

# **EXTRACTION OIL & GAS**

**WELD COUNTY, COLORADO (NAD 83)**

**NW NE SEC. 5 T5N R65W 6th P.M.**

**DT-HABITAT C1-5-6**

**ORIGINAL WELLBORE**

**17 November, 2014**

**Plan: PROPOSAL #2**

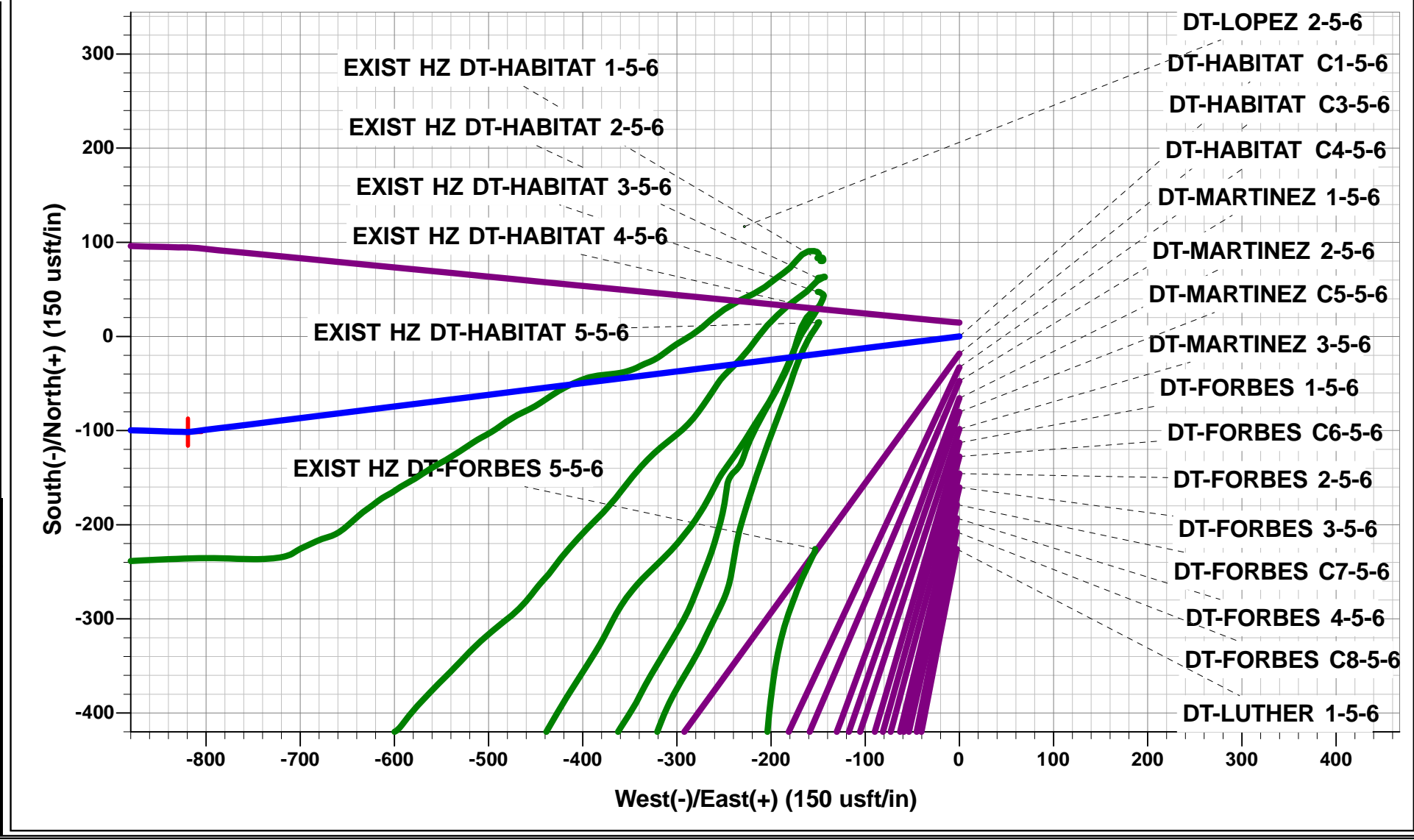




Project: WELD COUNTY, COLORADO (NAD 83)  
Site: NW NE SEC. 5 T5N R65W 6th P.M.  
Well: DT-HABITAT C1-5-6  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #2

| ANNOTATIONS |         |       |        |        |         |        |        |                             |  |
|-------------|---------|-------|--------|--------|---------|--------|--------|-----------------------------|--|
| TVD         | MD      | Inc   | Azi    | +N/-S  | +E/-W   | Vsect  | Dep    | Annotation                  |  |
| 2602.0      | 2602.0  | 0.00  | 0.00   | 0.0    | 0.0     | 0.0    | 0.0    | START NUDDGE (2°/100ft BUR) |  |
| 3343.5      | 3352.0  | 15.00 | 262.93 | -12.0  | -96.9   | 96.7   | 97.6   | EOB TO 15° INC              |  |
| 5695.6      | 5787.1  | 15.00 | 262.93 | -89.6  | -722.3  | 720.8  | 727.8  | END OF TANGENT              |  |
| 6437.0      | 6537.0  | 0.00  | 262.93 | -101.6 | -819.2  | 817.4  | 825.4  | EOD TO VERTICAL             |  |
| 6467.0      | 6567.0  | 0.00  | 0.00   | -101.6 | -819.2  | 817.4  | 825.4  | KOP (10°/100ft BUR)         |  |
| 7040.0      | 7467.1  | 90.00 | 271.78 | -83.7  | -1391.9 | 1390.4 | 1398.4 | 7" ICP - DT-HABITAT C1-5-6  |  |
| 7040.0      | 14560.7 | 90.00 | 271.77 | 136.3  | -8482.0 | 8483.1 | 8492.0 | BHL - DT-HABITAT C1-5-6     |  |

