

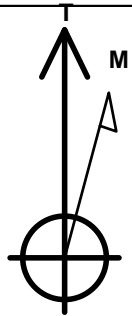
BONANZA CREEK ENERGY OPERATING

Well Name: **North Platte E-A-28HC**

Surface Location: North Platte E-A-28HC Pad Sec.28-T5N-R63W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4551.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1377690.19 3293071.51 40.365390 -104.448230
 Ensign 7 RKB - 16' WELL @ 4567.0ft (Ensign 7 RKB - 16')

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|----------------------|--------|--------|--------|-------|
| BHL 470'FNL & 10'FWL | 6507.0 | 4032.9 | -607.4 | Point |
| T1 631'FSL & 10'FWL | 6507.0 | -142.1 | -613.1 | Point |



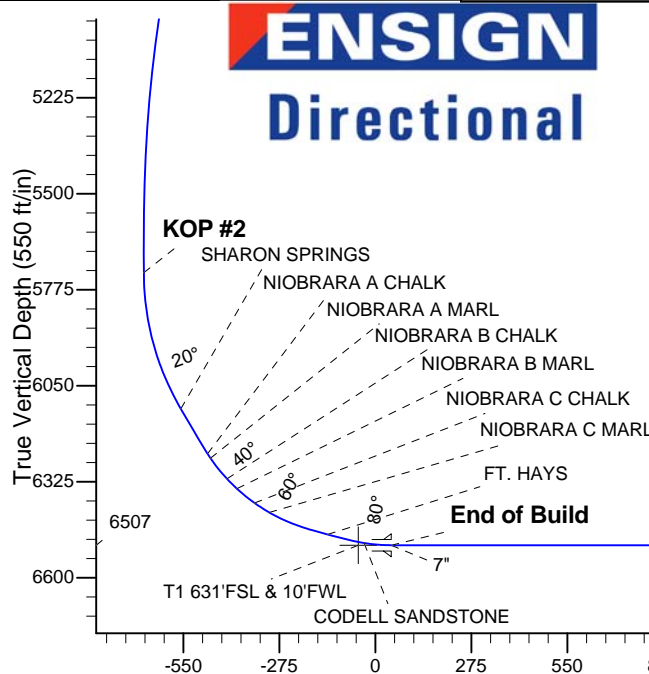
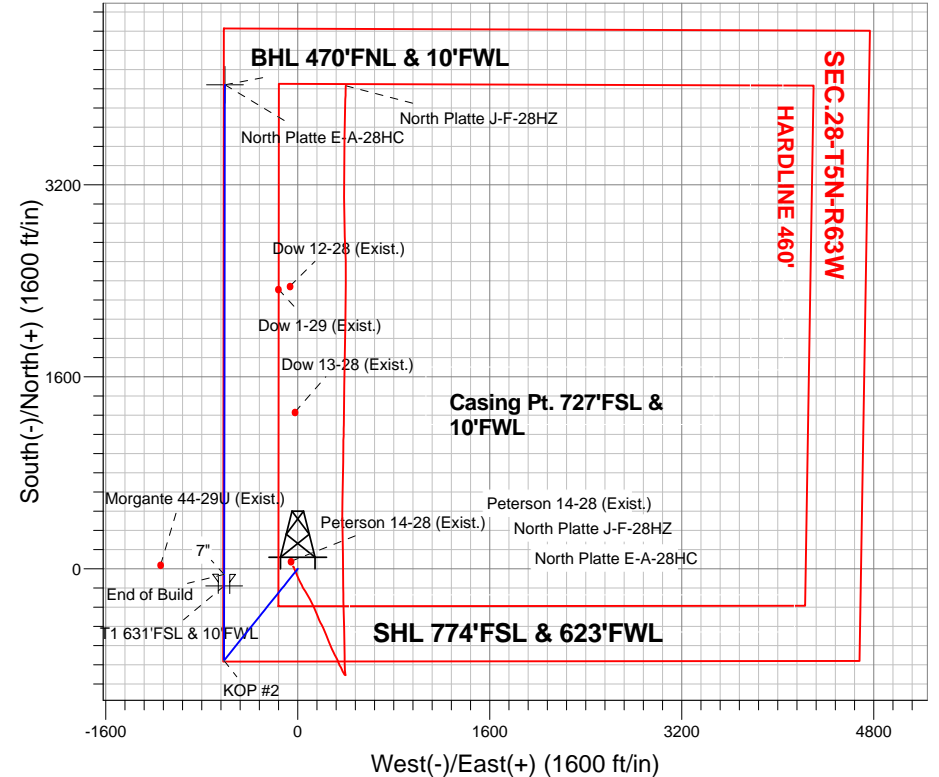
Azimuths to True North
 Magnetic North: 8.41°

Magnetic Field
 Strength: 52928.3srT
 Dip Angle: 67.00°
 Date: 7/18/2013
 Model: IGRF2010

North Platte E-A-28HC Pad Sec.28-T5N-R63W
 North Platte E-A-28HC
 Plan #3 (7-26-13)
 10:47, July 26 2013

ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------|
| 200.0 | 200.0 | KOP #1 |
| 5726.0 | 5820.6 | KOP #2 |
| 6507.0 | 6997.2 | End of Build |



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|--------|-------|--------|--------|--------|--------|-------|--------|--------|----------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 773.8 | 11.48 | 218.82 | 770.0 | -44.6 | -35.9 | 2.00 | 218.82 | -38.8 | |
| 4 | 5120.7 | 11.48 | 218.82 | 5030.0 | -718.5 | -578.1 | 0.00 | 0.00 | -624.4 | |
| 5 | 5694.6 | 0.00 | 0.00 | 5600.0 | -763.1 | -614.0 | 2.00 | 180.00 | -663.1 | |
| 6 | 5820.6 | 0.00 | 0.00 | 5726.0 | -763.1 | -614.0 | 0.00 | 0.00 | -663.1 | |
| 7 | 6230.6 | 30.75 | 0.08 | 6116.6 | -655.7 | -613.9 | 7.50 | 0.08 | -557.0 | |
| 8 | 6358.5 | 30.75 | 0.08 | 6226.6 | -590.3 | -613.8 | 0.00 | 0.00 | -492.3 | |
| 9 | 6760.8 | 75.00 | 0.08 | 6463.4 | -277.4 | -613.3 | 11.00 | 0.00 | -183.0 | |
| 10 | 6860.8 | 75.00 | 0.08 | 6489.3 | -180.9 | -613.2 | 0.00 | 0.00 | -87.5 | |
| 11 | 6997.2 | 90.00 | 0.08 | 6507.0 | -46.0 | -613.0 | 11.00 | 0.00 | 45.8 | |
| 12 | 1076.1 | 90.00 | 0.08 | 6507.0 | 4032.9 | -607.4 | 0.00 | 0.00 | 4078.4 | BHL 470'FNL & 10'FWL |

BHL 470'FNL & 10'FWL

Vertical Section at 351.44° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.28-T5N-R63W

North Platte E-A-28HC Pad Sec.28-T5N-R63W

North Platte E-A-28HC

Wellbore #1

Plan: Plan #3 (7-26-13)

Standard Planning Report

26 July, 2013

| | | | |
|------------------|--|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Project: | SEC.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | North Reference: | True |
| Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #3 (7-26-13) | | |

| | | | |
|--------------------|----------------------------------|----------------------|-----------------------------|
| Project | SEC.28-T5N-R63W, Weld County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | Using Well Reference Point |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| Site | | | | | | North Platte E-A-28HC Pad Sec.28-T5N-R63W | | | | | | | | | | | |
|-----------------------|--|--|----------|--|--|---|--|--|-----------------|--|--|-------------------|--|--|-------------|--|--|
| Site Position: | | | | | | Northing: | | | 1,377,718.68 ft | | | Latitude: | | | 40.365470 | | |
| From: | | | Lat/Long | | | Easting: | | | 3,293,015.44 ft | | | Longitude: | | | -104.448430 | | |
| Position Uncertainty: | | | 0.0 ft | | | Slot Radius: | | | " | | | Grid Convergence: | | | 0.68 ° | | |

| Well | North Platte E-A-28HC | | | | | |
|----------------------|-----------------------|----------|---------------------|-----------------|---------------|-------------|
| Well Position | +N/-S | -29.2 ft | Northing: | 1,377,690.19 ft | Latitude: | 40.365390 |
| | +E/-W | 55.7 ft | Easting: | 3,293,071.51 ft | Longitude: | -104.448230 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,551.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 7/18/2013 | 8.41 | 67.00 | 52,928 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #3 (7-26-13) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 351.44 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 773.8 | 11.48 | 218.82 | 770.0 | -44.6 | -35.9 | 2.00 | 2.00 | 0.00 | 218.82 | |
| 5,120.7 | 11.48 | 218.82 | 5,030.0 | -718.5 | -578.1 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,694.6 | 0.00 | 0.00 | 5,600.0 | -763.1 | -614.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 5,820.6 | 0.00 | 0.00 | 5,726.0 | -763.1 | -614.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,230.6 | 30.75 | 0.08 | 6,116.6 | -655.7 | -613.9 | 7.50 | 7.50 | 0.00 | 0.08 | |
| 6,358.5 | 30.75 | 0.08 | 6,226.6 | -590.3 | -613.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,760.8 | 75.00 | 0.08 | 6,463.4 | -277.4 | -613.3 | 11.00 | 11.00 | 0.00 | 0.00 | |
| 6,860.8 | 75.00 | 0.08 | 6,489.3 | -180.9 | -613.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,997.2 | 90.00 | 0.08 | 6,507.0 | -46.0 | -613.0 | 11.00 | 11.00 | 0.00 | 0.00 | |
| 11,076.1 | 90.00 | 0.08 | 6,507.0 | 4,032.9 | -607.4 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 470'FNL & 10'I |

