

BILL BARRETT CORPORATION

ADAMS COUNTY, COLORADO (NAD 83)

SW NW SEC. 36 T1S R66W 6th P.M.

STATE OF COLORADO 1S-66-36-1609CH

JOB # 2009-270 - ORIGINAL WELLBORE

04 April, 2014

Survey: FINAL SURVEYS





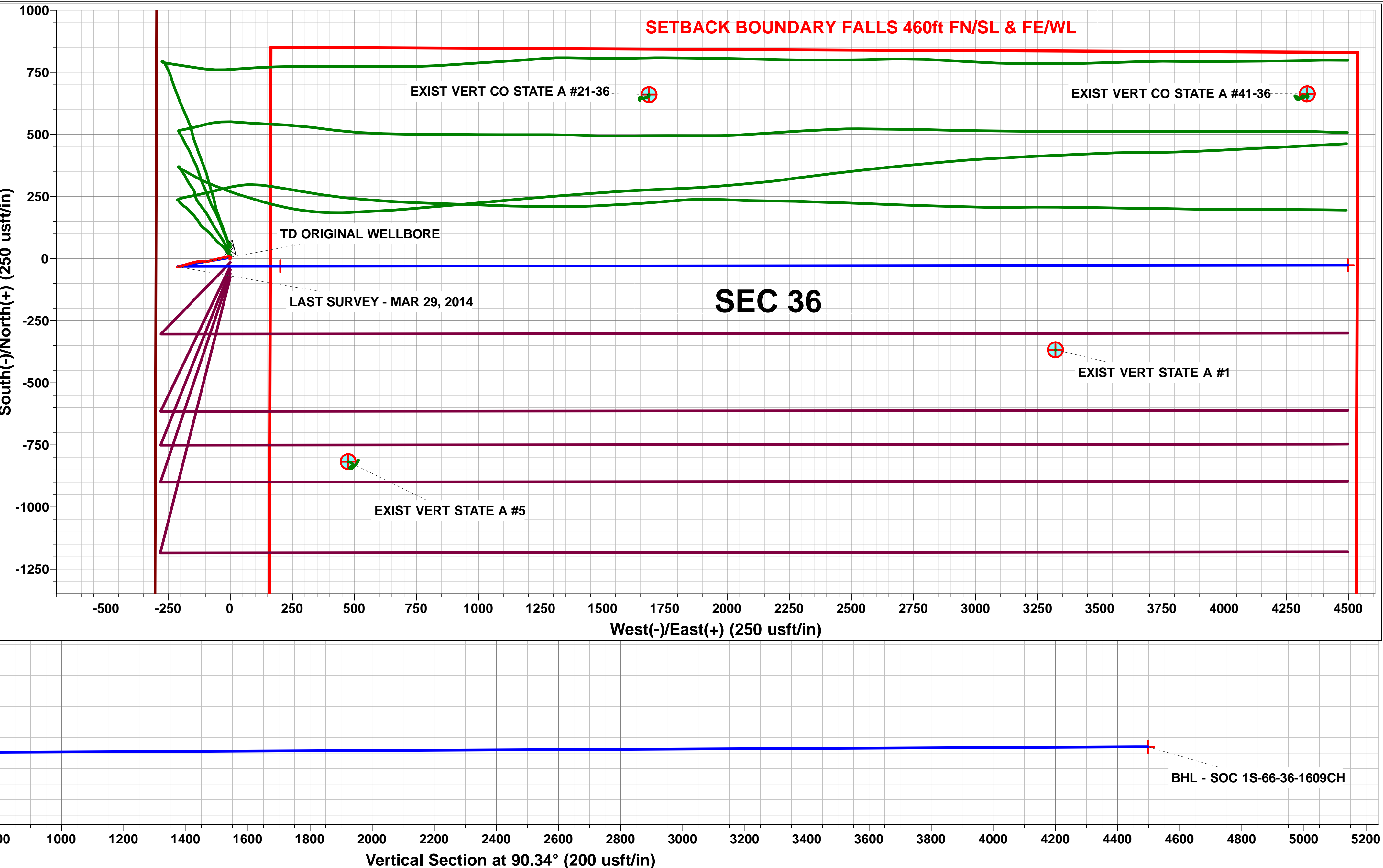
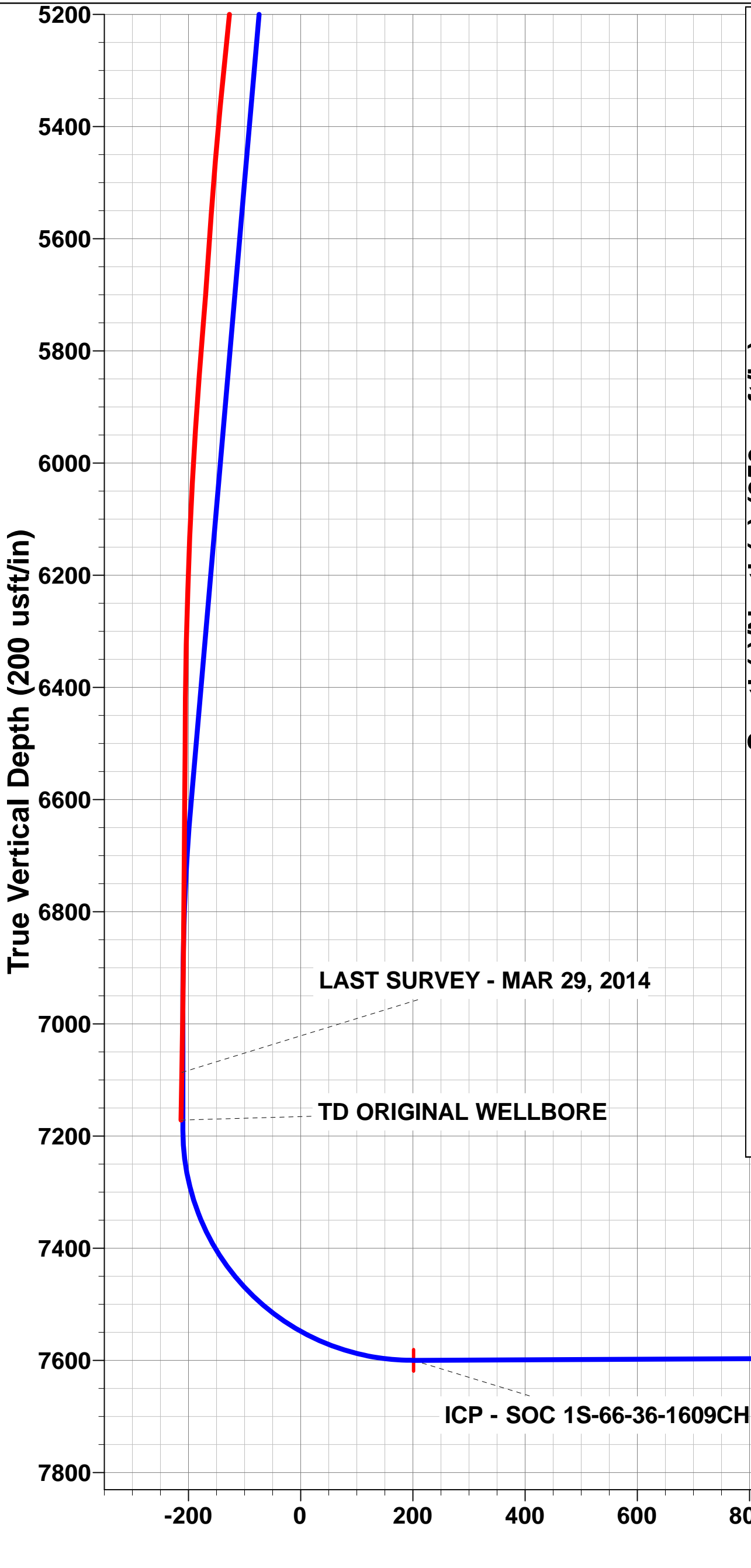
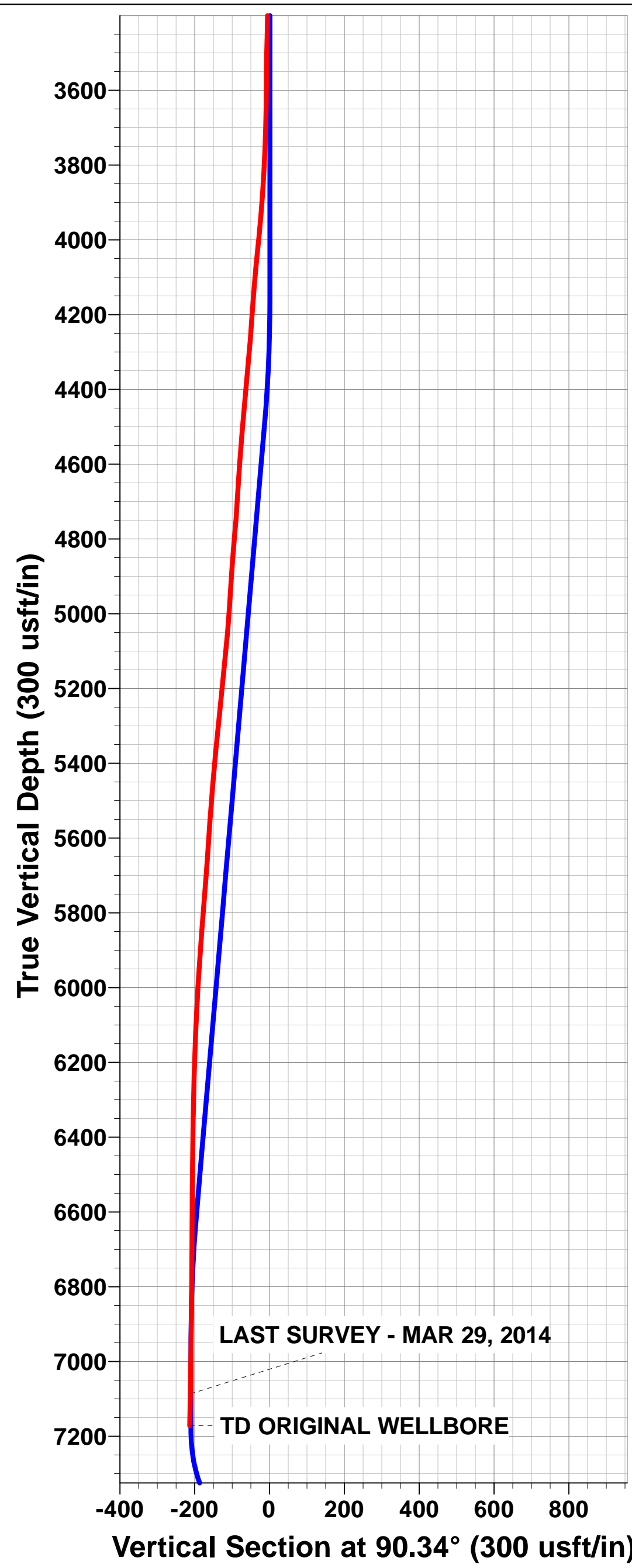
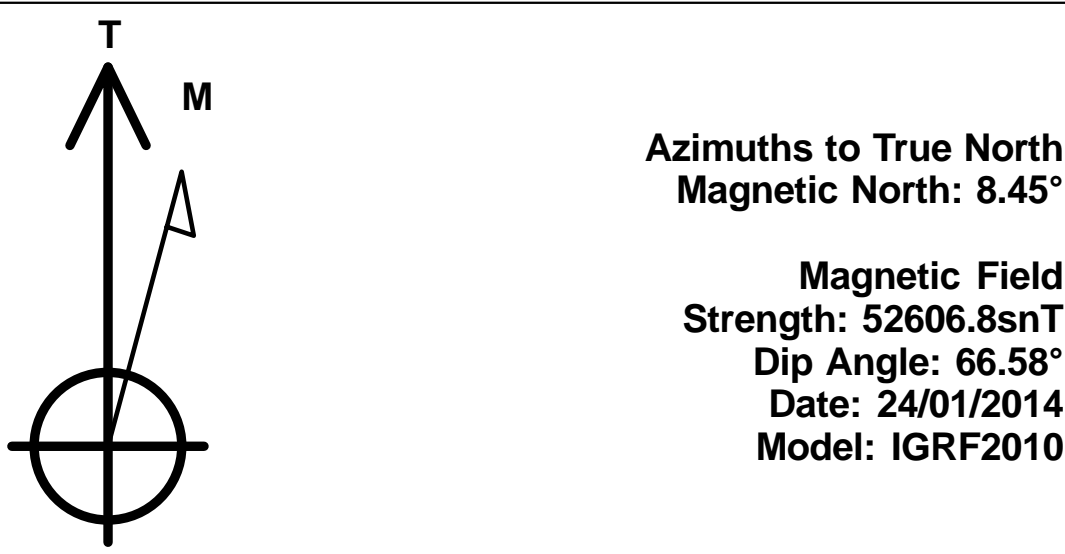
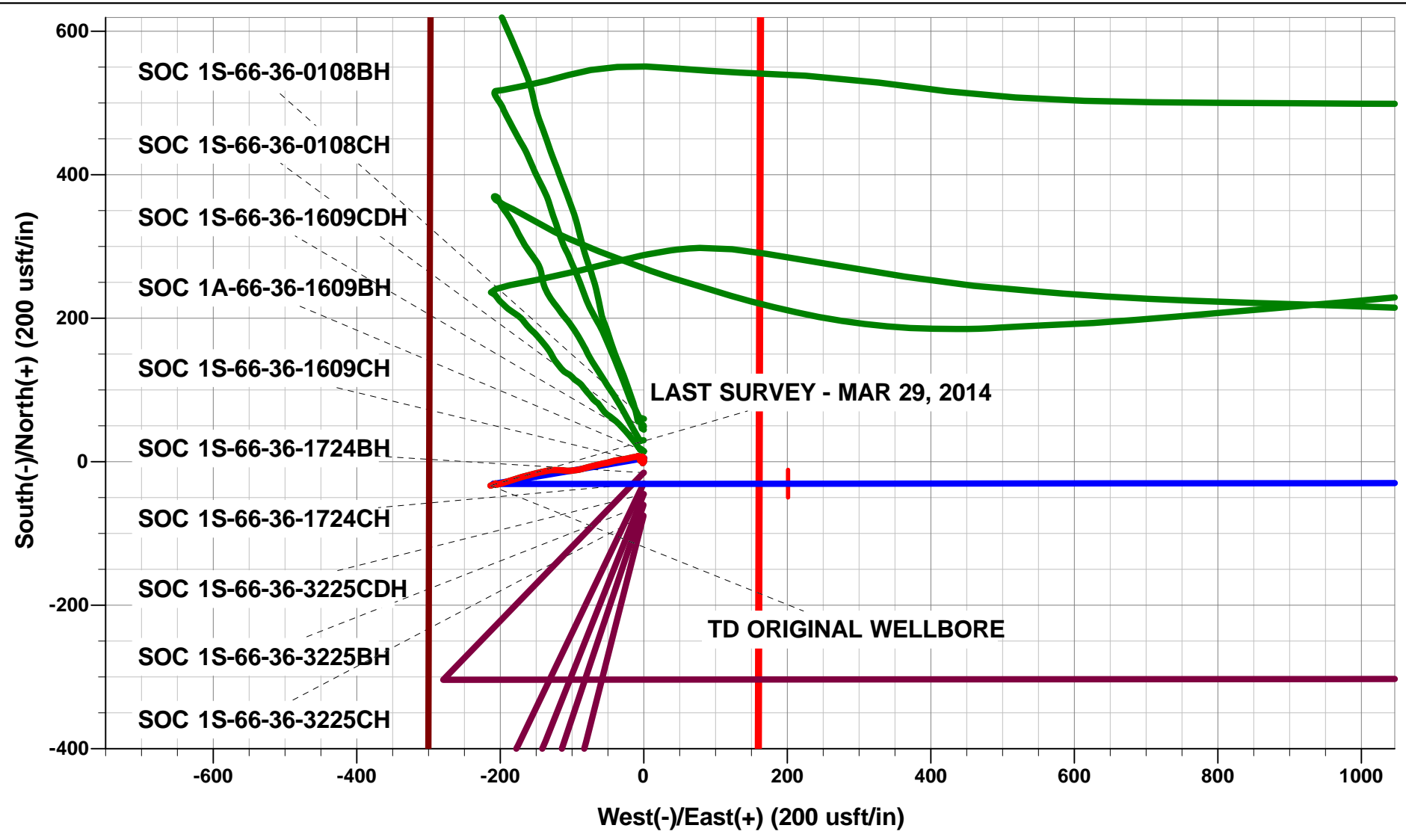
Project: ADAMS COUNTY, COLORADO (NAD 83)
Site: SW NW SEC. 36 T1S R66W 6th P.M.
Well: STATE OF COLORADO 1S-66-36-1609CH
Wellbore: JOB # 2009-270 - ORIGINAL WELLBORE
Design: FINAL SURVEYS

