg |
| 0.00 | 0.00 | 0.00 | 0.39 |

| | |
|----------------------|----------------------------------|
| Plan: Plan #1 | Date Composed: 06/17/2013 |
| Principal: No | Version: 1 |
| | Tied-to: From Surface |

| Plan Section Information | | | | | | | | | | |
|--------------------------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|-----------|
| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | TFO deg | Target |
| 0.00 | 0.00 | 221.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 150.00 | 0.00 | 221.60 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 221.60 | |
| 313.84 | 3.28 | 221.60 | 313.75 | -3.50 | -3.11 | 2.00 | 2.00 | 0.00 | 0.00 | |
| 5657.66 | 3.28 | 221.60 | 5648.83 | -231.91 | -205.93 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6582.30 | 90.00 | 0.39 | 6246.00 | 340.66 | -224.55 | 10.00 | 9.38 | 15.01 | 138.74 | |
| 10805.77 | 90.00 | 0.39 | 6246.00 | 4564.03 | -195.75 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL 2-36 |

| Survey | | | | | | | | | | |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Tool/Comment |
| 0.00 | 0.00 | 221.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.00 | 221.60 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 150.00 | 0.00 | 221.60 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 1.00 | 221.60 | 200.00 | -0.33 | -0.29 | -0.33 | 2.00 | 2.00 | 0.00 | |
| 300.00 | 3.00 | 221.60 | 299.93 | -2.94 | -2.61 | -2.95 | 2.00 | 2.00 | 0.00 | |
| 313.84 | 3.28 | 221.60 | 313.75 | -3.50 | -3.11 | -3.52 | 2.00 | 2.00 | 0.00 | |
| 400.00 | 3.28 | 221.60 | 399.77 | -7.18 | -6.38 | -7.23 | 0.00 | 0.00 | 0.00 | |
| 500.00 | 3.28 | 221.60 | 499.61 | -11.46 | -10.18 | -11.53 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 3.28 | 221.60 | 599.44 | -15.73 | -13.97 | -15.83 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 3.28 | 221.60 | 699.28 | -20.01 | -17.77 | -20.13 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 3.28 | 221.60 | 799.12 | -24.28 | -21.56 | -24.43 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 3.28 | 221.60 | 898.95 | -28.56 | -25.36 | -28.73 | 0.00 | 0.00 | 0.00 | |
| 1000.00 | 3.28 | 221.60 | 998.79 | -32.83 | -29.15 | -33.03 | 0.00 | 0.00 | 0.00 | |
| 1100.00 | 3.28 | 221.60 | 1098.63 | -37.10 | -32.95 | -37.33 | 0.00 | 0.00 | 0.00 | |
| 1200.00 | 3.28 | 221.60 | 1198.46 | -41.38 | -36.74 | -41.63 | 0.00 | 0.00 | 0.00 | |

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bob White 2-36-8-62 Pad
Well: 2-36-8-62
Wellpath: Original Hole

Date: 06/17/2013
Co-ordinate(NE) Reference: Well: 2-36-8-62, Grid North
Vertical (TVD) Reference: 4939'GL+17'KB 4956.0
Section (VS) Reference: Well (0.00N,0.00E,0.39Azi)
Plan: Plan #1