| | | | |
|------------------|--|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Project: | SEC.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | North Reference: | True |
| Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #3 (7-26-13) | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 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 |
| KOP #1 | | | | | | | | | |
| 300.0 | 2.00 | 218.82 | 300.0 | -1.4 | -1.1 | -1.2 | 2.00 | 2.00 | 0.00 |
| 400.0 | 4.00 | 218.82 | 399.8 | -5.4 | -4.4 | -4.7 | 2.00 | 2.00 | 0.00 |
| 500.0 | 6.00 | 218.82 | 499.5 | -12.2 | -9.8 | -10.6 | 2.00 | 2.00 | 0.00 |
| 600.0 | 8.00 | 218.82 | 598.7 | -21.7 | -17.5 | -18.9 | 2.00 | 2.00 | 0.00 |
| 700.0 | 10.00 | 218.82 | 697.5 | -33.9 | -27.3 | -29.5 | 2.00 | 2.00 | 0.00 |
| 773.8 | 11.48 | 218.82 | 770.0 | -44.6 | -35.9 | -38.8 | 2.00 | 2.00 | 0.00 |
| 800.0 | 11.48 | 218.82 | 795.6 | -48.7 | -39.2 | -42.3 | 0.00 | 0.00 | 0.00 |
| 900.0 | 11.48 | 218.82 | 893.6 | -64.2 | -51.6 | -55.8 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 11.48 | 218.82 | 991.6 | -79.7 | -64.1 | -69.2 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 11.48 | 218.82 | 1,089.6 | -95.2 | -76.6 | -82.7 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 11.48 | 218.82 | 1,187.6 | -110.7 | -89.1 | -96.2 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 11.48 | 218.82 | 1,285.7 | -126.2 | -101.5 | -109.7 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 11.48 | 218.82 | 1,383.7 | -141.7 | -114.0 | -123.1 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 11.48 | 218.82 | 1,481.7 | -157.2 | -126.5 | -136.6 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 11.48 | 218.82 | 1,579.7 | -172.7 | -139.0 | -150.1 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 11.48 | 218.82 | 1,677.7 | -188.2 | -151.4 | -163.5 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 11.48 | 218.82 | 1,775.7 | -203.7 | -163.9 | -177.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 11.48 | 218.82 | 1,873.7 | -219.2 | -176.4 | -190.5 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 11.48 | 218.82 | 1,971.7 | -234.7 | -188.8 | -204.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 11.48 | 218.82 | 2,069.7 | -250.2 | -201.3 | -217.4 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 11.48 | 218.82 | 2,167.7 | -265.7 | -213.8 | -230.9 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 11.48 | 218.82 | 2,265.7 | -281.2 | -226.3 | -244.4 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 11.48 | 218.82 | 2,363.7 | -296.7 | -238.7 | -257.8 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 11.48 | 218.82 | 2,461.7 | -312.2 | -251.2 | -271.3 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 11.48 | 218.82 | 2,559.7 | -327.7 | -263.7 | -284.8 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 11.48 | 218.82 | 2,657.7 | -343.2 | -276.2 | -298.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 11.48 | 218.82 | 2,755.7 | -358.7 | -288.6 | -311.7 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 11.48 | 218.82 | 2,853.7 | -374.2 | -301.1 | -325.2 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 11.48 | 218.82 | 2,951.7 | -389.7 | -313.6 | -338.7 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 11.48 | 218.82 | 3,049.7 | -405.2 | -326.0 | -352.1 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 11.48 | 218.82 | 3,147.7 | -420.7 | -338.5 | -365.6 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 11.48 | 218.82 | 3,245.7 | -436.2 | -351.0 | -379.1 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 11.48 | 218.82 | 3,343.7 | -451.7 | -363.5 | -392.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 11.48 | 218.82 | 3,441.7 | -467.2 | -375.9 | -406.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 11.48 | 218.82 | 3,539.7 | -482.7 | -388.4 | -419.5 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 11.48 | 218.82 | 3,637.7 | -498.2 | -400.9 | -433.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 11.48 | 218.82 | 3,735.7 | -513.7 | -413.4 | -446.4 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 11.48 | 218.82 | 3,833.7 | -529.2 | -425.8 | -459.9 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 11.48 | 218.82 | 3,931.7 | -544.7 | -438.3 | -473.4 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 11.48 | 218.82 | 4,029.7 | -560.2 | -450.8 | -486.9 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 11.48 | 218.82 | 4,127.7 | -575.7 | -463.3 | -500.3 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 11.48 | 218.82 | 4,225.7 | -591.2 | -475.7 | -513.8 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 11.48 | 218.82 | 4,323.7 | -606.7 | -488.2 | -527.3 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 11.48 | 218.82 | 4,421.7 | -622.2 | -500.7 | -540.7 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 11.48 | 218.82 | 4,519.7 | -637.7 | -513.1 | -554.2 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 11.48 | 218.82 | 4,617.7 | -653.3 | -525.6 | -567.7 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 11.48 | 218.82 | 4,715.7 | -668.8 | -538.1 | -581.2 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 11.48 | 218.82 | 4,813.7 | -684.3 | -550.6 | -594.6 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 11.48 | 218.82 | 4,911.7 | -699.8 | -563.0 | -608.1 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Project: | SEC.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | North Reference: | True |
| Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #3 (7-26-13) | | |

| Planned Survey | | | | | | | | | |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,100.0 | 11.48 | 218.82 | 5,009.7 | -715.3 | -575.5 | -621.6 | 0.00 | 0.00 | 0.00 |
| 5,120.7 | 11.48 | 218.82 | 5,030.0 | -718.5 | -578.1 | -624.4 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 9.89 | 218.82 | 5,107.9 | -729.9 | -587.3 | -634.3 | 2.00 | -2.00 | 0.00 |
| 5,300.0 | 7.89 | 218.82 | 5,206.7 | -742.0 | -597.0 | -644.8 | 2.00 | -2.00 | 0.00 |
| 5,400.0 | 5.89 | 218.82 | 5,305.9 | -751.3 | -604.5 | -652.9 | 2.00 | -2.00 | 0.00 |
| 5,500.0 | 3.89 | 218.82 | 5,405.6 | -758.0 | -609.9 | -658.7 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 1.89 | 218.82 | 5,505.4 | -761.9 | -613.0 | -662.1 | 2.00 | -2.00 | 0.00 |
| 5,694.6 | 0.00 | 0.00 | 5,600.0 | -763.1 | -614.0 | -663.1 | 2.00 | -2.00 | 0.00 |
| 5,700.0 | 0.00 | 0.00 | 5,605.4 | -763.1 | -614.0 | -663.1 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,705.4 | -763.1 | -614.0 | -663.1 | 0.00 | 0.00 | 0.00 |
| 5,820.6 | 0.00 | 0.00 | 5,726.0 | -763.1 | -614.0 | -663.1 | 0.00 | 0.00 | 0.00 |
| KOP #2 | | | | | | | | | |
| 5,900.0 | 5.96 | 0.08 | 5,805.3 | -759.0 | -614.0 | -659.1 | 7.50 | 7.50 | 0.00 |
| 6,000.0 | 13.46 | 0.08 | 5,903.8 | -742.1 | -614.0 | -642.4 | 7.50 | 7.50 | 0.00 |
| 6,100.0 | 20.96 | 0.08 | 5,999.2 | -712.6 | -613.9 | -613.2 | 7.50 | 7.50 | 0.00 |
| 6,200.0 | 28.46 | 0.08 | 6,090.0 | -670.8 | -613.9 | -571.9 | 7.50 | 7.50 | 0.00 |
| 6,229.9 | 30.70 | 0.08 | 6,116.0 | -656.1 | -613.9 | -557.3 | 7.50 | 7.50 | 0.00 |
| SHARON SPRINGS | | | | | | | | | |
| 6,230.6 | 30.75 | 0.08 | 6,116.6 | -655.7 | -613.9 | -557.0 | 7.50 | 7.50 | 0.00 |
| 6,300.0 | 30.75 | 0.08 | 6,176.3 | -620.2 | -613.8 | -521.9 | 0.00 | 0.00 | 0.00 |
| 6,358.5 | 30.75 | 0.08 | 6,226.6 | -590.3 | -613.8 | -492.3 | 0.00 | 0.00 | 0.00 |
| 6,380.3 | 33.14 | 0.08 | 6,245.0 | -578.8 | -613.7 | -480.9 | 11.00 | 11.00 | 0.00 |
| NIORARA A CHALK | | | | | | | | | |
| 6,395.9 | 34.87 | 0.08 | 6,258.0 | -570.0 | -613.7 | -472.2 | 11.00 | 11.00 | 0.00 |
| NIORARA A MARL | | | | | | | | | |
| 6,400.0 | 35.31 | 0.08 | 6,261.3 | -567.7 | -613.7 | -469.9 | 11.00 | 11.00 | 0.00 |
| 6,472.0 | 43.23 | 0.08 | 6,317.0 | -522.2 | -613.7 | -424.9 | 11.00 | 11.00 | 0.00 |
| NIORARA B CHALK | | | | | | | | | |
| 6,500.0 | 46.31 | 0.08 | 6,336.9 | -502.4 | -613.6 | -405.4 | 11.00 | 11.00 | 0.00 |
| 6,511.9 | 47.62 | 0.08 | 6,345.0 | -493.7 | -613.6 | -396.8 | 11.00 | 11.00 | 0.00 |
| NIORARA B MARL | | | | | | | | | |
| 6,577.4 | 54.82 | 0.08 | 6,386.0 | -442.7 | -613.6 | -346.4 | 11.00 | 11.00 | 0.00 |
| NIORARA C CHALK | | | | | | | | | |
| 6,600.0 | 57.31 | 0.08 | 6,398.6 | -423.9 | -613.5 | -327.8 | 11.00 | 11.00 | 0.00 |
| 6,627.8 | 60.37 | 0.08 | 6,413.0 | -400.2 | -613.5 | -304.3 | 11.00 | 11.00 | 0.00 |
| NIORARA C MARL | | | | | | | | | |
| 6,700.0 | 68.31 | 0.08 | 6,444.2 | -335.1 | -613.4 | -240.0 | 11.00 | 11.00 | 0.00 |
| 6,760.8 | 75.00 | 0.08 | 6,463.4 | -277.4 | -613.3 | -183.0 | 11.00 | 11.00 | 0.00 |
| 6,800.0 | 75.00 | 0.08 | 6,473.5 | -239.6 | -613.3 | -145.6 | 0.00 | 0.00 | 0.00 |
| 6,809.6 | 75.00 | 0.08 | 6,476.0 | -230.3 | -613.3 | -136.4 | 0.00 | 0.00 | 0.00 |
| FT. HAYS | | | | | | | | | |
| 6,860.8 | 75.00 | 0.08 | 6,489.3 | -180.9 | -613.2 | -87.5 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 79.31 | 0.08 | 6,498.0 | -142.6 | -613.1 | -49.7 | 11.00 | 11.00 | 0.00 |
| 6,902.1 | 79.54 | 0.08 | 6,498.3 | -140.6 | -613.1 | -47.7 | 11.00 | 11.00 | 0.00 |
| T1 631'FSL & 10'FWL | | | | | | | | | |
| 6,918.0 | 81.30 | 0.08 | 6,501.0 | -124.9 | -613.1 | -32.2 | 11.00 | 11.00 | 0.00 |
| CODELL SANDSTONE | | | | | | | | | |
| 6,997.2 | 90.00 | 0.08 | 6,507.0 | -46.0 | -613.0 | 45.8 | 10.99 | 10.99 | 0.00 |
| End of Build - 7" | | | | | | | | | |
| 7,000.0 | 90.00 | 0.08 | 6,507.0 | -43.2 | -613.0 | 48.6 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 90.00 | 0.08 | 6,507.0 | 56.8 | -612.9 | 147.4 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 90.00 | 0.08 | 6,507.0 | 156.8 | -612.7 | 246.3 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Project: | SEC.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | North Reference: | True |
| Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #3 (7-26-13) | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 7,300.0 | 90.00 | 0.08 | 6,507.0 | 256.8 | -612.6 | 345.2 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.00 | 0.08 | 6,507.0 | 356.8 | -612.5 | 444.0 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 90.00 | 0.08 | 6,507.0 | 456.8 | -612.3 | 542.9 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 0.08 | 6,507.0 | 556.8 | -612.2 | 641.8 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 0.08 | 6,507.0 | 656.8 | -612.0 | 740.6 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 0.08 | 6,507.0 | 756.8 | -611.9 | 839.5 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 0.08 | 6,507.0 | 856.8 | -611.8 | 938.4 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 0.08 | 6,507.0 | 956.8 | -611.6 | 1,037.2 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 0.08 | 6,507.0 | 1,056.8 | -611.5 | 1,136.1 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 0.08 | 6,507.0 | 1,156.8 | -611.4 | 1,234.9 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 0.08 | 6,507.0 | 1,256.8 | -611.2 | 1,333.8 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 0.08 | 6,507.0 | 1,356.8 | -611.1 | 1,432.7 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 0.08 | 6,507.0 | 1,456.8 | -610.9 | 1,531.5 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 0.08 | 6,507.0 | 1,556.8 | -610.8 | 1,630.4 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 0.08 | 6,507.0 | 1,656.8 | -610.7 | 1,729.3 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 0.08 | 6,507.0 | 1,756.8 | -610.5 | 1,828.1 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 0.08 | 6,507.0 | 1,856.8 | -610.4 | 1,927.0 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 0.08 | 6,507.0 | 1,956.8 | -610.3 | 2,025.9 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 0.08 | 6,507.0 | 2,056.8 | -610.1 | 2,124.7 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 0.08 | 6,507.0 | 2,156.8 | -610.0 | 2,223.6 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 0.08 | 6,507.0 | 2,256.8 | -609.8 | 2,322.4 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 0.08 | 6,507.0 | 2,356.8 | -609.7 | 2,421.3 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 0.08 | 6,507.0 | 2,456.8 | -609.6 | 2,520.2 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 0.08 | 6,507.0 | 2,556.8 | -609.4 | 2,619.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 0.08 | 6,507.0 | 2,656.8 | -609.3 | 2,717.9 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 0.08 | 6,507.0 | 2,756.8 | -609.1 | 2,816.8 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 0.08 | 6,507.0 | 2,856.8 | -609.0 | 2,915.6 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 0.08 | 6,507.0 | 2,956.8 | -608.9 | 3,014.5 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 0.08 | 6,507.0 | 3,056.8 | -608.7 | 3,113.4 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 0.08 | 6,507.0 | 3,156.8 | -608.6 | 3,212.2 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 0.08 | 6,507.0 | 3,256.8 | -608.5 | 3,311.1 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 0.08 | 6,507.0 | 3,356.8 | -608.3 | 3,410.0 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 0.08 | 6,507.0 | 3,456.8 | -608.2 | 3,508.8 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 0.08 | 6,507.0 | 3,556.8 | -608.0 | 3,607.7 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 0.08 | 6,507.0 | 3,656.8 | -607.9 | 3,706.5 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 0.08 | 6,507.0 | 3,756.8 | -607.8 | 3,805.4 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 0.08 | 6,507.0 | 3,856.8 | -607.6 | 3,904.3 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 0.08 | 6,507.0 | 3,956.8 | -607.5 | 4,003.1 | 0.00 | 0.00 | 0.00 |
| 11,076.1 | 90.00 | 0.08 | 6,507.0 | 4,032.9 | -607.4 | 4,078.4 | 0.00 | 0.00 | 0.00 |
| BHL 470'FNL & 10'FWL | | | | | | | | | |

