



Weatherford®

Drilling Services

Proposal



Berry Petroleum Company

BERRY PETROLEUM CO.

CHEVRON 31- 18D

GARFIELD COUNTY, COLORADO

WELL FILE: **PLAN 2**

JANUARY 23, 2008

Weatherford International, Ltd.

15710 John F. Kennedy Blvd., Suite 700

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Berry Petroleum Company

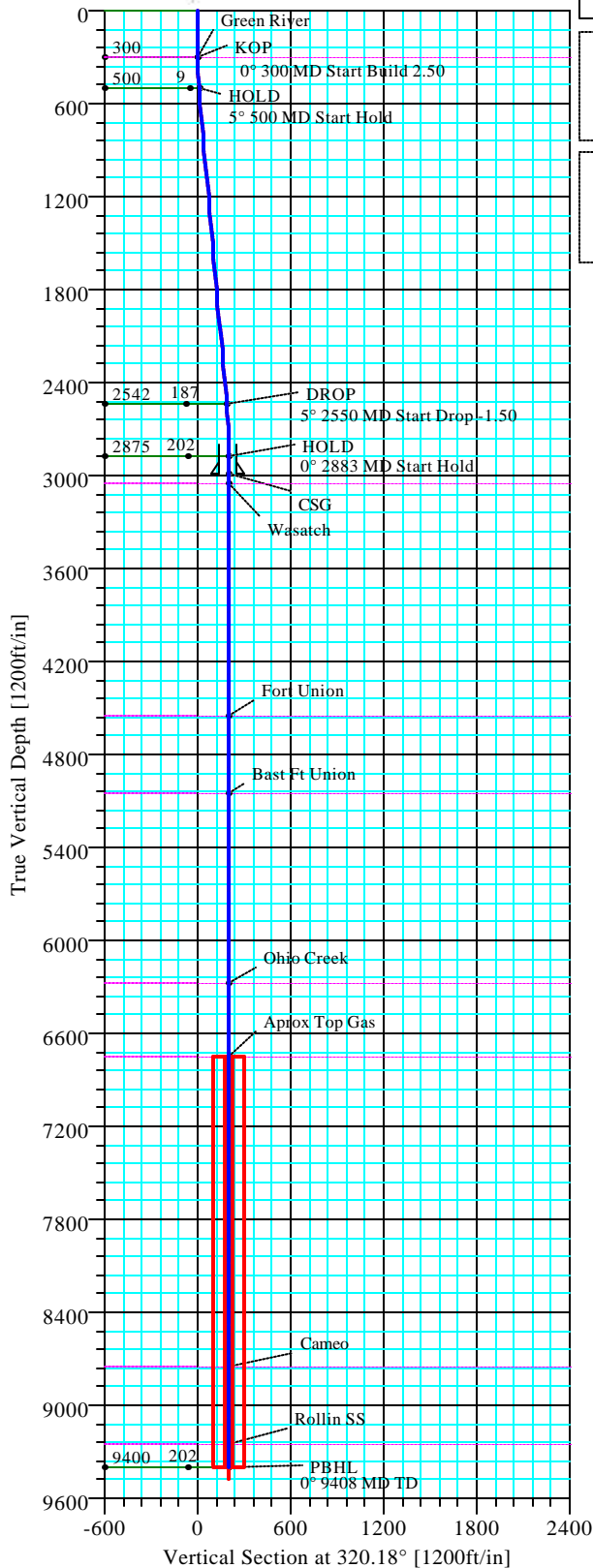
CHEVRON 31-18D
SEC 31-T5S-R96W
2361' FNL, 554' FWL
GARFIELD COUNTY, COLORADO



Weatherford®



KB ELEV: 8469'
GR ELEV: 8458'



SECTION DETAILS

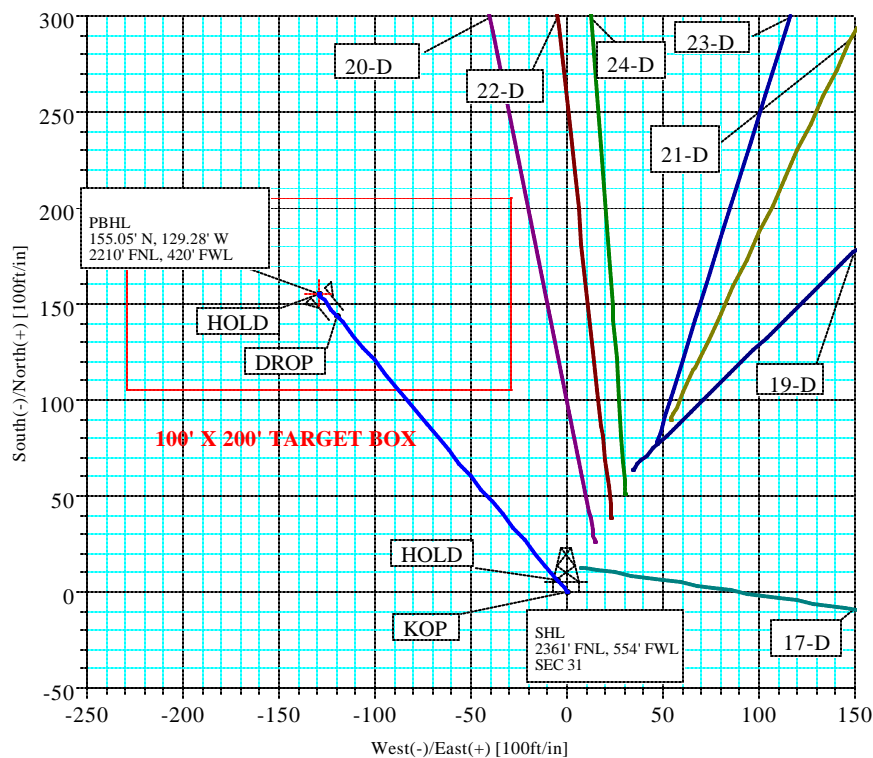
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|---------|------|--------|---------|--------|---------|------|--------|--------|-----------|
| 1 | 0.00 | 0.00 | 320.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 300.00 | 0.00 | 320.18 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 499.93 | 5.00 | 320.18 | 499.67 | 6.69 | -5.58 | 2.50 | 320.18 | 8.71 | |
| 4 | 2550.26 | 5.00 | 320.18 | 2542.21 | 143.89 | -119.98 | 0.00 | 0.00 | 187.35 | |
| 5 | 2883.47 | 0.00 | 320.18 | 2875.00 | 155.05 | -129.28 | 1.50 | 180.00 | 201.87 | |
| 6 | 9408.47 | 0.00 | 320.18 | 9400.00 | 155.05 | -129.28 | 0.00 | 320.18 | 201.87 | PBHL- 18D |