ANNOTATIONS

| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSect | Dep | Annotation |
|--------|--------|------|--------|-------|--------|--------|-------|----------------------------|
| 1386.0 | 1386.0 | 0.45 | 15.54 | 4.1 | 0.7 | 0.6 | 9.5 | TIE ON TO GYROS |
| 1500.0 | 1500.0 | 0.38 | 337.82 | 4.9 | 0.6 | 0.6 | 10.4 | SURFACE CASING |
| 7086.7 | 7095.0 | 1.10 | 252.60 | -32.8 | -212.0 | -211.8 | 243.9 | LAST SURVEY - MAR 29, 2014 |
| 7171.7 | 7180.0 | 1.10 | 252.60 | -33.3 | -213.5 | -213.3 | 245.5 | TD ORIGINAL WELLBORE |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|---------------------------|--------|-------|--------|------------------|-------------------|
| BHL - SOC 1S-66-36-1609CH | 7580.0 | -26.5 | 4498.4 | 39° 55' 30.587 N | 104° 42' 58.946 W |
| ICP - SOC 1S-66-36-1609CH | 7600.0 | -30.6 | 201.1 | 39° 55' 30.551 N | 104° 43' 54.106 W |



Survey Report



| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Company: | BILL BARRETT CORPORATION | Local Co-ordinate Reference: | Well STATE OF COLORADO 1S-66-36-1609CH |
| Project: | ADAMS COUNTY, COLORADO (NAD 83) | TVD Reference: | KB @ 5203.0usft (M37) |
| Site: | SW NW SEC. 36 T1S R66W 6th P.M. | MD Reference: | KB @ 5203.0usft (M37) |
| Well: | STATE OF COLORADO 1S-66-36-16 | North Reference: | True |
| Wellbore: | JOB # 2009-270 - ORIGINAL WELLBORE | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEYS | Database: | EDM 5000.1 Single User Db |

| | | | |
|--------------------|---------------------------------|----------------------|-----------------------------|
| Project | ADAMS COUNTY, COLORADO (NAD 83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|-----------------------|----------|---------------------------------|-------------------|-------------------|-------------------|
| Site | | SW NW SEC. 36 T1S R66W 6th P.M. | | | |
| Site Position: | | Northing: | 1,216,544.45 usft | Latitude: | 39° 55' 30.853 N |
| From: | Lat/Long | Easting: | 3,215,275.31 usft | Longitude: | 104° 43' 56.687 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16" | Grid Convergence: | 0.50 ° |

| Well | STATE OF COLORADO 1S-66-36-1609CH | | | | | |
|----------------------|-----------------------------------|----------|---------------------|-------------------|---------------|-------------------|
| Well Position | +N-S | 0.0 usft | Northing: | 1,216,544.45 usft | Latitude: | 39° 55' 30.853 N |
| | +E-W | 0.0 usft | Easting: | 3,215,275.31 usft | Longitude: | 104° 43' 56.687 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 5,180.0 usft |