| | | | |
|------------------|--|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Project: | SEC.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | North Reference: | True |
| Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #3 (7-26-13) | | |

Targets

Target Name

| - hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|--|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|-----------|-------------|
| - Shape | | | | | | | | | |
| BHL 470'FNL & 10'FM - plan hits target center - Point | 0.00 | 0.00 | 6,507.0 | 4,032.9 | -607.4 | 1,381,715.46 | 3,292,416.36 | 40.376460 | -104.450410 |
| T1 631'FSL & 10'FWL - plan misses target center by 8.8ft at 6902.1ft MD (6498.3 TVD, -140.6 N, -613.1 E) - Point | 0.00 | 0.00 | 6,507.0 | -142.1 | -613.1 | 1,377,540.87 | 3,292,460.20 | 40.365000 | -104.450430 |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------------|---------------------------|------|---------------------------|-------------------------|
| 6,997.2 | 6,507.0 | 7" | 7 | 7-1/2 |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------------|---------------------------|------------------|-----------|------------|-------------------------|
| 6,229.9 | 6,116.0 | SHARON SPRINGS | | 0.00 | |
| 6,380.3 | 6,245.0 | NIOBRARA A CHALK | | 0.00 | |
| 6,395.9 | 6,258.0 | NIOBRARA A MARL | | 0.00 | |
| 6,472.0 | 6,317.0 | NIOBRARA B CHALK | | 0.00 | |
| 6,511.9 | 6,345.0 | NIOBRARA B MARL | | 0.00 | |
| 6,577.4 | 6,386.0 | NIOBRARA C CHALK | | 0.00 | |
| 6,627.8 | 6,413.0 | NIOBRARA C MARL | | 0.00 | |
| 6,809.6 | 6,476.0 | FT. HAYS | | 0.00 | |
| 6,918.0 | 6,501.0 | CODELL SANDSTONE | | 0.00 | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------------|---------------------------|-------------------|---------------|--------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP #1 |
| 5,820.6 | 5,726.0 | -763.1 | -614.0 | KOP #2 |
| 6,997.2 | 6,507.0 | -46.0 | -613.0 | End of Build |



BONANZA CREEK ENERGY OPERATING

SEC.28-T5N-R63W

North Platte E-A-28HC Pad Sec.28-T5N-R63W

North Platte E-A-28HC

Wellbore #1

Plan #3 (7-26-13)

Anticollision Report

26 July, 2013

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #3 (7-26-13) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | |
|----------------------------|-----------------------|---------------------------------|------------------|--------------------|
| Survey Tool Program | Date 7/26/2013 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 11,076.1 | Plan #3 (7-26-13) (Wellbore #1) | MWD | MWD - Standard |

| | | | | | | |
|--|--------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|--------------------------|----------------|
| Summary | | | | | | |
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| North Platte E-A-28HC Pad Sec.28-T5N-R63W | | | | | | |
| Dow 12-28 (Exist.) - Wellbore #1 - Wellbore #1 | 9,401.0 | 6,481.0 | 545.6 | 364.1 | 3.006 | CC, ES, SF |
| Dow 1-29 (Exist.) - Wellbore #1 - Wellbore #1 | 9,375.4 | 6,481.0 | 448.1 | 267.1 | 2.475 | CC, ES |
| Dow 1-29 (Exist.) - Wellbore #1 - Wellbore #1 | 9,400.0 | 6,481.0 | 448.8 | 267.3 | 2.473 | SF |
| Dow 13-28 (Exist.) - Wellbore #1 - Wellbore #1 | 8,351.9 | 6,481.0 | 588.9 | 425.6 | 3.608 | CC, ES |
| Dow 13-28 (Exist.) - Wellbore #1 - Wellbore #1 | 8,400.0 | 6,481.0 | 590.8 | 426.8 | 3.602 | SF |
| Morgante 44-29U (Exist.) - Wellbore #1 - Wellbore #1 | 7,075.3 | 6,498.0 | 529.6 | 381.7 | 3.581 | CC, ES, SF |
| Peterson 14-28 Pad Sec.28-T5N-R63W | | | | | | |
| North Platte J-F-28HZ - Wellbore #1 - Wellbore #1 | 415.2 | 411.0 | 39.7 | 38.4 | 31.700 | CC, ES |
| North Platte J-F-28HZ - Wellbore #1 - Wellbore #1 | 700.0 | 696.0 | 47.2 | 44.7 | 18.701 | SF |
| Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1 | 200.0 | 199.0 | 83.3 | 79.0 | 19.298 | CC |
| Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1 | 400.0 | 398.8 | 84.7 | 76.0 | 9.705 | ES |
| Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1 | 7,105.9 | 6,506.0 | 557.1 | 408.9 | 3.760 | SF |

| | | | | | | | | | | | |
|---|----------------------------|----------------------------|----------------------------|-----------------------|--------------------|------------------------------|--|---------------------------|-----------------------------|------------------------------|--------------------------|
| Offset Design North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 12-28 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | |
| Survey Program: 6600-UNKNOWN | | | | | | | | | | | |
| Reference | Offset | Semi Major Axis | | Distance | | | | Minimum Separation | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Separation Factor |
| 8,600.0 | 6,507.0 | 6,481.0 | 6,481.0 | 38.3 | 129.6 | 90.00 | 2,357.1 | -64.1 | 969.2 | 801.8 | 167.38 |
| 8,700.0 | 6,507.0 | 6,481.0 | 6,481.0 | 40.0 | 129.6 | 90.00 | 2,357.1 | -64.1 | 888.3 | 719.3 | 169.09 |
| 8,800.0 | 6,507.0 | 6,481.0 | 6,481.0 | 41.8 | 129.6 | 90.00 | 2,357.1 | -64.1 | 811.8 | 640.9 | 170.82 |
| 8,900.0 | 6,507.0 | 6,481.0 | 6,481.0 | 43.5 | 129.6 | 90.00 | 2,357.1 | -64.1 | 740.8 | 568.2 | 172.57 |
| 9,000.0 | 6,507.0 | 6,481.0 | 6,481.0 | 45.3 | 129.6 | 90.00 | 2,357.1 | -64.1 | 677.1 | 502.8 | 174.33 |
| 9,100.0 | 6,507.0 | 6,481.0 | 6,481.0 | 47.0 | 129.6 | 90.00 | 2,357.1 | -64.1 | 623.2 | 447.0 | 176.11 |
| 9,200.0 | 6,507.0 | 6,481.0 | 6,481.0 | 48.8 | 129.6 | 90.00 | 2,357.1 | -64.1 | 581.5 | 403.6 | 177.89 |
| 9,300.0 | 6,507.0 | 6,481.0 | 6,481.0 | 50.6 | 129.6 | 90.00 | 2,357.1 | -64.1 | 554.9 | 375.2 | 179.69 |
| 9,400.0 | 6,507.0 | 6,481.0 | 6,481.0 | 52.4 | 129.6 | 90.00 | 2,357.1 | -64.1 | 545.6 | 364.1 | 181.50 |
| 9,401.0 | 6,507.0 | 6,481.0 | 6,481.0 | 52.4 | 129.6 | 90.00 | 2,357.1 | -64.1 | 545.6 | 364.1 | 181.51 |
| 9,500.0 | 6,507.0 | 6,481.0 | 6,481.0 | 54.2 | 129.6 | 90.00 | 2,357.1 | -64.1 | 554.5 | 371.2 | 183.31 |
| 9,600.0 | 6,507.0 | 6,481.0 | 6,481.0 | 56.0 | 129.6 | 90.00 | 2,357.1 | -64.1 | 580.8 | 395.6 | 185.13 |
| 9,700.0 | 6,507.0 | 6,481.0 | 6,481.0 | 57.8 | 129.6 | 90.00 | 2,357.1 | -64.1 | 622.1 | 435.2 | 186.96 |
| 9,800.0 | 6,507.0 | 6,481.0 | 6,481.0 | 59.6 | 129.6 | 90.00 | 2,357.1 | -64.1 | 675.9 | 487.1 | 188.79 |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 12-28 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 6600-UNKNOWN | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | Offset | Semi Major Axis | | Distance | | | | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 9,900.0 | 6,507.0 | 6,481.0 | 6,481.0 | 61.5 | 129.6 | 90.00 | 2,357.1 | -64.1 | 739.4 | 548.7 | 190.63 | 3.879 | | |
| 10,000.0 | 6,507.0 | 6,481.0 | 6,481.0 | 63.3 | 129.6 | 90.00 | 2,357.1 | -64.1 | 810.2 | 617.7 | 192.47 | 4.210 | | |
| 10,100.0 | 6,507.0 | 6,481.0 | 6,481.0 | 65.1 | 129.6 | 90.00 | 2,357.1 | -64.1 | 886.7 | 692.4 | 194.32 | 4.563 | | |
| 10,200.0 | 6,507.0 | 6,481.0 | 6,481.0 | 67.0 | 129.6 | 90.00 | 2,357.1 | -64.1 | 967.5 | 771.3 | 196.17 | 4.932 | | |