WELL DETAILS

| Name | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|--------|-------|-------|------------|------------|---------------|----------------|------|
| 31-18D | 0.00 | 0.00 | 1644813.96 | 2234661.56 | 39°34'20.607N | 108°12'55.458W | N/A |

TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Shape |
|-----------|---------|--------|---------|------------|------------|---------------------|
| PBHL- 18D | 9400.00 | 155.05 | -129.28 | 1644972.80 | 2234536.97 | Rectangle (100x200) |



FIELD DETAILS

GARFIELD COUNTY (NAD 83)
COLORADO
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: Colorado, Central Zone
Magnetic Model: bggm2007
System Datum: Mean Sea Level
Local North: True North

FORMATION TOP DETAILS

| No. | TVDPath | MDPath | Formation |
|-----|---------|---------|---------------|
| 1 | 300.00 | 300.00 | Green River |
| 2 | 3050.00 | 3058.47 | Wasatch |
| 3 | 4550.00 | 4558.47 | Fort Union |
| 4 | 5050.00 | 5058.47 | Bast Ft Union |
| 5 | 6270.00 | 6278.47 | Ohio Creek |
| 6 | 6750.00 | 6758.47 | Aprox Top Gas |
| 7 | 8750.00 | 8758.47 | Cameo |
| 8 | 9250.00 | 9258.47 | Rollin SS |

SITE DETAILS

CHEVRON 31-18D SENW SEC 31 PAD
SECTION 31
Site Centre Latitude: 39°34'20.607N
Longitude: 108°12'55.458W
Ground Level: 8458.00
Positional Uncertainty: 0.00
Convergence: -1.71



Azimuths to True North
Magnetic North: 10.93°

Magnetic Field
Strength: 52652nT
Dip Angle: 65.86°
Date: 1/10/2008
Model: bggm2007

TOTAL CORRECTION TO TRUE NORTH: 10.93°

Plan: Plan #2 (31-18D/18-D)

Created By: Mario Lainez

Date: 1/24/2008

| | | | |
|---|---|-----------------------|----------------|
| Company: BERRY PETROLEUM COMPANY | Date: 1/24/2008 | Time: 10:42:30 | Page: 1 |
| Field: GARFIELD COUNTY (NAD 83) | Co-ordinate(NE) Reference: Well: 31-18D, True North | | |
| Site: CHEVRON 31-18D SENW SEC 31 PAD | Vertical (TVD) Reference: SITE 8469.0 | | |
| Well: 31-18D | Section (VS) Reference: Well (0.00N,0.00E,320.18Azi) | | |
| Wellpath: 18-D | Survey Calculation Method: Minimum Curvature | Db: Sybase | |

| | |
|-----------------------|---------------------------------|
| Plan: Plan #2 | Date Composed: 1/10/2008 |
| Principal: Yes | Version: 1 |
| | Tied-to: From Surface |

Field: GARFIELD COUNTY (NAD 83)
COLORADO

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: Colorado, Central Zone
Coordinate System: Well Centre
Geomagnetic Model: bggm2007

Site: CHEVRON 31-18D SENW SEC 31 PAD

SECTION 31

| | | |
|--------------------------------------|--------------------------------|------------------------------------|
| Site Position: | Northing: 1644813.96 ft | Latitude: 39 34 20.607 N |
| From: Geographic | Easting: 2234661.56 ft | Longitude: 108 12 55.458 W |
| Position Uncertainty: 0.00 ft | | North Reference: True |
| Ground Level: 8458.00 ft | | Grid Convergence: -1.71 deg |

Well: 31-18D

Slot Name:

| | | |
|--------------------------------------|--------------------------------|-----------------------------------|
| Well Position: +N/-S 0.00 ft | Northing: 1644813.96 ft | Latitude: 39 34 20.607 N |
| +E/-W 0.00 ft | Easting: 2234661.56 ft | Longitude: 108 12 55.458 W |
| Position Uncertainty: 0.00 ft | | |

Wellpath: 18-D

| | | |
|---|--------------------------|---|
| Current Datum: SITE | Height 8469.00 ft | Drilled From: Surface |
| Magnetic Data: 1/10/2008 | | Tie-on Depth: 0.00 ft |
| Field Strength: 52652 nT | | Above System Datum: Mean Sea Level |
| Vertical Section: Depth From (TVD) | +N/-S ft | Declination: 10.93 deg |
| | | Mag Dip Angle: 65.86 deg |
| | | +E/-W ft |
| | | Direction deg |
| 0.00 | 0.00 | 0.00 320.18 |

Plan Section Information

| MD ft | Incl deg | Azim deg | TVD ft | +N/-S ft | +E/-W ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | TFO deg | Target |
|----------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|-----------|
| 0.00 | 0.00 | 320.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 320.18 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 499.93 | 5.00 | 320.18 | 499.67 | 6.69 | -5.58 | 2.50 | 2.50 | 0.00 | 320.18 | |
| 2550.26 | 5.00 | 320.18 | 2542.21 | 143.89 | -119.98 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2883.47 | 0.00 | 320.18 | 2875.00 | 155.05 | -129.28 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 9408.47 | 0.00 | 320.18 | 9400.00 | 155.05 | -129.28 | 0.00 | 0.00 | 0.00 | 320.18 | PBHL- 18D |