| | | | | | |
|------------------|------------------------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | JOB # 2009-270 - ORIGINAL WELLBORE | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 24/01/2014 | 8.46 | 66.58 | 52,607 |

| | | | | |
|-------------------|----------------------------|----------------|-----------------|-------------------|
| Design | FINAL SURVEYS | | | |
| Audit Notes: | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 90.34 |

| | | | | | |
|-----------------------|------------------|-------------------------------------|------------------|--------------------|--|
| Survey Program | Date | 04/04/2014 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 100.0 | 7,180.0 | FINAL SURVEYS (JOB # 2009-270 - ORI | MWD | MWD - Standard | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|----------------------------|--------------------|--------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 5,203.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.52 | 247.98 | 100.0 | 5,103.0 | -0.2 | -0.4 | -0.4 | 0.52 | 0.52 | 0.00 |
| 200.0 | 0.60 | 221.12 | 200.0 | 5,003.0 | -0.7 | -1.2 | -1.2 | 0.27 | 0.08 | -26.86 |
| 300.0 | 0.21 | 197.64 | 300.0 | 4,903.0 | -1.3 | -1.6 | -1.6 | 0.42 | -0.39 | -23.48 |
| 400.0 | 0.27 | 148.70 | 400.0 | 4,803.0 | -1.7 | -1.5 | -1.5 | 0.21 | 0.06 | -48.94 |
| 500.0 | 0.06 | 18.88 | 500.0 | 4,703.0 | -1.8 | -1.4 | -1.4 | 0.31 | -0.21 | -129.82 |
| 600.0 | 0.11 | 102.70 | 600.0 | 4,603.0 | -1.8 | -1.3 | -1.3 | 0.12 | 0.05 | 83.82 |
| 700.0 | 0.22 | 58.43 | 700.0 | 4,503.0 | -1.7 | -1.0 | -1.0 | 0.16 | 0.11 | -44.27 |
| 800.0 | 0.51 | 9.39 | 800.0 | 4,403.0 | -1.2 | -0.8 | -0.8 | 0.40 | 0.29 | -49.04 |
| 900.0 | 0.55 | 26.91 | 900.0 | 4,303.0 | -0.3 | -0.5 | -0.5 | 0.17 | 0.04 | 17.52 |
| 1,000.0 | 0.66 | 23.91 | 1,000.0 | 4,203.0 | 0.6 | 0.0 | 0.0 | 0.11 | 0.11 | -3.00 |
| 1,100.0 | 0.38 | 344.81 | 1,100.0 | 4,103.0 | 1.5 | 0.1 | 0.1 | 0.44 | -0.28 | -39.10 |
| 1,200.0 | 0.62 | 27.64 | 1,200.0 | 4,003.0 | 2.3 | 0.3 | 0.3 | 0.43 | 0.24 | 42.83 |

