

BONANZA CREEK ENERGY OPERATING

Well Name: **State Seventy Holes 34-31-6HNB**

Surface Location: State Seventy Holes T-6 Pad Sec.6-T4N-R62W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

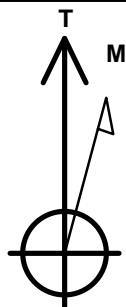
Ground Elevation: 4530.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1367073.65 | 3316961.94 | 40.335440 | -104.362990 | |

RKB - 13' WELL @ 4543.0ft (RKB - 13')

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|--------------------------------|--------|--------|---------|-------|
| SHL 410'FSL & 1134'FEL | 1.0 | 0.0 | 0.0 | Point |
| BHL 470'FNL & 1937'FEL | 6258.0 | 4492.0 | -1067.6 | Point |
| Landing Pt. 531'FSL & 1959'FEL | 6258.0 | 116.6 | -833.6 | Point |



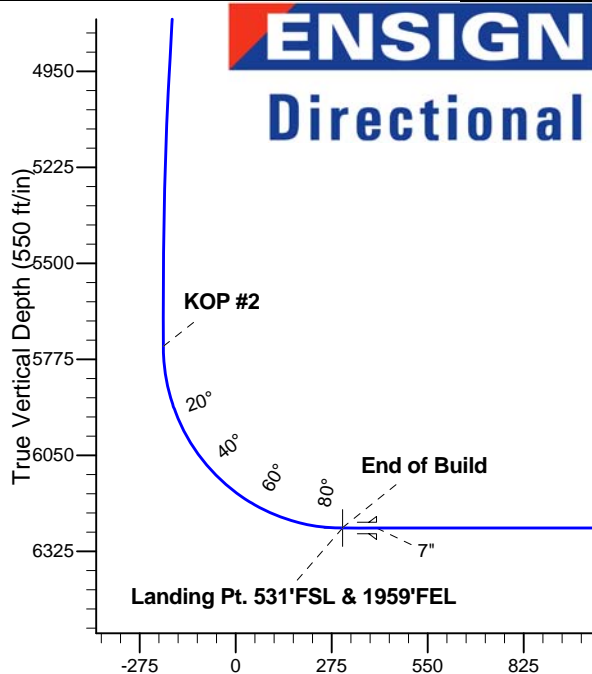
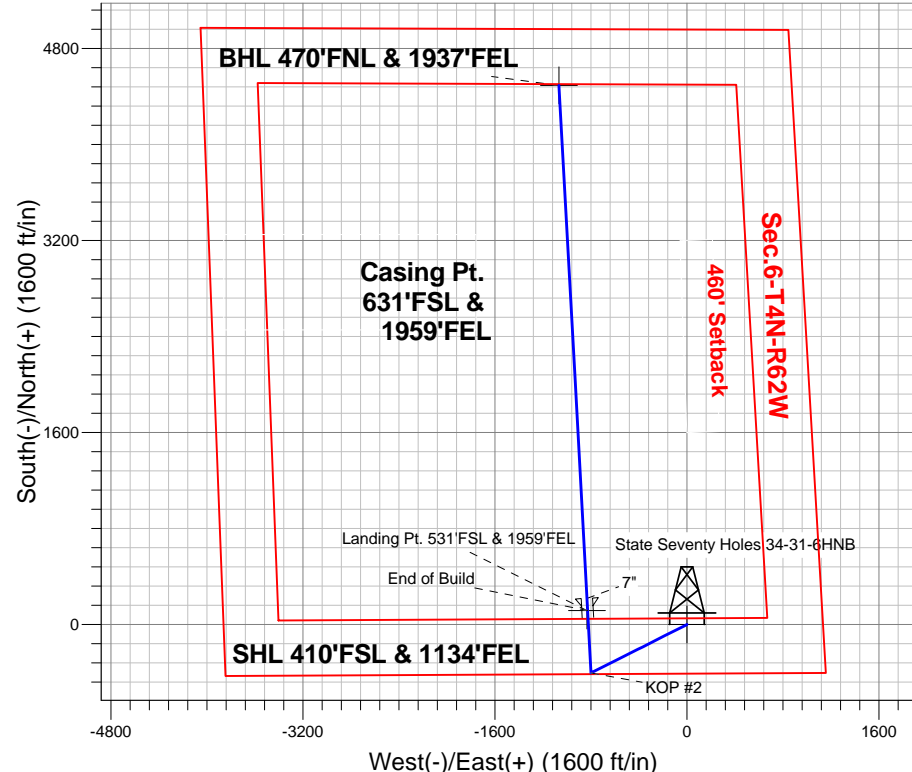
Azimuths to True North
Magnetic North: 8.36°

Magnetic Field
Strength: 52923.4snT
Dip Angle: 66.99°
Date: 7/12/2013
Model: IGRF2010

State Seventy Holes T-6 Pad Sec.6-T4N-R62W
State Seventy Holes 34-31-6HNB
Plan #1 (7-12-13)
8:20, July 19 2013

ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------|
| 1000.0 | 1000.0 | KOP #1 |
| 5737.1 | 5831.9 | KOP #2 |
| 6258.0 | 6650.1 | 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 | 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1637.4 | 12.75 | 243.24 | 1632.2 | -31.8 | -63.1 | 2.00 | 243.24 | -16.4 | |
| 4 | 5057.4 | 12.75 | 243.24 | 4967.8 | -371.6 | -736.9 | 0.00 | 0.00 | -191.1 | |
| 5 | 5694.8 | 0.00 | 0.00 | 5600.0 | -403.4 | -800.0 | 2.00 | 180.00 | -207.5 | |
| 6 | 5831.9 | 0.00 | 0.00 | 5737.1 | -403.4 | -800.0 | 0.00 | 0.00 | -207.5 | |
| 7 | 6650.1 | 90.00 | 356.90 | 6258.0 | 116.7 | -828.2 | 11.00 | 356.90 | 305.0 | |
| 8 | 6750.2 | 90.00 | 356.90 | 6258.0 | 216.6 | -833.6 | 0.00 | 0.00 | 403.5 | |
| 9 | 6753.2 | 90.00 | 356.87 | 6258.0 | 219.6 | -833.8 | 1.00 | -90.00 | 406.5 | |
| 10 | 11031.9 | 90.00 | 356.87 | 6258.0 | 4492.0 | -1067.6 | 0.00 | 0.00 | 4617.1 | BHL 470'FNL & 1937'FEL |

Vertical Section at 346.63° (550 ft/in)



Directional

BONANZA CREEK ENERGY OPERATING

SEC.6-T4N-R62W

State Seventy Holes T-6 Pad Sec.6-T4N-R62W

State Seventy Holes 34-31-6HNB

Wellbore #1

Plan: Plan #1 (7-12-13)

Standard Planning Report

18 July, 2013

| | | | |
|------------------|---|-------------------------------------|-------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Project: | SEC.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | North Reference: | True |
| Well: | State Seventy Holes 34-31-6HNB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-12-13) | | |

| | | | |
|--------------------|---------------------------------|----------------------|-----------------------------|
| Project | SEC.6-T4N-R62W, 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 | | | | | | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | | | | | | | | | | | |
|-----------------------|--|--|----------|--|--|--|--|--|-----------------|--|--|-------------------|--|--|-------------|--|--|
| Site Position: | | | | | | Northing: | | | 1,367,073.65 ft | | | Latitude: | | | 40.335440 | | |
| From: | | | Lat/Long | | | Easting: | | | 3,316,961.94 ft | | | Longitude: | | | -104.362990 | | |
| Position Uncertainty: | | | 0.0 ft | | | Slot Radius: | | | " | | | Grid Convergence: | | | 0.73 ° | | |

| Well | State Seventy Holes 34-31-6HNB | | | | | |
|----------------------|--------------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well Position | +N/-S | 0.0 ft | Northing: | 1,367,073.65 ft | Latitude: | 40.335440 |
| | +E/-W | 0.0 ft | Easting: | 3,316,961.94 ft | Longitude: | -104.362990 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,530.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 7/12/2013 | 8.36 | 66.99 | 52,923 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 (7-12-13) | | | |
| 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 | 346.63 |

| 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 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,637.4 | 12.75 | 243.24 | 1,632.2 | -31.8 | -63.1 | 2.00 | 2.00 | 0.00 | 243.24 | |
| 5,057.4 | 12.75 | 243.24 | 4,967.8 | -371.6 | -736.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,694.8 | 0.00 | 0.00 | 5,600.0 | -403.4 | -800.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 5,831.9 | 0.00 | 0.00 | 5,737.1 | -403.4 | -800.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,650.1 | 90.00 | 356.90 | 6,258.0 | 116.7 | -828.2 | 11.00 | 11.00 | 0.00 | 356.90 | |
| 6,750.2 | 90.00 | 356.90 | 6,258.0 | 216.6 | -833.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,753.2 | 90.00 | 356.87 | 6,258.0 | 219.6 | -833.8 | 1.00 | 0.00 | -1.00 | -90.00 | |
| 11,031.9 | 90.00 | 356.87 | 6,258.0 | 4,492.0 | -1,067.6 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 470'FNL & 195 |

| | | | |
|------------------|---|-------------------------------------|-------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Project: | SEC.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | North Reference: | True |
| Well: | State Seventy Holes 34-31-6HNB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-12-13) | | |