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 1-29 (Exist.) - Wellbore #1 - Wellbore #1 | | | | Offset Site Error: | | 0.0 ft |
|------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|---|--------------------|-------------------|--|--------------------|--|--------|
| Survey Program: 6600-UNKNOWN | | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | | |
| 8,500.0 | 6,507.0 | 6,481.0 | 6,481.0 | 36.6 | 129.6 | 90.00 | 2,331.6 | -161.6 | 983.4 | 817.8 | 165.68 | 5.936 | | | | |
| 8,600.0 | 6,507.0 | 6,481.0 | 6,481.0 | 38.3 | 129.6 | 90.00 | 2,331.6 | -161.6 | 895.6 | 728.2 | 167.38 | 5.351 | | | | |
| 8,700.0 | 6,507.0 | 6,481.0 | 6,481.0 | 40.0 | 129.6 | 90.00 | 2,331.6 | -161.6 | 810.5 | 641.5 | 169.09 | 4.794 | | | | |
| 8,800.0 | 6,507.0 | 6,481.0 | 6,481.0 | 41.8 | 129.6 | 90.00 | 2,331.6 | -161.6 | 729.3 | 558.5 | 170.82 | 4.269 | | | | |
| 8,900.0 | 6,507.0 | 6,481.0 | 6,481.0 | 43.5 | 129.6 | 90.00 | 2,331.6 | -161.6 | 653.3 | 480.7 | 172.57 | 3.786 | | | | |
| 9,000.0 | 6,507.0 | 6,481.0 | 6,481.0 | 45.3 | 129.6 | 90.00 | 2,331.6 | -161.6 | 584.6 | 410.3 | 174.33 | 3.353 | | | | |
| 9,100.0 | 6,507.0 | 6,481.0 | 6,481.0 | 47.0 | 129.6 | 90.00 | 2,331.6 | -161.6 | 526.0 | 349.9 | 176.11 | 2.987 | | | | |
| 9,200.0 | 6,507.0 | 6,481.0 | 6,481.0 | 48.8 | 129.6 | 90.00 | 2,331.6 | -161.6 | 481.2 | 303.3 | 177.89 | 2.705 | | | | |
| 9,300.0 | 6,507.0 | 6,481.0 | 6,481.0 | 50.6 | 129.6 | 90.00 | 2,331.6 | -161.6 | 454.4 | 274.7 | 179.69 | 2.529 | | | | |
| 9,375.4 | 6,507.0 | 6,481.0 | 6,481.0 | 51.9 | 129.6 | 90.00 | 2,331.6 | -161.6 | 448.1 | 267.1 | 181.05 | 2.475 CC, ES | | | | |
| 9,400.0 | 6,507.0 | 6,481.0 | 6,481.0 | 52.4 | 129.6 | 90.00 | 2,331.6 | -161.6 | 448.8 | 267.3 | 181.50 | 2.473 SF | | | | |
| 9,500.0 | 6,507.0 | 6,481.0 | 6,481.0 | 54.2 | 129.6 | 90.00 | 2,331.6 | -161.6 | 465.1 | 281.8 | 183.31 | 2.537 | | | | |
| 9,600.0 | 6,507.0 | 6,481.0 | 6,481.0 | 56.0 | 129.6 | 90.00 | 2,331.6 | -161.6 | 501.3 | 316.1 | 185.13 | 2.708 | | | | |
| 9,700.0 | 6,507.0 | 6,481.0 | 6,481.0 | 57.8 | 129.6 | 90.00 | 2,331.6 | -161.6 | 553.3 | 366.4 | 186.96 | 2.960 | | | | |
| 9,800.0 | 6,507.0 | 6,481.0 | 6,481.0 | 59.6 | 129.6 | 90.00 | 2,331.6 | -161.6 | 617.3 | 428.5 | 188.79 | 3.270 | | | | |
| 9,900.0 | 6,507.0 | 6,481.0 | 6,481.0 | 61.5 | 129.6 | 90.00 | 2,331.6 | -161.6 | 689.9 | 499.3 | 190.63 | 3.619 | | | | |
| 10,000.0 | 6,507.0 | 6,481.0 | 6,481.0 | 63.3 | 129.6 | 90.00 | 2,331.6 | -161.6 | 768.7 | 576.2 | 192.47 | 3.994 | | | | |
| 10,100.0 | 6,507.0 | 6,481.0 | 6,481.0 | 65.1 | 129.6 | 90.00 | 2,331.6 | -161.6 | 852.0 | 657.6 | 194.32 | 4.384 | | | | |
| 10,200.0 | 6,507.0 | 6,481.0 | 6,481.0 | 67.0 | 129.6 | 90.00 | 2,331.6 | -161.6 | 938.5 | 742.3 | 196.17 | 4.784 | | | | |

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design North Platte E-A-28HC Pad Sec.28-T5N-R63W - Dow 13-28 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|---------|
| Survey Program: 6600-UNKNOWN | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 7,600.0 | 6,507.0 | 6,481.0 | 6,481.0 | 22.9 | 129.6 | 90.00 | 1,307.9 | -22.3 | 955.0 | 802.9 | 152.14 | 6.277 | | |
| 7,700.0 | 6,507.0 | 6,481.0 | 6,481.0 | 24.2 | 129.6 | 90.00 | 1,307.9 | -22.3 | 878.5 | 725.1 | 153.41 | 5.726 | | |
| 7,800.0 | 6,507.0 | 6,481.0 | 6,481.0 | 25.6 | 129.6 | 90.00 | 1,307.9 | -22.3 | 807.0 | 652.3 | 154.76 | 5.215 | | |
| 7,900.0 | 6,507.0 | 6,481.0 | 6,481.0 | 27.1 | 129.6 | 90.00 | 1,307.9 | -22.3 | 742.3 | 586.1 | 156.18 | 4.753 | | |
| 8,000.0 | 6,507.0 | 6,481.0 | 6,481.0 | 28.6 | 129.6 | 90.00 | 1,307.9 | -22.3 | 686.0 | 528.3 | 157.66 | 4.351 | | |
| 8,100.0 | 6,507.0 | 6,481.0 | 6,481.0 | 30.1 | 129.6 | 90.00 | 1,307.9 | -22.3 | 640.5 | 481.3 | 159.19 | 4.023 | | |
| 8,200.0 | 6,507.0 | 6,481.0 | 6,481.0 | 31.7 | 129.6 | 90.00 | 1,307.9 | -22.3 | 608.1 | 447.4 | 160.76 | 3.783 | | |
| 8,300.0 | 6,507.0 | 6,481.0 | 6,481.0 | 33.3 | 129.6 | 90.00 | 1,307.9 | -22.3 | 591.1 | 428.8 | 162.37 | 3.641 | | |
| 8,351.9 | 6,507.0 | 6,481.0 | 6,481.0 | 34.2 | 129.6 | 90.00 | 1,307.9 | -22.3 | 588.9 | 425.6 | 163.22 | 3.608 CC, ES | | |
| 8,400.0 | 6,507.0 | 6,481.0 | 6,481.0 | 35.0 | 129.6 | 90.00 | 1,307.9 | -22.3 | 590.8 | 426.8 | 164.01 | 3.602 SF | | |
| 8,500.0 | 6,507.0 | 6,481.0 | 6,481.0 | 36.6 | 129.6 | 90.00 | 1,307.9 | -22.3 | 607.2 | 441.5 | 165.68 | 3.665 | | |
| 8,600.0 | 6,507.0 | 6,481.0 | 6,481.0 | 38.3 | 129.6 | 90.00 | 1,307.9 | -22.3 | 639.0 | 471.6 | 167.38 | 3.818 | | |
| 8,700.0 | 6,507.0 | 6,481.0 | 6,481.0 | 40.0 | 129.6 | 90.00 | 1,307.9 | -22.3 | 684.1 | 515.0 | 169.09 | 4.046 | | |
| 8,800.0 | 6,507.0 | 6,481.0 | 6,481.0 | 41.8 | 129.6 | 90.00 | 1,307.9 | -22.3 | 740.0 | 569.1 | 170.82 | 4.332 | | |
| 8,900.0 | 6,507.0 | 6,481.0 | 6,481.0 | 43.5 | 129.6 | 90.00 | 1,307.9 | -22.3 | 804.5 | 631.9 | 172.57 | 4.662 | | |
| 9,000.0 | 6,507.0 | 6,481.0 | 6,481.0 | 45.3 | 129.6 | 90.00 | 1,307.9 | -22.3 | 875.7 | 701.3 | 174.33 | 5.023 | | |
| 9,100.0 | 6,507.0 | 6,481.0 | 6,481.0 | 47.0 | 129.6 | 90.00 | 1,307.9 | -22.3 | 952.1 | 776.0 | 176.11 | 5.406 | | |