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|---------|
| 300.00 | 0.00 | 320.18 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP |
| 400.00 | 2.50 | 320.18 | 399.97 | 1.68 | -1.40 | 2.18 | 2.50 | 2.50 | 0.00 | |
| 499.93 | 5.00 | 320.18 | 499.67 | 6.69 | -5.58 | 8.71 | 2.50 | 2.50 | 0.00 | HOLD |
| 600.00 | 5.00 | 320.18 | 599.37 | 13.39 | -11.16 | 17.43 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 5.00 | 320.18 | 698.99 | 20.08 | -16.74 | 26.15 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 5.00 | 320.18 | 798.61 | 26.77 | -22.32 | 34.86 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 5.00 | 320.18 | 898.23 | 33.46 | -27.90 | 43.57 | 0.00 | 0.00 | 0.00 | |
| 1000.00 | 5.00 | 320.18 | 997.84 | 40.16 | -33.48 | 52.28 | 0.00 | 0.00 | 0.00 | |
| 1100.00 | 5.00 | 320.18 | 1097.46 | 46.85 | -39.06 | 61.00 | 0.00 | 0.00 | 0.00 | |
| 1200.00 | 5.00 | 320.18 | 1197.08 | 53.54 | -44.64 | 69.71 | 0.00 | 0.00 | 0.00 | |
| 1300.00 | 5.00 | 320.18 | 1296.70 | 60.23 | -50.22 | 78.42 | 0.00 | 0.00 | 0.00 | |
| 1400.00 | 5.00 | 320.18 | 1396.32 | 66.92 | -55.80 | 87.13 | 0.00 | 0.00 | 0.00 | |
| 1500.00 | 5.00 | 320.18 | 1495.94 | 73.61 | -61.38 | 95.85 | 0.00 | 0.00 | 0.00 | |
| 1600.00 | 5.00 | 320.18 | 1595.56 | 80.30 | -66.96 | 104.56 | 0.00 | 0.00 | 0.00 | |
| 1700.00 | 5.00 | 320.18 | 1695.18 | 87.00 | -72.54 | 113.27 | 0.00 | 0.00 | 0.00 | |

| | | | |
|---|---|-----------------------|----------------|
| Company: BERRY PETROLEUM COMPANY | Date: 1/24/2008 | Time: 10:42:30 | Page: 2 |
| Field: GARFIELD COUNTY (NAD 83) | Co-ordinate(NE) Reference: Well: 31-18D, True North | | |
| Site: CHEVRON 31-18D SENW SEC 31 PAD | Vertical (TVD) Reference: SITE 8469.0 | | |
| Well: 31-18D | Section (VS) Reference: Well (0.00N,0.00E,320.18Azi) | | |
| Wellpath: 18-D | Survey Calculation Method: Minimum Curvature | Db: Sybase | |

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|---------------|
| 1800.00 | 5.00 | 320.18 | 1794.80 | 93.69 | -78.12 | 121.98 | 0.00 | 0.00 | 0.00 | |
| 1900.00 | 5.00 | 320.18 | 1894.42 | 100.38 | -83.70 | 130.69 | 0.00 | 0.00 | 0.00 | |
| 2000.00 | 5.00 | 320.18 | 1994.04 | 107.07 | -89.28 | 139.41 | 0.00 | 0.00 | 0.00 | |
| 2100.00 | 5.00 | 320.18 | 2093.66 | 113.76 | -94.86 | 148.12 | 0.00 | 0.00 | 0.00 | |
| 2200.00 | 5.00 | 320.18 | 2193.28 | 120.45 | -100.44 | 156.83 | 0.00 | 0.00 | 0.00 | |
| 2300.00 | 5.00 | 320.18 | 2292.90 | 127.14 | -106.02 | 165.54 | 0.00 | 0.00 | 0.00 | |
| 2400.00 | 5.00 | 320.18 | 2392.52 | 133.84 | -111.60 | 174.26 | 0.00 | 0.00 | 0.00 | |
| 2500.00 | 5.00 | 320.18 | 2492.14 | 140.53 | -117.18 | 182.97 | 0.00 | 0.00 | 0.00 | |
| 2550.26 | 5.00 | 320.18 | 2542.21 | 143.89 | -119.98 | 187.35 | 0.00 | 0.00 | 0.00 | DROP |
| 2600.00 | 4.25 | 320.18 | 2591.79 | 146.97 | -122.55 | 191.36 | 1.50 | -1.50 | 0.00 | |
| 2700.00 | 2.75 | 320.18 | 2691.60 | 151.66 | -126.46 | 197.47 | 1.50 | -1.50 | 0.00 | |
| 2800.00 | 1.25 | 320.18 | 2791.53 | 154.34 | -128.70 | 200.96 | 1.50 | -1.50 | 0.00 | |
| 2883.47 | 0.00 | 320.18 | 2875.00 | 155.05 | -129.28 | 201.87 | 1.50 | -1.50 | 0.00 | HOLD |
| 2900.00 | 0.00 | 320.18 | 2891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3000.00 | 0.00 | 320.18 | 2991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | CSG |
| 3058.47 | 0.00 | 320.18 | 3050.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Wasatch |
| 3100.00 | 0.00 | 320.18 | 3091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3200.00 | 0.00 | 320.18 | 3191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3300.00 | 0.00 | 320.18 | 3291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3400.00 | 0.00 | 320.18 | 3391.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3500.00 | 0.00 | 320.18 | 3491.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3600.00 | 0.00 | 320.18 | 3591.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3700.00 | 0.00 | 320.18 | 3691.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3800.00 | 0.00 | 320.18 | 3791.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 3900.00 | 0.00 | 320.18 | 3891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4000.00 | 0.00 | 320.18 | 3991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4100.00 | 0.00 | 320.18 | 4091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4200.00 | 0.00 | 320.18 | 4191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4300.00 | 0.00 | 320.18 | 4291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4400.00 | 0.00 | 320.18 | 4391.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4500.00 | 0.00 | 320.18 | 4491.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4558.47 | 0.00 | 320.18 | 4550.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Fort Union |
| 4600.00 | 0.00 | 320.18 | 4591.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4700.00 | 0.00 | 320.18 | 4691.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4800.00 | 0.00 | 320.18 | 4791.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 4900.00 | 0.00 | 320.18 | 4891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5000.00 | 0.00 | 320.18 | 4991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5058.47 | 0.00 | 320.18 | 5050.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Bast Ft Union |
| 5100.00 | 0.00 | 320.18 | 5091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5200.00 | 0.00 | 320.18 | 5191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5300.00 | 0.00 | 320.18 | 5291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5400.00 | 0.00 | 320.18 | 5391.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5500.00 | 0.00 | 320.18 | 5491.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5600.00 | 0.00 | 320.18 | 5591.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5700.00 | 0.00 | 320.18 | 5691.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5800.00 | 0.00 | 320.18 | 5791.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 5900.00 | 0.00 | 320.18 | 5891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6000.00 | 0.00 | 320.18 | 5991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6100.00 | 0.00 | 320.18 | 6091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6200.00 | 0.00 | 320.18 | 6191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6278.47 | 0.00 | 320.18 | 6270.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Ohio Creek |
| 6300.00 | 0.00 | 320.18 | 6291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6400.00 | 0.00 | 320.18 | 6391.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |

| | | | |
|---|---|-----------------------|----------------|
| Company: BERRY PETROLEUM COMPANY | Date: 1/24/2008 | Time: 10:42:30 | Page: 3 |
| Field: GARFIELD COUNTY (NAD 83) | Co-ordinate(NE) Reference: Well: 31-18D, True North | | |
| Site: CHEVRON 31-18D SENW SEC 31 PAD | Vertical (TVD) Reference: SITE 8469.0 | | |
| Well: 31-18D | Section (VS) Reference: Well (0.00N,0.00E,320.18Azi) | | |
| Wellpath: 18-D | Survey Calculation Method: Minimum Curvature | Db: Sybase | |

Survey

| MD ft | Incl deg | Azim deg | TVD ft | N/S ft | E/W ft | VS ft | DLS deg/100ft | Build deg/100ft | Turn deg/100ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|--------------------|-------------------|---------------|
| 6500.00 | 0.00 | 320.18 | 6491.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6600.00 | 0.00 | 320.18 | 6591.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6700.00 | 0.00 | 320.18 | 6691.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6758.47 | 0.00 | 320.18 | 6750.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Aprox Top Gas |
| 6800.00 | 0.00 | 320.18 | 6791.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 6900.00 | 0.00 | 320.18 | 6891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7000.00 | 0.00 | 320.18 | 6991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7100.00 | 0.00 | 320.18 | 7091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7200.00 | 0.00 | 320.18 | 7191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7300.00 | 0.00 | 320.18 | 7291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7400.00 | 0.00 | 320.18 | 7391.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7500.00 | 0.00 | 320.18 | 7491.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7600.00 | 0.00 | 320.18 | 7591.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7700.00 | 0.00 | 320.18 | 7691.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7800.00 | 0.00 | 320.18 | 7791.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 7900.00 | 0.00 | 320.18 | 7891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8000.00 | 0.00 | 320.18 | 7991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8100.00 | 0.00 | 320.18 | 8091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8200.00 | 0.00 | 320.18 | 8191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8300.00 | 0.00 | 320.18 | 8291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8400.00 | 0.00 | 320.18 | 8391.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8500.00 | 0.00 | 320.18 | 8491.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8600.00 | 0.00 | 320.18 | 8591.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8700.00 | 0.00 | 320.18 | 8691.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8758.47 | 0.00 | 320.18 | 8750.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Cameo |
| 8800.00 | 0.00 | 320.18 | 8791.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 8900.00 | 0.00 | 320.18 | 8891.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 9000.00 | 0.00 | 320.18 | 8991.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 9100.00 | 0.00 | 320.18 | 9091.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 9200.00 | 0.00 | 320.18 | 9191.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 9258.47 | 0.00 | 320.18 | 9250.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | Rollin SS |
| 9300.00 | 0.00 | 320.18 | 9291.53 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | |
| 9408.47 | 0.00 | 320.18 | 9400.00 | 155.05 | -129.28 | 201.87 | 0.00 | 0.00 | 0.00 | PBHL- 18D |

Targets

| Name | Description Dip. Dir. | TVD ft | +N/-S ft | +E/-W ft | Map Northing ft | Map Easting ft | <--- Latitude ---> Deg Min Sec | | | <--- Longitude ---> Deg Min Sec | | |
|----------------------|--------------------------|-----------|-------------|-------------|-----------------------|----------------------|-----------------------------------|----|----------|------------------------------------|----|----------|
| PBHL- 18D | | 9400.00 | 155.05 | -129.28 | 1644972.80 | 2234536.97 | 39 | 34 | 22.139 N | 108 | 12 | 57.109 W |
| -Rectangle (100x200) | | | | | | | | | | | | |
| -Plan hit target | | | | | | | | | | | | |

Casing Points

| MD ft | TVD ft | Diameter in | Hole Size in | Name |
|----------|-----------|----------------|-----------------|------|
| 3000.00 | 2991.53 | 0.000 | 0.000 | CSG |

| | | | |
|---|---|-----------------------|----------------|
| Company: BERRY PETROLEUM COMPANY | Date: 1/24/2008 | Time: 10:42:30 | Page: 4 |
| Field: GARFIELD COUNTY (NAD 83) | Co-ordinate(NE) Reference: Well: 31-18D, True North | | |
| Site: CHEVRON 31-18D SENW SEC 31 PAD | Vertical (TVD) Reference: SITE 8469.0 | | |
| Well: 31-18D | Section (VS) Reference: Well (0.00N,0.00E,320.18Azi) | | |
| Wellpath: 18-D | Survey Calculation Method: Minimum Curvature | Db: Sybase | |