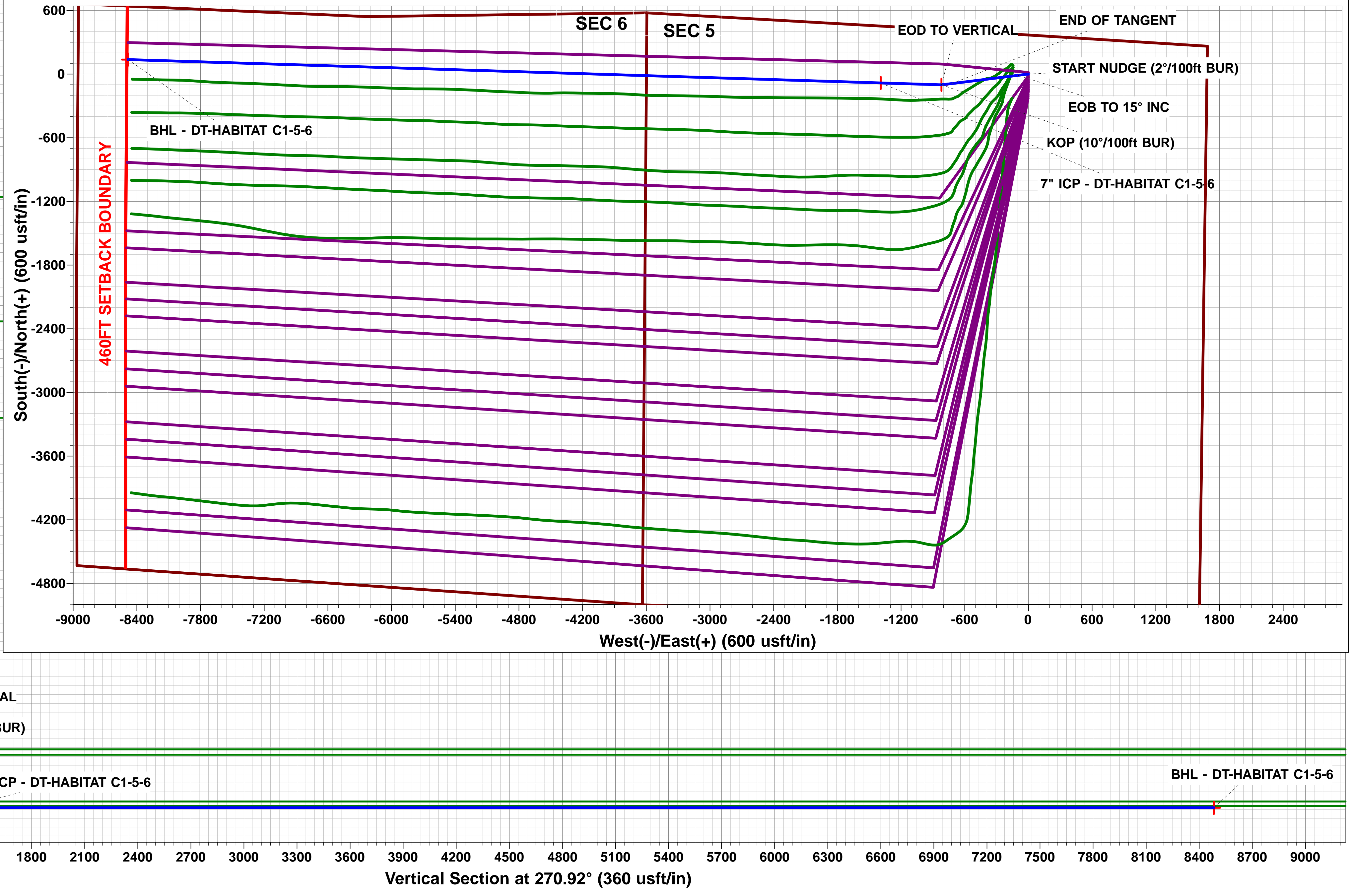
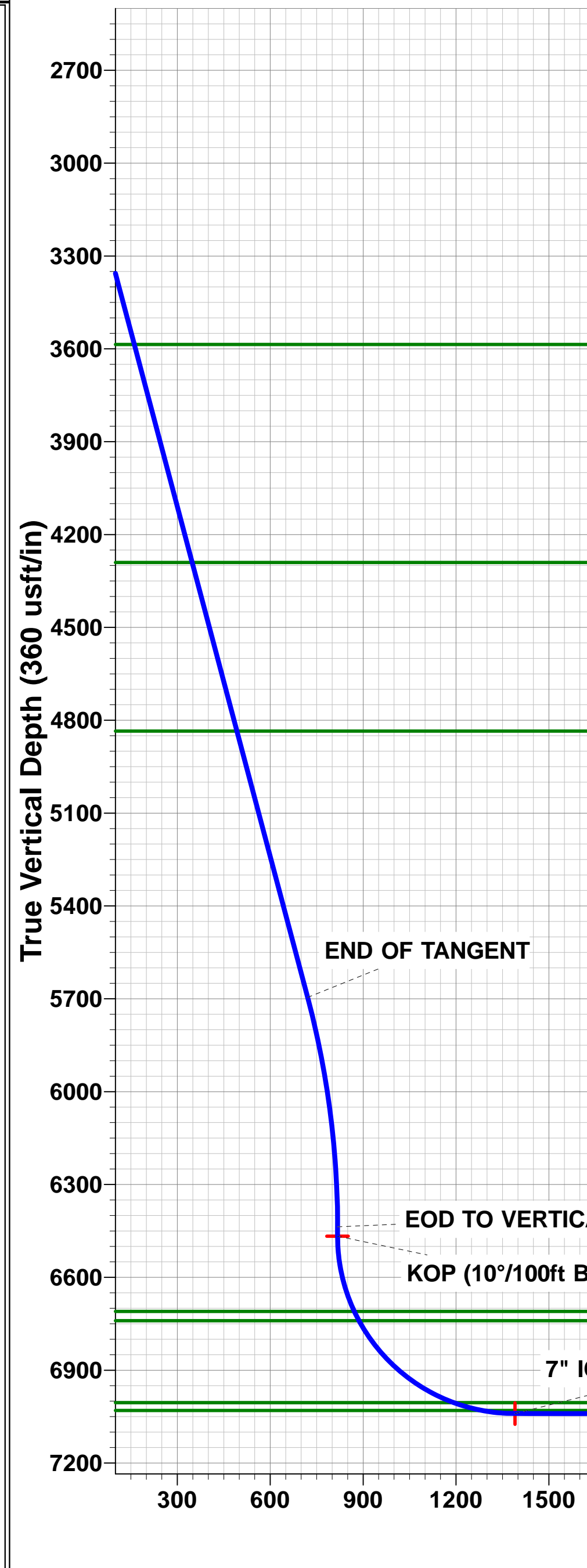
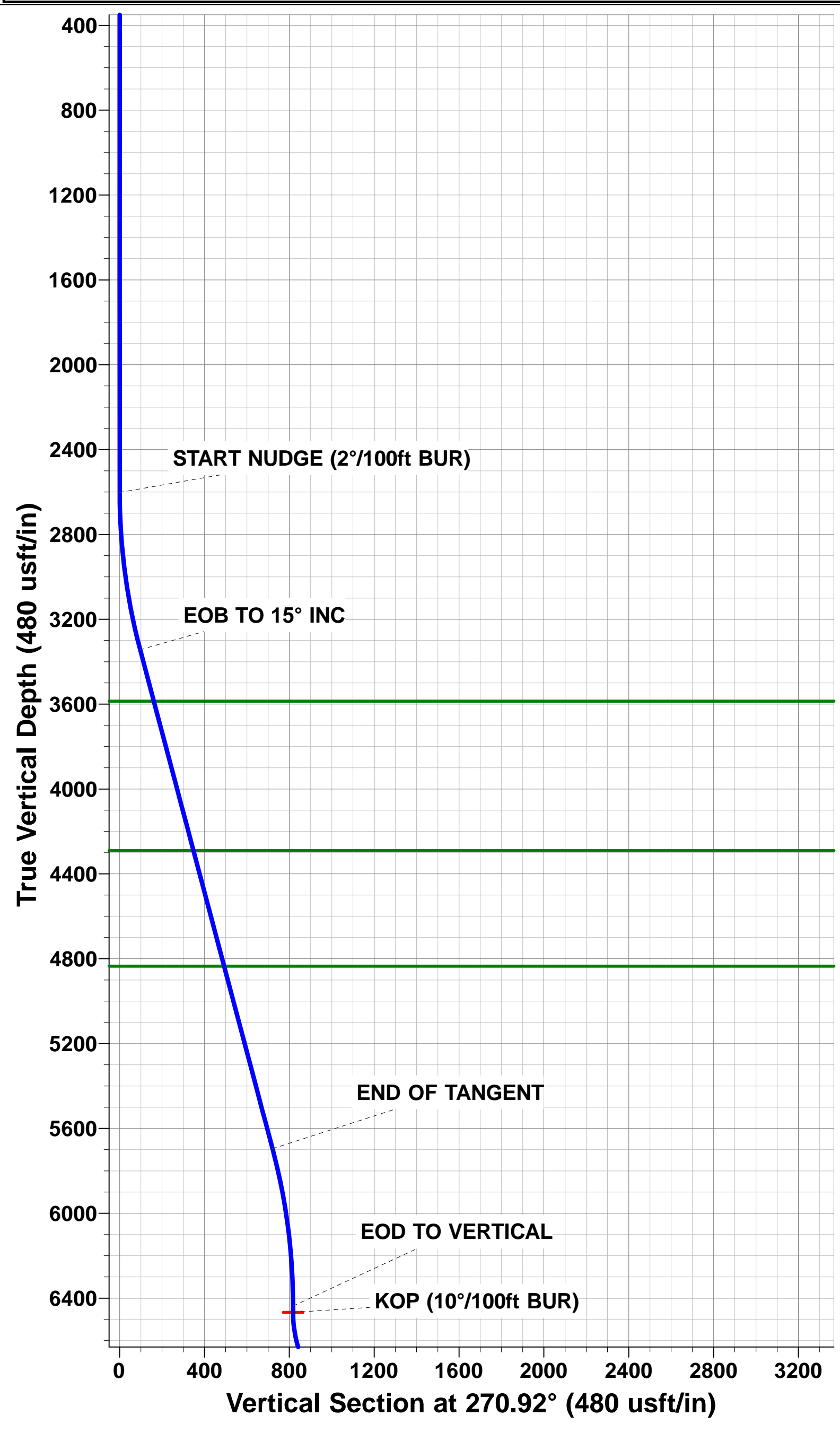
| WELLBORE TARGET DETAILS (LAT/LONG) |        |        |         |           |             |
|------------------------------------|--------|--------|---------|-----------|-------------|
| Name                               | TVD    | +N/-S  | +E/-W   | Latitude  | Longitude   |
| KOP - DT-HABITAT C1-5-6            | 6467.0 | -101.6 | -819.2  | 40.435211 | -104.686673 |
| 7" ICP - DT-HABITAT C1-5-6         | 7040.0 | -83.7  | -1391.9 | 40.435260 | -104.688730 |
| BHL - DT-HABITAT C1-5-6            | 7040.0 | 136.3  | -8482.0 | 40.435860 | -104.714200 |