Page: 2

Survey

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 1300.00 | 3.28 | 221.60 | 1298.30 | -45.65 | -40.54 | -45.93 | 0.00 | 0.00 | 0.00 | 9 5/8" |
| 1400.00 | 3.28 | 221.60 | 1398.13 | -49.93 | -44.33 | -50.23 | 0.00 | 0.00 | 0.00 | |
| 1441.93 | 3.28 | 221.60 | 1440.00 | -51.72 | -45.93 | -52.03 | 0.00 | 0.00 | 0.00 | |
| 1500.00 | 3.28 | 221.60 | 1497.97 | -54.20 | -48.13 | -54.53 | 0.00 | 0.00 | 0.00 | |
| 1600.00 | 3.28 | 221.60 | 1597.81 | -58.48 | -51.92 | -58.83 | 0.00 | 0.00 | 0.00 | |
| 1700.00 | 3.28 | 221.60 | 1697.64 | -62.75 | -55.72 | -63.13 | 0.00 | 0.00 | 0.00 | |
| 1800.00 | 3.28 | 221.60 | 1797.48 | -67.02 | -59.52 | -67.43 | 0.00 | 0.00 | 0.00 | |
| 1900.00 | 3.28 | 221.60 | 1897.32 | -71.30 | -63.31 | -71.73 | 0.00 | 0.00 | 0.00 | |
| 2000.00 | 3.28 | 221.60 | 1997.15 | -75.57 | -67.11 | -76.03 | 0.00 | 0.00 | 0.00 | |
| 2100.00 | 3.28 | 221.60 | 2096.99 | -79.85 | -70.90 | -80.33 | 0.00 | 0.00 | 0.00 | |
| 2200.00 | 3.28 | 221.60 | 2196.83 | -84.12 | -74.70 | -84.63 | 0.00 | 0.00 | 0.00 | |
| 2300.00 | 3.28 | 221.60 | 2296.66 | -88.39 | -78.49 | -88.93 | 0.00 | 0.00 | 0.00 | |
| 2400.00 | 3.28 | 221.60 | 2396.50 | -92.67 | -82.29 | -93.23 | 0.00 | 0.00 | 0.00 | |
| 2500.00 | 3.28 | 221.60 | 2496.34 | -96.94 | -86.08 | -97.53 | 0.00 | 0.00 | 0.00 | |
| 2600.00 | 3.28 | 221.60 | 2596.17 | -101.22 | -89.88 | -101.83 | 0.00 | 0.00 | 0.00 | |
| 2700.00 | 3.28 | 221.60 | 2696.01 | -105.49 | -93.67 | -106.13 | 0.00 | 0.00 | 0.00 | |
| 2800.00 | 3.28 | 221.60 | 2795.85 | -109.77 | -97.47 | -110.43 | 0.00 | 0.00 | 0.00 | |
| 2900.00 | 3.28 | 221.60 | 2895.68 | -114.04 | -101.26 | -114.73 | 0.00 | 0.00 | 0.00 | |
| 3000.00 | 3.28 | 221.60 | 2995.52 | -118.31 | -105.06 | -119.03 | 0.00 | 0.00 | 0.00 | |
| 3100.00 | 3.28 | 221.60 | 3095.36 | -122.59 | -108.85 | -123.33 | 0.00 | 0.00 | 0.00 | |
| 3200.00 | 3.28 | 221.60 | 3195.19 | -126.86 | -112.65 | -127.63 | 0.00 | 0.00 | 0.00 | |
| 3300.00 | 3.28 | 221.60 | 3295.03 | -131.14 | -116.45 | -131.93 | 0.00 | 0.00 | 0.00 | |
| 3400.00 | 3.28 | 221.60 | 3394.86 | -135.41 | -120.24 | -136.23 | 0.00 | 0.00 | 0.00 | |
| 3500.00 | 3.28 | 221.60 | 3494.70 | -139.69 | -124.04 | -140.53 | 0.00 | 0.00 | 0.00 | |
| 3600.00 | 3.28 | 221.60 | 3594.54 | -143.96 | -127.83 | -144.83 | 0.00 | 0.00 | 0.00 | |
| 3700.00 | 3.28 | 221.60 | 3694.37 | -148.23 | -131.63 | -149.13 | 0.00 | 0.00 | 0.00 | |
| 3800.00 | 3.28 | 221.60 | 3794.21 | -152.51 | -135.42 | -153.43 | 0.00 | 0.00 | 0.00 | |
