

Denver Division- Colorado

DJ - Hereford Ranch

Igo Creek 13-19H

Igo Creek 13-19H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

04 March, 2011

EOG Resources Inc

Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Site Igo Creek 13-19H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 5025.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5025.00ft (TBD) |
| Site: | Igo Creek 13-19H | North Reference: | True |
| Well: | Igo Creek 13-19H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Wellbore | | |
| Design: | APD Directional Plan | | |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Project | DJ - Hereford Ranch, Weld County | | |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | Colorado North 501 | | |

| | | | | | |
|-----------------------|----------|------------------|-----------------|-------------------|------------------|
| Site | | Igo Creek 13-19H | | | |
| Site Position: | | Northing: | 516,742.61 ft | Latitude: | 40° 44' 32.888 N |
| From: | Lat/Long | Easting: | 2,410,286.65 ft | Longitude: | 104° 1' 9.638 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | " | Grid Convergence: | 0.96 deg |

| | | | | | | |
|----------------------|------------------|---------|---------------------|-----------------|---------------|------------------|
| Well | Igo Creek 13-19H | | | | | |
| Well Position | +N-S | 0.00 ft | Northing: | 516,742.61 ft | Latitude: | 40° 44' 32.888 N |
| | +E-W | 0.00 ft | Easting: | 2,410,286.65 ft | Longitude: | 104° 1' 9.638 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | ft | Ground Level: | 5,003.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------------|------------------------|----------------------------|
| Wellbore | Original Wellbore | | | | |
| Magnetics | Model Name | Sample Date | Declination (deg) | Dip Angle (deg) | Field Strength (nT) |
| | IGRF200510 | 3/4/2011 | 8.48 | 67.47 | 53,436 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|------------------------|
| Design | APD Directional Plan | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (deg) |
| | 0.00 | 0.00 | 0.00 | 158.95 |

| Plan Sections | | | | | | | | | | |
|----------------------|-------------------|---------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|-----------|---------------------|
| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (?/100ft) | Build Rate (?/100ft) | Turn Rate (?/100ft) | TFO (deg) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,719.53 | 0.00 | 0.00 | 5,719.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,469.54 | 90.00 | 158.95 | 6,197.00 | -445.62 | 171.46 | 12.00 | 12.00 | 0.00 | 158.95 | |
| 10,785.68 | 90.00 | 158.95 | 6,197.00 | -4,473.85 | 1,721.45 | 0.00 | 0.00 | 0.00 | 0.00 | Igo Creek 13-19H (I |

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| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5025.00ft (TBD) |
| Site: | Igo Creek 13-19H | North Reference: | True |
| Well: | Igo Creek 13-19H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Wellbore | | |
| Design: | APD Directional Plan | | |

Planned Survey

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (?/100ft) | Build Rate (?/100ft) | Turn Rate (?/100ft) |
|---------------------|-------------------|---------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 805.00 | 0.00 | 0.00 | 805.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9-5/8" | | | | | | | | | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 0.00 | 0.00 | 2,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 0.00 | 0.00 | 2,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 0.00 | 0.00 | 2,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 0.00 | 0.00 | 2,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 0.00 | 0.00 | 3,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 0.00 | 0.00 | 3,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 0.00 | 0.00 | 3,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 0.00 | 0.00 | 3,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 0.00 | 0.00 | 3,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 0.00 | 0.00 | 3,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 0.00 | 0.00 | 3,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 0.00 | 0.00 | 3,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 0.00 | 0.00 | 3,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 0.00 | 0.00 | 3,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 0.00 | 0.00 | 4,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 0.00 | 0.00 | 4,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 0.00 | 0.00 | 4,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 0.00 | 0.00 | 4,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 0.00 | 0.00 | 4,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.00 | 4,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| Design: | APD Directional Plan | | |