| FORMATION TOP DETAILS |        |                |
|-----------------------|--------|----------------|
| TVDPath               | MDPath | Formation      |
| 3586.0                | 3603.1 | PARKMAN        |
| 4290.0                | 4331.9 | SUSSEX         |
| 4835.0                | 4896.1 | SHANNON        |
| 6710.0                | 6818.0 | SHARON SPRINGS |
| 6740.0                | 6851.6 | NIOBRARA       |
| 7005.0                | 7265.8 | FORT HAYS      |
| 7030.0                | 7359.9 | CODELL         |

Azimuths to True North  
Magnetic North: 8.37°

Magnetic Field  
Strength: 52801.5nT  
Dip Angle: 66.97°  
Date: 08/11/2014  
Model: IGRF2010



# Planning Report



|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db      | <b>Local Co-ordinate Reference:</b> | Well DT-HABITAT C1-5-6        |
| <b>Company:</b>  | EXTRACTION OIL & GAS           | <b>TVD Reference:</b>               | KB-EST @ 4657.0usft (SAV 802) |
| <b>Project:</b>  | WELD COUNTY, COLORADO (NAD 83) | <b>MD Reference:</b>                | KB-EST @ 4657.0usft (SAV 802) |
| <b>Site:</b>     | NW NE SEC. 5 T5N R65W 6th P.M. | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | DT-HABITAT C1-5-6              | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | ORIGINAL WELLBORE              |                                     |                               |
| <b>Design:</b>   | PROPOSAL #2                    |                                     |                               |

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

|                              |                                |                          |                  |
|------------------------------|--------------------------------|--------------------------|------------------|
| <b>Site</b>                  | NW NE SEC. 5 T5N R65W 6th P.M. |                          |                  |
| <b>Site Position:</b>        |                                | <b>Northing:</b>         | 1,402,409.16usft |
| <b>From:</b>                 | Lat/Long                       | <b>Easting:</b>          | 3,226,987.53usft |
| <b>Position Uncertainty:</b> | 0.0 usft                       | <b>Slot Radius:</b>      | 1.10000ft        |
|                              |                                | <b>Latitude:</b>         | 40.435150        |
|                              |                                | <b>Longitude:</b>        | -104.684560      |
|                              |                                | <b>Grid Convergence:</b> | 0.53 °           |

