

Denver Division- Colorado

DJ - Hereford Ranch

Igo Creek 14-20H

Igo Creek 14-20H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

07 February, 2011

EOG Resources Inc

Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Site Igo Creek 14-20H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 4999.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 4999.00ft (TBD) |
| Site: | Igo Creek 14-20H | North Reference: | True |
| Well: | Igo Creek 14-20H | 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 14-20H | | |
| Site Position: | | Northing: | 516,581.83 ft |
| From: | Lat/Long | Easting: | 2,415,398.91 ft |
| Position Uncertainty: | 0.00 ft | Slot Radius: | " |
| | | Latitude: | 40° 44' 30.451 N |
| | | Longitude: | 104° 0' 3.269 W |
| | | Grid Convergence: | 0.97 deg |

| | | | |
|-----------------------------|------------------|----------------------------|---------------------------------|
| Well | Igo Creek 14-20H | | |
| Well Position | +N/-S | 0.00 ft | Northing: 516,581.83 ft |
| | +E/-W | 0.00 ft | Easting: 2,415,398.91 ft |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | ft |
| | | Latitude: | 40° 44' 30.451 N |
| | | Longitude: | 104° 0' 3.269 W |
| | | Ground Level: | 4,977.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------------|------------------------|----------------------------|
| Wellbore | Original Wellbore | | | | |
| Magnetics | Model Name | Sample Date | Declination (deg) | Dip Angle (deg) | Field Strength (nT) |
| | IGRF200510 | 1/19/2011 | 8.48 | 67.47 | 53,450 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|------------------------|
| 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 | 159.05 |

| 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 | |
| 5,741.53 | 0.00 | 0.00 | 5,741.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,491.54 | 90.00 | 159.05 | 6,219.00 | -445.91 | 170.71 | 12.00 | 12.00 | 0.00 | 159.05 | |
| 10,505.73 | 90.00 | 159.05 | 6,219.00 | -4,194.78 | 1,605.87 | 0.00 | 0.00 | 0.00 | 0.00 | Igo Creek 14-20H (I |