Annotation

| MD ft | TVD ft | |
|----------|-----------|------|
| 300.00 | 300.00 | KOP |
| 499.93 | 499.68 | HOLD |
| 2550.26 | 2542.21 | DROP |
| 2883.47 | 2875.00 | HOLD |
| 9408.47 | 9400.00 | PBHL |

Formations

| MD ft | TVD ft | Formations | Lithology | Dip Angle deg | Dip Direction deg |
|----------|-----------|---------------|-----------|------------------|----------------------|
| 300.00 | 300.00 | Green River | | 0.00 | 0.00 |
| 3058.47 | 3050.00 | Wasatch | | 0.00 | 0.00 |
| 4558.47 | 4550.00 | Fort Union | | 0.00 | 0.00 |
| 5058.47 | 5050.00 | Bast Ft Union | | 0.00 | 0.00 |
| 6278.47 | 6270.00 | Ohio Creek | | 0.00 | 0.00 |
| 6758.47 | 6750.00 | Aprox Top Gas | | 0.00 | 0.00 |
| 8758.47 | 8750.00 | Cameo | | 0.00 | 0.00 |
| 9258.47 | 9250.00 | Rollin SS | | 0.00 | 0.00 |

| | | | | | | | |
|----------------------------|--------------------------------|-----------------------------------|--------------------------|--------------|----------|--------------|---|
| Company: | BERRY PETROLEUM COMPANY | Date: | 1/24/2008 | Time: | 10:48:49 | Page: | 1 |
| Field: | GARFIELD COUNTY (NAD 83) | Co-ordinate(NE) Reference: | Well: 31-18D, True North | | | | |
| Reference Site: | CHEVRON 31-18D SENW SEC 31 PAD | Vertical (TVD) Reference: | SITE 8469.0 | | | | |
| Reference Well: | 31-18D | | | | | | |
| Reference Wellpath: | 18-D | Db: Sybase | | | | | |

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: TVD **Interval:** 100.00 ft
Depth Range: 300.00 to 9400.00 ft
Maximum Radius: 10000.00 ft

Reference: Plan: Plan #2
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

| | | | |
|-------------------|---------|-----------------------|--------------|
| Plan: | Plan #2 | Date Composed: | 1/10/2008 |
| Principal: | Yes | Version: | 1 |
| | | Tied-to: | From Surface |

Summary

| <----- Offset Wellpath -----> | | | Reference | Offset | Ctr-Ctr | Edge | Separation | Warning |
|-------------------------------|--------|-----------------------|-----------|----------|----------------|----------------|------------|---------|
| Site | Well | Wellpath | MD ft | MD ft | Distance ft | Distance ft | Factor | |
| CHEVRON 31-18D | 31-17D | 17-D V1 Plan: Plan #2 | 400.00 | 399.60 | 15.36 | 13.80 | 9.90 | |

Site: CHEVRON 31-18D SENW SEC 31 PAD
Well: 31-17D
Wellpath: 17-D V1 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

