

Denver Division- Colorado

DJ - Hereford Ranch

Elk Creek 13-21H

Elk Creek 13-21H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

02 March, 2011

EOG Resources Inc

Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Site Elk Creek 13-21H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 5072.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5072.00ft (TBD) |
| Site: | Elk Creek 13-21H | North Reference: | True |
| Well: | Elk Creek 13-21H | 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 | Elk Creek 13-21H | | |
| Site Position: | | Northing: | 542,029.71 ft |
| From: | Lat/Long | Easting: | 2,327,457.58 ft |
| Position Uncertainty: | 0.00 ft | Slot Radius: | " |
| | | Latitude: | 40° 48' 55.019 N |
| | | Longitude: | 104° 19' 1.211 W |
| | | Grid Convergence: | 0.76 deg |

| | | | |
|-----------------------------|------------------|----------------------------|------------------|
| Well | Elk Creek 13-21H | | |
| Well Position | +N/-S | 0.00 ft | Northing: |
| | +E/-W | 0.00 ft | Easting: |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | ft |
| | | Latitude: | 40° 48' 55.019 N |
| | | Longitude: | 104° 19' 1.211 W |
| | | Ground Level: | 5,050.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------------|------------------------|----------------------------|
| Wellbore | Original Wellbore | | | | |
| Magnetics | Model Name | Sample Date | Declination (deg) | Dip Angle (deg) | Field Strength (nT) |
| | IGRF200510 | 3/2/2011 | 8.65 | 67.48 | 53,444 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|------------------------|
| 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 | 333.16 |

| 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 | |
| 6,403.53 | 0.00 | 0.00 | 6,403.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,153.54 | 90.00 | 333.16 | 6,881.00 | 426.01 | -215.61 | 12.00 | 12.00 | 0.00 | 333.16 | |
| 11,374.53 | 90.00 | 333.16 | 6,881.00 | 4,192.13 | -2,121.68 | 0.00 | 0.00 | 0.00 | 0.00 | Elk Creek 13-21H (I |

EOG Resources Inc

Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Site Elk Creek 13-21H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 5072.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5072.00ft (TBD) |
| Site: | Elk Creek 13-21H | North Reference: | True |
| Well: | Elk Creek 13-21H | 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 |
| 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 |
| 1,050.00 | 0.00 | 0.00 | 1,050.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9-5/8" | | | | | | | | | |
| 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 |