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 |
| 1.0 | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SHL 410'FSL & 1134'FEL | | | | | | | | | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP #1 | | | | | | | | | |
| 1,100.0 | 2.00 | 243.24 | 1,100.0 | -0.8 | -1.6 | -0.4 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 4.00 | 243.24 | 1,199.8 | -3.1 | -6.2 | -1.6 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 6.00 | 243.24 | 1,299.5 | -7.1 | -14.0 | -3.6 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 8.00 | 243.24 | 1,398.7 | -12.6 | -24.9 | -6.5 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 10.00 | 243.24 | 1,497.5 | -19.6 | -38.9 | -10.1 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 12.00 | 243.24 | 1,595.6 | -28.2 | -55.9 | -14.5 | 2.00 | 2.00 | 0.00 |
| 1,637.4 | 12.75 | 243.24 | 1,632.2 | -31.8 | -63.1 | -16.4 | 2.00 | 2.00 | 0.00 |
| 1,700.0 | 12.75 | 243.24 | 1,693.2 | -38.0 | -75.4 | -19.6 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 12.75 | 243.24 | 1,790.7 | -48.0 | -95.1 | -24.7 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 12.75 | 243.24 | 1,888.3 | -57.9 | -114.8 | -29.8 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 12.75 | 243.24 | 1,985.8 | -67.8 | -134.5 | -34.9 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 12.75 | 243.24 | 2,083.3 | -77.8 | -154.2 | -40.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 12.75 | 243.24 | 2,180.9 | -87.7 | -173.9 | -45.1 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 12.75 | 243.24 | 2,278.4 | -97.6 | -193.6 | -50.2 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 12.75 | 243.24 | 2,376.0 | -107.6 | -213.3 | -55.3 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 12.75 | 243.24 | 2,473.5 | -117.5 | -233.0 | -60.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 12.75 | 243.24 | 2,571.0 | -127.4 | -252.7 | -65.5 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 12.75 | 243.24 | 2,668.6 | -137.4 | -272.4 | -70.7 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 12.75 | 243.24 | 2,766.1 | -147.3 | -292.1 | -75.8 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 12.75 | 243.24 | 2,863.6 | -157.2 | -311.8 | -80.9 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 12.75 | 243.24 | 2,961.2 | -167.2 | -331.5 | -86.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 12.75 | 243.24 | 3,058.7 | -177.1 | -351.3 | -91.1 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 12.75 | 243.24 | 3,156.2 | -187.1 | -371.0 | -96.2 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 12.75 | 243.24 | 3,253.8 | -197.0 | -390.7 | -101.3 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 12.75 | 243.24 | 3,351.3 | -206.9 | -410.4 | -106.4 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 12.75 | 243.24 | 3,448.8 | -216.9 | -430.1 | -111.5 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 12.75 | 243.24 | 3,546.4 | -226.8 | -449.8 | -116.7 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 12.75 | 243.24 | 3,643.9 | -236.7 | -469.5 | -121.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 12.75 | 243.24 | 3,741.4 | -246.7 | -489.2 | -126.9 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 12.75 | 243.24 | 3,839.0 | -256.6 | -508.9 | -132.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 12.75 | 243.24 | 3,936.5 | -266.5 | -528.6 | -137.1 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 12.75 | 243.24 | 4,034.0 | -276.5 | -548.3 | -142.2 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 12.75 | 243.24 | 4,131.6 | -286.4 | -568.0 | -147.3 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 12.75 | 243.24 | 4,229.1 | -296.3 | -587.7 | -152.4 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 12.75 | 243.24 | 4,326.6 | -306.3 | -607.4 | -157.5 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 12.75 | 243.24 | 4,424.2 | -316.2 | -627.1 | -162.7 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 12.75 | 243.24 | 4,521.7 | -326.2 | -646.8 | -167.8 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 12.75 | 243.24 | 4,619.3 | -336.1 | -666.5 | -172.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 12.75 | 243.24 | 4,716.8 | -346.0 | -686.2 | -178.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---|-------------------------------------|-------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Project: | SEC.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | North Reference: | True |
| Well: | State Seventy Holes 34-31-6HNB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-12-13) | | |

| 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) |
| 4,900.0 | 12.75 | 243.24 | 4,814.3 | -356.0 | -705.9 | -183.1 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 12.75 | 243.24 | 4,911.9 | -365.9 | -725.6 | -188.2 | 0.00 | 0.00 | 0.00 |
| 5,057.4 | 12.75 | 243.24 | 4,967.8 | -371.6 | -736.9 | -191.1 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 11.90 | 243.24 | 5,009.5 | -375.7 | -745.1 | -193.2 | 2.00 | -2.00 | 0.00 |
| 5,200.0 | 9.90 | 243.24 | 5,107.7 | -384.2 | -761.9 | -197.6 | 2.00 | -2.00 | 0.00 |
| 5,300.0 | 7.90 | 243.24 | 5,206.4 | -391.2 | -775.7 | -201.2 | 2.00 | -2.00 | 0.00 |
| 5,400.0 | 5.90 | 243.24 | 5,305.7 | -396.6 | -786.5 | -204.0 | 2.00 | -2.00 | 0.00 |
| 5,500.0 | 3.90 | 243.24 | 5,405.3 | -400.4 | -794.1 | -206.0 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 1.90 | 243.24 | 5,505.2 | -402.7 | -798.6 | -207.1 | 2.00 | -2.00 | 0.00 |
| 5,694.8 | 0.00 | 0.00 | 5,600.0 | -403.4 | -800.0 | -207.5 | 2.00 | -2.00 | 0.00 |
| 5,700.0 | 0.00 | 0.00 | 5,605.2 | -403.4 | -800.0 | -207.5 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,705.2 | -403.4 | -800.0 | -207.5 | 0.00 | 0.00 | 0.00 |
| 5,831.9 | 0.00 | 0.00 | 5,737.1 | -403.4 | -800.0 | -207.5 | 0.00 | 0.00 | 0.00 |
| KOP #2 | | | | | | | | | |
| 5,900.0 | 7.49 | 356.90 | 5,805.0 | -399.0 | -800.2 | -203.1 | 10.99 | 10.99 | 0.00 |
| 6,000.0 | 18.49 | 356.90 | 5,902.3 | -376.6 | -801.5 | -181.0 | 11.00 | 11.00 | 0.00 |
| 6,100.0 | 29.49 | 356.90 | 5,993.5 | -336.0 | -803.7 | -141.1 | 11.00 | 11.00 | 0.00 |
| 6,200.0 | 40.49 | 356.90 | 6,075.3 | -278.9 | -806.7 | -84.8 | 11.00 | 11.00 | 0.00 |
| 6,300.0 | 51.49 | 356.90 | 6,144.7 | -207.2 | -810.6 | -14.1 | 11.00 | 11.00 | 0.00 |
| 6,400.0 | 62.49 | 356.90 | 6,199.1 | -123.6 | -815.2 | 68.3 | 11.00 | 11.00 | 0.00 |
| 6,500.0 | 73.49 | 356.90 | 6,236.5 | -31.1 | -820.2 | 159.4 | 11.00 | 11.00 | 0.00 |
| 6,600.0 | 84.49 | 356.90 | 6,255.6 | 66.7 | -825.5 | 255.8 | 11.00 | 11.00 | 0.00 |
| 6,650.1 | 90.00 | 356.90 | 6,258.0 | 116.7 | -828.2 | 305.0 | 11.00 | 11.00 | 0.00 |
| End of Build | | | | | | | | | |
| 6,650.3 | 90.00 | 356.90 | 6,258.0 | 116.9 | -828.2 | 305.2 | 0.00 | 0.00 | 0.00 |
| Landing Pt. 531'FSL & 1959'FEL | | | | | | | | | |
| 6,700.0 | 90.00 | 356.90 | 6,258.0 | 166.5 | -830.9 | 354.1 | 0.00 | 0.00 | 0.00 |
| 6,750.2 | 90.00 | 356.90 | 6,258.0 | 216.6 | -833.6 | 403.5 | 0.00 | 0.00 | 0.00 |
| 7" | | | | | | | | | |
| 6,753.2 | 90.00 | 356.87 | 6,258.0 | 219.6 | -833.8 | 406.5 | 1.01 | 0.00 | -1.01 |
| 6,800.0 | 90.00 | 356.87 | 6,258.0 | 266.4 | -836.3 | 452.5 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 90.00 | 356.87 | 6,258.0 | 366.2 | -841.8 | 550.9 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 90.00 | 356.87 | 6,258.0 | 466.1 | -847.3 | 649.3 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 90.00 | 356.87 | 6,258.0 | 565.9 | -852.7 | 747.8 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 90.00 | 356.87 | 6,258.0 | 665.8 | -858.2 | 846.2 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 90.00 | 356.87 | 6,258.0 | 765.6 | -863.6 | 944.6 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.00 | 356.87 | 6,258.0 | 865.5 | -869.1 | 1,043.0 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 90.00 | 356.87 | 6,258.0 | 965.3 | -874.6 | 1,141.4 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 356.87 | 6,258.0 | 1,065.2 | -880.0 | 1,239.8 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 356.87 | 6,258.0 | 1,165.0 | -885.5 | 1,338.2 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 356.87 | 6,258.0 | 1,264.9 | -891.0 | 1,436.6 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 356.87 | 6,258.0 | 1,364.7 | -896.4 | 1,535.0 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 356.87 | 6,258.0 | 1,464.6 | -901.9 | 1,633.4 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 356.87 | 6,258.0 | 1,564.4 | -907.4 | 1,731.8 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 356.87 | 6,258.0 | 1,664.3 | -912.8 | 1,830.2 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 356.87 | 6,258.0 | 1,764.1 | -918.3 | 1,928.7 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 356.87 | 6,258.0 | 1,864.0 | -923.8 | 2,027.1 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 356.87 | 6,258.0 | 1,963.8 | -929.2 | 2,125.5 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 356.87 | 6,258.0 | 2,063.7 | -934.7 | 2,223.9 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 356.87 | 6,258.0 | 2,163.5 | -940.1 | 2,322.3 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 356.87 | 6,258.0 | 2,263.4 | -945.6 | 2,420.7 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 356.87 | 6,258.0 | 2,363.2 | -951.1 | 2,519.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 356.87 | 6,258.0 | 2,463.1 | -956.5 | 2,617.5 | 0.00 | 0.00 | 0.00 |

| Casing Points | | | | | |
|---------------------|---------------------|----|------|---------------------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | | Name | Casing Diameter (") | Hole Diameter (") |
| 6,750.2 | 6,258.0 | 7" | | 7 | 7-1/2 |

| | | | |
|------------------|---|-------------------------------------|-------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Project: | SEC.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | North Reference: | True |
| Well: | State Seventy Holes 34-31-6HNB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-12-13) | | |

| Plan Annotations | | | | |
|---------------------------|---------------------------|-------------------|---------------|--------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 1,000.0 | 1,000.0 | 0.0 | 0.0 | KOP #1 |
| 5,831.9 | 5,737.1 | -403.4 | -800.0 | KOP #2 |
| 6,650.1 | 6,258.0 | 116.7 | -828.2 | End of Build |



Directional

BONANZA CREEK ENERGY OPERATING

SEC.6-T4N-R62W

State Seventy Holes T-6 Pad Sec.6-T4N-R62W

State Seventy Holes 34-31-6HNB

Wellbore #1

Plan #1 (7-12-13)