| 3900.00 | 3.28 | 221.60 | 3894.05 | -156.78 | -139.22 | -157.73 | 0.00 | 0.00 | 0.00 | |
| 4000.00 | 3.28 | 221.60 | 3993.88 | -161.06 | -143.01 | -162.03 | 0.00 | 0.00 | 0.00 | |
| 4100.00 | 3.28 | 221.60 | 4093.72 | -165.33 | -146.81 | -166.33 | 0.00 | 0.00 | 0.00 | |
| 4200.00 | 3.28 | 221.60 | 4193.56 | -169.60 | -150.60 | -170.63 | 0.00 | 0.00 | 0.00 | |
| 4300.00 | 3.28 | 221.60 | 4293.39 | -173.88 | -154.40 | -174.93 | 0.00 | 0.00 | 0.00 | |
| 4400.00 | 3.28 | 221.60 | 4393.23 | -178.15 | -158.19 | -179.23 | 0.00 | 0.00 | 0.00 | |
| 4500.00 | 3.28 | 221.60 | 4493.07 | -182.43 | -161.99 | -183.53 | 0.00 | 0.00 | 0.00 | |
| 4600.00 | 3.28 | 221.60 | 4592.90 | -186.70 | -165.79 | -187.83 | 0.00 | 0.00 | 0.00 | |
| 4700.00 | 3.28 | 221.60 | 4692.74 | -190.98 | -169.58 | -192.13 | 0.00 | 0.00 | 0.00 | |
| 4800.00 | 3.28 | 221.60 | 4792.58 | -195.25 | -173.38 | -196.43 | 0.00 | 0.00 | 0.00 | |
| 4900.00 | 3.28 | 221.60 | 4892.41 | -199.52 | -177.17 | -200.73 | 0.00 | 0.00 | 0.00 | |
| 5000.00 | 3.28 | 221.60 | 4992.25 | -203.80 | -180.97 | -205.03 | 0.00 | 0.00 | 0.00 | |
| 5100.00 | 3.28 | 221.60 | 5092.09 | -208.07 | -184.76 | -209.33 | 0.00 | 0.00 | 0.00 | |
| 5200.00 | 3.28 | 221.60 | 5191.92 | -212.35 | -188.56 | -213.63 | 0.00 | 0.00 | 0.00 | |
| 5300.00 | 3.28 | 221.60 | 5291.76 | -216.62 | -192.35 | -217.93 | 0.00 | 0.00 | 0.00 | |
| 5400.00 | 3.28 | 221.60 | 5391.59 | -220.90 | -196.15 | -222.23 | 0.00 | 0.00 | 0.00 | |
| 5500.00 | 3.28 | 221.60 | 5491.43 | -225.17 | -199.94 | -226.53 | 0.00 | 0.00 | 0.00 | |
| 5600.00 | 3.28 | 221.60 | 5591.27 | -229.44 | -203.74 | -230.83 | 0.00 | 0.00 | 0.00 | |
| 5657.66 | 3.28 | 221.60 | 5648.83 | -231.91 | -205.93 | -233.30 | 0.00 | 0.00 | 0.00 | |
| 5700.00 | 2.79 | 309.73 | 5691.13 | -232.15 | -207.52 | -233.56 | 10.00 | -1.14 | 208.13 | |
| 5800.00 | 11.96 | 350.14 | 5790.24 | -220.36 | -211.18 | -221.79 | 10.00 | 9.17 | 40.40 | |
| 5900.00 | 21.87 | 355.00 | 5885.80 | -191.52 | -214.59 | -192.97 | 10.00 | 9.91 | 4.86 | |
| 6000.00 | 31.84 | 356.91 | 5974.90 | -146.51 | -217.65 | -147.99 | 10.00 | 9.96 | 1.91 | |
| 6100.00 | 41.82 | 357.97 | 6054.85 | -86.71 | -220.25 | -88.20 | 10.00 | 9.98 | 1.07 | 7" |
| 6200.00 | 51.80 | 358.69 | 6123.21 | -13.92 | -222.34 | -15.43 | 10.00 | 9.99 | 0.72 | |
| 6300.00 | 61.79 | 359.23 | 6177.90 | 69.63 | -223.83 | 68.11 | 10.00 | 9.99 | 0.54 | |
| 6382.15 | 70.00 | 359.60 | 6211.42 | 144.55 | -224.58 | 143.02 | 10.00 | 9.99 | 0.45 | |