Planned Survey

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (?/100ft) | Build Rate (?/100ft) | Turn Rate (?/100ft) |
|---------------------|-------------------|---------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 5,100.00 | 0.00 | 0.00 | 5,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.00 | 5,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,719.53 | 0.00 | 0.00 | 5,719.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 9.66 | 158.95 | 5,799.62 | -6.31 | 2.43 | 6.76 | 12.00 | 12.00 | 0.00 |
| 5,900.00 | 21.66 | 158.95 | 5,895.73 | -31.45 | 12.10 | 33.70 | 12.00 | 12.00 | 0.00 |
| 6,000.00 | 33.66 | 158.95 | 5,984.15 | -74.69 | 28.74 | 80.03 | 12.00 | 12.00 | 0.00 |
| 6,100.00 | 45.66 | 158.95 | 6,061.00 | -134.15 | 51.62 | 143.73 | 12.00 | 12.00 | 0.00 |
| 6,200.00 | 57.66 | 158.95 | 6,122.92 | -207.21 | 79.73 | 222.02 | 12.00 | 12.00 | 0.00 |
| 6,300.00 | 69.66 | 158.95 | 6,167.22 | -290.69 | 111.85 | 311.47 | 12.00 | 12.00 | 0.00 |
| 6,400.00 | 81.66 | 158.95 | 6,191.95 | -380.95 | 146.58 | 408.18 | 12.00 | 12.00 | 0.00 |
| 6,469.54 | 90.00 | 158.95 | 6,197.00 | -445.62 | 171.47 | 477.47 | 12.00 | 12.00 | 0.00 |
| 7" | | | | | | | | | |
| 6,500.00 | 90.00 | 158.95 | 6,197.00 | -474.05 | 182.40 | 507.93 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 90.00 | 158.95 | 6,197.00 | -567.38 | 218.32 | 607.93 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.00 | 158.95 | 6,197.00 | -660.71 | 254.23 | 707.93 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.00 | 158.95 | 6,197.00 | -754.04 | 290.14 | 807.93 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.00 | 158.95 | 6,197.00 | -847.37 | 326.05 | 907.93 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.00 | 158.95 | 6,197.00 | -940.69 | 361.96 | 1,007.93 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.00 | 158.95 | 6,197.00 | -1,034.02 | 397.87 | 1,107.93 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.00 | 158.95 | 6,197.00 | -1,127.35 | 433.78 | 1,207.93 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.00 | 158.95 | 6,197.00 | -1,220.68 | 469.70 | 1,307.93 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 158.95 | 6,197.00 | -1,314.01 | 505.61 | 1,407.93 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 158.95 | 6,197.00 | -1,407.34 | 541.52 | 1,507.93 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 158.95 | 6,197.00 | -1,500.67 | 577.43 | 1,607.93 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 158.95 | 6,197.00 | -1,594.00 | 613.34 | 1,707.93 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 158.95 | 6,197.00 | -1,687.33 | 649.25 | 1,807.93 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 158.95 | 6,197.00 | -1,780.66 | 685.16 | 1,907.93 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 158.95 | 6,197.00 | -1,873.99 | 721.08 | 2,007.93 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 158.95 | 6,197.00 | -1,967.32 | 756.99 | 2,107.93 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 158.95 | 6,197.00 | -2,060.65 | 792.90 | 2,207.93 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 158.95 | 6,197.00 | -2,153.98 | 828.81 | 2,307.93 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 158.95 | 6,197.00 | -2,247.31 | 864.72 | 2,407.93 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 158.95 | 6,197.00 | -2,340.64 | 900.63 | 2,507.93 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 158.95 | 6,197.00 | -2,433.96 | 936.54 | 2,607.93 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 158.95 | 6,197.00 | -2,527.29 | 972.45 | 2,707.93 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.00 | 158.95 | 6,197.00 | -2,620.62 | 1,008.37 | 2,807.93 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.00 | 158.95 | 6,197.00 | -2,713.95 | 1,044.28 | 2,907.93 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.00 | 158.95 | 6,197.00 | -2,807.28 | 1,080.19 | 3,007.93 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 158.95 | 6,197.00 | -2,900.61 | 1,116.10 | 3,107.93 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 158.95 | 6,197.00 | -2,993.94 | 1,152.01 | 3,207.93 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 158.95 | 6,197.00 | -3,087.27 | 1,187.92 | 3,307.93 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 158.95 | 6,197.00 | -3,180.60 | 1,223.83 | 3,407.93 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 158.95 | 6,197.00 | -3,273.93 | 1,259.75 | 3,507.93 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 158.95 | 6,197.00 | -3,367.26 | 1,295.66 | 3,607.93 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 158.95 | 6,197.00 | -3,460.59 | 1,331.57 | 3,707.93 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 158.95 | 6,197.00 | -3,553.92 | 1,367.48 | 3,807.93 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 158.95 | 6,197.00 | -3,647.25 | 1,403.39 | 3,907.93 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 158.95 | 6,197.00 | -3,740.58 | 1,439.30 | 4,007.93 | 0.00 | 0.00 | 0.00 |

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| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5025.00ft (TBD) |
| Site: | Igo Creek 13-19H | North Reference: | True |
| Well: | Igo Creek 13-19H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Original Wellbore | | |
| Design: | APD Directional Plan | | |