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design North Platte E-A-28HC Pad Sec.28-T5N-R63W - Morgante 44-29U (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 6600-UNKNOWN | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 1,900.0 | 1,873.7 | 1,864.7 | 1,864.7 | 6.8 | 37.3 | 66.23 | | 32.8 | -1,142.5 | 998.5 | 954.8 | 43.69 | 22.854 | |
| 2,000.0 | 1,971.7 | 1,962.7 | 1,962.7 | 7.3 | 39.3 | 67.26 | | 32.8 | -1,142.5 | 990.5 | 944.4 | 46.10 | 21.484 | |
| 2,100.0 | 2,069.7 | 2,060.7 | 2,060.7 | 7.7 | 41.2 | 68.32 | | 32.8 | -1,142.5 | 982.8 | 934.3 | 48.52 | 20.256 | |
| 2,200.0 | 2,167.7 | 2,158.7 | 2,158.7 | 8.2 | 43.2 | 69.38 | | 32.8 | -1,142.5 | 975.5 | 924.6 | 50.94 | 19.150 | |
| 2,300.0 | 2,265.7 | 2,256.7 | 2,256.7 | 8.6 | 45.1 | 70.46 | | 32.8 | -1,142.5 | 968.6 | 915.2 | 53.37 | 18.149 | |
| 2,400.0 | 2,363.7 | 2,354.7 | 2,354.7 | 9.0 | 47.1 | 71.56 | | 32.8 | -1,142.5 | 962.0 | 906.2 | 55.80 | 17.241 | |
| 2,500.0 | 2,461.7 | 2,452.7 | 2,452.7 | 9.5 | 49.1 | 72.67 | | 32.8 | -1,142.5 | 955.8 | 897.5 | 58.23 | 16.415 | |
| 2,600.0 | 2,559.7 | 2,550.7 | 2,550.7 | 9.9 | 51.0 | 73.80 | | 32.8 | -1,142.5 | 949.9 | 889.3 | 60.66 | 15.660 | |
| 2,700.0 | 2,657.7 | 2,648.7 | 2,648.7 | 10.4 | 53.0 | 74.93 | | 32.8 | -1,142.5 | 944.5 | 881.4 | 63.09 | 14.969 | |
| 2,800.0 | 2,755.7 | 2,746.7 | 2,746.7 | 10.8 | 54.9 | 76.08 | | 32.8 | -1,142.5 | 939.4 | 873.8 | 65.53 | 14.335 | |
| 2,900.0 | 2,853.7 | 2,844.7 | 2,844.7 | 11.3 | 56.9 | 77.25 | | 32.8 | -1,142.5 | 934.7 | 866.7 | 67.97 | 13.752 | |
| 3,000.0 | 2,951.7 | 2,942.7 | 2,942.7 | 11.7 | 58.9 | 78.42 | | 32.8 | -1,142.5 | 930.4 | 860.0 | 70.40 | 13.216 | |
| 3,100.0 | 3,049.7 | 3,040.7 | 3,040.7 | 12.2 | 60.8 | 79.60 | | 32.8 | -1,142.5 | 926.6 | 853.7 | 72.84 | 12.721 | |
| 3,200.0 | 3,147.7 | 3,138.7 | 3,138.7 | 12.6 | 62.8 | 80.79 | | 32.8 | -1,142.5 | 923.1 | 847.8 | 75.27 | 12.263 | |
| 3,300.0 | 3,245.7 | 3,236.7 | 3,236.7 | 13.1 | 64.7 | 81.99 | | 32.8 | -1,142.5 | 920.1 | 842.4 | 77.71 | 11.840 | |
| 3,400.0 | 3,343.7 | 3,334.7 | 3,334.7 | 13.5 | 66.7 | 83.20 | | 32.8 | -1,142.5 | 917.4 | 837.3 | 80.14 | 11.448 | |
| 3,500.0 | 3,441.7 | 3,432.7 | 3,432.7 | 14.0 | 68.7 | 84.41 | | 32.8 | -1,142.5 | 915.3 | 832.7 | 82.57 | 11.085 | |
| 3,600.0 | 3,539.7 | 3,530.7 | 3,530.7 | 14.4 | 70.6 | 85.63 | | 32.8 | -1,142.5 | 913.5 | 828.5 | 84.99 | 10.748 | |
| 3,700.0 | 3,637.7 | 3,628.7 | 3,628.7 | 14.9 | 72.6 | 86.85 | | 32.8 | -1,142.5 | 912.2 | 824.8 | 87.41 | 10.435 | |
| 3,800.0 | 3,735.7 | 3,726.7 | 3,726.7 | 15.3 | 74.5 | 88.07 | | 32.8 | -1,142.5 | 911.3 | 821.4 | 89.83 | 10.145 | |
| 3,900.0 | 3,833.7 | 3,824.7 | 3,824.7 | 15.7 | 76.5 | 89.30 | | 32.8 | -1,142.5 | 910.8 | 818.6 | 92.24 | 9.874 | |
| 3,957.2 | 3,889.7 | 3,880.7 | 3,880.7 | 16.0 | 77.6 | 90.00 | | 32.8 | -1,142.5 | 910.7 | 817.1 | 93.61 | 9.728 | |
| 4,000.0 | 3,931.7 | 3,922.7 | 3,922.7 | 16.2 | 78.5 | 90.53 | | 32.8 | -1,142.5 | 910.8 | 816.1 | 94.64 | 9.623 | |
| 4,100.0 | 4,029.7 | 4,020.7 | 4,020.7 | 16.6 | 80.4 | 91.75 | | 32.8 | -1,142.5 | 911.2 | 814.1 | 97.04 | 9.389 | |
| 4,200.0 | 4,127.7 | 4,118.7 | 4,118.7 | 17.1 | 82.4 | 92.98 | | 32.8 | -1,142.5 | 912.0 | 812.6 | 99.43 | 9.172 | |
| 4,300.0 | 4,225.7 | 4,216.7 | 4,216.7 | 17.5 | 84.3 | 94.20 | | 32.8 | -1,142.5 | 913.3 | 811.5 | 101.82 | 8.970 | |
| 4,400.0 | 4,323.7 | 4,314.7 | 4,314.7 | 18.0 | 86.3 | 95.42 | | 32.8 | -1,142.5 | 915.0 | 810.8 | 104.20 | 8.781 | |
| 4,500.0 | 4,421.7 | 4,412.7 | 4,412.7 | 18.4 | 88.3 | 96.63 | | 32.8 | -1,142.5 | 917.1 | 810.5 | 106.56 | 8.606 | |
| 4,600.0 | 4,519.7 | 4,510.7 | 4,510.7 | 18.9 | 90.2 | 97.84 | | 32.8 | -1,142.5 | 919.7 | 810.7 | 108.93 | 8.443 | |
| 4,700.0 | 4,617.7 | 4,608.7 | 4,608.7 | 19.3 | 92.2 | 99.04 | | 32.8 | -1,142.5 | 922.6 | 811.4 | 111.28 | 8.291 | |
| 4,800.0 | 4,715.7 | 4,706.7 | 4,706.7 | 19.8 | 94.1 | 100.23 | | 32.8 | -1,142.5 | 926.0 | 812.4 | 113.62 | 8.150 | |
| 4,900.0 | 4,813.7 | 4,804.7 | 4,804.7 | 20.2 | 96.1 | 101.41 | | 32.8 | -1,142.5 | 929.8 | 813.9 | 115.96 | 8.019 | |
| 5,000.0 | 4,911.7 | 4,902.7 | 4,902.7 | 20.7 | 98.1 | 102.59 | | 32.8 | -1,142.5 | 934.1 | 815.8 | 118.28 | 7.897 | |
| 5,100.0 | 5,009.7 | 5,000.7 | 5,000.7 | 21.1 | 100.0 | 103.75 | | 32.8 | -1,142.5 | 938.7 | 818.1 | 120.60 | 7.784 | |
| 5,200.0 | 5,107.9 | 5,098.9 | 5,098.9 | 21.5 | 102.0 | 104.91 | | 32.8 | -1,142.5 | 943.4 | 820.5 | 122.88 | 7.678 | |
| 5,300.0 | 5,206.7 | 5,197.7 | 5,197.7 | 21.8 | 104.0 | 105.89 | | 32.8 | -1,142.5 | 947.6 | 822.5 | 125.08 | 7.576 | |
| 5,400.0 | 5,305.9 | 5,296.9 | 5,296.9 | 22.0 | 105.9 | 106.64 | | 32.8 | -1,142.5 | 951.0 | 823.7 | 127.26 | 7.472 | |
| 5,500.0 | 5,405.6 | 5,396.6 | 5,396.6 | 22.2 | 107.9 | 107.18 | | 32.8 | -1,142.5 | 953.4 | 824.0 | 129.43 | 7.367 | |
| 5,600.0 | 5,505.4 | 5,496.4 | 5,496.4 | 22.3 | 109.9 | 107.50 | | 32.8 | -1,142.5 | 954.9 | 823.4 | 131.56 | 7.258 | |
| 5,700.0 | 5,605.4 | 5,596.4 | 5,596.4 | 22.4 | 111.9 | -33.59 | | 32.8 | -1,142.5 | 955.4 | 821.7 | 133.69 | 7.147 | |
| 5,800.0 | 5,705.4 | 5,696.4 | 5,696.4 | 22.5 | 113.9 | -33.59 | | 32.8 | -1,142.5 | 955.4 | 819.6 | 135.79 | 7.036 | |
| 5,900.0 | 5,805.3 | 5,796.3 | 5,796.3 | 22.6 | 115.9 | -33.95 | | 32.8 | -1,142.5 | 952.0 | 814.6 | 137.35 | 6.931 | |
| 6,000.0 | 5,903.8 | 5,894.8 | 5,894.8 | 22.5 | 117.9 | -35.12 | | 32.8 | -1,142.5 | 938.0 | 800.7 | 137.37 | 6.828 | |
| 6,100.0 | 5,999.2 | 5,990.2 | 5,990.2 | 22.4 | 119.8 | -37.29 | | 32.8 | -1,142.5 | 913.8 | 777.7 | 136.08 | 6.715 | |
| 6,200.0 | 6,090.0 | 6,081.0 | 6,081.0 | 22.1 | 121.6 | -40.60 | | 32.8 | -1,142.5 | 880.1 | 746.0 | 134.06 | 6.565 | |
| 6,300.0 | 6,176.3 | 6,167.3 | 6,167.3 | 21.8 | 123.3 | -43.37 | | 32.8 | -1,142.5 | 840.2 | 705.3 | 134.93 | 6.227 | |
| 6,400.0 | 6,261.3 | 6,252.3 | 6,252.3 | 21.5 | 125.0 | -47.26 | | 32.8 | -1,142.5 | 800.1 | 665.2 | 134.97 | 5.928 | |
| 6,500.0 | 6,336.9 | 6,327.9 | 6,327.9 | 21.1 | 126.6 | -55.12 | | 32.8 | -1,142.5 | 752.5 | 618.1 | 134.38 | 5.599 | |
| 6,600.0 | 6,398.6 | 6,389.6 | 6,389.6 | 20.7 | 127.8 | -65.06 | | 32.8 | -1,142.5 | 698.9 | 560.9 | 137.97 | 5.065 | |
| 6,700.0 | 6,444.2 | 6,435.2 | 6,435.2 | 20.2 | 128.7 | -75.63 | | 32.8 | -1,142.5 | 644.5 | 501.2 | 143.22 | 4.500 | |
| 6,800.0 | 6,473.5 | 6,464.5 | 6,464.5 | 19.8 | 129.3 | -82.44 | | 32.8 | -1,142.5 | 595.2 | 449.3 | 145.90 | 4.080 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | North Platte E-A-28HC Pad Sec.28-T5N-R63W - Morgante 44-29U (Exist.) - Wellbore #1 - Wellbore #1 | | | Offset Site Error: | | 0.0 ft | |
|------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--|-------------------|--------------------|--------------------|--------|--------|--|
| Survey Program: 6600-UNKNOWN | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | | |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | | |
| 6,900.0 | 6,498.0 | 6,489.0 | 6,489.0 | 19.4 | 129.8 | -86.50 | 32.8 | -1,142.5 | 557.7 | 410.6 | 147.10 | 3.791 | | | | |
| 7,000.0 | 6,507.0 | 6,498.0 | 6,498.0 | 19.1 | 130.0 | -90.00 | 32.8 | -1,142.5 | 534.9 | 387.4 | 147.58 | 3.625 | | | | |
| 7,075.3 | 6,507.0 | 6,498.0 | 6,498.0 | 18.9 | 130.0 | -90.00 | 32.8 | -1,142.5 | 529.6 | 381.7 | 147.89 | 3.581 | CC, ES, SF | | | |
| 7,100.0 | 6,507.0 | 6,498.0 | 6,498.0 | 18.8 | 130.0 | -90.00 | 32.8 | -1,142.5 | 530.2 | 382.2 | 147.98 | 3.583 | | | | |
| 7,200.0 | 6,507.0 | 6,498.0 | 6,498.0 | 18.7 | 130.0 | -90.00 | 32.8 | -1,142.5 | 544.1 | 395.5 | 148.58 | 3.662 | | | | |
| 7,300.0 | 6,507.0 | 6,498.0 | 6,498.0 | 19.4 | 130.0 | -90.00 | 32.8 | -1,142.5 | 575.3 | 426.0 | 149.34 | 3.852 | | | | |
| 7,400.0 | 6,507.0 | 6,498.0 | 6,498.0 | 20.5 | 130.0 | -90.00 | 32.8 | -1,142.5 | 621.2 | 471.0 | 150.26 | 4.134 | | | | |
| 7,500.0 | 6,507.0 | 6,498.0 | 6,498.0 | 21.6 | 130.0 | -90.00 | 32.8 | -1,142.5 | 678.9 | 527.6 | 151.32 | 4.487 | | | | |
| 7,600.0 | 6,507.0 | 6,498.0 | 6,498.0 | 22.9 | 130.0 | -90.00 | 32.8 | -1,142.5 | 745.5 | 593.1 | 152.48 | 4.889 | | | | |
| 7,700.0 | 6,507.0 | 6,498.0 | 6,498.0 | 24.2 | 130.0 | -90.00 | 32.8 | -1,142.5 | 819.0 | 665.3 | 153.75 | 5.327 | | | | |
| 7,800.0 | 6,507.0 | 6,498.0 | 6,498.0 | 25.6 | 130.0 | -90.00 | 32.8 | -1,142.5 | 897.6 | 742.5 | 155.10 | 5.787 | | | | |
| 7,900.0 | 6,507.0 | 6,498.0 | 6,498.0 | 27.1 | 130.0 | -90.00 | 32.8 | -1,142.5 | 980.1 | 823.6 | 156.52 | 6.262 | | | | |