Anticollision Report

18 July, 2013

| | | | |
|---------------------------|---|-------------------------------------|-------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #1 (7-12-13) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | Stations | 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 7/16/2013 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 11,031.9 | Plan #1 (7-12-13) (Wellbore #1) | MWD | MWD - Standard |

| | | | | | | |
|--|--------------------------------------|-----------------------------------|--------------------------------------|------------------------------|--------------------------|----------------|
| Summary | | | | | | |
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| State Seventy Holes T-6 Pad Sec.6-T4N-R62W | | | | | | |
| State Seventy Holes O-K-6HNB - Wellbore #1 - Plan #1 | 200.0 | 200.0 | 21.9 | 21.2 | 32.417 | CC, ES |
| State Seventy Holes O-K-6HNB - Wellbore #1 - Plan #1 | 11,031.9 | 11,139.9 | 645.6 | 463.9 | 3.554 | SF |
| State Seventy Holes T-P-6HNB - Wellbore #1 - Plan #1 (| 1,000.0 | 1,000.0 | 18.4 | 14.2 | 4.315 | CC, ES |
| State Seventy Holes T-P-6HNB - Wellbore #1 - Plan #1 (| 11,031.9 | 10,952.0 | 713.6 | 532.5 | 3.941 | SF |

| Offset Design | | State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes O-K-6HNB - Wellbore #1 - Plan # | | | | | | | | | | Offset Site Error: | | 0.0 ft | | | |
|------------------------|---------------------|--|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|--------------------|--|--------|--|
| Survey Program: 0-MWVD | | | | | | | | | | | | | | 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) | +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 | -180.00 | -21.9 | 0.0 | 21.9 | | | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -180.00 | -21.9 | 0.0 | 21.9 | 21.6 | 0.22 | 97.250 | | | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -180.00 | -21.9 | 0.0 | 21.9 | 21.2 | 0.67 | 32.417 | CC, ES | | | | |
| 300.0 | 300.0 | 299.8 | 299.7 | 0.6 | 0.5 | -175.70 | -22.3 | -1.7 | 22.4 | 21.3 | 1.11 | 20.144 | | | | | |
| 400.0 | 400.0 | 399.3 | 399.1 | 0.8 | 0.8 | -164.18 | -23.6 | -6.7 | 24.6 | 23.0 | 1.55 | 15.817 | | | | | |
| 500.0 | 500.0 | 498.3 | 497.8 | 1.0 | 1.0 | -149.86 | -25.8 | -15.0 | 30.0 | 27.9 | 2.03 | 14.788 | | | | | |
| 600.0 | 600.0 | 596.7 | 595.4 | 1.2 | 1.3 | -137.46 | -28.9 | -26.5 | 39.5 | 36.9 | 2.54 | 15.562 | | | | | |
| 700.0 | 700.0 | 694.1 | 691.6 | 1.5 | 1.6 | -128.56 | -32.7 | -41.1 | 53.2 | 50.1 | 3.09 | 17.232 | | | | | |
| 800.0 | 800.0 | 790.3 | 786.2 | 1.7 | 2.0 | -122.55 | -37.4 | -58.6 | 70.9 | 67.2 | 3.68 | 19.266 | | | | | |
| 900.0 | 900.0 | 885.3 | 878.7 | 1.9 | 2.4 | -118.47 | -42.8 | -78.8 | 92.2 | 87.9 | 4.31 | 21.393 | | | | | |
| 1,000.0 | 1,000.0 | 978.7 | 969.1 | 2.1 | 2.9 | -115.65 | -48.8 | -101.7 | 116.9 | 111.9 | 4.98 | 23.482 | | | | | |
| 1,100.0 | 1,100.0 | 1,070.9 | 1,057.5 | 2.3 | 3.4 | 3.15 | -55.5 | -127.0 | 143.3 | 138.4 | 4.82 | 29.704 | | | | | |
| 1,200.0 | 1,199.8 | 1,164.1 | 1,146.0 | 2.5 | 4.0 | 4.77 | -63.0 | -155.2 | 169.3 | 164.0 | 5.27 | 32.126 | | | | | |
| 1,300.0 | 1,299.5 | 1,261.2 | 1,238.0 | 2.7 | 4.6 | 6.11 | -71.0 | -185.2 | 192.8 | 187.1 | 5.73 | 33.650 | | | | | |
| 1,400.0 | 1,398.7 | 1,359.0 | 1,330.7 | 3.0 | 5.3 | 7.27 | -79.0 | -215.5 | 213.0 | 206.8 | 6.19 | 34.383 | | | | | |
| 1,500.0 | 1,497.5 | 1,457.5 | 1,424.0 | 3.2 | 5.9 | 8.35 | -87.1 | -245.9 | 229.9 | 223.2 | 6.68 | 34.417 | | | | | |
| 1,600.0 | 1,595.6 | 1,556.4 | 1,517.8 | 3.6 | 6.6 | 9.41 | -95.2 | -276.6 | 243.4 | 236.2 | 7.18 | 33.917 | | | | | |
| 1,637.4 | 1,632.2 | 1,593.6 | 1,553.0 | 3.7 | 6.9 | 9.82 | -98.2 | -288.1 | 247.6 | 240.3 | 7.37 | 33.615 | | | | | |
| 1,700.0 | 1,693.2 | 1,655.7 | 1,611.8 | 3.9 | 7.3 | 10.50 | -103.3 | -307.3 | 254.3 | 246.6 | 7.70 | 33.012 | | | | | |
| 1,800.0 | 1,790.7 | 1,755.0 | 1,705.9 | 4.3 | 7.9 | 11.53 | -111.5 | -338.0 | 265.0 | 256.8 | 8.25 | 32.115 | | | | | |
| 1,900.0 | 1,888.3 | 1,854.4 | 1,800.0 | 4.7 | 8.6 | 12.47 | -119.6 | -368.7 | 275.8 | 267.0 | 8.82 | 31.292 | | | | | |
| 2,000.0 | 1,985.8 | 1,953.7 | 1,894.1 | 5.1 | 9.3 | 13.34 | -127.8 | -399.5 | 286.7 | 277.3 | 9.39 | 30.534 | | | | | |