|                             |                   |            |                            |
|-----------------------------|-------------------|------------|----------------------------|
| <b>Well</b>                 | DT-HABITAT C1-5-6 |            |                            |
| <b>Well Position</b>        | <b>+N-S</b>       | 123.9 usft | <b>Northing:</b>           |
|                             | <b>+E-W</b>       | 231.1 usft | <b>Easting:</b>            |
| <b>Position Uncertainty</b> |                   | 0.0 usft   | <b>Wellhead Elevation:</b> |
|                             |                   |            | <b>Latitude:</b>           |
|                             |                   |            | <b>Longitude:</b>          |
|                             |                   |            | <b>Ground Level:</b>       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | ORIGINAL WELLBORE |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 08/11/2014         | 8.37                   | 66.97                | 52,802                     |

|                          |                                |                    |                      |                      |
|--------------------------|--------------------------------|--------------------|----------------------|----------------------|
| <b>Design</b>            | PROPOSAL #2                    |                    |                      |                      |
| <b>Audit Notes:</b>      |                                |                    |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE          | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N-S (usft)</b> | <b>+E-W (usft)</b>   | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                | 0.0                  | 270.92               |

| <b>Plan Sections</b> |         |         |                |           |             |             |                        |                       |                      |         |                    |
|----------------------|---------|---------|----------------|-----------|-------------|-------------|------------------------|-----------------------|----------------------|---------|--------------------|
| MD (usft)            | Inc (°) | Azi (°) | Vertical Depth | SS (usft) | +N-S (usft) | +E-W (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100usf) | Turn Rate (°/100usf) | TFO (°) | Target             |
| 0.0                  | 0.00    | 0.00    | 0.0            | -4,657.0  | 0.0         | 0.0         | 0.00                   | 0.00                  | 0.00                 | 0.00    |                    |
| 2,602.0              | 0.00    | 0.00    | 2,602.0        | -2,055.0  | 0.0         | 0.0         | 0.00                   | 0.00                  | 0.00                 | 0.00    |                    |
| 3,352.0              | 15.00   | 262.93  | 3,343.4        | -1,313.6  | -12.0       | -96.9       | 2.00                   | 2.00                  | 0.00                 | 262.93  |                    |
| 5,787.1              | 15.00   | 262.93  | 5,695.6        | 1,038.6   | -89.6       | -722.3      | 0.00                   | 0.00                  | 0.00                 | 0.00    |                    |
| 6,537.0              | 0.00    | 0.00    | 6,437.0        | 1,780.0   | -101.6      | -819.2      | 2.00                   | -2.00                 | 0.00                 | 180.00  |                    |
| 6,567.0              | 0.00    | 0.00    | 6,467.0        | 1,810.0   | -101.6      | -819.2      | 0.00                   | 0.00                  | 0.00                 | 0.00    | KOP - DT-HABITA1   |
| 7,467.1              | 90.00   | 271.78  | 7,040.0        | 2,383.0   | -83.7       | -1,391.9    | 10.00                  | 10.00                 | -9.80                | 271.78  | 7" ICP - DT-HABIT/ |
| 14,560.7             | 90.00   | 271.77  | 7,040.0        | 2,383.0   | 136.3       | -8,482.0    | 0.00                   | 0.00                  | 0.00                 | -81.53  | BHL - DT-HABITAT   |

## Planning Report



|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
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| <b>Site:</b>     | NW NE SEC. 5 T5N R65W 6th P.M. | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | DT-HABITAT C1-5-6              | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | ORIGINAL WELLBORE              |                                     |                               |
| <b>Design:</b>   | PROPOSAL #2                    |                                     |                               |