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| Database: | EDM | Local Co-ordinate Reference: | Site Igo Creek 14-20H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 4999.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 4999.00ft (TBD) |
| Site: | Igo Creek 14-20H | North Reference: | True |
| Well: | Igo Creek 14-20H | 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 |
| 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 |
| 5,100.00 | 0.00 | 0.00 | 5,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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| Wellbore: | Original Wellbore | | |
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| 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) |
| 5,200.00 | 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 |
| 5,741.53 | 0.00 | 0.00 | 5,741.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 7.02 | 159.05 | 5,799.85 | -3.34 | 1.28 | 3.58 | 12.00 | 12.00 | 0.00 |
| 5,900.00 | 19.02 | 159.05 | 5,897.11 | -24.33 | 9.32 | 26.06 | 12.00 | 12.00 | 0.00 |
| 6,000.00 | 31.02 | 159.05 | 5,987.56 | -63.75 | 24.41 | 68.27 | 12.00 | 12.00 | 0.00 |
| 6,100.00 | 43.02 | 159.05 | 6,067.26 | -119.88 | 45.89 | 128.36 | 12.00 | 12.00 | 0.00 |
| 6,200.00 | 55.02 | 159.05 | 6,132.73 | -190.25 | 72.83 | 203.71 | 12.00 | 12.00 | 0.00 |
| 6,300.00 | 67.02 | 159.05 | 6,181.10 | -271.79 | 104.05 | 291.03 | 12.00 | 12.00 | 0.00 |
| 6,400.00 | 79.02 | 159.05 | 6,210.25 | -360.94 | 138.18 | 386.49 | 12.00 | 12.00 | 0.00 |
| 6,491.54 | 90.00 | 159.05 | 6,219.00 | -445.91 | 170.71 | 477.47 | 12.00 | 12.00 | 0.00 |
| 7" | | | | | | | | | |
| 6,500.00 | 90.00 | 159.05 | 6,219.00 | -453.81 | 173.73 | 485.93 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 90.00 | 159.05 | 6,219.00 | -547.20 | 209.48 | 585.93 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.00 | 159.05 | 6,219.00 | -640.59 | 245.24 | 685.93 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.00 | 159.05 | 6,219.00 | -733.98 | 280.99 | 785.93 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.00 | 159.05 | 6,219.00 | -827.37 | 316.74 | 885.93 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.00 | 159.05 | 6,219.00 | -920.76 | 352.49 | 985.93 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.00 | 159.05 | 6,219.00 | -1,014.15 | 388.25 | 1,085.93 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.00 | 159.05 | 6,219.00 | -1,107.55 | 424.00 | 1,185.93 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.00 | 159.05 | 6,219.00 | -1,200.94 | 459.75 | 1,285.93 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 159.05 | 6,219.00 | -1,294.33 | 495.50 | 1,385.93 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 159.05 | 6,219.00 | -1,387.72 | 531.25 | 1,485.93 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 159.05 | 6,219.00 | -1,481.11 | 567.01 | 1,585.93 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 159.05 | 6,219.00 | -1,574.50 | 602.76 | 1,685.93 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 159.05 | 6,219.00 | -1,667.89 | 638.51 | 1,785.93 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 159.05 | 6,219.00 | -1,761.28 | 674.26 | 1,885.93 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 159.05 | 6,219.00 | -1,854.67 | 710.02 | 1,985.93 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 159.05 | 6,219.00 | -1,948.06 | 745.77 | 2,085.93 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 159.05 | 6,219.00 | -2,041.45 | 781.52 | 2,185.93 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 159.05 | 6,219.00 | -2,134.84 | 817.27 | 2,285.93 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 159.05 | 6,219.00 | -2,228.23 | 853.03 | 2,385.93 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 159.05 | 6,219.00 | -2,321.62 | 888.78 | 2,485.93 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 159.05 | 6,219.00 | -2,415.01 | 924.53 | 2,585.93 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 159.05 | 6,219.00 | -2,508.40 | 960.28 | 2,685.93 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.00 | 159.05 | 6,219.00 | -2,601.79 | 996.03 | 2,785.93 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.00 | 159.05 | 6,219.00 | -2,695.18 | 1,031.79 | 2,885.93 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.00 | 159.05 | 6,219.00 | -2,788.57 | 1,067.54 | 2,985.93 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 159.05 | 6,219.00 | -2,881.96 | 1,103.29 | 3,085.93 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 159.05 | 6,219.00 | -2,975.35 | 1,139.04 | 3,185.93 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 159.05 | 6,219.00 | -3,068.74 | 1,174.80 | 3,285.93 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 159.05 | 6,219.00 | -3,162.13 | 1,210.55 | 3,385.93 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 159.05 | 6,219.00 | -3,255.53 | 1,246.30 | 3,485.93 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 159.05 | 6,219.00 | -3,348.92 | 1,282.05 | 3,585.93 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 159.05 | 6,219.00 | -3,442.31 | 1,317.81 | 3,685.93 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 159.05 | 6,219.00 | -3,535.70 | 1,353.56 | 3,785.93 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 159.05 | 6,219.00 | -3,629.09 | 1,389.31 | 3,885.93 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 159.05 | 6,219.00 | -3,722.48 | 1,425.06 | 3,985.93 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.00 | 159.05 | 6,219.00 | -3,815.87 | 1,460.81 | 4,085.93 | 0.00 | 0.00 | 0.00 |

EOG Resources Inc

Planning Report

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| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 4999.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 4999.00ft (TBD) |
| Site: | Igo Creek 14-20H | North Reference: | True |
| Well: | Igo Creek 14-20H | 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) |
| 10,200.00 | 90.00 | 159.05 | 6,219.00 | -3,909.26 | 1,496.57 | 4,185.93 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 159.05 | 6,219.00 | -4,002.65 | 1,532.32 | 4,285.93 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 159.05 | 6,219.00 | -4,096.04 | 1,568.07 | 4,385.93 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 159.05 | 6,219.00 | -4,189.43 | 1,603.82 | 4,485.93 | 0.00 | 0.00 | 0.00 |
| 10,505.73 | 90.00 | 159.05 | 6,219.00 | -4,194.78 | 1,605.87 | 4,491.66 | 0.00 | 0.00 | 0.00 |
| 4 1/2" - SW IGO #1 (offset well) - Igo Creek 14-20H (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) | |
| - Shape | | | | | | | | | Latitude Longitude |
| Igo Creek 14-20H (BH- - plan hits target center - Point | | 0.00 | 0.00 | 6,219.00 | -4,194.78 | 1,605.87 | 512,414.80 | 2,417,075.46 | 40° 43' 49.001 N 103° 59' 42.410 W |