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

| Offset Design | | State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes O-K-6HNB - Wellbore #1 - Plan # | | | | | | | | | | Offset Site Error: | | 0.0 ft |
|-----------------------|----------------|--|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|--------------------|---------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 2,100.0 | 2,083.3 | 2,053.0 | 1,988.2 | 5.6 | 10.0 | 14.15 | -135.9 | -430.2 | 297.7 | 287.7 | 9.98 | 29.836 | | |
| 2,200.0 | 2,180.9 | 2,152.3 | 2,082.3 | 6.0 | 10.6 | 14.90 | -144.1 | -460.9 | 308.7 | 298.1 | 10.57 | 29.191 | | |
| 2,300.0 | 2,278.4 | 2,251.6 | 2,176.4 | 6.4 | 11.3 | 15.60 | -152.2 | -491.6 | 319.7 | 308.5 | 11.18 | 28.593 | | |
| 2,400.0 | 2,376.0 | 2,350.9 | 2,270.5 | 6.9 | 12.0 | 16.25 | -160.4 | -522.4 | 330.8 | 319.0 | 11.80 | 28.039 | | |
| 2,500.0 | 2,473.5 | 2,450.3 | 2,364.6 | 7.3 | 12.7 | 16.86 | -168.5 | -553.1 | 341.9 | 329.5 | 12.42 | 27.523 | | |
| 2,600.0 | 2,571.0 | 2,549.6 | 2,458.6 | 7.8 | 13.4 | 17.44 | -176.6 | -583.8 | 353.1 | 340.0 | 13.06 | 27.044 | | |
| 2,700.0 | 2,668.6 | 2,648.9 | 2,552.7 | 8.3 | 14.0 | 17.97 | -184.8 | -614.5 | 364.3 | 350.6 | 13.70 | 26.596 | | |
| 2,800.0 | 2,766.1 | 2,748.2 | 2,646.8 | 8.7 | 14.7 | 18.48 | -192.9 | -645.3 | 375.5 | 361.2 | 14.34 | 26.179 | | |
| 2,900.0 | 2,863.6 | 2,847.5 | 2,740.9 | 9.2 | 15.4 | 18.95 | -201.1 | -676.0 | 386.8 | 371.8 | 15.00 | 25.788 | | |
| 3,000.0 | 2,961.2 | 2,946.8 | 2,835.0 | 9.7 | 16.1 | 19.40 | -209.2 | -706.7 | 398.0 | 382.4 | 15.66 | 25.422 | | |
| 3,100.0 | 3,058.7 | 3,046.1 | 2,929.1 | 10.2 | 16.8 | 19.82 | -217.4 | -737.5 | 409.4 | 393.0 | 16.32 | 25.079 | | |
| 3,200.0 | 3,156.2 | 3,145.5 | 3,023.2 | 10.6 | 17.4 | 20.23 | -225.5 | -768.2 | 420.7 | 403.7 | 16.99 | 24.756 | | |
| 3,300.0 | 3,253.8 | 3,244.8 | 3,117.3 | 11.1 | 18.1 | 20.61 | -233.7 | -798.9 | 432.0 | 414.3 | 17.67 | 24.453 | | |
| 3,400.0 | 3,351.3 | 3,344.1 | 3,211.4 | 11.6 | 18.8 | 20.97 | -241.8 | -829.6 | 443.4 | 425.0 | 18.35 | 24.167 | | |
| 3,500.0 | 3,448.8 | 3,443.4 | 3,305.5 | 12.1 | 19.5 | 21.31 | -250.0 | -860.4 | 454.8 | 435.7 | 19.03 | 23.897 | | |
| 3,600.0 | 3,546.4 | 3,542.7 | 3,399.5 | 12.5 | 20.2 | 21.63 | -258.1 | -891.1 | 466.1 | 446.4 | 19.72 | 23.642 | | |
| 3,700.0 | 3,643.9 | 3,642.0 | 3,493.6 | 13.0 | 20.8 | 21.94 | -266.3 | -921.8 | 477.6 | 457.1 | 20.41 | 23.401 | | |
| 3,800.0 | 3,741.4 | 3,741.3 | 3,587.7 | 13.5 | 21.5 | 22.24 | -274.4 | -952.5 | 489.0 | 467.9 | 21.10 | 23.173 | | |
| 3,900.0 | 3,839.0 | 3,840.7 | 3,681.8 | 14.0 | 22.2 | 22.52 | -282.5 | -983.3 | 500.4 | 478.6 | 21.80 | 22.957 | | |
| 4,000.0 | 3,936.5 | 3,940.0 | 3,775.9 | 14.5 | 22.9 | 22.79 | -290.7 | -1,014.0 | 511.8 | 489.3 | 22.50 | 22.751 | | |
| 4,100.0 | 4,034.0 | 4,039.3 | 3,870.0 | 14.9 | 23.6 | 23.05 | -298.8 | -1,044.7 | 523.3 | 500.1 | 23.20 | 22.556 | | |
| 4,200.0 | 4,131.6 | 4,138.6 | 3,964.1 | 15.4 | 24.2 | 23.30 | -307.0 | -1,075.4 | 534.8 | 510.9 | 23.90 | 22.370 | | |
| 4,300.0 | 4,229.1 | 4,237.9 | 4,058.2 | 15.9 | 24.9 | 23.53 | -315.1 | -1,106.2 | 546.2 | 521.6 | 24.61 | 22.194 | | |
| 4,400.0 | 4,326.6 | 4,337.2 | 4,152.3 | 16.4 | 25.6 | 23.76 | -323.3 | -1,136.9 | 557.7 | 532.4 | 25.32 | 22.025 | | |
| 4,500.0 | 4,424.2 | 4,436.6 | 4,246.4 | 16.9 | 26.3 | 23.98 | -331.4 | -1,167.6 | 569.2 | 543.2 | 26.03 | 21.865 | | |
| 4,600.0 | 4,521.7 | 4,535.9 | 4,340.4 | 17.4 | 27.0 | 24.19 | -339.6 | -1,198.3 | 580.7 | 554.0 | 26.75 | 21.711 | | |
| 4,700.0 | 4,619.3 | 4,635.2 | 4,434.5 | 17.8 | 27.7 | 24.39 | -347.7 | -1,229.1 | 592.2 | 564.7 | 27.46 | 21.564 | | |
| 4,800.0 | 4,716.8 | 4,734.5 | 4,528.6 | 18.3 | 28.3 | 24.58 | -355.9 | -1,259.8 | 603.7 | 575.5 | 28.18 | 21.424 | | |
| 4,900.0 | 4,814.3 | 4,833.8 | 4,622.7 | 18.8 | 29.0 | 24.77 | -364.0 | -1,290.5 | 615.2 | 586.3 | 28.90 | 21.290 | | |
| 5,000.0 | 4,911.9 | 4,942.7 | 4,726.0 | 19.3 | 29.7 | 24.97 | -372.9 | -1,323.9 | 626.5 | 596.9 | 29.63 | 21.144 | | |
| 5,057.4 | 4,967.8 | 5,015.4 | 4,795.5 | 19.6 | 30.0 | 25.14 | -378.3 | -1,344.5 | 631.5 | 601.5 | 30.07 | 21.004 | | |
| 5,100.0 | 5,009.5 | 5,069.5 | 4,847.6 | 19.8 | 30.3 | 25.30 | -382.1 | -1,358.7 | 634.6 | 604.3 | 30.36 | 20.904 | | |
| 5,200.0 | 5,107.7 | 5,196.8 | 4,971.1 | 20.1 | 30.8 | 25.64 | -389.9 | -1,388.3 | 641.1 | 610.2 | 30.96 | 20.708 | | |
| 5,300.0 | 5,206.4 | 5,324.4 | 5,096.2 | 20.4 | 31.2 | 25.91 | -396.4 | -1,412.7 | 646.5 | 615.0 | 31.48 | 20.539 | | |
| 5,400.0 | 5,305.7 | 5,452.4 | 5,222.7 | 20.6 | 31.6 | 26.11 | -401.5 | -1,431.8 | 650.6 | 618.7 | 31.91 | 20.393 | | |
| 5,500.0 | 5,405.3 | 5,580.7 | 5,350.1 | 20.8 | 31.8 | 26.26 | -405.1 | -1,445.3 | 653.6 | 621.4 | 32.25 | 20.267 | | |
| 5,600.0 | 5,505.2 | 5,709.1 | 5,478.2 | 21.0 | 32.0 | 26.34 | -407.2 | -1,453.4 | 655.4 | 622.9 | 32.51 | 20.162 | | |
| 5,694.8 | 5,600.0 | 5,830.9 | 5,600.0 | 21.1 | 32.2 | -90.39 | -407.9 | -1,455.9 | 655.9 | 622.2 | 33.73 | 19.448 | | |
| 5,700.0 | 5,605.2 | 5,836.1 | 5,605.2 | 21.1 | 32.2 | -90.39 | -407.9 | -1,455.9 | 655.9 | 622.2 | 33.74 | 19.439 | | |
| 5,800.0 | 5,705.2 | 5,936.1 | 5,705.2 | 21.2 | 32.2 | -90.39 | -407.9 | -1,455.9 | 655.9 | 621.9 | 34.02 | 19.279 | | |
| 5,831.9 | 5,737.1 | 5,968.0 | 5,737.1 | 21.2 | 32.3 | -90.39 | -407.9 | -1,455.9 | 655.9 | 621.8 | 34.11 | 19.229 | | |
| 5,850.0 | 5,755.2 | 5,985.2 | 5,754.3 | 21.3 | 32.3 | -87.29 | -407.6 | -1,455.9 | 655.9 | 622.8 | 33.13 | 19.800 | | |
| 5,900.0 | 5,805.0 | 6,032.5 | 5,801.5 | 21.3 | 32.3 | -87.33 | -404.1 | -1,456.1 | 655.9 | 622.7 | 33.22 | 19.744 | | |
| 5,950.0 | 5,854.2 | 6,079.8 | 5,848.1 | 21.3 | 32.3 | -87.39 | -396.3 | -1,456.5 | 655.8 | 622.6 | 33.24 | 19.731 | | |
| 6,000.0 | 5,902.3 | 6,127.2 | 5,893.9 | 21.3 | 32.3 | -87.47 | -384.4 | -1,457.1 | 655.8 | 622.6 | 33.19 | 19.759 | | |
| 6,050.0 | 5,948.9 | 6,174.7 | 5,938.6 | 21.3 | 32.3 | -87.58 | -368.2 | -1,458.0 | 655.7 | 622.6 | 33.08 | 19.823 | | |
| 6,100.0 | 5,993.5 | 6,222.2 | 5,981.6 | 21.3 | 32.3 | -87.70 | -348.0 | -1,459.1 | 655.6 | 622.7 | 32.92 | 19.915 | | |
| 6,150.0 | 6,035.8 | 6,270.0 | 6,022.8 | 21.2 | 32.3 | -87.85 | -324.0 | -1,460.3 | 655.5 | 622.8 | 32.73 | 20.027 | | |
| 6,200.0 | 6,075.3 | 6,317.8 | 6,061.7 | 21.1 | 32.3 | -88.01 | -296.1 | -1,461.8 | 655.4 | 622.9 | 32.53 | 20.148 | | |
| 6,250.0 | 6,111.7 | 6,365.8 | 6,097.9 | 21.1 | 32.2 | -88.20 | -264.8 | -1,463.5 | 655.3 | 623.0 | 32.34 | 20.265 | | |
| 6,300.0 | 6,144.7 | 6,414.0 | 6,131.3 | 21.0 | 32.2 | -88.40 | -230.0 | -1,465.3 | 655.2 | 623.0 | 32.17 | 20.366 | | |

| | | | |
|---------------------------|---|-------------------------------------|-------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