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design | | Peterson 14-28 Pad Sec.28-T5N-R63W - North Platte J-F-28HZ - Wellbore #1 - Wellbore #1 | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|-------------------------|---------------------|--|---------------------|-----------------|-------------|-----------------------|------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|--|
| Survey Program: 472-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Distance | | Minimum Separation (ft) | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -63.31 | 18.2 | -36.2 | 40.7 | | | | | |
| 100.0 | 100.0 | 96.0 | 96.0 | 0.1 | 0.1 | -63.28 | 18.2 | -36.2 | 40.5 | 40.3 | 0.22 | 183.968 | | |
| 200.0 | 200.0 | 196.0 | 196.0 | 0.3 | 0.2 | -63.21 | 18.3 | -36.2 | 40.5 | 40.0 | 0.56 | 72.723 | | |
| 300.0 | 300.0 | 296.0 | 296.0 | 0.5 | 0.3 | 80.54 | 18.4 | -36.1 | 40.2 | 39.3 | 0.87 | 46.013 | | |
| 400.0 | 399.8 | 395.8 | 395.8 | 0.8 | 0.4 | 88.20 | 18.5 | -36.1 | 39.7 | 38.5 | 1.20 | 33.157 | | |
| 415.2 | 415.0 | 411.0 | 411.0 | 0.8 | 0.5 | 89.81 | 18.5 | -36.1 | 39.7 | 38.4 | 1.25 | 31.700 CC, ES | | |
| 500.0 | 499.5 | 495.7 | 495.7 | 1.0 | 0.6 | 100.83 | 18.5 | -35.9 | 40.3 | 38.8 | 1.58 | 25.538 | | |
| 600.0 | 598.7 | 596.1 | 596.1 | 1.3 | 0.8 | 116.75 | 16.6 | -34.9 | 42.1 | 40.0 | 2.06 | 20.460 | | |
| 700.0 | 697.5 | 696.0 | 695.9 | 1.6 | 1.0 | 133.62 | 12.8 | -33.4 | 47.2 | 44.7 | 2.52 | 18.701 SF | | |
| 800.0 | 795.6 | 796.3 | 796.0 | 2.0 | 1.2 | 149.79 | 6.2 | -30.8 | 55.6 | 52.7 | 2.97 | 18.727 | | |
| 900.0 | 893.6 | 896.2 | 895.3 | 2.4 | 1.5 | 163.43 | -3.7 | -26.9 | 65.6 | 62.2 | 3.41 | 19.235 | | |
| 1,000.0 | 991.6 | 996.1 | 994.2 | 2.9 | 1.8 | 174.94 | -16.1 | -21.6 | 76.8 | 72.9 | 3.91 | 19.664 | | |
| 1,100.0 | 1,089.6 | 1,095.6 | 1,092.4 | 3.3 | 2.1 | -175.23 | -31.3 | -15.8 | 88.4 | 83.9 | 4.50 | 19.667 | | |
| 1,200.0 | 1,187.6 | 1,193.9 | 1,188.9 | 3.7 | 2.5 | -166.31 | -48.7 | -8.6 | 101.7 | 96.5 | 5.21 | 19.535 | | |
| 1,300.0 | 1,285.7 | 1,291.3 | 1,283.8 | 4.2 | 2.9 | -158.18 | -68.2 | 0.2 | 117.2 | 111.1 | 6.03 | 19.416 | | |
| 1,400.0 | 1,383.7 | 1,388.1 | 1,377.8 | 4.6 | 3.4 | -151.11 | -89.3 | 10.4 | 135.0 | 128.1 | 6.94 | 19.458 | | |
| 1,500.0 | 1,481.7 | 1,484.7 | 1,471.4 | 5.0 | 3.8 | -145.55 | -110.6 | 20.9 | 154.7 | 146.9 | 7.83 | 19.751 | | |
| 1,600.0 | 1,579.7 | 1,582.5 | 1,566.2 | 5.5 | 4.3 | -141.17 | -132.4 | 31.6 | 175.6 | 166.9 | 8.70 | 20.182 | | |
| 1,700.0 | 1,677.7 | 1,678.3 | 1,658.9 | 5.9 | 4.7 | -137.65 | -154.1 | 42.1 | 197.1 | 187.5 | 9.57 | 20.592 | | |
| 1,800.0 | 1,775.7 | 1,773.7 | 1,751.5 | 6.4 | 5.1 | -135.19 | -174.4 | 53.1 | 219.9 | 209.5 | 10.40 | 21.158 | | |
| 1,900.0 | 1,873.7 | 1,868.4 | 1,843.8 | 6.8 | 5.5 | -133.80 | -192.0 | 64.6 | 243.8 | 232.7 | 11.15 | 21.871 | | |
| 2,000.0 | 1,971.7 | 1,967.2 | 1,940.1 | 7.3 | 5.9 | -132.59 | -210.4 | 76.6 | 268.0 | 256.1 | 11.93 | 22.459 | | |
| 2,100.0 | 2,069.7 | 2,066.2 | 2,036.5 | 7.7 | 6.4 | -131.40 | -229.9 | 88.0 | 291.5 | 278.8 | 12.73 | 22.900 | | |
| 2,200.0 | 2,167.7 | 2,164.9 | 2,132.7 | 8.2 | 6.8 | -130.39 | -249.2 | 98.8 | 314.6 | 301.1 | 13.51 | 23.290 | | |
| 2,300.0 | 2,265.7 | 2,263.6 | 2,229.0 | 8.6 | 7.2 | -129.67 | -267.8 | 109.2 | 337.3 | 323.0 | 14.26 | 23.658 | | |
| 2,400.0 | 2,363.7 | 2,363.9 | 2,327.2 | 9.0 | 7.6 | -129.09 | -286.4 | 119.0 | 359.4 | 344.4 | 15.02 | 23.924 | | |
| 2,500.0 | 2,461.7 | 2,463.3 | 2,424.3 | 9.5 | 8.0 | -128.50 | -305.3 | 128.1 | 380.9 | 365.0 | 15.81 | 24.088 | | |
| 2,600.0 | 2,559.7 | 2,559.9 | 2,518.4 | 9.9 | 8.5 | -127.77 | -325.2 | 136.7 | 402.1 | 385.5 | 16.63 | 24.184 | | |
| 2,700.0 | 2,657.7 | 2,654.1 | 2,609.7 | 10.4 | 8.9 | -126.79 | -346.9 | 145.8 | 424.2 | 406.7 | 17.48 | 24.270 | | |
| 2,800.0 | 2,755.7 | 2,751.8 | 2,703.8 | 10.8 | 9.4 | -125.67 | -371.0 | 155.4 | 446.8 | 428.4 | 18.36 | 24.340 | | |
| 2,900.0 | 2,853.7 | 2,847.1 | 2,795.8 | 11.3 | 9.9 | -124.69 | -394.4 | 164.6 | 469.3 | 450.1 | 19.20 | 24.437 | | |
| 3,000.0 | 2,951.7 | 2,943.1 | 2,888.3 | 11.7 | 10.4 | -123.83 | -417.8 | 174.7 | 492.6 | 472.6 | 20.04 | 24.582 | | |
| 3,100.0 | 3,049.7 | 3,043.1 | 2,985.2 | 12.2 | 10.8 | -123.19 | -440.5 | 184.8 | 515.7 | 494.8 | 20.86 | 24.718 | | |
| 3,200.0 | 3,147.7 | 3,138.2 | 3,078.0 | 12.6 | 11.3 | -122.99 | -459.0 | 194.6 | 538.5 | 516.9 | 21.63 | 24.898 | | |
| 3,300.0 | 3,245.7 | 3,238.3 | 3,175.6 | 13.1 | 11.7 | -122.82 | -478.2 | 205.2 | 561.7 | 539.3 | 22.42 | 25.058 | | |
| 3,400.0 | 3,343.7 | 3,341.4 | 3,276.2 | 13.5 | 12.1 | -122.61 | -498.5 | 215.1 | 583.9 | 560.7 | 23.22 | 25.149 | | |
| 3,500.0 | 3,441.7 | 3,442.7 | 3,375.0 | 14.0 | 12.6 | -122.34 | -519.0 | 223.9 | 605.3 | 581.3 | 24.03 | 25.192 | | |
| 3,600.0 | 3,539.7 | 3,533.1 | 3,462.7 | 14.4 | 13.0 | -121.95 | -539.2 | 231.8 | 627.0 | 602.2 | 24.84 | 25.246 | | |
| 3,700.0 | 3,637.7 | 3,623.6 | 3,550.2 | 14.9 | 13.5 | -121.46 | -560.8 | 240.6 | 649.9 | 624.2 | 25.67 | 25.321 | | |
| 3,800.0 | 3,735.7 | 3,721.3 | 3,644.4 | 15.3 | 14.0 | -120.90 | -584.9 | 250.5 | 673.4 | 646.8 | 26.54 | 25.375 | | |
| 3,900.0 | 3,833.7 | 3,823.0 | 3,742.4 | 15.7 | 14.5 | -120.32 | -610.2 | 260.4 | 696.5 | 669.1 | 27.42 | 25.404 | | |
| 4,000.0 | 3,931.7 | 3,913.5 | 3,829.5 | 16.2 | 15.0 | -119.84 | -632.8 | 269.2 | 719.7 | 691.5 | 28.24 | 25.486 | | |
| 4,100.0 | 4,029.7 | 4,009.0 | 3,921.8 | 16.6 | 15.5 | -119.44 | -655.8 | 279.3 | 743.6 | 714.5 | 29.07 | 25.581 | | |
| 4,200.0 | 4,127.7 | 4,116.4 | 4,025.8 | 17.1 | 16.0 | -119.17 | -679.7 | 290.1 | 766.8 | 736.9 | 29.91 | 25.636 | | |
| 4,300.0 | 4,225.7 | 4,209.2 | 4,115.9 | 17.5 | 16.4 | -118.98 | -699.9 | 299.4 | 789.8 | 759.1 | 30.70 | 25.726 | | |
| 4,400.0 | 4,323.7 | 4,306.3 | 4,210.3 | 18.0 | 16.8 | -118.84 | -720.5 | 309.4 | 813.0 | 781.5 | 31.49 | 25.814 | | |
| 4,500.0 | 4,421.7 | 4,408.2 | 4,309.8 | 18.4 | 17.3 | -118.89 | -739.3 | 320.3 | 836.2 | 803.9 | 32.27 | 25.912 | | |
| 4,600.0 | 4,519.7 | 4,529.4 | 4,428.7 | 18.9 | 17.7 | -119.02 | -760.5 | 331.0 | 857.4 | 824.3 | 33.11 | 25.898 | | |
| 4,700.0 | 4,617.7 | 4,627.1 | 4,524.5 | 19.3 | 18.1 | -119.04 | -778.4 | 337.9 | 877.1 | 843.2 | 33.88 | 25.891 | | |
| 4,800.0 | 4,715.7 | 4,712.2 | 4,607.8 | 19.8 | 18.5 | -119.07 | -794.0 | 344.8 | 897.8 | 863.2 | 34.60 | 25.945 | | |
| 4,900.0 | 4,813.7 | 4,806.9 | 4,700.5 | 20.2 | 18.9 | -119.10 | -811.6 | 353.7 | 919.7 | 884.4 | 35.36 | 26.007 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design Peterson 14-28 Pad Sec.28-T5N-R63W - North Platte J-F-28HZ - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 472-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 5,000.0 | 4,911.7 | 4,920.7 | 4,812.1 | 20.7 | 19.3 | -119.20 | -831.5 | 363.5 | 940.7 | 904.5 | 36.17 | 26.007 | |
| 5,100.0 | 5,009.7 | 5,038.1 | 4,927.9 | 21.1 | 19.7 | -119.50 | -848.5 | 371.8 | 959.8 | 922.8 | 36.95 | 25.978 | |
| 5,200.0 | 5,107.9 | 5,150.2 | 5,039.1 | 21.5 | 20.1 | -120.10 | -861.7 | 378.2 | 976.6 | 938.9 | 37.65 | 25.938 | |
| 5,300.0 | 5,206.7 | 5,253.6 | 5,141.9 | 21.8 | 20.4 | -120.62 | -871.8 | 383.5 | 990.9 | 952.7 | 38.20 | 25.940 | |

| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Peterson 14-28 Pad Sec.28-T5N-R63W - Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 6640-UNKNOWN | | | | | | | | | | | | | |
| Reference | | | | Offset | | | Semi Major Axis | | Distance | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -41.99 | 61.9 | -55.7 | 83.3 | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 2.0 | -41.99 | 61.9 | -55.7 | 83.3 | 81.2 | 2.09 | 39.814 | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 4.0 | -41.99 | 61.9 | -55.7 | 83.3 | 79.0 | 4.32 | 19.298 CC | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 6.0 | 100.37 | 61.9 | -55.7 | 83.6 | 77.1 | 6.52 | 12.822 | |
| 400.0 | 399.8 | 398.8 | 398.8 | 0.8 | 8.0 | 103.83 | 61.9 | -55.7 | 84.7 | 76.0 | 8.73 | 9.705 ES | |
| 500.0 | 499.5 | 498.5 | 498.5 | 1.0 | 10.0 | 109.33 | 61.9 | -55.7 | 87.2 | 76.2 | 10.96 | 7.958 | |
| 600.0 | 598.7 | 597.7 | 597.7 | 1.3 | 12.0 | 116.38 | 61.9 | -55.7 | 92.0 | 78.8 | 13.20 | 6.968 | |
| 700.0 | 697.5 | 696.5 | 696.5 | 1.6 | 13.9 | 124.24 | 61.9 | -55.7 | 100.0 | 84.5 | 15.42 | 6.481 | |
| 800.0 | 795.6 | 794.6 | 794.6 | 2.0 | 15.9 | 132.09 | 61.9 | -55.7 | 111.8 | 94.2 | 17.61 | 6.350 | |
| 900.0 | 893.6 | 892.6 | 892.6 | 2.4 | 17.9 | 138.75 | 61.9 | -55.7 | 126.2 | 106.4 | 19.80 | 6.373 | |
| 1,000.0 | 991.6 | 990.6 | 990.6 | 2.9 | 19.8 | 144.02 | 61.9 | -55.7 | 141.9 | 119.9 | 21.97 | 6.456 | |
| 1,100.0 | 1,089.6 | 1,088.6 | 1,088.6 | 3.3 | 21.8 | 148.23 | 61.9 | -55.7 | 158.5 | 134.4 | 24.14 | 6.566 | |
| 1,200.0 | 1,187.6 | 1,186.6 | 1,186.6 | 3.7 | 23.7 | 151.63 | 61.9 | -55.7 | 175.8 | 149.5 | 26.30 | 6.684 | |
| 1,300.0 | 1,285.7 | 1,284.7 | 1,284.7 | 4.2 | 25.7 | 154.42 | 61.9 | -55.7 | 193.6 | 165.1 | 28.47 | 6.801 | |
| 1,400.0 | 1,383.7 | 1,382.7 | 1,382.7 | 4.6 | 27.7 | 156.73 | 61.9 | -55.7 | 211.8 | 181.2 | 30.63 | 6.915 | |
| 1,500.0 | 1,481.7 | 1,480.7 | 1,480.7 | 5.0 | 29.6 | 158.68 | 61.9 | -55.7 | 230.3 | 197.5 | 32.79 | 7.021 | |
| 1,600.0 | 1,579.7 | 1,578.7 | 1,578.7 | 5.5 | 31.6 | 160.35 | 61.9 | -55.7 | 248.9 | 214.0 | 34.96 | 7.121 | |
| 1,700.0 | 1,677.7 | 1,676.7 | 1,676.7 | 5.9 | 33.5 | 161.77 | 61.9 | -55.7 | 267.8 | 230.7 | 37.13 | 7.213 | |
| 1,800.0 | 1,775.7 | 1,774.7 | 1,774.7 | 6.4 | 35.5 | 163.02 | 61.9 | -55.7 | 286.8 | 247.5 | 39.30 | 7.298 | |
| 1,900.0 | 1,873.7 | 1,872.7 | 1,872.7 | 6.8 | 37.5 | 164.10 | 61.9 | -55.7 | 305.9 | 264.5 | 41.47 | 7.377 | |
| 2,000.0 | 1,971.7 | 1,970.7 | 1,970.7 | 7.3 | 39.4 | 165.06 | 61.9 | -55.7 | 325.1 | 281.5 | 43.64 | 7.450 | |
| 2,100.0 | 2,069.7 | 2,068.7 | 2,068.7 | 7.7 | 41.4 | 165.91 | 61.9 | -55.7 | 344.4 | 298.6 | 45.81 | 7.518 | |
| 2,200.0 | 2,167.7 | 2,166.7 | 2,166.7 | 8.2 | 43.3 | 166.68 | 61.9 | -55.7 | 363.8 | 315.8 | 47.99 | 7.581 | |
| 2,300.0 | 2,265.7 | 2,264.7 | 2,264.7 | 8.6 | 45.3 | 167.36 | 61.9 | -55.7 | 383.2 | 333.0 | 50.16 | 7.639 | |
| 2,400.0 | 2,363.7 | 2,362.7 | 2,362.7 | 9.0 | 47.3 | 167.98 | 61.9 | -55.7 | 402.6 | 350.3 | 52.34 | 7.693 | |
| 2,500.0 | 2,461.7 | 2,460.7 | 2,460.7 | 9.5 | 49.2 | 168.54 | 61.9 | -55.7 | 422.1 | 367.6 | 54.51 | 7.744 | |
| 2,600.0 | 2,559.7 | 2,558.7 | 2,558.7 | 9.9 | 51.2 | 169.05 | 61.9 | -55.7 | 441.7 | 385.0 | 56.69 | 7.791 | |
| 2,700.0 | 2,657.7 | 2,656.7 | 2,656.7 | 10.4 | 53.1 | 169.52 | 61.9 | -55.7 | 461.2 | 402.4 | 58.87 | 7.835 | |
| 2,800.0 | 2,755.7 | 2,754.7 | 2,754.7 | 10.8 | 55.1 | 169.95 | 61.9 | -55.7 | 480.8 | 419.8 | 61.05 | 7.876 | |
| 2,900.0 | 2,853.7 | 2,852.7 | 2,852.7 | 11.3 | 57.1 | 170.35 | 61.9 | -55.7 | 500.4 | 437.2 | 63.22 | 7.915 | |
| 3,000.0 | 2,951.7 | 2,950.7 | 2,950.7 | 11.7 | 59.0 | 170.72 | 61.9 | -55.7 | 520.1 | 454.7 | 65.40 | 7.952 | |
| 3,100.0 | 3,049.7 | 3,048.7 | 3,048.7 | 12.2 | 61.0 | 171.06 | 61.9 | -55.7 | 539.7 | 472.1 | 67.58 | 7.986 | |
| 3,200.0 | 3,147.7 | 3,146.7 | 3,146.7 | 12.6 | 62.9 | 171.38 | 61.9 | -55.7 | 559.4 | 489.6 | 69.76 | 8.018 | |
| 3,300.0 | 3,245.7 | 3,244.7 | 3,244.7 | 13.1 | 64.9 | 171.67 | 61.9 | -55.7 | 579.1 | 507.1 | 71.95 | 8.049 | |
| 3,400.0 | 3,343.7 | 3,342.7 | 3,342.7 | 13.5 | 66.9 | 171.95 | 61.9 | -55.7 | 598.8 | 524.7 | 74.13 | 8.078 | |
| 3,500.0 | 3,441.7 | 3,440.7 | 3,440.7 | 14.0 | 68.8 | 172.20 | 61.9 | -55.7 | 618.5 | 542.2 | 76.31 | 8.105 | |
| 3,600.0 | 3,539.7 | 3,538.7 | 3,538.7 | 14.4 | 70.8 | 172.45 | 61.9 | -55.7 | 638.2 | 559.7 | 78.49 | 8.131 | |
| 3,700.0 | 3,637.7 | 3,636.7 | 3,636.7 | 14.9 | 72.7 | 172.67 | 61.9 | -55.7 | 658.0 | 577.3 | 80.67 | 8.156 | |
| 3,800.0 | 3,735.7 | 3,734.7 | 3,734.7 | 15.3 | 74.7 | 172.89 | 61.9 | -55.7 | 677.7 | 594.9 | 82.85 | 8.180 | |
| 3,900.0 | 3,833.7 | 3,832.7 | 3,832.7 | 15.7 | 76.7 | 173.09 | 61.9 | -55.7 | 697.5 | 612.4 | 85.04 | 8.202 | |
| 4,000.0 | 3,931.7 | 3,930.7 | 3,930.7 | 16.2 | 78.6 | 173.28 | 61.9 | -55.7 | 717.2 | 630.0 | 87.22 | 8.223 | |
| 4,100.0 | 4,029.7 | 4,028.7 | 4,028.7 | 16.6 | 80.6 | 173.46 | 61.9 | -55.7 | 737.0 | 647.6 | 89.40 | 8.244 | |
| 4,200.0 | 4,127.7 | 4,126.7 | 4,126.7 | 17.1 | 82.5 | 173.63 | 61.9 | -55.7 | 756.8 | 665.2 | 91.58 | 8.263 | |
| 4,300.0 | 4,225.7 | 4,224.7 | 4,224.7 | 17.5 | 84.5 | 173.80 | 61.9 | -55.7 | 776.5 | 682.8 | 93.77 | 8.282 | |
| 4,400.0 | 4,323.7 | 4,322.7 | 4,322.7 | 18.0 | 86.5 | 173.95 | 61.9 | -55.7 | 796.3 | 700.4 | 95.95 | 8.300 | |
| 4,500.0 | 4,421.7 | 4,420.7 | 4,420.7 | 18.4 | 88.4 | 174.10 | 61.9 | -55.7 | 816.1 | 718.0 | 98.13 | 8.317 | |
| 4,600.0 | 4,519.7 | 4,518.7 | 4,518.7 | 18.9 | 90.4 | 174.24 | 61.9 | -55.7 | 835.9 | 735.6 | 100.32 | 8.333 | |
| 4,700.0 | 4,617.7 | 4,616.7 | 4,616.7 | 19.3 | 92.3 | 174.37 | 61.9 | -55.7 | 855.7 | 753.2 | 102.50 | 8.349 | |
| 4,800.0 | 4,715.7 | 4,714.7 | 4,714.7 | 19.8 | 94.3 | 174.50 | 61.9 | -55.7 | 875.5 | 770.9 | 104.68 | 8.364 | |
| 4,900.0 | 4,813.7 | 4,812.7 | 4,812.7 | 20.2 | 96.3 | 174.62 | 61.9 | -55.7 | 895.3 | 788.5 | 106.87 | 8.378 | |
| 5,000.0 | 4,911.7 | 4,910.7 | 4,910.7 | 20.7 | 98.2 | 174.74 | 61.9 | -55.7 | 915.2 | 806.1 | 109.05 | 8.392 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