| Casing Points | | | | | |
|---------------------|---------------------|--------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 800.00 | 800.00 | 9-5/8" | 9-5/8 | 13-1/2 | |
| 6,491.54 | 6,219.00 | 7" | 7 | 8-3/4 | |
| 10,505.73 | 6,219.00 | 4 1/2" | 4-1/2 | 6-1/4 | |

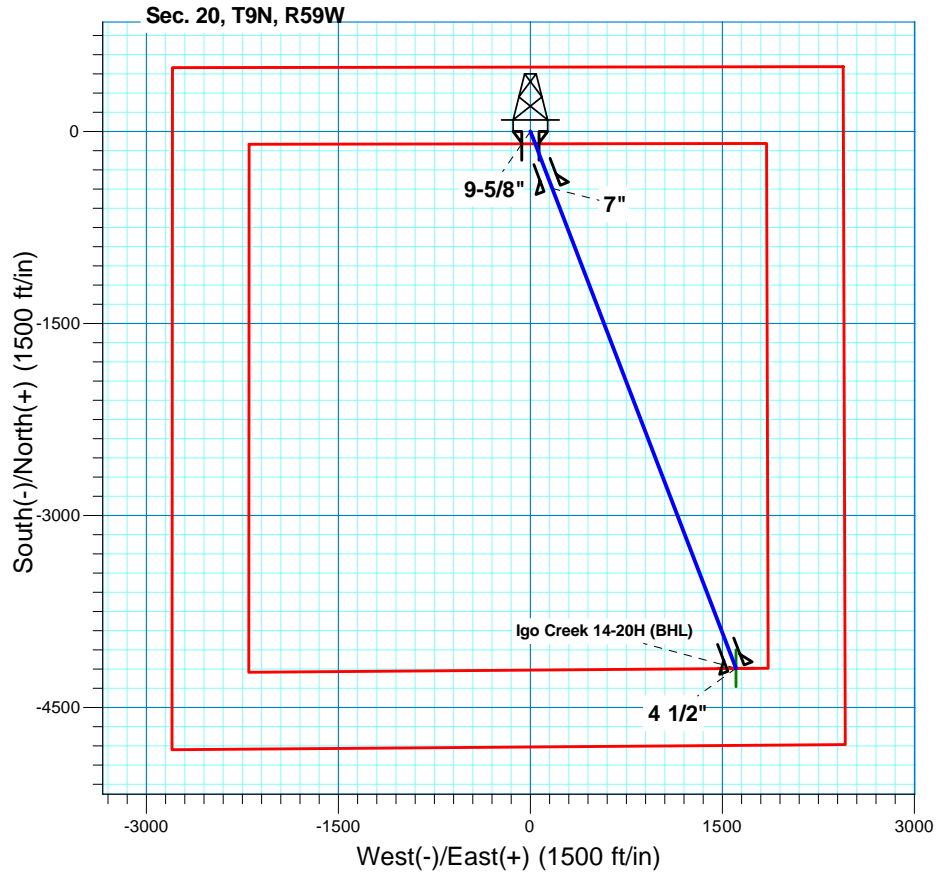
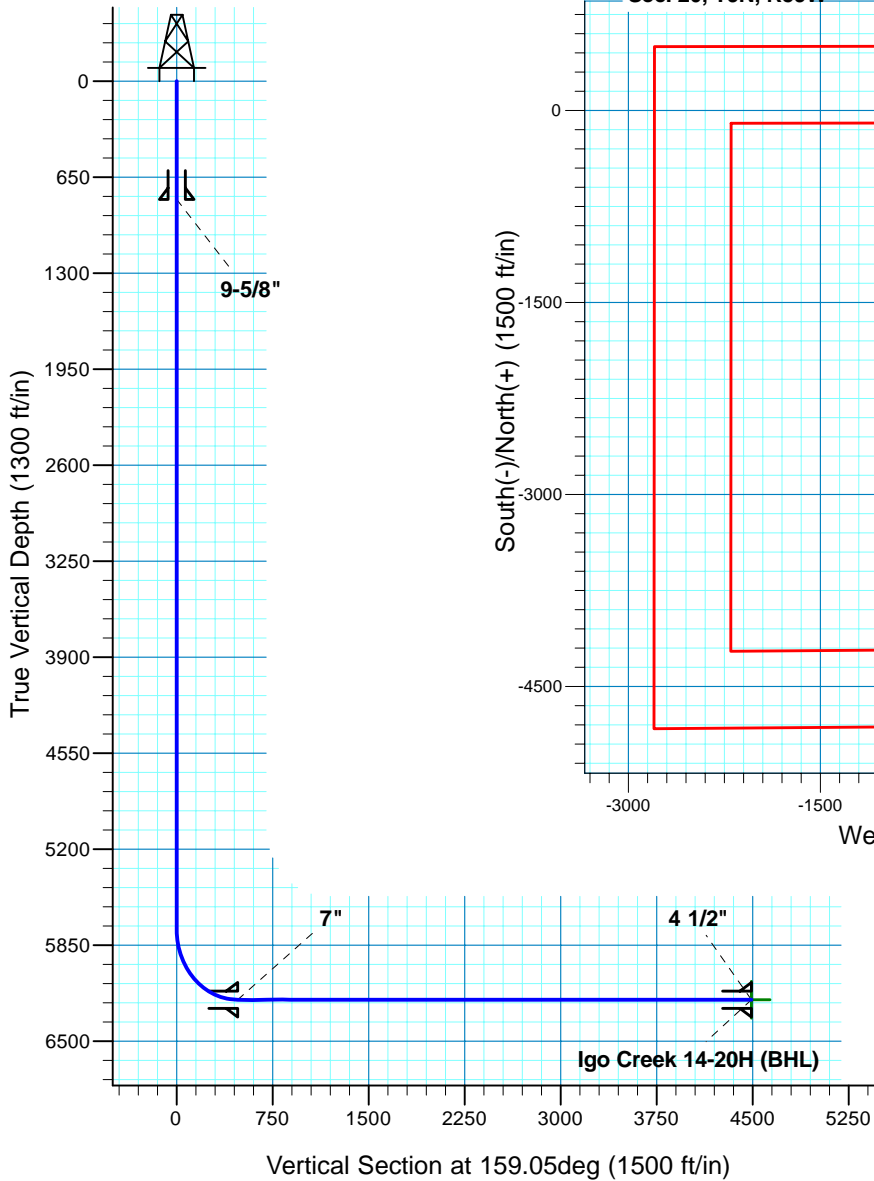
Igo Creek 14-20H

Section 20 T9N R59W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 4977.00 RIG @ 4999.00ft (TBD)
Northing Easting Latitude Longitude
516581.83 2415398.91 40° 44' 30.451 N 104° 0' 3.269 W



T M
Azimuths to True North
Magnetic North: 8.48°
Magnetic Field
Strength: 53449.8nT
Dip Angle: 67.47°
Date: 1/19/2011
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Igo Creek 14-20H
Well: Igo Creek 14-20H
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 | 5741.53 | 0.00 | 0.00 | 5741.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 6491.54 | 90.00 | 159.05 | 6219.00 | -445.91 | 170.71 | 12.00 | 159.05 | 477.47 | |
| 4 | 10505.73 | 90.00 | 159.05 | 6219.00 | -4194.78 | 1605.87 | 0.00 | 0.00 | 4491.66 | Igo Creek 14-20H (BHL) |

TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape Point |
|------------------------|---------|----------|---------|-----------|------------|------------------|-------------------|-------------|
| Igo Creek 14-20H (BHL) | 6219.00 | -4194.78 | 1605.87 | 512414.80 | 2417075.46 | 40° 43' 49.001 N | 103° 59' 42.410 W | |