## Planned Survey

| MD<br>(usft)                      | Inc<br>(°) | Azi<br>(°) | TVD<br>(usft) | SS<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------------|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.0                               | 0.00       | 0.00       | 0.0           | 4,657.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 100.0                             | 0.00       | 0.00       | 100.0         | 4,557.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 200.0                             | 0.00       | 0.00       | 200.0         | 4,457.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 300.0                             | 0.00       | 0.00       | 300.0         | 4,357.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 400.0                             | 0.00       | 0.00       | 400.0         | 4,257.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 500.0                             | 0.00       | 0.00       | 500.0         | 4,157.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 600.0                             | 0.00       | 0.00       | 600.0         | 4,057.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 700.0                             | 0.00       | 0.00       | 700.0         | 3,957.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 800.0                             | 0.00       | 0.00       | 800.0         | 3,857.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 900.0                             | 0.00       | 0.00       | 900.0         | 3,757.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,000.0                           | 0.00       | 0.00       | 1,000.0       | 3,657.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,100.0                           | 0.00       | 0.00       | 1,100.0       | 3,557.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,200.0                           | 0.00       | 0.00       | 1,200.0       | 3,457.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,300.0                           | 0.00       | 0.00       | 1,300.0       | 3,357.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,400.0                           | 0.00       | 0.00       | 1,400.0       | 3,257.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,500.0                           | 0.00       | 0.00       | 1,500.0       | 3,157.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,600.0                           | 0.00       | 0.00       | 1,600.0       | 3,057.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,700.0                           | 0.00       | 0.00       | 1,700.0       | 2,957.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,800.0                           | 0.00       | 0.00       | 1,800.0       | 2,857.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,900.0                           | 0.00       | 0.00       | 1,900.0       | 2,757.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,000.0                           | 0.00       | 0.00       | 2,000.0       | 2,657.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,100.0                           | 0.00       | 0.00       | 2,100.0       | 2,557.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,200.0                           | 0.00       | 0.00       | 2,200.0       | 2,457.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,300.0                           | 0.00       | 0.00       | 2,300.0       | 2,357.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,400.0                           | 0.00       | 0.00       | 2,400.0       | 2,257.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,500.0                           | 0.00       | 0.00       | 2,500.0       | 2,157.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,600.0                           | 0.00       | 0.00       | 2,600.0       | 2,057.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| <b>START NUDGE (2°/100ft BUR)</b> |            |            |               |              |                 |                 |                               |                               |                              |                             |
| 2,602.0                           | 0.00       | 0.00       | 2,602.0       | 2,055.00     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,700.0                           | 1.96       | 262.93     | 2,700.0       | 1,957.02     | -0.2            | -1.7            | 1.7                           | 2.00                          | 2.00                         | 0.00                        |
| 2,800.0                           | 3.96       | 262.93     | 2,799.8       | 1,857.16     | -0.8            | -6.8            | 6.8                           | 2.00                          | 2.00                         | 0.00                        |
| 2,900.0                           | 5.96       | 262.93     | 2,899.5       | 1,757.54     | -1.9            | -15.4           | 15.3                          | 2.00                          | 2.00                         | 0.00                        |
| 3,000.0                           | 7.96       | 262.93     | 2,998.7       | 1,658.28     | -3.4            | -27.4           | 27.3                          | 2.00                          | 2.00                         | 0.00                        |
| 3,100.0                           | 9.96       | 262.93     | 3,097.5       | 1,559.50     | -5.3            | -42.8           | 42.8                          | 2.00                          | 2.00                         | 0.00                        |
| 3,200.0                           | 11.96      | 262.93     | 3,195.7       | 1,461.33     | -7.7            | -61.7           | 61.6                          | 2.00                          | 2.00                         | 0.00                        |
| 3,300.0                           | 13.96      | 262.93     | 3,293.1       | 1,363.89     | -10.4           | -84.0           | 83.8                          | 2.00                          | 2.00                         | 0.00                        |
| <b>EOB TO 15° INC</b>             |            |            |               |              |                 |                 |                               |                               |                              |                             |
| 3,352.0                           | 15.00      | 262.93     | 3,343.5       | 1,313.54     | -12.0           | -96.9           | 96.7                          | 2.00                          | 2.00                         | 0.00                        |
| 3,400.0                           | 15.00      | 262.93     | 3,389.8       | 1,267.17     | -13.5           | -109.2          | 109.0                         | 0.00                          | 0.00                         | 0.00                        |
| 3,500.0                           | 15.00      | 262.93     | 3,486.4       | 1,170.58     | -16.7           | -134.9          | 134.6                         | 0.00                          | 0.00                         | 0.00                        |
| 3,600.0                           | 15.00      | 262.93     | 3,583.0       | 1,073.99     | -19.9           | -160.6          | 160.2                         | 0.00                          | 0.00                         | 0.00                        |
| <b>PARKMAN</b>                    |            |            |               |              |                 |                 |                               |                               |                              |                             |
| 3,603.1                           | 15.00      | 262.93     | 3,586.0       | 1,071.00     | -20.0           | -161.4          | 161.0                         | 0.00                          | 0.00                         | 0.00                        |
| 3,700.0                           | 15.00      | 262.93     | 3,679.6       | 977.40       | -23.1           | -186.3          | 185.9                         | 0.00                          | 0.00                         | 0.00                        |
| 3,800.0                           | 15.00      | 262.93     | 3,776.2       | 880.80       | -26.3           | -211.9          | 211.5                         | 0.00                          | 0.00                         | 0.00                        |
| 3,900.0                           | 15.00      | 262.93     | 3,872.8       | 784.21       | -29.5           | -237.6          | 237.1                         | 0.00                          | 0.00                         | 0.00                        |
| 4,000.0                           | 15.00      | 262.93     | 3,969.4       | 687.62       | -32.7           | -263.3          | 262.7                         | 0.00                          | 0.00                         | 0.00                        |
| 4,100.0                           | 15.00      | 262.93     | 4,066.0       | 591.02       | -35.8           | -289.0          | 288.4                         | 0.00                          | 0.00                         | 0.00                        |
| 4,200.0                           | 15.00      | 262.93     | 4,162.6       | 494.43       | -39.0           | -314.7          | 314.0                         | 0.00                          | 0.00                         | 0.00                        |
| 4,300.0                           | 15.00      | 262.93     | 4,259.2       | 397.84       | -42.2           | -340.4          | 339.6                         | 0.00                          | 0.00                         | 0.00                        |
| <b>SUSSEX</b>                     |            |            |               |              |                 |                 |                               |                               |                              |                             |
| 4,331.9                           | 15.00      | 262.93     | 4,290.0       | 367.00       | -43.2           | -348.6          | 347.8                         | 0.00                          | 0.00                         | 0.00                        |
| 4,400.0                           | 15.00      | 262.93     | 4,355.8       | 301.25       | -45.4           | -366.0          | 365.3                         | 0.00                          | 0.00                         | 0.00                        |
| 4,500.0                           | 15.00      | 262.93     | 4,452.3       | 204.65       | -48.6           | -391.7          | 390.9                         | 0.00                          | 0.00                         | 0.00                        |

|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
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| <b>Company:</b>  | EXTRACTION OIL & GAS           | <b>TVD Reference:</b>               | KB-EST @ 4657.0usft (SAV 802) |
| <b>Project:</b>  | WELD COUNTY, COLORADO (NAD 83) | <b>MD Reference:</b>                | KB-EST @ 4657.0usft (SAV 802) |
| <b>Site:</b>     | NW NE SEC. 5 T5N R65W 6th P.M. | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | DT-HABITAT C1-5-6              | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | ORIGINAL WELLBORE              |                                     |                               |
| <b>Design:</b>   | PROPOSAL #2                    |                                     |                               |