| Reference MD ft | TVD ft | Offset MD ft | TVD ft | Semi-Major Axis Ref ft | Offset ft | TFO-HS deg | Offset Location North ft | East ft | Ctr-Ctr Distance ft | Edge Distance ft | Separation Factor | Warning |
|-----------------------|-----------|--------------------|-----------|------------------------------|--------------|---------------|--------------------------------|------------|---------------------------|------------------------|----------------------|---------|
| 300.00 | 300.00 | 300.00 | 300.00 | 0.56 | 0.55 | 69.91 | 12.78 | 7.40 | 14.77 | 13.67 | 13.42 | |
| 400.00 | 399.97 | 399.60 | 399.57 | 0.78 | 0.78 | 85.19 | 12.45 | 9.54 | 15.36 | 13.80 | 9.90 | |
| 500.25 | 500.00 | 498.47 | 498.22 | 1.01 | 1.01 | 116.92 | 11.46 | 15.89 | 22.08 | 20.06 | 10.98 | |
| 600.64 | 600.00 | 597.50 | 596.88 | 1.26 | 1.26 | 134.69 | 10.14 | 24.41 | 35.90 | 33.43 | 14.53 | |
| 701.02 | 700.00 | 696.55 | 695.55 | 1.52 | 1.52 | 142.29 | 8.81 | 32.94 | 51.22 | 48.28 | 17.47 | |
| 801.40 | 800.00 | 795.60 | 794.22 | 1.79 | 1.78 | 146.36 | 7.48 | 41.47 | 67.00 | 63.61 | 19.73 | |
| 901.78 | 900.00 | 894.64 | 892.89 | 2.05 | 2.05 | 148.87 | 6.16 | 50.00 | 82.99 | 79.13 | 21.49 | |
| 1002.16 | 1000.00 | 993.69 | 991.56 | 2.32 | 2.32 | 150.57 | 4.83 | 58.54 | 99.09 | 94.76 | 22.89 | |
| 1102.54 | 1100.00 | 1092.74 | 1090.23 | 2.59 | 2.59 | 151.80 | 3.51 | 67.07 | 115.25 | 110.45 | 24.02 | |
| 1202.93 | 1200.00 | 1191.78 | 1188.90 | 2.87 | 2.86 | 152.72 | 2.18 | 75.60 | 131.44 | 126.17 | 24.95 | |
| 1303.31 | 1300.00 | 1290.83 | 1287.57 | 3.14 | 3.13 | 153.44 | 0.85 | 84.13 | 147.66 | 141.93 | 25.73 | |
| 1403.69 | 1400.00 | 1389.88 | 1386.24 | 3.41 | 3.40 | 154.02 | -0.47 | 92.66 | 163.91 | 157.70 | 26.40 | |
| 1504.07 | 1500.00 | 1488.93 | 1484.91 | 3.69 | 3.68 | 154.49 | -1.80 | 101.19 | 180.16 | 173.48 | 26.97 | |
| 1604.45 | 1600.00 | 1587.97 | 1583.58 | 3.96 | 3.95 | 154.89 | -3.12 | 109.72 | 196.42 | 189.27 | 27.47 | |
| 1704.84 | 1700.00 | 1687.02 | 1682.25 | 4.23 | 4.22 | 155.22 | -4.45 | 118.25 | 212.69 | 205.07 | 27.90 | |
| 1805.22 | 1800.00 | 1786.07 | 1780.92 | 4.51 | 4.49 | 155.51 | -5.78 | 126.78 | 228.97 | 220.88 | 28.29 | |
| 1905.60 | 1900.00 | 1885.12 | 1879.59 | 4.78 | 4.77 | 155.76 | -7.10 | 135.31 | 245.25 | 236.69 | 28.63 | |
| 2005.98 | 2000.00 | 1984.16 | 1978.26 | 5.06 | 5.04 | 155.97 | -8.43 | 143.84 | 261.54 | 252.50 | 28.94 | |
| 2106.36 | 2100.00 | 2083.21 | 2076.93 | 5.33 | 5.32 | 156.17 | -9.75 | 152.37 | 277.83 | 268.32 | 29.21 | |
| 2206.74 | 2200.00 | 2182.26 | 2175.60 | 5.61 | 5.59 | 156.34 | -11.08 | 160.90 | 294.12 | 284.14 | 29.46 | |
| 2307.13 | 2300.00 | 2281.30 | 2274.27 | 5.88 | 5.86 | 156.49 | -12.40 | 169.43 | 310.41 | 299.96 | 29.69 | |
| 2407.51 | 2400.00 | 2380.35 | 2372.94 | 6.16 | 6.14 | 156.63 | -13.73 | 177.96 | 326.71 | 315.78 | 29.90 | |
| 2507.89 | 2500.00 | 2479.40 | 2471.61 | 6.43 | 6.41 | 156.75 | -15.06 | 186.49 | 343.01 | 331.61 | 30.09 | |
| 2608.23 | 2600.00 | 2578.47 | 2570.31 | 6.68 | 6.69 | 156.89 | -16.38 | 195.02 | 358.90 | 347.05 | 30.28 | |
| 2708.41 | 2700.00 | 2677.71 | 2669.17 | 6.88 | 6.96 | 156.91 | -17.71 | 203.57 | 372.59 | 360.32 | 30.37 | |
| 2808.47 | 2800.00 | 2777.11 | 2768.19 | 7.05 | 7.24 | 156.76 | -19.04 | 212.13 | 383.87 | 371.20 | 30.29 | |
| 2908.47 | 2900.00 | 2876.68 | 2867.39 | 7.22 | 7.51 | 116.62 | -20.37 | 220.70 | 392.84 | 379.23 | 28.86 | |
| 3008.47 | 3000.00 | 2976.30 | 2966.63 | 7.41 | 7.79 | 116.24 | -21.71 | 229.28 | 401.15 | 387.11 | 28.57 | |
| 3108.47 | 3100.00 | 3075.92 | 3065.87 | 7.60 | 8.06 | 115.88 | -23.04 | 237.86 | 409.48 | 395.00 | 28.29 | |
| 3208.47 | 3200.00 | 3175.54 | 3165.11 | 7.80 | 8.34 | 115.53 | -24.38 | 246.44 | 417.82 | 402.91 | 28.03 | |
| 3308.47 | 3300.00 | 3275.16 | 3264.35 | 8.00 | 8.62 | 115.19 | -25.71 | 255.02 | 426.18 | 410.84 | 27.78 | |
| 3408.47 | 3400.00 | 3374.78 | 3363.59 | 8.19 | 8.89 | 114.87 | -27.04 | 263.60 | 434.55 | 418.77 | 27.54 | |
| 3508.47 | 3500.00 | 3474.40 | 3462.83 | 8.39 | 9.17 | 114.56 | -28.38 | 272.18 | 442.94 | 426.72 | 27.31 | |
| 3608.47 | 3600.00 | 3574.02 | 3562.07 | 8.60 | 9.44 | 114.26 | -29.71 | 280.76 | 451.34 | 434.68 | 27.10 | |
| 3708.47 | 3700.00 | 3673.64 | 3661.31 | 8.80 | 9.72 | 113.97 | -31.04 | 289.34 | 459.75 | 442.65 | 26.90 | |
| 3808.47 | 3800.00 | 3773.26 | 3760.55 | 9.00 | 10.00 | 113.69 | -32.38 | 297.92 | 468.17 | 450.64 | 26.70 | |

Company: BERRY PETROLEUM COMPANY
Field: GARFIELD COUNTY (NAD 83)
Reference Site: CHEVRON 31-18D SENW SEC 31 PAD
Reference Well: 31-18D
Reference Wellpath: 18-D

Date: 1/24/2008
Time: 10:48:49
Page: 2

Co-ordinate(NE) Reference: Well: 31-18D, True North
Vertical (TVD) Reference: SITE 8469.0
Db: Sybase

Site: CHEVRON 31-18D SENW SEC 31 PAD
Well: 31-17D
Wellpath: 17-D V1 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