Survey Report



| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Company: | BILL BARRETT CORPORATION | Local Co-ordinate Reference: | Well STATE OF COLORADO 1S-66-36-1609CH |
| Project: | ADAMS COUNTY, COLORADO (NAC) | TVD Reference: | KB @ 5203.0usft (M37) |
| Site: | SW NW SEC. 36 T1S R66W 6th P.M. | MD Reference: | KB @ 5203.0usft (M37) |
| Well: | STATE OF COLORADO 1S-66-36-16 | North Reference: | True |
| Wellbore: | JOB # 2009-270 - ORIGINAL WELLB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEYS | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | | |
|------------------------|-----------------|---------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 1,300.0 | 0.61 | 2.51 | 1,300.0 | 3,903.0 | 3.3 | 0.6 | 0.5 | 0.27 | -0.01 | -25.13 |
| TIE ON TO GYROS | | | | | | | | | | |
| 1,386.0 | 0.45 | 15.54 | 1,386.0 | 3,817.0 | 4.1 | 0.7 | 0.6 | 0.23 | -0.19 | 15.15 |
| SURFACE CASING | | | | | | | | | | |
| 1,500.0 | 0.38 | 337.82 | 1,500.0 | 3,703.0 | 4.9 | 0.6 | 0.6 | 0.24 | -0.06 | -33.09 |
| 1,539.0 | 0.40 | 324.20 | 1,539.0 | 3,664.0 | 5.1 | 0.5 | 0.5 | 0.24 | 0.05 | -34.92 |
| 1,634.0 | 0.80 | 308.30 | 1,634.0 | 3,569.0 | 5.8 | -0.2 | -0.2 | 0.45 | 0.42 | -16.74 |
| 1,729.0 | 0.60 | 313.00 | 1,728.9 | 3,474.1 | 6.5 | -1.1 | -1.1 | 0.22 | -0.21 | 4.95 |
| 1,824.0 | 0.60 | 320.70 | 1,823.9 | 3,379.1 | 7.2 | -1.8 | -1.8 | 0.08 | 0.00 | 8.11 |
| 1,919.0 | 1.30 | 217.30 | 1,918.9 | 3,284.1 | 6.8 | -2.7 | -2.8 | 1.63 | 0.74 | -108.84 |
| 2,016.0 | 1.50 | 214.60 | 2,015.9 | 3,187.1 | 4.9 | -4.1 | -4.2 | 0.22 | 0.21 | -2.78 |
| 2,112.0 | 0.40 | 180.40 | 2,111.9 | 3,091.1 | 3.5 | -4.8 | -4.9 | 1.24 | -1.15 | -35.62 |
| 2,206.0 | 0.30 | 180.80 | 2,205.9 | 2,997.1 | 2.9 | -4.8 | -4.9 | 0.11 | -0.11 | 0.43 |
| 2,302.0 | 0.20 | 149.80 | 2,301.9 | 2,901.1 | 2.5 | -4.8 | -4.8 | 0.17 | -0.10 | -32.29 |
| 2,398.0 | 0.10 | 144.70 | 2,397.9 | 2,805.1 | 2.3 | -4.6 | -4.6 | 0.10 | -0.10 | -5.31 |
| 2,495.0 | 0.00 | 82.00 | 2,494.9 | 2,708.1 | 2.2 | -4.6 | -4.6 | 0.10 | -0.10 | 0.00 |
| 2,591.0 | 0.10 | 73.80 | 2,590.9 | 2,612.1 | 2.3 | -4.5 | -4.5 | 0.10 | 0.10 | 0.00 |
| 2,687.0 | 0.20 | 73.00 | 2,686.9 | 2,516.1 | 2.3 | -4.3 | -4.3 | 0.10 | 0.10 | -0.83 |
| 2,782.0 | 0.10 | 194.00 | 2,781.9 | 2,421.1 | 2.3 | -4.1 | -4.1 | 0.28 | -0.11 | 127.37 |
| 2,877.0 | 0.30 | 228.90 | 2,876.9 | 2,326.1 | 2.0 | -4.3 | -4.3 | 0.24 | 0.21 | 36.74 |
| 2,974.0 | 0.30 | 225.10 | 2,973.9 | 2,229.1 | 1.7 | -4.7 | -4.7 | 0.02 | 0.00 | -3.92 |
| 3,069.0 | 0.10 | 252.90 | 3,068.9 | 2,134.1 | 1.5 | -5.0 | -5.0 | 0.23 | -0.21 | 29.26 |
| 3,165.0 | 0.40 | 20.10 | 3,164.9 | 2,038.1 | 1.8 | -4.9 | -4.9 | 0.49 | 0.31 | 132.50 |
| 3,260.0 | 1.10 | 1.10 | 3,259.9 | 1,943.1 | 3.0 | -4.8 | -4.8 | 0.77 | 0.74 | -20.00 |
| 3,356.0 | 1.90 | 359.50 | 3,355.8 | 1,847.2 | 5.5 | -4.8 | -4.8 | 0.83 | 0.83 | -1.67 |
| 3,451.0 | 1.90 | 294.80 | 3,450.8 | 1,752.2 | 7.8 | -6.2 | -6.3 | 2.14 | 0.00 | -68.11 |
| 3,547.0 | 0.90 | 232.80 | 3,546.8 | 1,656.2 | 8.0 | -8.3 | -8.3 | 1.75 | -1.04 | -64.58 |
| 3,643.0 | 0.70 | 227.80 | 3,642.8 | 1,560.2 | 7.1 | -9.3 | -9.4 | 0.22 | -0.21 | -5.21 |
| 3,738.0 | 1.90 | 266.20 | 3,737.7 | 1,465.3 | 6.6 | -11.3 | -11.4 | 1.49 | 1.26 | 40.42 |
| 3,834.0 | 3.70 | 263.30 | 3,833.6 | 1,369.4 | 6.2 | -16.0 | -16.0 | 1.88 | 1.87 | -3.02 |
| 3,931.0 | 4.70 | 252.30 | 3,930.4 | 1,272.6 | 4.6 | -22.9 | -22.9 | 1.32 | 1.03 | -11.34 |
| 4,027.0 | 6.00 | 265.00 | 4,025.9 | 1,177.1 | 3.0 | -31.6 | -31.6 | 1.82 | 1.35 | 13.23 |
| 4,124.0 | 4.90 | 256.60 | 4,122.5 | 1,080.5 | 1.6 | -40.7 | -40.7 | 1.40 | -1.13 | -8.66 |
| 4,220.0 | 4.00 | 252.20 | 4,218.2 | 984.8 | -0.4 | -47.9 | -47.9 | 1.00 | -0.94 | -4.58 |
| 4,315.0 | 5.50 | 257.90 | 4,312.9 | 890.1 | -2.4 | -55.5 | -55.5 | 1.65 | 1.58 | 6.00 |
| 4,411.0 | 5.20 | 257.20 | 4,408.5 | 794.5 | -4.3 | -64.2 | -64.2 | 0.32 | -0.31 | -0.73 |
| 4,507.0 | 5.00 | 255.30 | 4,504.1 | 698.9 | -6.3 | -72.5 | -72.5 | 0.27 | -0.21 | -1.98 |
| 4,603.0 | 4.30 | 255.40 | 4,599.8 | 603.2 | -8.3 | -80.0 | -80.0 | 0.73 | -0.73 | 0.10 |
| 4,699.0 | 3.50 | 252.90 | 4,695.5 | 507.5 | -10.1 | -86.3 | -86.3 | 0.85 | -0.83 | -2.60 |
| 4,796.0 | 5.20 | 263.30 | 4,792.3 | 410.7 | -11.5 | -93.5 | -93.5 | 1.93 | 1.75 | 10.72 |
| 4,892.0 | 4.00 | 260.60 | 4,888.0 | 315.0 | -12.5 | -101.1 | -101.1 | 1.27 | -1.25 | -2.81 |
| 4,988.0 | 3.60 | 282.10 | 4,983.7 | 219.3 | -12.4 | -107.4 | -107.3 | 1.53 | -0.42 | 22.40 |
| 5,084.0 | 5.80 | 271.50 | 5,079.4 | 123.6 | -11.7 | -115.2 | -115.1 | 2.45 | 2.29 | -11.04 |
| 5,181.0 | 5.40 | 271.20 | 5,176.0 | 27.0 | -11.4 | -124.7 | -124.6 | 0.41 | -0.41 | -0.31 |
| 5,277.0 | 6.20 | 258.30 | 5,271.5 | -68.5 | -12.4 | -134.2 | -134.2 | 1.59 | 0.83 | -13.44 |
| 5,371.0 | 5.50 | 256.80 | 5,365.0 | -162.0 | -14.5 | -143.6 | -143.5 | 0.76 | -0.74 | -1.60 |
| 5,467.0 | 4.90 | 255.20 | 5,460.6 | -257.6 | -16.6 | -152.0 | -151.9 | 0.64 | -0.62 | -1.67 |
| 5,564.0 | 4.30 | 254.60 | 5,557.3 | -354.3 | -18.6 | -159.6 | -159.4 | 0.62 | -0.62 | -0.62 |
| 5,660.0 | 3.90 | 255.40 | 5,653.0 | -450.0 | -20.4 | -166.2 | -166.1 | 0.42 | -0.42 | 0.83 |
| 5,756.0 | 5.00 | 253.40 | 5,748.7 | -545.7 | -22.4 | -173.4 | -173.2 | 1.16 | 1.15 | -2.08 |
| 5,852.0 | 4.40 | 253.00 | 5,844.4 | -641.4 | -24.7 | -180.9 | -180.7 | 0.63 | -0.62 | -0.42 |
| 5,948.0 | 4.00 | 251.90 | 5,940.2 | -737.2 | -26.8 | -187.6 | -187.4 | 0.43 | -0.42 | -1.15 |
| 6,044.0 | 3.20 | 251.00 | 6,036.0 | -833.0 | -28.7 | -193.3 | -193.1 | 0.84 | -0.83 | -0.94 |