| Offset Design State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes O-K-6HNB - Wellbore #1 - Plan # | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | 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 |
| 6,350.0 | 6,173.9 | 6,462.4 | 6,161.4 | 20.9 | 32.1 | -88.61 | -192.2 | -1,467.3 | 655.1 | 623.0 | 32.05 | 20.437 | | |
| 6,400.0 | 6,199.1 | 6,511.0 | 6,188.0 | 20.8 | 32.1 | -88.84 | -151.6 | -1,469.4 | 655.0 | 623.0 | 32.00 | 20.466 | | |
| 6,450.0 | 6,220.0 | 6,559.9 | 6,210.8 | 20.8 | 32.1 | -89.08 | -108.5 | -1,471.7 | 654.9 | 622.8 | 32.03 | 20.443 | | |
| 6,500.0 | 6,236.5 | 6,609.0 | 6,229.5 | 20.7 | 32.1 | -89.32 | -63.1 | -1,474.1 | 654.8 | 622.6 | 32.16 | 20.360 | | |
| 6,550.0 | 6,248.4 | 6,658.3 | 6,243.9 | 20.7 | 32.1 | -89.58 | -16.0 | -1,476.6 | 654.7 | 622.3 | 32.39 | 20.214 | | |
| 6,600.0 | 6,255.6 | 6,707.9 | 6,253.8 | 20.7 | 32.1 | -89.84 | 32.5 | -1,479.2 | 654.6 | 621.9 | 32.73 | 20.002 | | |
| 6,650.1 | 6,258.0 | 6,757.9 | 6,259.1 | 20.7 | 32.1 | -90.10 | 82.1 | -1,481.8 | 654.5 | 621.4 | 33.14 | 19.753 | | |
| 6,700.0 | 6,258.0 | 6,807.9 | 6,260.0 | 20.8 | 32.2 | -90.18 | 132.0 | -1,484.4 | 654.5 | 620.8 | 33.69 | 19.423 | | |
| 6,750.2 | 6,258.0 | 6,858.1 | 6,260.0 | 20.9 | 32.2 | -90.18 | 182.1 | -1,487.1 | 654.4 | 620.0 | 34.37 | 19.042 | | |
| 6,753.2 | 6,258.0 | 6,861.1 | 6,260.0 | 20.9 | 32.3 | -90.18 | 185.1 | -1,487.2 | 654.4 | 620.0 | 34.41 | 19.018 | | |
| 6,800.0 | 6,258.0 | 6,908.0 | 6,260.0 | 21.1 | 32.4 | -90.18 | 232.0 | -1,489.7 | 654.3 | 619.3 | 35.04 | 18.675 | | |
| 6,900.0 | 6,258.0 | 7,008.0 | 6,260.0 | 21.6 | 32.6 | -90.18 | 331.8 | -1,495.0 | 654.1 | 617.3 | 36.81 | 17.768 | | |
| 7,000.0 | 6,258.0 | 7,108.0 | 6,260.0 | 22.3 | 33.0 | -90.18 | 431.7 | -1,500.2 | 653.9 | 615.0 | 38.90 | 16.811 | | |
| 7,100.0 | 6,258.0 | 7,208.0 | 6,260.0 | 23.2 | 33.5 | -90.18 | 531.5 | -1,505.5 | 653.7 | 612.4 | 41.24 | 15.850 | | |
| 7,200.0 | 6,258.0 | 7,308.0 | 6,260.0 | 24.3 | 34.2 | -90.18 | 631.4 | -1,510.7 | 653.5 | 609.7 | 43.80 | 14.918 | | |
| 7,300.0 | 6,258.0 | 7,408.0 | 6,260.0 | 25.5 | 34.9 | -90.18 | 731.3 | -1,516.0 | 653.3 | 606.7 | 46.55 | 14.033 | | |
| 7,400.0 | 6,258.0 | 7,508.0 | 6,260.0 | 26.8 | 35.7 | -90.18 | 831.1 | -1,521.3 | 653.1 | 603.6 | 49.45 | 13.206 | | |
| 7,500.0 | 6,258.0 | 7,608.0 | 6,260.0 | 28.2 | 36.6 | -90.18 | 931.0 | -1,526.5 | 652.8 | 600.4 | 52.48 | 12.441 | | |
| 7,600.0 | 6,258.0 | 7,708.0 | 6,260.0 | 29.6 | 37.6 | -90.18 | 1,030.9 | -1,531.8 | 652.6 | 597.0 | 55.61 | 11.736 | | |
| 7,700.0 | 6,258.0 | 7,808.0 | 6,260.0 | 31.2 | 38.7 | -90.18 | 1,130.7 | -1,537.0 | 652.4 | 593.6 | 58.83 | 11.090 | | |
| 7,800.0 | 6,258.0 | 7,908.0 | 6,260.0 | 32.7 | 39.9 | -90.18 | 1,230.6 | -1,542.3 | 652.2 | 590.1 | 62.13 | 10.498 | | |
| 7,900.0 | 6,258.0 | 8,008.0 | 6,260.0 | 34.3 | 41.2 | -90.18 | 1,330.4 | -1,547.5 | 652.0 | 586.5 | 65.49 | 9.956 | | |
| 8,000.0 | 6,258.0 | 8,108.0 | 6,260.0 | 36.0 | 42.5 | -90.18 | 1,430.3 | -1,552.8 | 651.8 | 582.9 | 68.91 | 9.459 | | |
| 8,100.0 | 6,258.0 | 8,208.0 | 6,260.0 | 37.6 | 43.8 | -90.18 | 1,530.2 | -1,558.1 | 651.6 | 579.2 | 72.37 | 9.004 | | |
| 8,200.0 | 6,258.0 | 8,308.0 | 6,260.0 | 39.3 | 45.3 | -90.18 | 1,630.0 | -1,563.3 | 651.4 | 575.5 | 75.88 | 8.585 | | |
| 8,300.0 | 6,258.0 | 8,408.0 | 6,260.0 | 41.0 | 46.7 | -90.18 | 1,729.9 | -1,568.6 | 651.2 | 571.8 | 79.42 | 8.200 | | |
| 8,400.0 | 6,258.0 | 8,508.0 | 6,260.0 | 42.8 | 48.2 | -90.18 | 1,829.7 | -1,573.8 | 651.0 | 568.0 | 82.99 | 7.844 | | |
| 8,500.0 | 6,258.0 | 8,608.0 | 6,260.0 | 44.5 | 49.7 | -90.18 | 1,929.6 | -1,579.1 | 650.8 | 564.2 | 86.59 | 7.516 | | |
| 8,600.0 | 6,258.0 | 8,708.0 | 6,260.0 | 46.3 | 51.3 | -90.18 | 2,029.5 | -1,584.4 | 650.6 | 560.4 | 90.21 | 7.212 | | |
| 8,700.0 | 6,258.0 | 8,808.0 | 6,260.0 | 48.1 | 52.9 | -90.18 | 2,129.3 | -1,589.6 | 650.4 | 556.5 | 93.85 | 6.930 | | |
| 8,800.0 | 6,258.0 | 8,908.0 | 6,260.0 | 49.9 | 54.5 | -90.18 | 2,229.2 | -1,594.9 | 650.2 | 552.7 | 97.51 | 6.668 | | |
| 8,900.0 | 6,258.0 | 9,008.0 | 6,260.0 | 51.7 | 56.2 | -90.18 | 2,329.1 | -1,600.1 | 650.0 | 548.8 | 101.19 | 6.423 | | |
| 9,000.0 | 6,258.0 | 9,108.0 | 6,260.0 | 53.5 | 57.8 | -90.18 | 2,428.9 | -1,605.4 | 649.8 | 544.9 | 104.88 | 6.195 | | |
| 9,100.0 | 6,258.0 | 9,208.0 | 6,260.0 | 55.3 | 59.5 | -90.18 | 2,528.8 | -1,610.7 | 649.6 | 541.0 | 108.59 | 5.982 | | |
| 9,200.0 | 6,258.0 | 9,308.0 | 6,260.0 | 57.1 | 61.2 | -90.18 | 2,628.6 | -1,615.9 | 649.4 | 537.0 | 112.30 | 5.782 | | |
| 9,300.0 | 6,258.0 | 9,408.0 | 6,260.0 | 59.0 | 62.9 | -90.18 | 2,728.5 | -1,621.2 | 649.1 | 533.1 | 116.03 | 5.595 | | |
| 9,400.0 | 6,258.0 | 9,508.0 | 6,260.0 | 60.8 | 64.6 | -90.18 | 2,828.4 | -1,626.4 | 648.9 | 529.2 | 119.77 | 5.418 | | |
| 9,500.0 | 6,258.0 | 9,608.0 | 6,260.0 | 62.7 | 66.4 | -90.18 | 2,928.2 | -1,631.7 | 648.7 | 525.2 | 123.52 | 5.252 | | |
| 9,600.0 | 6,258.0 | 9,708.0 | 6,260.0 | 64.5 | 68.1 | -90.18 | 3,028.1 | -1,636.9 | 648.5 | 521.3 | 127.27 | 5.096 | | |
| 9,700.0 | 6,258.0 | 9,808.0 | 6,260.0 | 66.4 | 69.9 | -90.18 | 3,127.9 | -1,642.2 | 648.3 | 517.3 | 131.04 | 4.948 | | |
| 9,800.0 | 6,258.0 | 9,908.0 | 6,260.0 | 68.3 | 71.6 | -90.18 | 3,227.8 | -1,647.5 | 648.1 | 513.3 | 134.81 | 4.808 | | |
| 9,900.0 | 6,258.0 | 10,008.0 | 6,260.0 | 70.1 | 73.4 | -90.18 | 3,327.7 | -1,652.7 | 647.9 | 509.3 | 138.58 | 4.675 | | |
| 10,000.0 | 6,258.0 | 10,108.0 | 6,260.0 | 72.0 | 75.2 | -90.18 | 3,427.5 | -1,658.0 | 647.7 | 505.3 | 142.37 | 4.550 | | |
| 10,100.0 | 6,258.0 | 10,208.0 | 6,260.0 | 73.9 | 77.0 | -90.18 | 3,527.4 | -1,663.2 | 647.5 | 501.3 | 146.15 | 4.430 | | |
| 10,200.0 | 6,258.0 | 10,308.0 | 6,260.0 | 75.7 | 78.8 | -90.18 | 3,627.2 | -1,668.5 | 647.3 | 497.3 | 149.95 | 4.317 | | |
| 10,300.0 | 6,258.0 | 10,408.0 | 6,260.0 | 77.6 | 80.6 | -90.18 | 3,727.1 | -1,673.8 | 647.1 | 493.3 | 153.74 | 4.209 | | |
| 10,400.0 | 6,258.0 | 10,508.0 | 6,260.0 | 79.5 | 82.4 | -90.18 | 3,827.0 | -1,679.0 | 646.9 | 489.3 | 157.54 | 4.106 | | |
| 10,500.0 | 6,258.0 | 10,608.0 | 6,260.0 | 81.4 | 84.2 | -90.18 | 3,926.8 | -1,684.3 | 646.7 | 485.3 | 161.35 | 4.008 | | |
| 10,600.0 | 6,258.0 | 10,708.0 | 6,260.0 | 83.3 | 86.0 | -90.18 | 4,026.7 | -1,689.5 | 646.5 | 481.3 | 165.16 | 3.914 | | |
| 10,700.0 | 6,258.0 | 10,808.0 | 6,260.0 | 85.2 | 87.9 | -90.18 | 4,126.6 | -1,694.8 | 646.3 | 477.3 | 168.97 | 3.825 | | |
| 10,800.0 | 6,258.0 | 10,908.0 | 6,260.0 | 87.1 | 89.7 | -90.18 | 4,226.4 | -1,700.1 | 646.1 | 473.3 | 172.79 | 3.739 | | |

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 State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

| Offset Design State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes O-K-6HNB - Wellbore #1 - Plan # | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|--------|
| Survey Program: 0-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) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 10,900.0 | 6,258.0 | 11,008.0 | 6,260.0 | 89.0 | 91.5 | -90.18 | 4,326.3 | -1,705.3 | 645.9 | 469.3 | 176.61 | 3.657 | | |
| 11,000.0 | 6,258.0 | 11,108.0 | 6,260.0 | 90.9 | 93.4 | -90.18 | 4,426.1 | -1,710.6 | 645.7 | 465.2 | 180.43 | 3.578 | | |
| 11,031.9 | 6,258.0 | 11,139.9 | 6,260.0 | 91.5 | 94.0 | -90.18 | 4,458.0 | -1,712.3 | 645.6 | 463.9 | 181.65 | 3.554 SF | | |

| | | | |
|---------------------------|---|-------------------------------------|-------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