## Planned Survey

| MD<br>(usft)                      | Inc<br>(°)   | Azi<br>(°)    | TVD<br>(usft)  | SS<br>(usft)     | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------------|--------------|---------------|----------------|------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 4,600.0                           | 15.00        | 262.93        | 4,548.9        | 108.06           | -51.8           | -417.4          | 416.5                         | 0.00                          | 0.00                         | 0.00                        |
| 4,700.0                           | 15.00        | 262.93        | 4,645.5        | 11.47            | -54.9           | -443.1          | 442.2                         | 0.00                          | 0.00                         | 0.00                        |
| 4,800.0                           | 15.00        | 262.93        | 4,742.1        | -85.13           | -58.1           | -468.8          | 467.8                         | 0.00                          | 0.00                         | 0.00                        |
| <b>SHANNON</b>                    |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>4,896.1</b>                    | <b>15.00</b> | <b>262.93</b> | <b>4,835.0</b> | <b>-178.00</b>   | <b>-61.2</b>    | <b>-493.5</b>   | <b>492.4</b>                  | <b>0.00</b>                   | <b>0.00</b>                  | <b>0.00</b>                 |
| 4,900.0                           | 15.00        | 262.93        | 4,838.7        | -181.72          | -61.3           | -494.5          | 493.4                         | 0.00                          | 0.00                         | 0.00                        |
| 5,000.0                           | 15.00        | 262.93        | 4,935.3        | -278.31          | -64.5           | -520.1          | 519.0                         | 0.00                          | 0.00                         | 0.00                        |
| 5,100.0                           | 15.00        | 262.93        | 5,031.9        | -374.90          | -67.7           | -545.8          | 544.7                         | 0.00                          | 0.00                         | 0.00                        |
| 5,200.0                           | 15.00        | 262.93        | 5,128.5        | -471.50          | -70.9           | -571.5          | 570.3                         | 0.00                          | 0.00                         | 0.00                        |
| 5,300.0                           | 15.00        | 262.93        | 5,225.1        | -568.09          | -74.1           | -597.2          | 595.9                         | 0.00                          | 0.00                         | 0.00                        |
| 5,400.0                           | 15.00        | 262.93        | 5,321.7        | -664.68          | -77.2           | -622.9          | 621.6                         | 0.00                          | 0.00                         | 0.00                        |
| 5,500.0                           | 15.00        | 262.93        | 5,418.3        | -761.28          | -80.4           | -648.6          | 647.2                         | 0.00                          | 0.00                         | 0.00                        |
| 5,600.0                           | 15.00        | 262.93        | 5,514.9        | -857.87          | -83.6           | -674.3          | 672.8                         | 0.00                          | 0.00                         | 0.00                        |
| 5,700.0                           | 15.00        | 262.93        | 5,611.5        | -954.46          | -86.8           | -699.9          | 698.5                         | 0.00                          | 0.00                         | 0.00                        |
| <b>END OF TANGENT</b>             |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>5,787.1</b>                    | <b>15.00</b> | <b>262.93</b> | <b>5,695.6</b> | <b>-1,038.59</b> | <b>-89.6</b>    | <b>-722.3</b>   | <b>720.8</b>                  | <b>0.00</b>                   | <b>0.00</b>                  | <b>0.00</b>                 |
| 5,800.0                           | 14.74        | 262.93        | 5,708.1        | -1,051.06        | -90.0           | -725.6          | 724.1                         | 2.00                          | -2.00                        | 0.00                        |
| 5,900.0                           | 12.74        | 262.93        | 5,805.2        | -1,148.20        | -92.9           | -749.2          | 747.6                         | 2.00                          | -2.00                        | 0.00                        |
| 6,000.0                           | 10.74        | 262.93        | 5,903.1        | -1,246.10        | -95.4           | -769.4          | 767.7                         | 2.00                          | -2.00                        | 0.00                        |
| 6,100.0                           | 8.74         | 262.93        | 6,001.7        | -1,344.65        | -97.5           | -786.1          | 784.5                         | 2.00                          | -2.00                        | 0.00                        |
| 6,200.0                           | 6.74         | 262.93        | 6,100.7        | -1,443.73        | -99.1           | -799.5          | 797.8                         | 2.00                          | -2.00                        | 0.00                        |
| 6,300.0                           | 4.74         | 262.93        | 6,200.2        | -1,543.23        | -100.4          | -809.4          | 807.7                         | 2.00                          | -2.00                        | 0.00                        |
| 6,400.0                           | 2.74         | 262.93        | 6,300.0        | -1,643.01        | -101.2          | -815.9          | 814.2                         | 2.00                          | -2.00                        | 0.00                        |
| 6,500.0                           | 0.74         | 262.93        | 6,400.0        | -1,742.96        | -101.6          | -818.9          | 817.2                         | 2.00                          | -2.00                        | 0.00                        |
| <b>EOD TO VERTICAL</b>            |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>6,537.0</b>                    | <b>0.00</b>  | <b>262.93</b> | <b>6,437.0</b> | <b>-1,779.96</b> | <b>-101.6</b>   | <b>-819.2</b>   | <b>817.4</b>                  | <b>2.00</b>                   | <b>-2.00</b>                 | <b>0.00</b>                 |
| <b>KOP (10°/100ft BUR)</b>        |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>6,567.0</b>                    | <b>0.00</b>  | <b>0.00</b>   | <b>6,467.0</b> | <b>-1,809.96</b> | <b>-101.6</b>   | <b>-819.2</b>   | <b>817.4</b>                  | <b>0.00</b>                   | <b>0.00</b>                  | <b>0.00</b>                 |
| 6,600.0                           | 3.30         | 271.78        | 6,499.9        | -1,842.94        | -101.6          | -820.1          | 818.4                         | 9.99                          | 9.99                         | 0.00                        |
| 6,700.0                           | 13.29        | 271.78        | 6,598.8        | -1,941.77        | -101.1          | -834.5          | 832.8                         | 10.00                         | 10.00                        | 0.00                        |
| 6,800.0                           | 23.29        | 271.78        | 6,693.6        | -2,036.59        | -100.1          | -865.9          | 864.1                         | 10.00                         | 10.00                        | 0.00                        |
| <b>SHARON SPRINGS</b>             |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>6,818.0</b>                    | <b>25.09</b> | <b>271.78</b> | <b>6,710.0</b> | <b>-2,053.00</b> | <b>-99.9</b>    | <b>-873.2</b>   | <b>871.5</b>                  | <b>10.00</b>                  | <b>10.00</b>                 | <b>0.00</b>                 |
| <b>NIOBRARA</b>                   |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>6,851.6</b>                    | <b>28.45</b> | <b>271.78</b> | <b>6,740.0</b> | <b>-2,083.00</b> | <b>-99.4</b>    | <b>-888.3</b>   | <b>886.6</b>                  | <b>10.00</b>                  | <b>10.00</b>                 | <b>0.00</b>                 |
| 6,900.0                           | 33.29        | 271.78        | 6,781.5        | -2,124.53        | -98.7           | -913.2          | 911.5                         | 10.00                         | 10.00                        | 0.00                        |
| 7,000.0                           | 43.29        | 271.78        | 6,859.9        | -2,202.92        | -96.7           | -975.0          | 973.3                         | 10.00                         | 10.00                        | 0.00                        |
| 7,100.0                           | 53.29        | 271.78        | 6,926.4        | -2,269.37        | -94.4           | -1,049.6        | 1,047.9                       | 10.00                         | 10.00                        | 0.00                        |
| 7,200.0                           | 63.29        | 271.78        | 6,978.9        | -2,321.86        | -91.8           | -1,134.5        | 1,132.9                       | 10.00                         | 10.00                        | 0.00                        |
| <b>FORT HAYS</b>                  |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>7,265.8</b>                    | <b>69.87</b> | <b>271.78</b> | <b>7,005.0</b> | <b>-2,348.00</b> | <b>-89.9</b>    | <b>-1,194.8</b> | <b>1,193.2</b>                | <b>10.00</b>                  | <b>10.00</b>                 | <b>0.00</b>                 |
| 7,300.0                           | 73.29        | 271.78        | 7,015.8        | -2,358.80        | -88.9           | -1,227.2        | 1,225.6                       | 10.00                         | 10.00                        | 0.00                        |
| <b>CODELL</b>                     |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>7,359.9</b>                    | <b>79.28</b> | <b>271.78</b> | <b>7,030.0</b> | <b>-2,373.00</b> | <b>-87.1</b>    | <b>-1,285.4</b> | <b>1,283.8</b>                | <b>10.00</b>                  | <b>10.00</b>                 | <b>0.00</b>                 |
| 7,400.0                           | 83.29        | 271.78        | 7,036.1        | -2,379.07        | -85.8           | -1,325.0        | 1,323.4                       | 10.00                         | 10.00                        | 0.00                        |
| <b>7" ICP - DT-HABITAT C1-5-6</b> |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>7,467.1</b>                    | <b>90.00</b> | <b>271.78</b> | <b>7,040.0</b> | <b>-2,383.00</b> | <b>-83.7</b>    | <b>-1,391.9</b> | <b>1,390.4</b>                | <b>10.00</b>                  | <b>10.00</b>                 | <b>0.00</b>                 |
| 7,500.0                           | 90.00        | 271.78        | 7,040.0        | -2,383.00        | -82.7           | -1,424.8        | 1,423.3                       | 0.00                          | 0.00                         | 0.00                        |
| 7,600.0                           | 90.00        | 271.78        | 7,040.0        | -2,383.00        | -79.6           | -1,524.7        | 1,523.2                       | 0.00                          | 0.00                         | 0.00                        |
| 7,700.0                           | 90.00        | 271.78        | 7,040.0        | -2,383.00        | -76.5           | -1,624.7        | 1,623.2                       | 0.00                          | 0.00                         | 0.00                        |
| 7,800.0                           | 90.00        | 271.78        | 7,040.0        | -2,383.01        | -73.4           | -1,724.6        | 1,723.2                       | 0.00                          | 0.00                         | 0.00                        |
| 7,900.0                           | 90.00        | 271.78        | 7,040.0        | -2,383.01        | -70.3           | -1,824.6        | 1,823.2                       | 0.00                          | 0.00                         | 0.00                        |
| 8,000.0                           | 90.00        | 271.78        | 7,040.0        | -2,383.01        | -67.2           | -1,924.5        | 1,923.2                       | 0.00                          | 0.00                         | 0.00                        |