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bob White 2-36-8-62 Pad
Well: 2-36-8-62
Wellpath: Original Hole

Date: 06/17/2013
Co-ordinate(NE) Reference: Well: 2-36-8-62, Grid North
Vertical (TVD) Reference: 4939'GL+17'KB 4956.0
Section (VS) Reference: Well (0.00N,0.00E,0.39Azi)
Plan: Plan #1

Page: 3

Survey

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Tool/Comment |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|--------------|
| 6400.00 | 71.78 | 359.68 | 6217.26 | 161.42 | -224.69 | 159.88 | 10.00 | 9.99 | 0.42 | |
| 6500.00 | 81.78 | 0.08 | 6240.10 | 258.64 | -224.89 | 257.11 | 10.00 | 9.99 | 0.40 | |
| 6582.30 | 90.00 | 0.39 | 6246.00 | 340.66 | -224.55 | 339.12 | 10.00 | 9.99 | 0.38 | |
| 6600.00 | 90.00 | 0.39 | 6246.00 | 358.36 | -224.43 | 356.82 | 0.00 | 0.00 | 0.00 | |
| 6700.00 | 90.00 | 0.39 | 6246.00 | 458.36 | -223.75 | 456.82 | 0.00 | 0.00 | 0.00 | |
| 6800.00 | 90.00 | 0.39 | 6246.00 | 558.35 | -223.07 | 556.82 | 0.00 | 0.00 | 0.00 | |
| 6900.00 | 90.00 | 0.39 | 6246.00 | 658.35 | -222.38 | 656.82 | 0.00 | 0.00 | 0.00 | |
| 7000.00 | 90.00 | 0.39 | 6246.00 | 758.35 | -221.70 | 756.82 | 0.00 | 0.00 | 0.00 | |
| 7100.00 | 90.00 | 0.39 | 6246.00 | 858.35 | -221.02 | 856.82 | 0.00 | 0.00 | 0.00 | |
| 7200.00 | 90.00 | 0.39 | 6246.00 | 958.34 | -220.34 | 956.82 | 0.00 | 0.00 | 0.00 | |
| 7300.00 | 90.00 | 0.39 | 6246.00 | 1058.34 | -219.66 | 1056.82 | 0.00 | 0.00 | 0.00 | |
| 7400.00 | 90.00 | 0.39 | 6246.00 | 1158.34 | -218.97 | 1156.82 | 0.00 | 0.00 | 0.00 | |
| 7500.00 | 90.00 | 0.39 | 6246.00 | 1258.34 | -218.29 | 1256.82 | 0.00 | 0.00 | 0.00 | |
| 7600.00 | 90.00 | 0.39 | 6246.00 | 1358.34 | -217.61 | 1356.82 | 0.00 | 0.00 | 0.00 | |
| 7700.00 | 90.00 | 0.39 | 6246.00 | 1458.33 | -216.93 | 1456.82 | 0.00 | 0.00 | 0.00 | |
| 7800.00 | 90.00 | 0.39 | 6246.00 | 1558.33 | -216.25 | 1556.82 | 0.00 | 0.00 | 0.00 | |
| 7900.00 | 90.00 | 0.39 | 6246.00 | 1658.33 | -215.56 | 1656.82 | 0.00 | 0.00 | 0.00 | |
| 8000.00 | 90.00 | 0.39 | 6246.00 | 1758.33 | -214.88 | 1756.82 | 0.00 | 0.00 | 0.00 | |
| 8100.00 | 90.00 | 0.39 | 6246.00 | 1858.32 | -214.20 | 1856.82 | 0.00 | 0.00 | 0.00 | |
| 8200.00 | 90.00 | 0.39 | 6246.00 | 1958.32 | -213.52 | 1956.82 | 0.00 | 0.00 | 0.00 | |
| 8300.00 | 90.00 | 0.39 | 6246.00 | 2058.32 | -212.84 | 2056.82 | 0.00 | 0.00 | 0.00 | |
| 8400.00 | 90.00 | 0.39 | 6246.00 | 2158.32 | -212.16 | 2156.82 | 0.00 | 0.00 | 0.00 | |
| 8500.00 | 90.00 | 0.39 | 6246.00 | 2258.31 | -211.47 | 2256.82 | 0.00 | 0.00 | 0.00 | |
| 8600.00 | 90.00 | 0.39 | 6246.00 | 2358.31 | -210.79 | 2356.82 | 0.00 | 0.00 | 0.00 | |
| 8700.00 | 90.00 | 0.39 | 6246.00 | 2458.31 | -210.11 | 2456.82 | 0.00 | 0.00 | 0.00 | |
| 8800.00 | 90.00 | 0.39 | 6246.00 | 2558.31 | -209.43 | 2556.82 | 0.00 | 0.00 | 0.00 | |
| 8900.00 | 90.00 | 0.39 | 6246.00 | 2658.31 | -208.75 | 2656.82 | 0.00 | 0.00 | 0.00 | |
| 9000.00 | 90.00 | 0.39 | 6246.00 | 2758.30 | -208.06 | 2756.82 | 0.00 | 0.00 | 0.00 | |
| 9100.00 | 90.00 | 0.39 | 6246.00 | 2858.30 | -207.38 | 2856.82 | 0.00 | 0.00 | 0.00 | |
| 9200.00 | 90.00 | 0.39 | 6246.00 | 2958.30 | -206.70 | 2956.82 | 0.00 | 0.00 | 0.00 | |
| 9300.00 | 90.00 | 0.39 | 6246.00 | 3058.30 | -206.02 | 3056.82 | 0.00 | 0.00 | 0.00 | |
| 9400.00 | 90.00 | 0.39 | 6246.00 | 3158.29 | -205.34 | 3156.82 | 0.00 | 0.00 | 0.00 | |
| 9500.00 | 90.00 | 0.39 | 6246.00 | 3258.29 | -204.65 | 3256.82 | 0.00 | 0.00 | 0.00 | |
| 9600.00 | 90.00 | 0.39 | 6246.00 | 3358.29 | -203.97 | 3356.82 | 0.00 | 0.00 | 0.00 | |
| 9700.00 | 90.00 | 0.39 | 6246.00 | 3458.29 | -203.29 | 3456.82 | 0.00 | 0.00 | 0.00 | |
| 9800.00 | 90.00 | 0.39 | 6246.00 | 3558.28 | -202.61 | 3556.82 | 0.00 | 0.00 | 0.00 | |
| 9900.00 | 90.00 | 0.39 | 6246.00 | 3658.28 | -201.93 | 3656.82 | 0.00 | 0.00 | 0.00 | |
| 10000.00 | 90.00 | 0.39 | 6246.00 | 3758.28 | -201.24 | 3756.82 | 0.00 | 0.00 | 0.00 | |
| 10100.00 | 90.00 | 0.39 | 6246.00 | 3858.28 | -200.56 | 3856.82 | 0.00 | 0.00 | 0.00 | |
| 10200.00 | 90.00 | 0.39 | 6246.00 | 3958.27 | -199.88 | 3956.82 | 0.00 | 0.00 | 0.00 | |
| 10300.00 | 90.00 | 0.39 | 6246.00 | 4058.27 | -199.20 | 4056.82 | 0.00 | 0.00 | 0.00 | |
| 10400.00 | 90.00 | 0.39 | 6246.00 | 4158.27 | -198.52 | 4156.82 | 0.00 | 0.00 | 0.00 | |
| 10500.00 | 90.00 | 0.39 | 6246.00 | 4258.27 | -197.84 | 4256.82 | 0.00 | 0.00 | 0.00 | |
| 10600.00 | 90.00 | 0.39 | 6246.00 | 4358.27 | -197.15 | 4356.82 | 0.00 | 0.00 | 0.00 | |
| 10700.00 | 90.00 | 0.39 | 6246.00 | 4458.26 | -196.47 | 4456.82 | 0.00 | 0.00 | 0.00 | |
| 10800.00 | 90.00 | 0.39 | 6246.00 | 4558.26 | -195.79 | 4556.82 | 0.00 | 0.00 | 0.00 | |
| 10805.77 | 90.00 | 0.39 | 6246.00 | 4564.03 | -195.75 | 4562.59 | 0.00 | 0.00 | 0.00 | PBHL 2-36 |