Survey Report



| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Company: | BILL BARRETT CORPORATION | Local Co-ordinate Reference: | Well STATE OF COLORADO 1S-66-36-1609CH |
| Project: | ADAMS COUNTY, COLORADO (NAC) | TVD Reference: | KB @ 5203.0usft (M37) |
| Site: | SW NW SEC. 36 T1S R66W 6th P.M. | MD Reference: | KB @ 5203.0usft (M37) |
| Well: | STATE OF COLORADO 1S-66-36-16 | North Reference: | True |
| Wellbore: | JOB # 2009-270 - ORIGINAL WELLBORE | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEYS | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | | |
|----------------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 6,140.0 | 2.40 | 256.70 | 6,131.8 | -928.8 | -30.0 | -197.8 | -197.6 | 0.88 | -0.83 | 5.94 |
| 6,236.0 | 1.90 | 255.50 | 6,227.8 | -1,024.8 | -30.9 | -201.3 | -201.1 | 0.52 | -0.52 | -1.25 |
| 6,332.0 | 1.60 | 250.60 | 6,323.7 | -1,120.7 | -31.7 | -204.1 | -203.9 | 0.35 | -0.31 | -5.10 |
| 6,428.0 | 0.70 | 328.10 | 6,419.7 | -1,216.7 | -31.7 | -205.7 | -205.5 | 1.67 | -0.94 | 80.73 |
| 6,524.0 | 0.80 | 345.90 | 6,515.7 | -1,312.7 | -30.5 | -206.1 | -206.0 | 0.26 | 0.10 | 18.54 |
| 6,619.0 | 0.80 | 233.80 | 6,610.7 | -1,407.7 | -30.3 | -206.8 | -206.7 | 1.40 | 0.00 | -118.00 |
| 6,714.0 | 0.50 | 232.80 | 6,705.7 | -1,502.7 | -30.9 | -207.7 | -207.5 | 0.32 | -0.32 | -1.05 |
| 6,810.0 | 0.60 | 240.10 | 6,801.7 | -1,598.7 | -31.4 | -208.5 | -208.3 | 0.13 | 0.10 | 7.60 |
| 6,904.0 | 0.60 | 251.90 | 6,895.7 | -1,692.7 | -31.8 | -209.4 | -209.2 | 0.13 | 0.00 | 12.55 |
| 6,999.0 | 0.80 | 247.00 | 6,990.7 | -1,787.7 | -32.2 | -210.5 | -210.3 | 0.22 | 0.21 | -5.16 |
| LAST SURVEY - MAR 29, 2014 | | | | | | | | | | |
| 7,095.0 | 1.10 | 252.60 | 7,086.7 | -1,883.7 | -32.8 | -212.0 | -211.8 | 0.33 | 0.31 | 5.83 |
| TD ORIGINAL WELLBORE | | | | | | | | | | |
| 7,180.0 | 1.10 | 252.60 | 7,171.7 | -1,968.7 | -33.3 | -213.5 | -213.3 | 0.00 | 0.00 | 0.00 |