| Offset Design State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes T-P-6HNB - Wellbore #1 - Plan # | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | 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) | +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 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 18.4 | 0.00 | N/A | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 18.2 | 0.22 | 81.985 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 17.8 | 0.67 | 27.328 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 17.3 | 1.12 | 16.397 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 16.9 | 1.57 | 11.712 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 16.4 | 2.02 | 9.109 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 16.0 | 2.47 | 7.453 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 15.5 | 2.92 | 6.307 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 15.1 | 3.37 | 5.466 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 14.6 | 3.82 | 4.823 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | -8.70 | -8.70 | 18.2 | -2.8 | 18.4 | 14.2 | 4.27 | 4.315 CC, ES | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.3 | 2.4 | 113.04 | 113.04 | 18.2 | -2.8 | 19.0 | 14.3 | 4.70 | 4.051 | |
| 1,200.0 | 1,199.8 | 1,199.8 | 1,199.8 | 2.5 | 2.6 | 125.85 | 125.85 | 18.2 | -2.8 | 21.6 | 16.5 | 5.12 | 4.228 | |
| 1,300.0 | 1,299.5 | 1,300.4 | 1,300.3 | 2.7 | 2.8 | 141.47 | 141.47 | 16.5 | -3.2 | 26.0 | 20.5 | 5.51 | 4.715 | |
| 1,400.0 | 1,398.7 | 1,400.8 | 1,400.6 | 3.0 | 3.0 | 157.57 | 157.57 | 11.3 | -4.3 | 31.6 | 25.8 | 5.86 | 5.395 | |
| 1,500.0 | 1,497.5 | 1,501.0 | 1,500.5 | 3.2 | 3.1 | 172.44 | 172.44 | 2.8 | -6.1 | 39.8 | 33.6 | 6.22 | 6.398 | |
| 1,600.0 | 1,595.6 | 1,600.5 | 1,599.2 | 3.6 | 3.4 | -175.54 | -175.54 | -8.7 | -8.6 | 51.3 | 44.7 | 6.60 | 7.773 | |
| 1,637.4 | 1,632.2 | 1,637.4 | 1,635.8 | 3.7 | 3.4 | -172.33 | -172.33 | -13.2 | -9.5 | 56.8 | 50.1 | 6.76 | 8.408 | |
| 1,700.0 | 1,693.2 | 1,699.0 | 1,697.0 | 3.9 | 3.6 | -168.26 | -168.26 | -20.6 | -11.1 | 66.7 | 59.7 | 7.05 | 9.467 | |
| 1,800.0 | 1,790.7 | 1,797.5 | 1,794.7 | 4.3 | 3.8 | -163.80 | -163.80 | -32.5 | -13.6 | 83.0 | 75.5 | 7.54 | 11.009 | |
| 1,900.0 | 1,888.3 | 1,896.0 | 1,892.5 | 4.7 | 4.1 | -160.81 | -160.81 | -44.3 | -16.2 | 99.6 | 91.6 | 8.06 | 12.360 | |
| 2,000.0 | 1,985.8 | 1,994.5 | 1,990.2 | 5.1 | 4.3 | -158.68 | -158.68 | -56.2 | -18.7 | 116.5 | 107.9 | 8.60 | 13.534 | |
| 2,100.0 | 2,083.3 | 2,093.0 | 2,088.0 | 5.6 | 4.6 | -157.09 | -157.09 | -68.0 | -21.3 | 133.4 | 124.2 | 9.17 | 14.553 | |
| 2,200.0 | 2,180.9 | 2,191.5 | 2,185.7 | 6.0 | 4.9 | -155.86 | -155.86 | -79.9 | -23.8 | 150.4 | 140.7 | 9.74 | 15.439 | |
| 2,300.0 | 2,278.4 | 2,290.0 | 2,283.5 | 6.4 | 5.1 | -154.87 | -154.87 | -91.7 | -26.3 | 167.5 | 157.1 | 10.33 | 16.211 | |
| 2,400.0 | 2,376.0 | 2,388.5 | 2,381.2 | 6.9 | 5.4 | -154.07 | -154.07 | -103.6 | -28.9 | 184.6 | 173.6 | 10.93 | 16.888 | |
| 2,500.0 | 2,473.5 | 2,487.0 | 2,479.0 | 7.3 | 5.7 | -153.41 | -153.41 | -115.5 | -31.4 | 201.7 | 190.2 | 11.54 | 17.484 | |
| 2,600.0 | 2,571.0 | 2,585.5 | 2,576.7 | 7.8 | 6.0 | -152.85 | -152.85 | -127.3 | -33.9 | 218.9 | 206.7 | 12.15 | 18.011 | |
| 2,700.0 | 2,668.6 | 2,684.0 | 2,674.5 | 8.3 | 6.3 | -152.37 | -152.37 | -139.2 | -36.5 | 236.0 | 223.3 | 12.77 | 18.480 | |
| 2,800.0 | 2,766.1 | 2,782.5 | 2,772.2 | 8.7 | 6.6 | -151.96 | -151.96 | -151.0 | -39.0 | 253.2 | 239.8 | 13.40 | 18.898 | |
| 2,900.0 | 2,863.6 | 2,881.0 | 2,870.0 | 9.2 | 6.9 | -151.59 | -151.59 | -162.9 | -41.6 | 270.4 | 256.4 | 14.03 | 19.274 | |
| 3,000.0 | 2,961.2 | 2,979.5 | 2,967.7 | 9.7 | 7.2 | -151.28 | -151.28 | -174.7 | -44.1 | 287.6 | 273.0 | 14.67 | 19.612 | |
| 3,100.0 | 3,058.7 | 3,078.0 | 3,065.5 | 10.2 | 7.5 | -150.99 | -150.99 | -186.6 | -46.6 | 304.8 | 289.5 | 15.30 | 19.918 | |
| 3,200.0 | 3,156.2 | 3,176.4 | 3,163.2 | 10.6 | 7.8 | -150.74 | -150.74 | -198.5 | -49.2 | 322.1 | 306.1 | 15.95 | 20.196 | |
| 3,300.0 | 3,253.8 | 3,274.9 | 3,261.0 | 11.1 | 8.1 | -150.51 | -150.51 | -210.3 | -51.7 | 339.3 | 322.7 | 16.59 | 20.449 | |
| 3,400.0 | 3,351.3 | 3,373.4 | 3,358.7 | 11.6 | 8.4 | -150.31 | -150.31 | -222.2 | -54.3 | 356.5 | 339.3 | 17.24 | 20.680 | |
| 3,500.0 | 3,448.8 | 3,471.9 | 3,456.4 | 12.1 | 8.7 | -150.12 | -150.12 | -234.0 | -56.8 | 373.7 | 355.9 | 17.89 | 20.892 | |
| 3,600.0 | 3,546.4 | 3,570.4 | 3,554.2 | 12.5 | 9.1 | -149.95 | -149.95 | -245.9 | -59.3 | 391.0 | 372.4 | 18.54 | 21.088 | |
| 3,700.0 | 3,643.9 | 3,668.9 | 3,651.9 | 13.0 | 9.4 | -149.80 | -149.80 | -257.7 | -61.9 | 408.2 | 389.0 | 19.19 | 21.268 | |
| 3,800.0 | 3,741.4 | 3,767.4 | 3,749.7 | 13.5 | 9.7 | -149.66 | -149.66 | -269.6 | -64.4 | 425.5 | 405.6 | 19.85 | 21.434 | |
| 3,900.0 | 3,839.0 | 3,865.9 | 3,847.4 | 14.0 | 10.0 | -149.53 | -149.53 | -281.4 | -67.0 | 442.7 | 422.2 | 20.51 | 21.589 | |
| 4,000.0 | 3,936.5 | 3,964.4 | 3,945.2 | 14.5 | 10.3 | -149.40 | -149.40 | -293.3 | -69.5 | 460.0 | 438.8 | 21.16 | 21.733 | |
| 4,100.0 | 4,034.0 | 4,062.9 | 4,042.9 | 14.9 | 10.6 | -149.29 | -149.29 | -305.2 | -72.0 | 477.2 | 455.4 | 21.82 | 21.867 | |
| 4,200.0 | 4,131.6 | 4,161.4 | 4,140.7 | 15.4 | 10.9 | -149.19 | -149.19 | -317.0 | -74.6 | 494.5 | 472.0 | 22.48 | 21.992 | |
| 4,300.0 | 4,229.1 | 4,259.9 | 4,238.4 | 15.9 | 11.2 | -149.09 | -149.09 | -328.9 | -77.1 | 511.7 | 488.6 | 23.15 | 22.109 | |
| 4,400.0 | 4,326.6 | 4,358.4 | 4,336.2 | 16.4 | 11.6 | -149.00 | -149.00 | -340.7 | -79.6 | 529.0 | 505.2 | 23.81 | 22.219 | |
| 4,500.0 | 4,424.2 | 4,456.9 | 4,433.9 | 16.9 | 11.9 | -148.91 | -148.91 | -352.6 | -82.2 | 546.2 | 521.8 | 24.47 | 22.322 | |
| 4,600.0 | 4,521.7 | 4,555.4 | 4,531.7 | 17.4 | 12.2 | -148.83 | -148.83 | -364.4 | -84.7 | 563.5 | 538.4 | 25.13 | 22.419 | |
| 4,700.0 | 4,619.3 | 4,653.9 | 4,629.4 | 17.8 | 12.5 | -148.75 | -148.75 | -376.3 | -87.3 | 580.7 | 554.9 | 25.80 | 22.510 | |
| 4,800.0 | 4,716.8 | 4,750.1 | 4,725.0 | 18.3 | 12.8 | -148.79 | -148.79 | -388.8 | -89.5 | 598.2 | 571.8 | 26.38 | 22.671 | |
| 4,900.0 | 4,814.3 | 4,845.5 | 4,820.1 | 18.8 | 13.0 | -149.11 | -149.11 | -394.3 | -91.1 | 616.0 | 589.2 | 26.89 | 22.914 | |