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bob White 2-36-8-62 Pad
Well: 2-36-8-62
Wellpath: Original Hole

Date: 06/17/2013
Co-ordinate(NE) Reference: Well: 2-36-8-62, Grid North
Vertical (TVD) Reference: 4939'GL+17'KB 4956.0
Section (VS) Reference: Well (0.00N,0.00E,0.39Azi)
Plan: Plan #1

Page: 4

Targets

| Name | Description | Dir. | TVD ft | +N/-S ft | +E/-W ft | Map Northing ft | Map Easting ft | <---- Latitude ----> | | | <--- Longitude ---> | | | | |
|-----------|-------------|------|-----------|-------------|-------------|-----------------------|----------------------|----------------------|-----|--------|---------------------|-----|-----|--------|---|
| | | | | | | | | Deg | Min | Sec | Deg | Min | Sec | | |
| SL 2-36 | | | 0.00 | 0.00 | 0.00 | 1467812.21 | 3340071.27 | 40 | 36 | 39.912 | N | 104 | 16 | 30.485 | W |
| PBHL 2-36 | | | 6246.00 | 4564.03 | -195.75 | 1472376.24 | 3339875.52 | 40 | 37 | 25.034 | N | 104 | 16 | 32.206 | W |

Casing Points

| MD ft | TVD ft | Diameter in | Hole Size in | Name |
|----------|-----------|----------------|-----------------|--------|
| 1441.93 | 1440.00 | 9.625 | 12.250 | 9 5/8" |
| 6382.15 | 6211.42 | 7.000 | 8.750 | 7" |