Survey Report



| | | | |
|------------------|------------------------------------|-------------------------------------|--|
| Company: | BILL BARRETT CORPORATION | Local Co-ordinate Reference: | Well STATE OF COLORADO 1S-66-36-1609CH |
| Project: | ADAMS COUNTY, COLORADO (NAC) | TVD Reference: | KB @ 5203.0usft (M37) |
| Site: | SW NW SEC. 36 T1S R66W 6th P.M. | MD Reference: | KB @ 5203.0usft (M37) |
| Well: | STATE OF COLORADO 1S-66-36-16 | North Reference: | True |
| Wellbore: | JOB # 2009-270 - ORIGINAL WELLBORE | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEYS | Database: | EDM 5000.1 Single User Db |

| Targets | | | | | | | | | |
|--|-----------|----------|---------|--------|---------|--------------|--------------|------------------|-------------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | |
| EXIST VERT CO STA | 0.00 | 0.00 | 8,332.0 | 660.4 | 1,685.4 | 1,217,219.40 | 3,216,954.90 | 39° 55' 37.379 N | 104° 43' 35.053 W |
| - survey misses target center by 2331.0usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Circle (radius 30.0) | | | | | | | | | |
| KOP - SOC 1S-66-36- | 0.00 | 0.00 | 7,122.5 | -31.0 | -278.6 | 1,216,511.04 | 3,214,997.00 | 39° 55' 30.547 N | 104° 44' 0.263 W |
| - survey misses target center by 75.7usft at 7095.0usft MD (7086.7 TVD, -32.8 N, -212.0 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| KOP - SOC 1S-66-36- | 0.00 | 0.00 | 7,190.8 | -31.0 | -210.0 | 1,216,511.64 | 3,215,065.59 | 39° 55' 30.547 N | 104° 43' 59.382 W |
| - survey misses target center by 19.6usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| EXIST VERT CO STA | 0.00 | 0.00 | 8,294.0 | 663.5 | 4,334.7 | 1,217,245.40 | 3,219,604.00 | 39° 55' 37.406 N | 104° 43' 1.046 W |
| - survey misses target center by 4736.2usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Circle (radius 30.0) | | | | | | | | | |
| EXIST VERT STATE | 0.00 | 0.00 | 8,315.0 | -817.5 | 474.3 | 1,215,731.10 | 3,215,756.70 | 39° 55' 22.774 N | 104° 43' 50.598 W |
| - survey misses target center by 1547.7usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Circle (radius 30.0) | | | | | | | | | |
| EXIST VERT STATE | 0.00 | 0.00 | 8,336.0 | -366.9 | 3,321.1 | 1,216,206.30 | 3,218,599.40 | 39° 55' 27.225 N | 104° 43' 14.059 W |
| - survey misses target center by 3736.4usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Circle (radius 30.0) | | | | | | | | | |
| BHL - SOC 1S-66-36- | 0.00 | 0.00 | 7,580.0 | -26.5 | 4,498.4 | 1,216,556.84 | 3,219,773.69 | 39° 55' 30.587 N | 104° 42' 58.946 W |
| - survey misses target center by 4729.6usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| ICP - SOC 1S-66-36- | 0.00 | 0.00 | 7,600.0 | -30.6 | 201.1 | 1,216,515.60 | 3,215,476.66 | 39° 55' 30.551 N | 104° 43' 54.106 W |
| - survey misses target center by 596.1usft at 7180.0usft MD (7171.7 TVD, -33.3 N, -213.5 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| Survey Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,386.0 | 1,386.0 | 4.1 | 0.7 | TIE ON TO GYROS |
| 1,500.0 | 1,500.0 | 4.9 | 0.6 | SURFACE CASING |
| 7,095.0 | 7,086.7 | -32.8 | -212.0 | LAST SURVEY - MAR 29, 2014 |
| 7,180.0 | 7,171.7 | -33.3 | -213.5 | TD ORIGINAL WELLBORE |

Checked By: _____ Approved By: _____ Date: _____