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 State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

| Offset Design State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes T-P-6HNB - Wellbore #1 - Plan # | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | 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) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 5,000.0 | 4,911.9 | 4,940.4 | 4,914.9 | 19.3 | 13.1 | -149.70 | | -398.5 | -92.0 | 634.5 | 607.1 | 27.32 | 23.219 | |
| 5,057.4 | 4,967.8 | 4,994.5 | 4,969.0 | 19.6 | 13.2 | -150.15 | | -399.6 | -92.3 | 645.3 | 617.7 | 27.55 | 23.421 | |
| 5,100.0 | 5,009.5 | 5,035.0 | 5,009.5 | 19.8 | 13.3 | -150.60 | | -399.8 | -92.3 | 653.2 | 625.5 | 27.71 | 23.571 | |
| 5,200.0 | 5,107.7 | 5,133.2 | 5,107.7 | 20.1 | 13.5 | -151.55 | | -399.8 | -92.3 | 669.8 | 641.8 | 28.04 | 23.889 | |
| 5,300.0 | 5,206.4 | 5,232.0 | 5,206.4 | 20.4 | 13.6 | -152.29 | | -399.8 | -92.3 | 683.5 | 655.2 | 28.35 | 24.111 | |
| 5,400.0 | 5,305.7 | 5,331.2 | 5,305.7 | 20.6 | 13.8 | -152.85 | | -399.8 | -92.3 | 694.2 | 665.5 | 28.65 | 24.232 | |
| 5,500.0 | 5,405.3 | 5,430.9 | 5,405.3 | 20.8 | 13.9 | -153.24 | | -399.8 | -92.3 | 701.8 | 672.9 | 28.93 | 24.256 | |
| 5,600.0 | 5,505.2 | 5,530.7 | 5,505.2 | 21.0 | 14.1 | -153.46 | | -399.8 | -92.3 | 706.3 | 677.1 | 29.20 | 24.186 | |
| 5,694.8 | 5,600.0 | 5,625.5 | 5,600.0 | 21.1 | 14.2 | 89.71 | | -399.8 | -92.3 | 707.7 | 677.8 | 29.88 | 23.683 | |
| 5,700.0 | 5,605.2 | 5,630.7 | 5,605.2 | 21.1 | 14.2 | 89.71 | | -399.8 | -92.3 | 707.7 | 677.8 | 29.90 | 23.670 | |
| 5,800.0 | 5,705.2 | 5,730.7 | 5,705.2 | 21.2 | 14.4 | 89.71 | | -399.8 | -92.3 | 707.7 | 677.5 | 30.21 | 23.426 | |
| 5,831.9 | 5,737.1 | 5,762.9 | 5,737.3 | 21.2 | 14.4 | 89.71 | | -399.8 | -92.3 | 707.7 | 677.4 | 30.31 | 23.349 | |
| 5,850.0 | 5,755.2 | 5,782.2 | 5,756.7 | 21.3 | 14.5 | 92.80 | | -399.3 | -92.3 | 707.7 | 677.8 | 29.94 | 23.636 | |
| 5,900.0 | 5,805.0 | 5,835.6 | 5,809.9 | 21.3 | 14.5 | 92.75 | | -394.3 | -92.6 | 707.7 | 677.7 | 30.04 | 23.560 | |
| 5,950.0 | 5,854.2 | 5,889.0 | 5,862.2 | 21.3 | 14.5 | 92.67 | | -383.8 | -93.1 | 707.7 | 677.6 | 30.05 | 23.546 | |
| 6,000.0 | 5,902.3 | 5,942.3 | 5,913.0 | 21.3 | 14.5 | 92.57 | | -368.1 | -94.0 | 707.6 | 677.6 | 30.00 | 23.589 | |
| 6,050.0 | 5,948.9 | 5,995.4 | 5,961.9 | 21.3 | 14.5 | 92.44 | | -347.4 | -95.1 | 707.6 | 677.7 | 29.88 | 23.680 | |
| 6,100.0 | 5,993.5 | 6,048.3 | 6,008.2 | 21.3 | 14.4 | 92.29 | | -322.0 | -96.5 | 707.5 | 677.8 | 29.72 | 23.808 | |
| 6,150.0 | 6,035.8 | 6,100.9 | 6,051.5 | 21.2 | 14.3 | 92.12 | | -292.1 | -98.0 | 707.4 | 677.9 | 29.53 | 23.959 | |
| 6,200.0 | 6,075.3 | 6,153.4 | 6,091.4 | 21.1 | 14.2 | 91.93 | | -258.1 | -99.9 | 707.4 | 678.0 | 29.33 | 24.116 | |
| 6,250.0 | 6,111.7 | 6,205.5 | 6,127.5 | 21.1 | 14.1 | 91.72 | | -220.6 | -101.9 | 707.3 | 678.2 | 29.16 | 24.260 | |
| 6,300.0 | 6,144.7 | 6,257.4 | 6,159.5 | 21.0 | 14.1 | 91.49 | | -179.8 | -104.1 | 707.3 | 678.2 | 29.02 | 24.372 | |
| 6,350.0 | 6,173.9 | 6,308.9 | 6,187.1 | 20.9 | 14.1 | 91.25 | | -136.4 | -106.4 | 707.2 | 678.3 | 28.94 | 24.434 | |
| 6,400.0 | 6,199.1 | 6,360.2 | 6,210.2 | 20.8 | 14.1 | 91.00 | | -90.7 | -108.8 | 707.2 | 678.2 | 28.95 | 24.427 | |
| 6,450.0 | 6,220.0 | 6,411.1 | 6,228.6 | 20.8 | 14.1 | 90.74 | | -43.3 | -111.4 | 707.2 | 678.1 | 29.05 | 24.340 | |
| 6,477.7 | 6,229.7 | 6,439.2 | 6,236.7 | 20.7 | 14.2 | 90.59 | | -16.5 | -112.8 | 707.2 | 678.0 | 29.16 | 24.249 | |
| 6,500.0 | 6,236.5 | 6,461.7 | 6,242.1 | 20.7 | 14.2 | 90.48 | | 5.4 | -114.0 | 707.2 | 677.9 | 29.26 | 24.167 | |
| 6,550.0 | 6,248.4 | 6,512.0 | 6,250.9 | 20.7 | 14.4 | 90.21 | | 54.8 | -116.6 | 707.2 | 677.6 | 29.58 | 23.906 | |
| 6,600.0 | 6,255.6 | 6,562.0 | 6,254.8 | 20.7 | 14.7 | 89.94 | | 104.5 | -119.3 | 707.2 | 677.2 | 30.00 | 23.572 | |
| 6,650.1 | 6,258.0 | 6,612.0 | 6,255.0 | 20.7 | 15.0 | 89.76 | | 154.5 | -121.9 | 707.3 | 676.7 | 30.55 | 23.154 | |
| 6,700.0 | 6,258.0 | 6,661.9 | 6,255.0 | 20.8 | 15.3 | 89.76 | | 204.3 | -124.6 | 707.3 | 676.1 | 31.20 | 22.669 | |
| 6,750.2 | 6,258.0 | 6,712.1 | 6,255.0 | 20.9 | 15.7 | 89.76 | | 254.4 | -127.3 | 707.3 | 675.4 | 31.93 | 22.154 | |
| 6,753.2 | 6,258.0 | 6,715.1 | 6,255.0 | 20.9 | 15.7 | 89.76 | | 257.4 | -127.4 | 707.3 | 675.4 | 31.98 | 22.121 | |
| 6,800.0 | 6,258.0 | 6,761.9 | 6,255.0 | 21.1 | 16.2 | 89.76 | | 304.2 | -130.0 | 707.4 | 674.7 | 32.71 | 21.624 | |
| 6,900.0 | 6,258.0 | 6,861.9 | 6,255.0 | 21.6 | 17.2 | 89.76 | | 404.1 | -135.3 | 707.5 | 672.8 | 34.68 | 20.399 | |
| 7,000.0 | 6,258.0 | 6,961.9 | 6,255.0 | 22.3 | 18.4 | 89.76 | | 503.9 | -140.6 | 707.6 | 670.7 | 36.96 | 19.147 | |
| 7,100.0 | 6,258.0 | 7,061.9 | 6,255.0 | 23.2 | 19.7 | 89.76 | | 603.8 | -146.0 | 707.7 | 668.3 | 39.48 | 17.925 | |
| 7,200.0 | 6,258.0 | 7,161.9 | 6,255.0 | 24.3 | 21.1 | 89.76 | | 703.6 | -151.3 | 707.9 | 665.6 | 42.22 | 16.767 | |
| 7,300.0 | 6,258.0 | 7,261.9 | 6,255.0 | 25.5 | 22.6 | 89.76 | | 803.5 | -156.7 | 708.0 | 662.9 | 45.12 | 15.691 | |
| 7,400.0 | 6,258.0 | 7,361.9 | 6,255.0 | 26.8 | 24.1 | 89.76 | | 903.3 | -162.0 | 708.1 | 659.9 | 48.16 | 14.703 | |
| 7,500.0 | 6,258.0 | 7,461.9 | 6,255.0 | 28.2 | 25.7 | 89.76 | | 1,003.2 | -167.4 | 708.2 | 656.9 | 51.32 | 13.801 | |
| 7,600.0 | 6,258.0 | 7,561.9 | 6,255.0 | 29.6 | 27.4 | 89.76 | | 1,103.0 | -172.7 | 708.3 | 653.8 | 54.57 | 12.981 | |
| 7,700.0 | 6,258.0 | 7,661.9 | 6,255.0 | 31.2 | 29.1 | 89.76 | | 1,202.9 | -178.1 | 708.4 | 650.6 | 57.89 | 12.237 | |
| 7,800.0 | 6,258.0 | 7,761.9 | 6,255.0 | 32.7 | 30.8 | 89.76 | | 1,302.8 | -183.4 | 708.6 | 647.3 | 61.29 | 11.562 | |
| 7,900.0 | 6,258.0 | 7,861.9 | 6,255.0 | 34.3 | 32.5 | 89.76 | | 1,402.6 | -188.8 | 708.7 | 643.9 | 64.73 | 10.947 | |
| 8,000.0 | 6,258.0 | 7,961.9 | 6,255.0 | 36.0 | 34.3 | 89.76 | | 1,502.5 | -194.1 | 708.8 | 640.6 | 68.23 | 10.388 | |
| 8,100.0 | 6,258.0 | 8,061.9 | 6,255.0 | 37.6 | 36.1 | 89.76 | | 1,602.3 | -199.5 | 708.9 | 637.2 | 71.77 | 9.878 | |
| 8,200.0 | 6,258.0 | 8,161.9 | 6,255.0 | 39.3 | 37.8 | 89.76 | | 1,702.2 | -204.8 | 709.0 | 633.7 | 75.34 | 9.412 | |
| 8,300.0 | 6,258.0 | 8,261.9 | 6,255.0 | 41.0 | 39.7 | 89.76 | | 1,802.0 | -210.2 | 709.2 | 630.2 | 78.94 | 8.984 | |
| 8,400.0 | 6,258.0 | 8,361.9 | 6,255.0 | 42.8 | 41.5 | 89.76 | | 1,901.9 | -215.5 | 709.3 | 626.7 | 82.56 | 8.591 | |
| 8,500.0 | 6,258.0 | 8,461.9 | 6,255.0 | 44.5 | 43.3 | 89.76 | | 2,001.8 | -220.9 | 709.4 | 623.2 | 86.21 | 8.229 | |