# Planning Report



|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db      | <b>Local Co-ordinate Reference:</b> | Well DT-HABITAT C1-5-6        |
| <b>Company:</b>  | EXTRACTION OIL & GAS           | <b>TVD Reference:</b>               | KB-EST @ 4657.0usft (SAV 802) |
| <b>Project:</b>  | WELD COUNTY, COLORADO (NAD 83) | <b>MD Reference:</b>                | KB-EST @ 4657.0usft (SAV 802) |
| <b>Site:</b>     | NW NE SEC. 5 T5N R65W 6th P.M. | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | DT-HABITAT C1-5-6              | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | ORIGINAL WELLBORE              |                                     |                               |
| <b>Design:</b>   | PROPOSAL #2                    |                                     |                               |

| Planned Survey |            |            |               |              |                 |                 |                               |                               |                              |                             |
|----------------|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| MD<br>(usft)   | Inc<br>(°) | Azi<br>(°) | TVD<br>(usft) | SS<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 8,100.0        | 90.00      | 271.78     | 7,040.0       | -2,383.01    | -64.0           | -2,024.5        | 2,023.2                       | 0.00                          | 0.00                         | 0.00                        |
| 8,200.0        | 90.00      | 271.78     | 7,040.0       | -2,383.01    | -60.9           | -2,124.4        | 2,123.2                       | 0.00                          | 0.00                         | 0.00                        |
| 8,300.0        | 90.00      | 271.78     | 7,040.0       | -2,383.01    | -57.8           | -2,224.4        | 2,223.2                       | 0.00                          | 0.00                         | 0.00                        |
| 8,400.0        | 90.00      | 271.78     | 7,040.0       | -2,383.01    | -54.7           | -2,324.3        | 2,323.2                       | 0.00                          | 0.00                         | 0.00                        |
| 8,500.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -51.6           | -2,424.3        | 2,423.1                       | 0.00                          | 0.00                         | 0.00                        |
| 8,600.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -48.5           | -2,524.2        | 2,523.1                       | 0.00                          | 0.00                         | 0.00                        |
| 8,700.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -45.4           | -2,624.2        | 2,623.1                       | 0.00                          | 0.00                         | 0.00                        |
| 8,800.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -42.3           | -2,724.1        | 2,723.1                       | 0.00                          | 0.00                         | 0.00                        |
| 8,900.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -39.2           | -2,824.1        | 2,823.1                       | 0.00                          | 0.00                         | 0.00                        |
| 9,000.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -36.1           | -2,924.0        | 2,923.1                       | 0.00                          | 0.00                         | 0.00                        |
| 9,100.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -32.9           | -3,024.0        | 3,023.1                       | 0.00                          | 0.00                         | 0.00                        |
| 9,200.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -29.8           | -3,123.9        | 3,123.1                       | 0.00                          | 0.00                         | 0.00                        |
| 9,300.0        | 90.00      | 271.78     | 7,040.0       | -2,383.02    | -26.7           | -3,223.9        | 3,223.1                       | 0.00                          | 0.00                         | 0.00                        |
| 9,400.0        | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -23.6           | -3,323.8        | 3,323.0                       | 0.00                          | 0.00                         | 0.00                        |
| 9,500.0        | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -20.5           | -3,423.8        | 3,423.0                       | 0.00                          | 0.00                         | 0.00                        |
| 9,600.0        | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -17.4           | -3,523.8        | 3,523.0                       | 0.00                          | 0.00                         | 0.00                        |
| 9,700.0        | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -14.3           | -3,623.7        | 3,623.0                       | 0.00                          | 0.00                         | 0.00                        |
| 9,800.0        | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -11.2           | -3,723.7        | 3,723.0                       | 0.00                          | 0.00                         | 0.00                        |
| 9,900.0        | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -8.1            | -3,823.6        | 3,823.0                       | 0.00                          | 0.00                         | 0.00                        |
| 10,000.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -5.0            | -3,923.6        | 3,923.0                       | 0.00                          | 0.00                         | 0.00                        |
| 10,100.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | -1.9            | -4,023.5        | 4,023.0                       | 0.00                          | 0.00                         | 0.00                        |
| 10,200.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 1.2             | -4,123.5        | 4,122.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,300.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 4.3             | -4,223.4        | 4,222.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,400.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 7.4             | -4,323.4        | 4,322.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,500.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 10.5            | -4,423.3        | 4,422.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,600.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 13.6            | -4,523.3        | 4,522.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,700.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 16.7            | -4,623.2        | 4,622.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,800.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 19.8            | -4,723.2        | 4,722.9                       | 0.00                          | 0.00                         | 0.00                        |
| 10,900.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 22.9            | -4,823.1        | 4,822.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,000.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 26.0            | -4,923.1        | 4,922.9                       | 0.00                          | 0.00                         | 0.00                        |
| 11,100.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 29.1            | -5,023.0        | 5,022.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,200.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 32.2            | -5,123.0        | 5,122.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,300.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 35.3            | -5,222.9        | 5,222.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,400.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 38.4            | -5,322.9        | 5,322.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,500.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 41.5            | -5,422.8        | 5,422.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,600.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 44.6            | -5,522.8        | 5,522.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,700.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 47.7            | -5,622.7        | 5,622.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,800.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 50.8            | -5,722.7        | 5,722.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,900.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 53.9            | -5,822.6        | 5,822.8                       | 0.00                          | 0.00                         | 0.00                        |
| 12,000.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 57.0            | -5,922.6        | 5,922.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,100.0       | 90.00      | 271.78     | 7,040.0       | -2,383.03    | 60.1            | -6,022.5        | 6,022.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,200.0       | 90.00      | 271.77     | 7,040.0       | -2,383.03    | 63.2            | -6,122.5        | 6,122.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,300.0       | 90.00      | 271.77     | 7,040.0       | -2,383.03    | 66.3            | -6,222.5        | 6,222.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,400.0       | 90.00      | 271.77     | 7,040.0       | -2,383.03    | 69.4            | -6,322.4        | 6,322.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,500.0       | 90.00      | 271.77     | 7,040.0       | -2,383.03    | 72.5            | -6,422.4        | 6,422.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,600.0       | 90.00      | 271.77     | 7,040.0       | -2,383.03    | 75.6            | -6,522.3        | 6,522.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,700.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 78.7            | -6,622.3        | 6,622.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,800.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 81.8            | -6,722.2        | 6,722.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,900.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 84.9            | -6,822.2        | 6,822.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,000.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 88.0            | -6,922.1        | 6,922.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,100.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 91.1            | -7,022.1        | 7,022.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,200.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 94.2            | -7,122.0        | 7,122.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,300.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 97.3            | -7,222.0        | 7,222.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,400.0       | 90.00      | 271.77     | 7,040.0       | -2,383.02    | 100.4           | -7,321.9        | 7,322.6                       | 0.00                          | 0.00                         | 0.00                        |