Planned Survey

| Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (?/100ft) | Build Rate (?/100ft) | Turn Rate (?/100ft) |
|---------------------------------|-------------------|---------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 10,100.00 | 90.00 | 158.95 | 6,197.00 | -3,833.91 | 1,475.21 | 4,107.93 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 158.95 | 6,197.00 | -3,927.24 | 1,511.13 | 4,207.93 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 158.95 | 6,197.00 | -4,020.56 | 1,547.04 | 4,307.93 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 158.95 | 6,197.00 | -4,113.89 | 1,582.95 | 4,407.93 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 158.95 | 6,197.00 | -4,207.22 | 1,618.86 | 4,507.93 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 158.95 | 6,197.00 | -4,300.55 | 1,654.77 | 4,607.93 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 158.95 | 6,197.00 | -4,393.88 | 1,690.68 | 4,707.93 | 0.00 | 0.00 | 0.00 |
| 10,785.68 | 90.00 | 158.95 | 6,197.00 | -4,473.85 | 1,721.45 | 4,793.61 | 0.00 | 0.00 | 0.00 |
| 4 1/2" - Igo Creek 13-19H (BHL) | | | | | | | | | |

Targets

Target Name

| - hit/miss target | Dip Angle (deg) | Dip Dir. (deg) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---------------------------|-----------------|----------------|----------|------------|------------|---------------|--------------|------------------|------------------|
| - Shape | | | | | | | | | |
| Igo Creek 13-19H (BHL) | 0.00 | 0.00 | 6,197.00 | -4,473.85 | 1,721.45 | 512,298.14 | 2,412,082.56 | 40° 43' 48.680 N | 104° 0' 47.279 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