EOG Resources Inc

Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Site Elk Creek 13-21H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 5072.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5072.00ft (TBD) |
| Site: | Elk Creek 13-21H | North Reference: | True |
| Well: | Elk Creek 13-21H | 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) |
|---------------------|-------------------|---------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 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 |
| 5,800.00 | 0.00 | 0.00 | 5,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 6,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,403.53 | 0.00 | 0.00 | 6,403.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 11.58 | 333.16 | 6,499.35 | 8.67 | -4.39 | 9.71 | 12.00 | 12.00 | 0.00 |
| 6,600.00 | 23.58 | 333.16 | 6,594.50 | 35.56 | -18.00 | 39.85 | 12.00 | 12.00 | 0.00 |
| 6,700.00 | 35.58 | 333.16 | 6,681.31 | 79.52 | -40.24 | 89.12 | 12.00 | 12.00 | 0.00 |
| 6,800.00 | 47.58 | 333.16 | 6,755.99 | 138.62 | -70.16 | 155.36 | 12.00 | 12.00 | 0.00 |
| 6,900.00 | 59.58 | 333.16 | 6,815.25 | 210.28 | -106.42 | 235.68 | 12.00 | 12.00 | 0.00 |
| 7,000.00 | 71.58 | 333.16 | 6,856.53 | 291.37 | -147.47 | 326.56 | 12.00 | 12.00 | 0.00 |
| 7,100.00 | 83.58 | 333.16 | 6,878.00 | 378.35 | -191.48 | 424.04 | 12.00 | 12.00 | 0.00 |
| 7,153.54 | 90.00 | 333.16 | 6,881.00 | 426.02 | -215.61 | 477.47 | 12.00 | 12.00 | 0.00 |
| 7" | | | | | | | | | |
| 7,200.00 | 90.00 | 333.16 | 6,881.00 | 467.47 | -236.59 | 523.93 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.00 | 333.16 | 6,881.00 | 556.69 | -281.75 | 623.93 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 333.16 | 6,881.00 | 645.92 | -326.90 | 723.93 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 333.16 | 6,881.00 | 735.14 | -372.06 | 823.93 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 333.16 | 6,881.00 | 824.36 | -417.22 | 923.93 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 333.16 | 6,881.00 | 913.59 | -462.38 | 1,023.93 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 333.16 | 6,881.00 | 1,002.81 | -507.53 | 1,123.93 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 333.16 | 6,881.00 | 1,092.03 | -552.69 | 1,223.93 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 333.16 | 6,881.00 | 1,181.26 | -597.85 | 1,323.93 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 333.16 | 6,881.00 | 1,270.48 | -643.00 | 1,423.93 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 333.16 | 6,881.00 | 1,359.71 | -688.16 | 1,523.93 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 333.16 | 6,881.00 | 1,448.93 | -733.32 | 1,623.93 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 333.16 | 6,881.00 | 1,538.15 | -778.47 | 1,723.93 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 333.16 | 6,881.00 | 1,627.38 | -823.63 | 1,823.93 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 333.16 | 6,881.00 | 1,716.60 | -868.79 | 1,923.93 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 333.16 | 6,881.00 | 1,805.82 | -913.94 | 2,023.93 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.00 | 333.16 | 6,881.00 | 1,895.05 | -959.10 | 2,123.93 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.00 | 333.16 | 6,881.00 | 1,984.27 | -1,004.26 | 2,223.93 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.00 | 333.16 | 6,881.00 | 2,073.49 | -1,049.42 | 2,323.93 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 333.16 | 6,881.00 | 2,162.72 | -1,094.57 | 2,423.93 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 333.16 | 6,881.00 | 2,251.94 | -1,139.73 | 2,523.93 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 333.16 | 6,881.00 | 2,341.16 | -1,184.89 | 2,623.93 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 333.16 | 6,881.00 | 2,430.39 | -1,230.04 | 2,723.93 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 333.16 | 6,881.00 | 2,519.61 | -1,275.20 | 2,823.93 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 333.16 | 6,881.00 | 2,608.84 | -1,320.36 | 2,923.93 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 333.16 | 6,881.00 | 2,698.06 | -1,365.51 | 3,023.93 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 333.16 | 6,881.00 | 2,787.28 | -1,410.67 | 3,123.93 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 333.16 | 6,881.00 | 2,876.51 | -1,455.83 | 3,223.93 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 333.16 | 6,881.00 | 2,965.73 | -1,500.99 | 3,323.93 | 0.00 | 0.00 | 0.00 |

EOG Resources Inc

Planning Report

| | | | |
|------------------|---------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Site Elk Creek 13-21H |
| Company: | Denver Division- Colorado | TVD Reference: | RIG @ 5072.00ft (TBD) |
| Project: | DJ - Hereford Ranch | MD Reference: | RIG @ 5072.00ft (TBD) |
| Site: | Elk Creek 13-21H | North Reference: | True |
| Well: | Elk Creek 13-21H | 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 | 333.16 | 6,881.00 | 3,054.95 | -1,546.14 | 3,423.93 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 333.16 | 6,881.00 | 3,144.18 | -1,591.30 | 3,523.93 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 333.16 | 6,881.00 | 3,233.40 | -1,636.46 | 3,623.93 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 333.16 | 6,881.00 | 3,322.62 | -1,681.61 | 3,723.93 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 333.16 | 6,881.00 | 3,411.85 | -1,726.77 | 3,823.93 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 333.16 | 6,881.00 | 3,501.07 | -1,771.93 | 3,923.93 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 333.16 | 6,881.00 | 3,590.30 | -1,817.08 | 4,023.93 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 333.16 | 6,881.00 | 3,679.52 | -1,862.24 | 4,123.93 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 333.16 | 6,881.00 | 3,768.74 | -1,907.40 | 4,223.93 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.00 | 333.16 | 6,881.00 | 3,857.97 | -1,952.55 | 4,323.93 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 333.16 | 6,881.00 | 3,947.19 | -1,997.71 | 4,423.93 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 333.16 | 6,881.00 | 4,036.41 | -2,042.87 | 4,523.93 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.00 | 333.16 | 6,881.00 | 4,125.64 | -2,088.03 | 4,623.93 | 0.00 | 0.00 | 0.00 |
| 11,374.53 | 90.00 | 333.16 | 6,881.00 | 4,192.13 | -2,121.68 | 4,698.46 | 0.00 | 0.00 | 0.00 |
| Elk Creek 13-21H (BHL) | | | | | | | | | |