| Reference | | Offset | | Semi-Major Axis | | | Offset Location | | Ctr-Ctr | | Edge | | Separation | | Warning |
|-----------|---------|---------|---------|-----------------|--------|--------|-----------------|--------|----------|----------|--------|--------|------------|--------|---------|
| MD | TVD | MD | TVD | Ref | Offset | TFO-HS | North | East | Distance | Distance | Factor | Factor | Factor | Factor | |
| ft | ft | ft | ft | ft | ft | deg | ft | ft | ft | ft | | | | | |
| 3908.47 | 3900.00 | 3872.88 | 3859.79 | 9.21 | 10.27 | 113.42 | -33.71 | 306.50 | 476.60 | 458.63 | | | 26.52 | | |
| 4008.47 | 4000.00 | 3972.50 | 3959.03 | 9.41 | 10.55 | 113.16 | -35.04 | 315.07 | 485.04 | 466.63 | | | 26.34 | | |
| 4108.47 | 4100.00 | 4072.12 | 4058.27 | 9.62 | 10.82 | 112.91 | -36.38 | 323.65 | 493.49 | 474.64 | | | 26.17 | | |
| 4208.47 | 4200.00 | 4171.74 | 4157.51 | 9.82 | 11.10 | 112.67 | -37.71 | 332.23 | 501.95 | 482.66 | | | 26.01 | | |
| 4308.47 | 4300.00 | 4271.36 | 4256.75 | 10.03 | 11.38 | 112.43 | -39.04 | 340.81 | 510.42 | 490.68 | | | 25.86 | | |
| 4408.47 | 4400.00 | 4370.98 | 4355.99 | 10.24 | 11.65 | 112.21 | -40.38 | 349.39 | 518.90 | 498.72 | | | 25.71 | | |
| 4508.47 | 4500.00 | 4470.60 | 4455.23 | 10.45 | 11.93 | 111.99 | -41.71 | 357.97 | 527.38 | 506.76 | | | 25.57 | | |
| 4608.47 | 4600.00 | 4570.22 | 4554.47 | 10.66 | 12.21 | 111.78 | -43.05 | 366.55 | 535.88 | 514.81 | | | 25.43 | | |
| 4708.47 | 4700.00 | 4669.83 | 4653.71 | 10.87 | 12.48 | 111.57 | -44.38 | 375.13 | 544.37 | 522.86 | | | 25.30 | | |
| 4808.47 | 4800.00 | 4769.45 | 4752.95 | 11.08 | 12.76 | 111.37 | -45.71 | 383.71 | 552.88 | 530.92 | | | 25.18 | | |
| 4908.47 | 4900.00 | 4869.07 | 4852.19 | 11.29 | 13.03 | 111.18 | -47.05 | 392.29 | 561.39 | 538.99 | | | 25.06 | | |
| 5008.47 | 5000.00 | 4968.69 | 4951.43 | 11.50 | 13.31 | 110.99 | -48.38 | 400.87 | 569.91 | 547.06 | | | 24.94 | | |
| 5108.47 | 5100.00 | 5068.31 | 5050.68 | 11.72 | 13.59 | 110.81 | -49.71 | 409.45 | 578.44 | 555.14 | | | 24.83 | | |
| 5208.47 | 5200.00 | 5168.92 | 5151.96 | 11.93 | 13.83 | 110.64 | -51.03 | 417.94 | 585.73 | 562.01 | | | 24.69 | | |
| 5308.47 | 5300.00 | 5301.56 | 5283.48 | 12.14 | 14.03 | 110.53 | -51.83 | 423.06 | 590.04 | 565.91 | | | 24.45 | | |
| 5408.47 | 5400.00 | 5418.10 | 5400.00 | 12.36 | 14.21 | 110.50 | -52.07 | 424.60 | 591.34 | 565.02 | | | 22.47 | | |
| 5508.47 | 5500.00 | 5518.10 | 5500.00 | 12.57 | 14.38 | 110.50 | -52.07 | 424.60 | 591.34 | 564.64 | | | 22.15 | | |
| 5608.47 | 5600.00 | 5618.10 | 5600.00 | 12.78 | 14.57 | 110.50 | -52.07 | 424.60 | 591.34 | 564.23 | | | 21.81 | | |
| 5708.47 | 5700.00 | 5718.10 | 5700.00 | 13.00 | 14.76 | 110.50 | -52.07 | 424.60 | 591.34 | 563.82 | | | 21.49 | | |
| 5808.47 | 5800.00 | 5818.10 | 5800.00 | 13.21 | 14.95 | 110.50 | -52.07 | 424.60 | 591.34 | 563.41 | | | 21.17 | | |
| 5908.47 | 5900.00 | 5918.10 | 5900.00 | 13.43 | 15.14 | 110.50 | -52.07 | 424.60 | 591.34 | 563.00 | | | 20.87 | | |
| 6008.47 | 6000.00 | 6018.10 | 6000.00 | 13.65 | 15.33 | 110.50 | -52.07 | 424.60 | 591.34 | 562.59 | | | 20.57 | | |
| 6108.47 | 6100.00 | 6118.10 | 6100.00 | 13.86 | 15.53 | 110.50 | -52.07 | 424.60 | 591.34 | 562.18 | | | 20.28 | | |
| 6208.47 | 6200.00 | 6218.10 | 6200.00 | 14.08 | 15.72 | 110.50 | -52.07 | 424.60 | 591.34 | 561.76 | | | 19.99 | | |
| 6308.47 | 6300.00 | 6318.10 | 6300.00 | 14.29 | 15.91 | 110.50 | -52.07 | 424.60 | 591.34 | 561.35 | | | 19.72 | | |
| 6408.47 | 6400.00 | 6418.10 | 6400.00 | 14.51 | 16.11 | 110.50 | -52.07 | 424.60 | 591.34 | 560.93 | | | 19.45 | | |
| 6508.47 | 6500.00 | 6518.10 | 6500.00 | 14.73 | 16.31 | 110.50 | -52.07 | 424.60 | 591.34 | 560.51 | | | 19.19 | | |
| 6608.47 | 6600.00 | 6618.10 | 6600.00 | 14.95 | 16.50 | 110.50 | -52.07 | 424.60 | 591.34 | 560.10 | | | 18.93 | | |
| 6708.47 | 6700.00 | 6718.10 | 6700.00 | 15.16 | 16.70 | 110.50 | -52.07 | 424.60 | 591.34 | 559.68 | | | 18.68 | | |
| 6808.47 | 6800.00 | 6818.10 | 6800.00 | 15.38 | 16.90 | 110.50 | -52.07 | 424.60 | 591.34 | 559.26 | | | 18.43 | | |
| 6908.47 | 6900.00 | 6918.10 | 6900.00 | 15.60 | 17.10 | 110.50 | -52.07 | 424.60 | 591.34 | 558.84 | | | 18.20 | | |
| 7008.47 | 7000.00 | 7018.10 | 7000.00 | 15.82 | 17.30 | 110.50 | -52.07 | 424.60 | 591.34 | 558.42 | | | 17.96 | | |
| 7108.47 | 7100.00 | 7118.10 | 7100.00 | 16.04 | 17.50 | 110.50 | -52.07 | 424.60 | 591.34 | 558.00 | | | 17.74 | | |
| 7208.47 | 7200.00 | 7218.10 | 7200.00 | 16.25 | 17.70 | 110.50 | -52.07 | 424.60 | 591.34 | 557.57 | | | 17.51 | | |
| 7308.47 | 7300.00 | 7318.10 | 7300.00 | 16.47 | 17.90 | 110.50 | -52.07 | 424.60 | 591.34 | 557.15 | | | 17.30 | | |
| 7408.47 | 7400.00 | 7418.10 | 7400.00 | 16.69 | 18.10 | 110.50 | -52.07 | 424.60 | 591.34 | 556.73 | | | 17.09 | | |
| 7508.47 | 7500.00 | 7518.10 | 7500.00 | 16.91 | 18.31 | 110.50 | -52.07 | 424.60 | 591.34 | 556.30 | | | 16.88 | | |
| 7608.47 | 7600.00 | 7618.10 | 7600.00 | 17.13 | 18.51 | 110.50 | -52.07 | 424.60 | 591.34 | 555.88 | | | 16.68 | | |
| 7708.47 | 7700.00 | 7718.10 | 7700.00 | 17.35 | 18.71 | 110.50 | -52.07 | 424.60 | 591.34 | 555.45 | | | 16.48 | | |
| 7808.47 | 7800.00 | 7818.10 | 7800.00 | 17.57 | 18.92 | 110.50 | -52.07 | 424.60 | 591.34 | 555.03 | | | 16.29 | | |
| 7908.47 | 7900.00 | 7918.10 | 7900.00 | 17.79 | 19.12 | 110.50 | -52.07 | 424.60 | 591.34 | 554.60 | | | 16.10 | | |
| 8008.47 | 8000.00 | 8018.10 | 8000.00 | 18.01 | 19.33 | 110.50 | -52.07 | 424.60 | 591.34 | 554.17 | | | 15.91 | | |
| 8108.47 | 8100.00 | 8118.10 | 8100.00 | 18.23 | 19.53 | 110.50 | -52.07 | 424.60 | 591.34 | 553.75 | | | 15.73 | | |
| 8208.47 | 8200.00 | 8218.10 | 8200.00 | 18.45 | 19.74 | 110.50 | -52.07 | 424.60 | 591.34 | 553.32 | | | 15.55 | | |
| 8308.47 | 8300.00 | 8318.10 | 8300.00 | 18.67 | 19.95 | 110.50 | -52.07 | 424.60 | 591.34 | 552.89 | | | 15.38 | | |
| 8408.47 | 8400.00 | 8418.10 | 8400.00 | 18.89 | 20.15 | 110.50 | -52.07 | 424.60 | 591.34 | 552.46 | | | 15.21 | | |
| 8508.47 | 8500.00 | 8518.10 | 8500.00 | 19.11 | 20.36 | 110.50 | -52.07 | 424.60 | 591.34 | 552.03 | | | 15.04 | | |
| 8608.47 | 8600.00 | 8618.10 | 8600.00 | 19.33 | 20.57 | 110.50 | -52.07 | 424.60 | 591.34 | 551.60 | | | 14.88 | | |
| 8708.47 | 8700.00 | 8718.10 | 8700.00 | 19.55 | 20.77 | 110.50 | -52.07 | 424.60 | 591.34 | 551.17 | | | 14.72 | | |
| 8808.47 | 8800.00 | 8818.10 | 8800.00 | 19.77 | 20.98 | 110.50 | -52.07 | 424.60 | 591.34 | 550.74 | | | 14.57 | | |
| 8908.47 | 8900.00 | 8918.10 | 8900.00 | 19.99 | 21.19 | 110.50 | -52.07 | 424.60 | 591.34 | 550.31 | | | 14.41 | | |