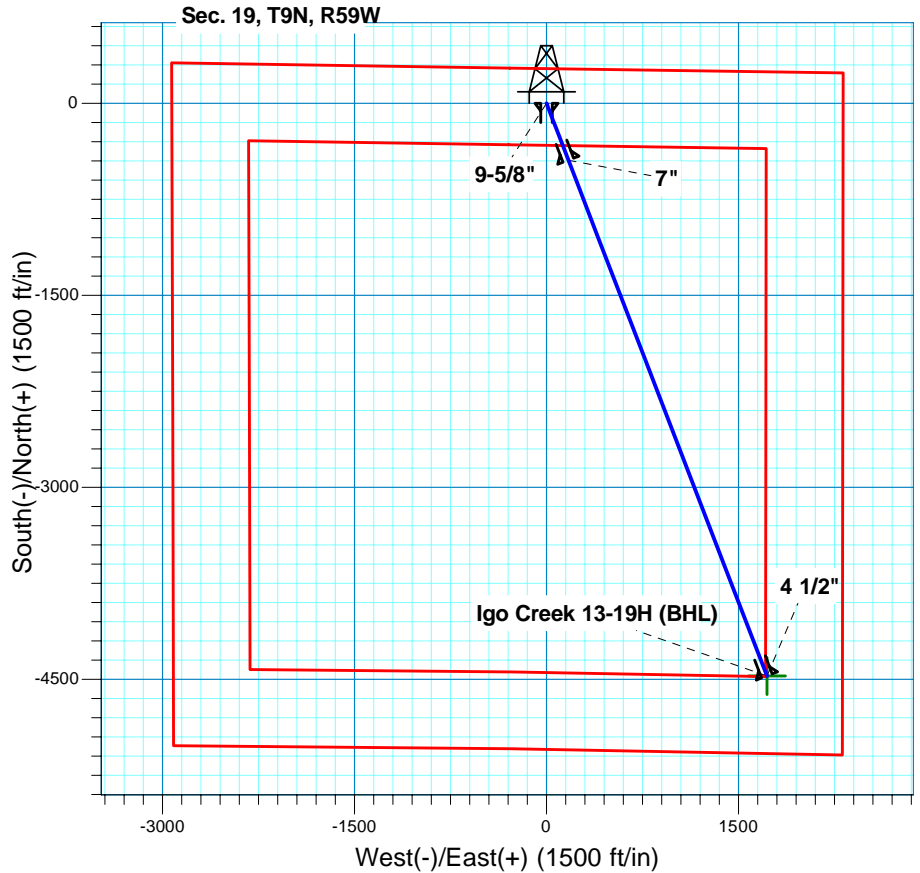
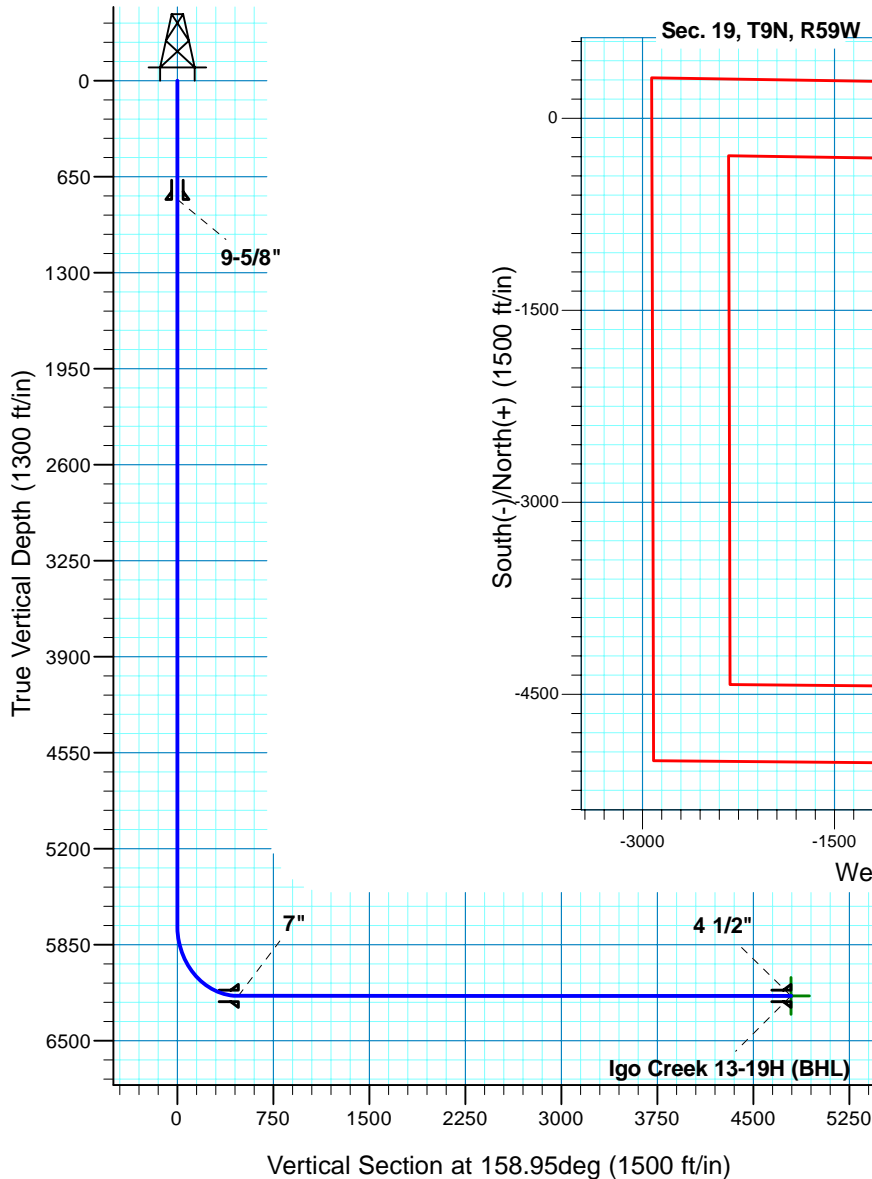
Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|--------|---------------------|-------------------|
| 805.00 | 805.00 | 9-5/8" | 9-5/8 | 13-1/2 |
| 6,469.54 | 6,197.00 | 7" | 7 | 8-3/4 |
| 10,785.68 | 6,197.00 | 4 1/2" | 4-1/2 | 6 |

Igo Creek 13-19H
Section 19 T9N R59W
Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 5003.00 RIG @ 5025.00ft (TBD)
Northing Easting Latitude Longitude
516742.61 2410286.65 40° 44' 32.888 N 104° 1' 9.638 W



T M
Azimuths to True North
Magnetic North: 8.48°
Magnetic Field
Strength: 53435.5nT
Dip Angle: 67.47°
Date: 3/4/2011
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Igo Creek 13-19H
Well: Igo Creek 13-19H
Plan: APD Directional Plan

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|----------|---------|-------|--------|---------|------------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 5719.53 | 0.00 | 0.00 | 5719.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 6469.54 | 90.00 | 158.95 | 6197.00 | -445.62 | 171.46 | 12.00 | 158.95 | 477.47 | |
| 4 | 10785.68 | 90.00 | 158.95 | 6197.00 | -4473.85 | 1721.45 | 0.00 | 0.00 | 4793.61 | Igo Creek 13-19H (BHL) |

TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape Point |
|------------------------|---------|----------|---------|-----------|------------|------------------|------------------|-------------|
| Igo Creek 13-19H (BHL) | 6197.00 | -4473.85 | 1721.45 | 512298.14 | 2412082.56 | 40° 43' 48.680 N | 104° 0' 47.279 W | |