| Targets | | | | | | | | | |
|---------------------------|-----------------|----------------|----------|------------|------------|---------------|--------------|------------------|-------------------|
| Target Name | Dip Angle (deg) | Dip Dir. (deg) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| Elk Creek 13-21H (BHL) | 0.00 | 0.00 | 6,881.00 | 4,192.13 | -2,121.68 | 546,193.16 | 2,325,280.17 | 40° 49' 36.440 N | 104° 19' 28.808 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|---------------------|---------------------|--------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 1,050.00 | 1,050.00 | 9-5/8" | 9-5/8 | 13-1/2 | |
| 7,153.54 | 6,881.00 | 7" | 7 | 8-3/4 | |
| 11,374.53 | 6,881.00 | 4 1/2" | 4-1/2 | 6 | |

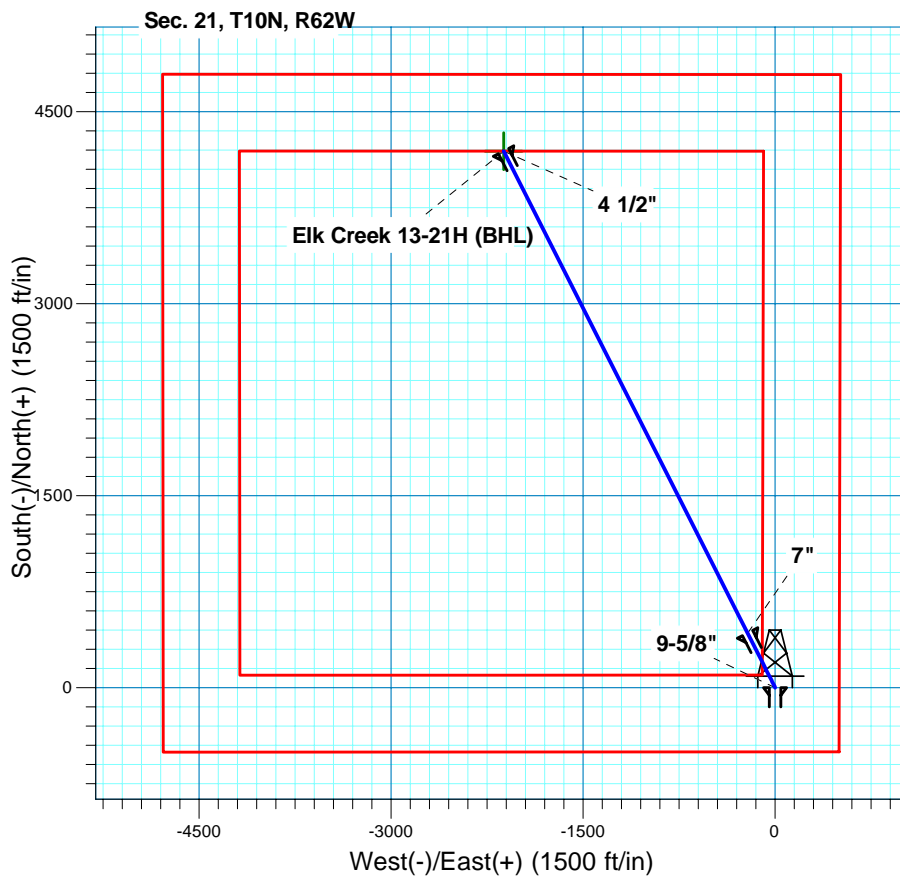
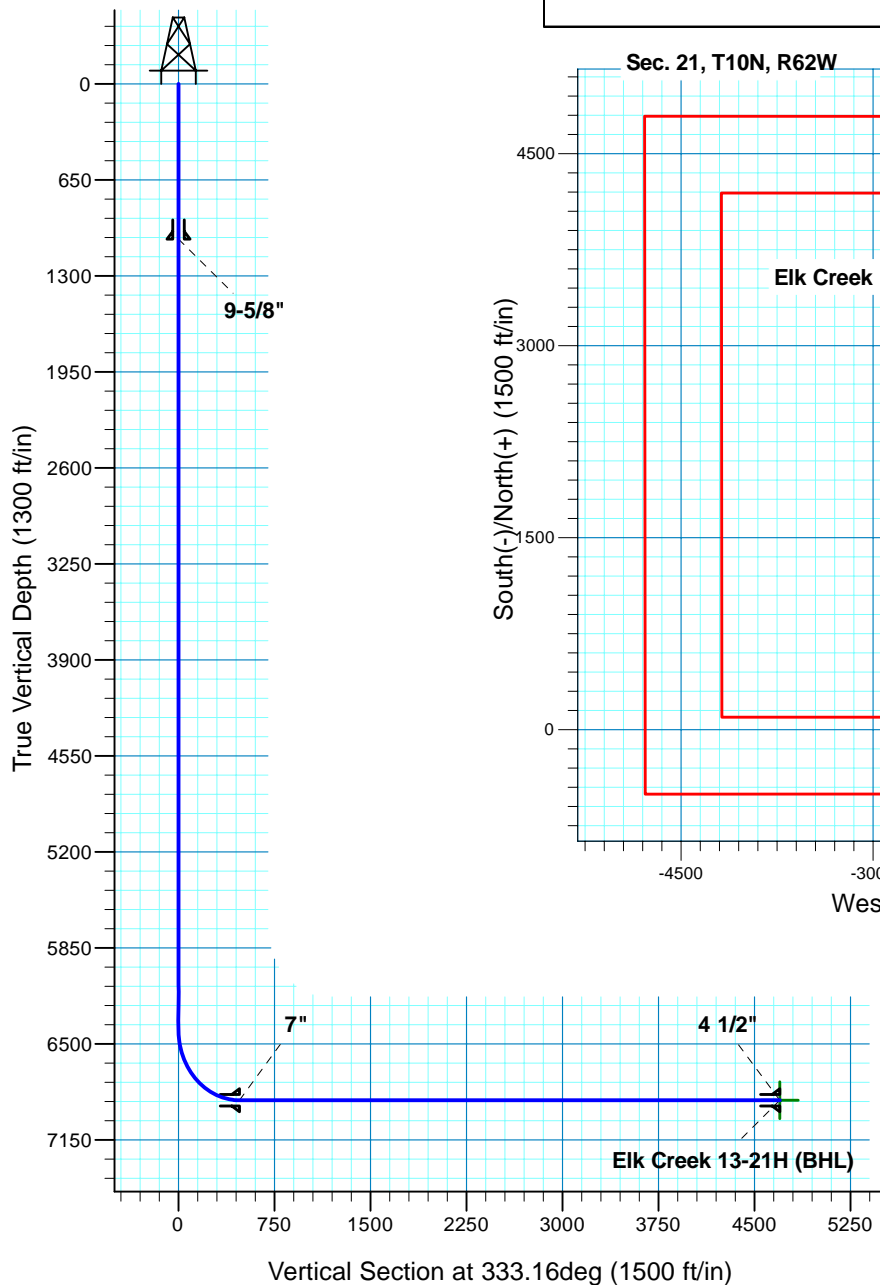
Elk Creek 13-21H