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

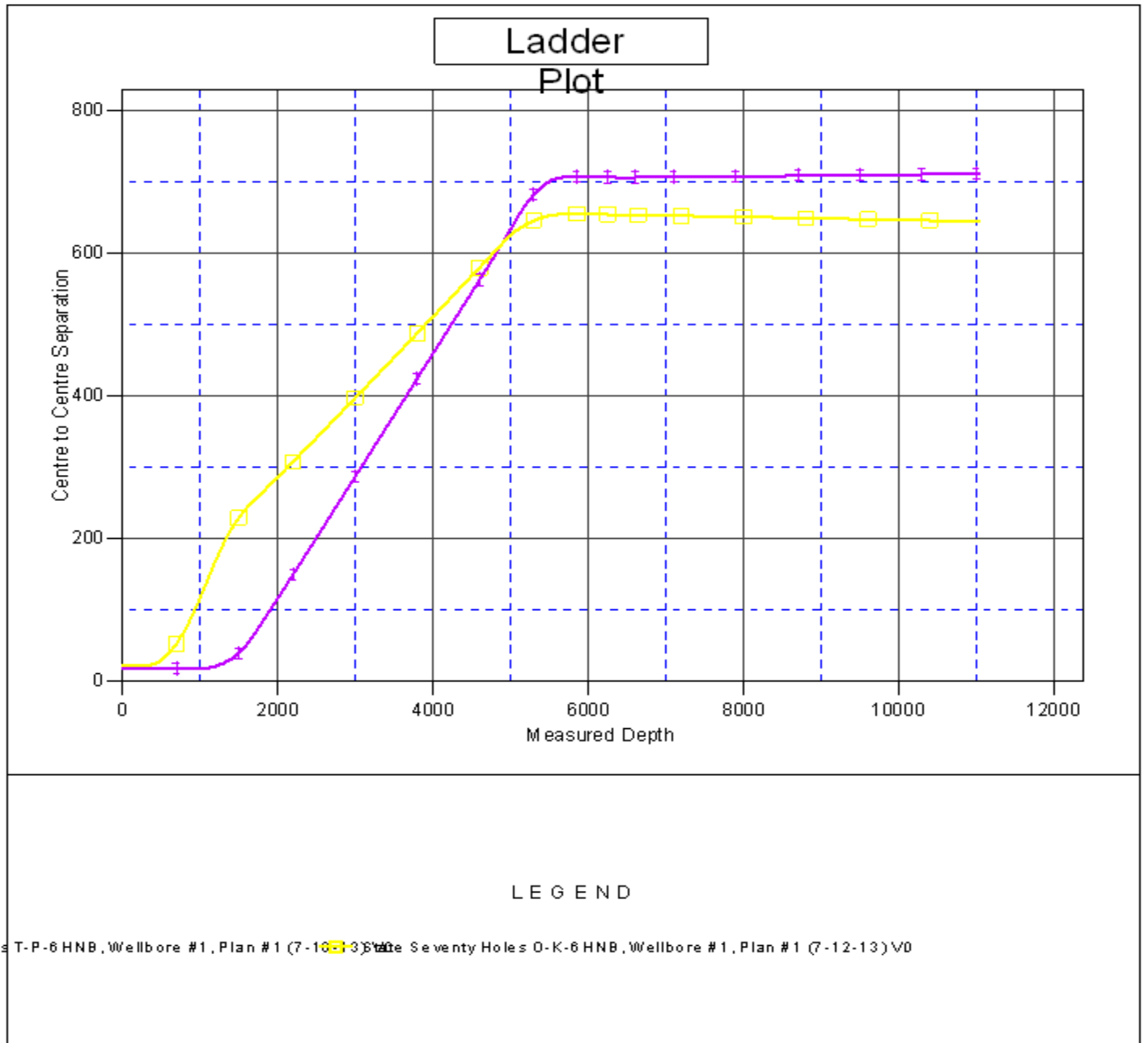
| | | | |
|---------------------------|---|-------------------------------------|-------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

| Offset Design State Seventy Holes T-6 Pad Sec.6-T4N-R62W - State Seventy Holes T-P-6HNB - Wellbore #1 - Plan # | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-----------|--------|-----------------------------|---|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 8,600.0 | 6,258.0 | 8,561.9 | 6,255.0 | 46.3 | 45.2 | 89.76 | 2,101.6 | -226.2 | 709.5 | 619.6 | 89.88 | 7.894 | | |
| 8,700.0 | 6,258.0 | 8,661.9 | 6,255.0 | 48.1 | 47.0 | 89.76 | 2,201.5 | -231.5 | 709.6 | 616.1 | 93.56 | 7.584 | | |
| 8,800.0 | 6,258.0 | 8,761.9 | 6,255.0 | 49.9 | 48.9 | 89.76 | 2,301.3 | -236.9 | 709.7 | 612.5 | 97.26 | 7.297 | | |
| 8,900.0 | 6,258.0 | 8,861.9 | 6,255.0 | 51.7 | 50.7 | 89.76 | 2,401.2 | -242.2 | 709.9 | 608.9 | 100.98 | 7.030 | | |
| 9,000.0 | 6,258.0 | 8,961.9 | 6,255.0 | 53.5 | 52.6 | 89.76 | 2,501.0 | -247.6 | 710.0 | 605.3 | 104.70 | 6.781 | | |
| 9,100.0 | 6,258.0 | 9,061.9 | 6,255.0 | 55.3 | 54.5 | 89.76 | 2,600.9 | -252.9 | 710.1 | 601.6 | 108.44 | 6.548 | | |
| 9,200.0 | 6,258.0 | 9,161.9 | 6,255.0 | 57.1 | 56.3 | 89.76 | 2,700.8 | -258.3 | 710.2 | 598.0 | 112.19 | 6.330 | | |
| 9,300.0 | 6,258.0 | 9,261.9 | 6,255.0 | 59.0 | 58.2 | 89.76 | 2,800.6 | -263.6 | 710.3 | 594.4 | 115.95 | 6.126 | | |
| 9,400.0 | 6,258.0 | 9,361.9 | 6,255.0 | 60.8 | 60.1 | 89.76 | 2,900.5 | -269.0 | 710.4 | 590.7 | 119.71 | 5.935 | | |
| 9,500.0 | 6,258.0 | 9,461.9 | 6,255.0 | 62.7 | 62.0 | 89.76 | 3,000.3 | -274.3 | 710.6 | 587.1 | 123.49 | 5.754 | | |
| 9,600.0 | 6,258.0 | 9,561.9 | 6,255.0 | 64.5 | 63.9 | 89.76 | 3,100.2 | -279.7 | 710.7 | 583.4 | 127.26 | 5.584 | | |
| 9,700.0 | 6,258.0 | 9,661.9 | 6,255.0 | 66.4 | 65.8 | 89.76 | 3,200.0 | -285.0 | 710.8 | 579.7 | 131.05 | 5.424 | | |
| 9,800.0 | 6,258.0 | 9,761.9 | 6,255.0 | 68.3 | 67.7 | 89.76 | 3,299.9 | -290.4 | 710.9 | 576.1 | 134.84 | 5.272 | | |
| 9,900.0 | 6,258.0 | 9,861.9 | 6,255.0 | 70.1 | 69.6 | 89.76 | 3,399.8 | -295.7 | 711.0 | 572.4 | 138.64 | 5.129 | | |
| 10,000.0 | 6,258.0 | 9,961.9 | 6,255.0 | 72.0 | 71.5 | 89.76 | 3,499.6 | -301.1 | 711.1 | 568.7 | 142.44 | 4.993 | | |
| 10,100.0 | 6,258.0 | 10,061.9 | 6,255.0 | 73.9 | 73.4 | 89.76 | 3,599.5 | -306.4 | 711.3 | 565.0 | 146.24 | 4.864 | | |
| 10,200.0 | 6,258.0 | 10,161.9 | 6,255.0 | 75.7 | 75.3 | 89.76 | 3,699.3 | -311.8 | 711.4 | 561.3 | 150.05 | 4.741 | | |
| 10,300.0 | 6,258.0 | 10,261.9 | 6,255.0 | 77.6 | 77.2 | 89.76 | 3,799.2 | -317.1 | 711.5 | 557.6 | 153.87 | 4.624 | | |
| 10,400.0 | 6,258.0 | 10,361.9 | 6,255.0 | 79.5 | 79.1 | 89.76 | 3,899.0 | -322.4 | 711.6 | 553.9 | 157.68 | 4.513 | | |
| 10,500.0 | 6,258.0 | 10,461.9 | 6,255.0 | 81.4 | 81.0 | 89.76 | 3,998.9 | -327.8 | 711.7 | 550.2 | 161.50 | 4.407 | | |
| 10,600.0 | 6,258.0 | 10,561.9 | 6,255.0 | 83.3 | 82.9 | 89.76 | 4,098.8 | -333.1 | 711.8 | 546.5 | 165.33 | 4.306 | | |
| 10,700.0 | 6,258.0 | 10,661.9 | 6,255.0 | 85.2 | 84.9 | 89.76 | 4,198.6 | -338.5 | 712.0 | 542.8 | 169.15 | 4.209 | | |
| 10,800.0 | 6,258.0 | 10,761.9 | 6,255.0 | 87.1 | 86.8 | 89.76 | 4,298.5 | -343.8 | 712.1 | 539.1 | 172.98 | 4.117 | | |
| 10,900.0 | 6,258.0 | 10,861.9 | 6,255.0 | 89.0 | 88.7 | 89.76 | 4,398.3 | -349.2 | 712.2 | 535.4 | 176.81 | 4.028 | | |
| 10,952.0 | 6,258.0 | 10,914.0 | 6,255.0 | 90.0 | 89.7 | 89.76 | 4,450.3 | -352.0 | 712.3 | 533.5 | 178.81 | 3.983 | | |
| 11,000.0 | 6,258.0 | 10,952.0 | 6,255.0 | 90.9 | 90.4 | 89.76 | 4,488.3 | -354.0 | 712.4 | 531.9 | 180.45 | 3.948 | | |
| 11,031.9 | 6,258.0 | 10,952.0 | 6,255.0 | 91.5 | 90.4 | 89.76 | 4,488.3 | -354.0 | 713.6 | 532.5 | 181.07 | 3.941 SF | | |

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|---------------------------|---|-------------------------------------|-------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4543.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: State Seventy Holes 34-31-6HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.73°



| | | | |
|---------------------------|---|-------------------------------------|-------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well State Seventy Holes 34-31-6HNB |
| Project: | SEC.6-T4N-R62W | TVD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Reference Site: | State Seventy Holes T-6 Pad Sec.6-T4N-R62W | MD Reference: | WELL @ 4543.0ft (RKB - 13') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Seventy Holes 34-31-6HNB | 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 #1 (7-12-13) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4543.0ft (RKB - 13')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: State Seventy Holes 34-31-6HNB
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.73°