# Planning Report



|                  |                                |                                     |                               |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db      | <b>Local Co-ordinate Reference:</b> | Well DT-HABITAT C1-5-6        |
| <b>Company:</b>  | EXTRACTION OIL & GAS           | <b>TVD Reference:</b>               | KB-EST @ 4657.0usft (SAV 802) |
| <b>Project:</b>  | WELD COUNTY, COLORADO (NAD 83) | <b>MD Reference:</b>                | KB-EST @ 4657.0usft (SAV 802) |
| <b>Site:</b>     | NW NE SEC. 5 T5N R65W 6th P.M. | <b>North Reference:</b>             | True                          |
| <b>Well:</b>     | DT-HABITAT C1-5-6              | <b>Survey Calculation Method:</b>   | Minimum Curvature             |
| <b>Wellbore:</b> | ORIGINAL WELLBORE              |                                     |                               |
| <b>Design:</b>   | PROPOSAL #2                    |                                     |                               |

| Planned Survey                 |              |               |                |                  |                 |                 |                               |                               |                              |                             |
|--------------------------------|--------------|---------------|----------------|------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| MD<br>(usft)                   | Inc<br>(°)   | Azi<br>(°)    | TVD<br>(usft)  | SS<br>(usft)     | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 13,500.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.02        | 103.5           | -7,421.9        | 7,422.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,600.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.02        | 106.6           | -7,521.8        | 7,522.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,700.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.01        | 109.7           | -7,621.8        | 7,622.6                       | 0.00                          | 0.00                         | 0.00                        |
| 13,800.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.01        | 112.8           | -7,721.7        | 7,722.5                       | 0.00                          | 0.00                         | 0.00                        |
| 13,900.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.01        | 115.8           | -7,821.7        | 7,822.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,000.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.01        | 118.9           | -7,921.6        | 7,922.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,100.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.01        | 122.0           | -8,021.6        | 8,022.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,200.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.01        | 125.1           | -8,121.5        | 8,122.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,300.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.00        | 128.2           | -8,221.5        | 8,222.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,400.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.00        | 131.3           | -8,321.4        | 8,322.5                       | 0.00                          | 0.00                         | 0.00                        |
| 14,500.0                       | 90.00        | 271.77        | 7,040.0        | -2,383.00        | 134.4           | -8,421.4        | 8,422.5                       | 0.00                          | 0.00                         | 0.00                        |
| <b>BHL - DT-HABITAT C1-5-6</b> |              |               |                |                  |                 |                 |                               |                               |                              |                             |
| <b>14,560.7</b>                | <b>90.00</b> | <b>271.77</b> | <b>7,040.0</b> | <b>-2,383.00</b> | <b>136.3</b>    | <b>-8,482.0</b> | <b>8,483.1</b>                | <b>0.00</b>                   | <b>0.00</b>                  | <b>0.00</b>                 |

| Formations   |               |                |           |            |                         |  |
|--------------|---------------|----------------|-----------|------------|-------------------------|--|
| MD<br>(usft) | TVD<br>(usft) | Name           | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |  |
| 3,603.1      | 3,586.0       | PARKMAN        |           |            |                         |  |
| 4,331.9      | 4,290.0       | SUSSEX         |           |            |                         |  |
| 4,896.1      | 4,835.0       | SHANNON        |           |            |                         |  |
| 6,818.0      | 6,710.0       | SHARON SPRINGS |           |            |                         |  |
| 6,851.6      | 6,740.0       | NIOBRARA       |           |            |                         |  |
| 7,265.8      | 7,005.0       | FORT HAYS      |           |            |                         |  |
| 7,359.9      | 7,030.0       | CODELL         |           |            |                         |  |

| Plan Annotations |               |                   |                 |                            |
|------------------|---------------|-------------------|-----------------|----------------------------|
| MD<br>(usft)     | TVD<br>(usft) | Local Coordinates |                 | Comment                    |
|                  |               | +N/-S<br>(usft)   | +E/-W<br>(usft) |                            |
| 2,602.0          | 2,602.0       | 0.0               | 0.0             | START NUDGE (2°/100ft BUR) |
| 3,352.0          | 3,343.5       | -12.0             | -96.9           | EOB TO 15° INC             |
| 5,787.1          | 5,695.6       | -89.6             | -722.3          | END OF TANGENT             |
| 6,537.0          | 6,437.0       | -101.6            | -819.2          | EOD TO VERTICAL            |
| 6,567.0          | 6,467.0       | -101.6            | -819.2          | KOP (10°/100ft BUR)        |
| 7,467.1          | 7,040.0       | -83.7             | -1,391.9        | 7" ICP - DT-HABITAT C1-5-6 |
| 14,560.7         | 7,040.0       | 136.3             | -8,482.0        | BHL - DT-HABITAT C1-5-6    |