Section 21 T10N R62W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
 Ground Elevation: 5050.00 RIG @ 5072.00ft (TBD)
 Northing Easting Latitude Longitude
 542029.71 2327457.58 40° 48' 55.019 N 104° 19' 1.211 W



T M
 Azimuths to True North
 Magnetic North: 8.65°
 Magnetic Field
 Strength: 53443.5nT
 Dip Angle: 67.48°
 Date: 3/2/2011
 Model: IGRF200510

Project: DJ - Hereford Ranch
 Site: Elk Creek 13-21H
 Well: Elk Creek 13-21H
 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 | 6403.53 | 0.00 | 0.00 | 6403.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 7153.54 | 90.00 | 333.16 | 6881.00 | 426.01 | -215.61 | 12.00 | 333.16 | 477.47 | |
| 4 | 11374.53 | 90.00 | 333.16 | 6881.00 | 4192.13 | -2121.68 | 0.00 | 0.00 | 4698.46 | Elk Creek 13-21H (BHL) |

TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|------------------------|---------|---------|----------|-----------|------------|------------------|-------------------|-------|
| Elk Creek 13-21H (BHL) | 6881.00 | 4192.13 | -2121.68 | 546193.16 | 2325280.17 | 40° 49' 36.440 N | 104° 19' 28.808 W | Point |