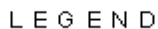
| | | | |
|---------------------------|--|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well North Platte E-A-28HC |
| Project: | SEC.28-T5N-R63W | TVD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Reference Site: | North Platte E-A-28HC Pad Sec.28-T5N-R63W | MD Reference: | WELL @ 4567.0ft (Ensign 7 RKB - 16') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | North Platte E-A-28HC | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #3 (7-26-13) | Offset TVD Reference: | Offset Datum |

| Offset Design Peterson 14-28 Pad Sec.28-T5N-R63W - Peterson 14-28 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 6640-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 5,100.0 | 5,009.7 | 5,008.7 | 5,008.7 | 21.1 | 100.2 | 174.85 | 61.9 | -55.7 | 935.0 | 823.7 | 111.24 | 8.405 | |
| 5,200.0 | 5,107.9 | 5,106.9 | 5,106.9 | 21.5 | 102.1 | 174.98 | 61.9 | -55.7 | 953.7 | 839.8 | 113.92 | 8.372 | |
| 5,300.0 | 5,206.7 | 5,205.7 | 5,205.7 | 21.8 | 104.1 | 175.09 | 61.9 | -55.7 | 969.1 | 852.5 | 116.61 | 8.311 | |
| 5,400.0 | 5,305.9 | 5,304.9 | 5,304.9 | 22.0 | 106.1 | 175.17 | 61.9 | -55.7 | 981.1 | 861.9 | 119.19 | 8.231 | |
| 5,500.0 | 5,405.6 | 5,404.6 | 5,404.6 | 22.2 | 108.1 | 175.22 | 61.9 | -55.7 | 989.6 | 868.0 | 121.63 | 8.136 | |
| 5,600.0 | 5,505.4 | 5,504.4 | 5,504.4 | 22.3 | 110.1 | 175.25 | 61.9 | -55.7 | 994.6 | 870.7 | 123.93 | 8.026 | |
| 5,700.0 | 5,605.4 | 5,604.4 | 5,604.4 | 22.4 | 112.1 | 34.08 | 61.9 | -55.7 | 996.2 | 870.1 | 126.10 | 7.900 | |
| 5,800.0 | 5,705.4 | 5,704.4 | 5,704.4 | 22.5 | 114.1 | 34.08 | 61.9 | -55.7 | 996.2 | 867.9 | 128.25 | 7.767 | |
| 5,900.0 | 5,805.3 | 5,804.3 | 5,804.3 | 22.6 | 116.1 | 34.28 | 61.9 | -55.7 | 992.7 | 863.0 | 129.73 | 7.653 | |
| 6,000.0 | 5,903.8 | 5,902.8 | 5,902.8 | 22.5 | 118.1 | 35.44 | 61.9 | -55.7 | 978.8 | 849.2 | 129.66 | 7.549 | |
| 6,100.0 | 5,999.2 | 5,998.2 | 5,998.2 | 22.4 | 120.0 | 37.58 | 61.9 | -55.7 | 954.7 | 826.3 | 128.37 | 7.437 | |
| 6,200.0 | 6,090.0 | 6,089.0 | 6,089.0 | 22.1 | 121.8 | 40.82 | 61.9 | -55.7 | 921.1 | 794.5 | 126.54 | 7.279 | |
| 6,300.0 | 6,176.3 | 6,175.3 | 6,175.3 | 21.8 | 123.5 | 43.51 | 61.9 | -55.7 | 881.3 | 753.6 | 127.69 | 6.902 | |
| 6,400.0 | 6,261.3 | 6,260.3 | 6,260.3 | 21.5 | 125.2 | 47.28 | 61.9 | -55.7 | 841.3 | 713.1 | 128.22 | 6.561 | |
| 6,500.0 | 6,336.9 | 6,335.9 | 6,335.9 | 21.1 | 126.7 | 54.98 | 61.9 | -55.7 | 793.6 | 664.7 | 128.84 | 6.159 | |
| 6,600.0 | 6,398.6 | 6,397.6 | 6,397.6 | 20.7 | 128.0 | 64.75 | 61.9 | -55.7 | 739.7 | 605.5 | 134.25 | 5.510 | |
| 6,700.0 | 6,444.2 | 6,443.2 | 6,443.2 | 20.2 | 128.9 | 75.22 | 61.9 | -55.7 | 684.6 | 543.2 | 141.40 | 4.842 | |
| 6,800.0 | 6,473.5 | 6,472.5 | 6,472.5 | 19.8 | 129.5 | 82.01 | 61.9 | -55.7 | 633.8 | 488.7 | 145.11 | 4.368 | |
| 6,900.0 | 6,498.0 | 6,497.0 | 6,497.0 | 19.4 | 129.9 | 86.09 | 61.9 | -55.7 | 593.8 | 446.9 | 146.84 | 4.044 | |
| 7,000.0 | 6,507.0 | 6,506.0 | 6,506.0 | 19.1 | 130.1 | 90.00 | 61.9 | -55.7 | 567.1 | 419.4 | 147.74 | 3.838 | |
| 7,100.0 | 6,507.0 | 6,506.0 | 6,506.0 | 18.8 | 130.1 | 90.00 | 61.9 | -55.7 | 557.2 | 409.0 | 148.14 | 3.761 | |
| 7,105.9 | 6,507.0 | 6,506.0 | 6,506.0 | 18.8 | 130.1 | 90.00 | 61.9 | -55.7 | 557.1 | 408.9 | 148.18 | 3.760 SF | |
| 7,200.0 | 6,507.0 | 6,506.0 | 6,506.0 | 18.7 | 130.1 | 90.00 | 61.9 | -55.7 | 565.0 | 416.3 | 148.74 | 3.799 | |
| 7,300.0 | 6,507.0 | 6,506.0 | 6,506.0 | 19.4 | 130.1 | 90.00 | 61.9 | -55.7 | 590.0 | 440.5 | 149.50 | 3.946 | |
| 7,400.0 | 6,507.0 | 6,506.0 | 6,506.0 | 20.5 | 130.1 | 90.00 | 61.9 | -55.7 | 630.0 | 479.6 | 150.42 | 4.188 | |
| 7,500.0 | 6,507.0 | 6,506.0 | 6,506.0 | 21.6 | 130.1 | 90.00 | 61.9 | -55.7 | 682.4 | 531.0 | 151.48 | 4.505 | |
| 7,600.0 | 6,507.0 | 6,506.0 | 6,506.0 | 22.9 | 130.1 | 90.00 | 61.9 | -55.7 | 744.7 | 592.0 | 152.64 | 4.878 | |
| 7,700.0 | 6,507.0 | 6,506.0 | 6,506.0 | 24.2 | 130.1 | 90.00 | 61.9 | -55.7 | 814.5 | 660.6 | 153.91 | 5.292 | |
| 7,800.0 | 6,507.0 | 6,506.0 | 6,506.0 | 25.6 | 130.1 | 90.00 | 61.9 | -55.7 | 890.0 | 734.8 | 155.26 | 5.733 | |
| 7,900.0 | 6,507.0 | 6,506.0 | 6,506.0 | 27.1 | 130.1 | 90.00 | 61.9 | -55.7 | 970.0 | 813.4 | 156.68 | 6.191 | |

Reference Depths are relative to WELL @ 4567.0ft (Ensign 7 RKB - 16 Coordinates are relative to: North Platte E-A-28HC
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.68°



Reference Depths are relative to WELL @ 4567.0ft (Ensign 7 RKB - 16Coordinates are relative to: North Platte E-A-28HC
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.68°







on 14-28 (Exist.), Wellbore #1, Wellbore #1 V/D  Dow 13-28 (Exist.), Wellbore #1, Wellbore #1 V/D  Morgante 44-29U (Exist.), Wellbore #1,

Plate J-F-28HZ, Wellbore #1, Wellbore #1 V/D  Dow 12-28 (Exist.), Wellbore #1, Wellbore #1 V/D  Dow 1-29 (Exist.), Wellbore #1, Wellbore #1 V/D