| | | | | | | | |
|----------------------------|--------------------------------|-----------------------------------|--------------------------|--------------|----------|--------------|---|
| Company: | BERRY PETROLEUM COMPANY | Date: | 1/24/2008 | Time: | 10:48:49 | Page: | 3 |
| Field: | GARFIELD COUNTY (NAD 83) | Co-ordinate(NE) Reference: | Well: 31-18D, True North | | | | |
| Reference Site: | CHEVRON 31-18D SENW SEC 31 PAD | Vertical (TVD) Reference: | SITE 8469.0 | | | | |
| Reference Well: | 31-18D | Db: | Sybase | | | | |
| Reference Wellpath: | 18-D | | | | | | |

Site: CHEVRON 31-18D SENW SEC 31 PAD

Well: 31-17D

Wellpath: 17-D V1 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

| Reference | | Offset | | Semi-Major Axis | | | Offset Location | | Ctr-Ctr | Edge | Separation | Warning |
|-----------|---------|---------|---------|-----------------|--------|--------|-----------------|--------|----------|----------|------------|---------|
| MD | TVD | MD | TVD | Ref | Offset | TFO-HS | North | East | Distance | Distance | Factor | |
| ft | ft | ft | ft | ft | ft | deg | ft | ft | ft | ft | | |
| 9008.47 | 9000.00 | 9018.10 | 9000.00 | 20.21 | 21.40 | 110.50 | -52.07 | 424.60 | 591.34 | 549.88 | 14.26 | |
| 9108.47 | 9100.00 | 9118.10 | 9100.00 | 20.43 | 21.61 | 110.50 | -52.07 | 424.60 | 591.34 | 549.45 | 14.12 | |
| 9208.47 | 9200.00 | 9218.10 | 9200.00 | 20.65 | 21.82 | 110.50 | -52.07 | 424.60 | 591.34 | 549.02 | 13.97 | |
| 9308.47 | 9300.00 | 9318.10 | 9300.00 | 20.87 | 22.03 | 110.50 | -52.07 | 424.60 | 591.34 | 548.58 | 13.83 | |
| 9408.47 | 9400.00 | 9418.10 | 9400.00 | 21.10 | 22.24 | 110.50 | -52.07 | 424.60 | 591.34 | 548.15 | 13.69 | |