

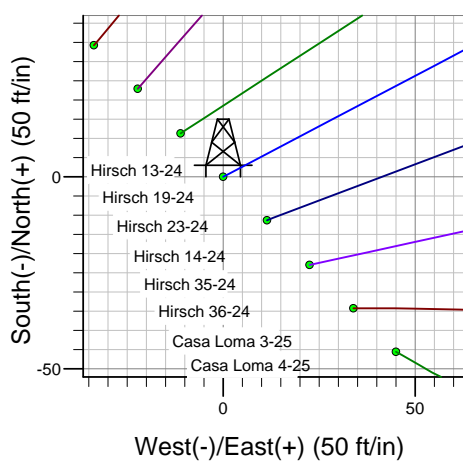
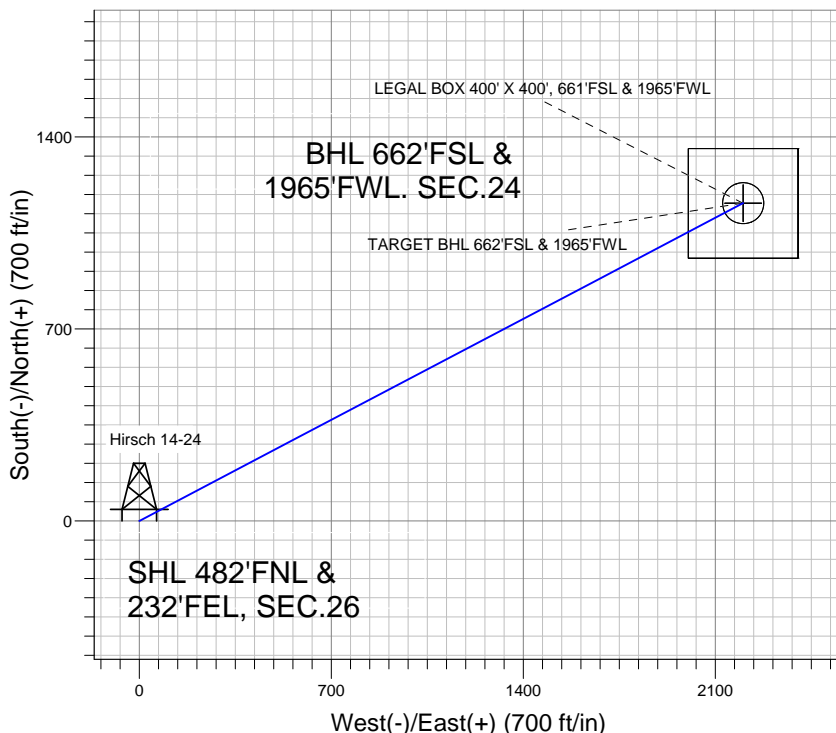
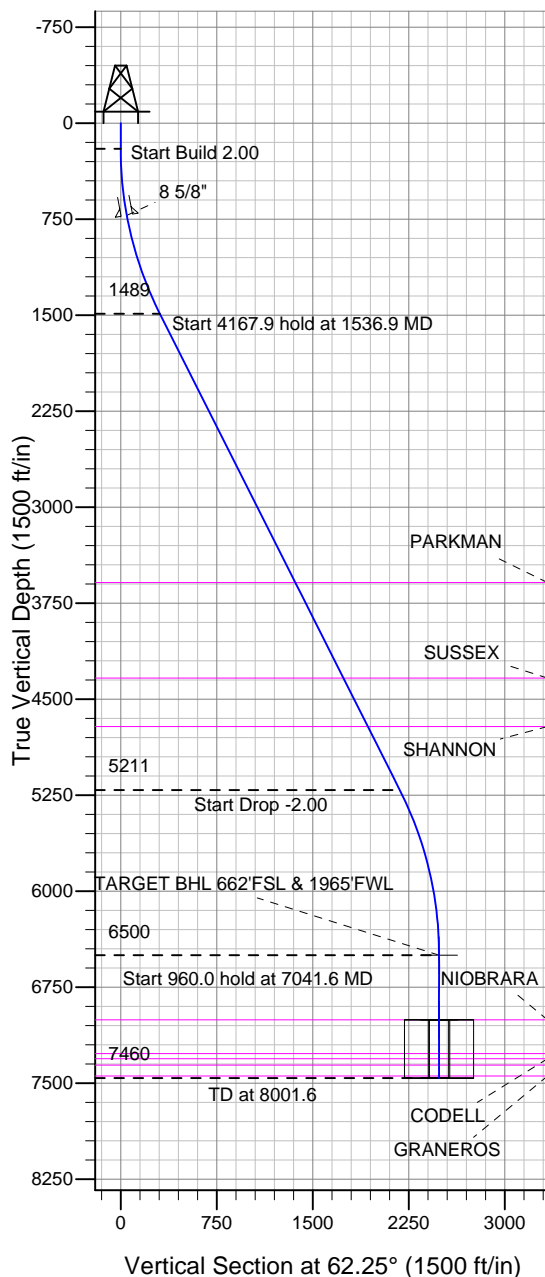
### Well Name: Hirsch 14-24

Surface Location: Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4953.0

| +N/-S   | +E/-W | Northing   | Easting    | Latitude  | Longitude   | Slot |
|---|-------|------------|------------|-----------|-------------|------|
| 0.0   | 0.0   | 1444244.73 | 3180148.25 | 40.551044 | -104.851722 |      |
| Original Well Elev WELL @ 4969.0ft (Original Well Elev) |       |            |            |           |             |      |

## BAYSWATER EXPLORATION & PRODUCTION



Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W  
 Hirsch 14-24  
 Plan #1 (7-10-12)  
 11:22, July 18 2012



Azimuths to True North  
 Magnetic North: 8.78°  
 Magnetic Field  
 Strength: 53087.2snT  
 Dip Angle: 67.12°  
 Date: 7/10/2012  
 Model: IGRF2010

### WELLBORE TARGET DETAILS (LAT/LONG)

| Name                                      | TVD    | +N/-S  | +E/-W  | Latitude  | Longitude   | Shape                            |
|---|--------|--------|--------|-----------|-------------|----------------------------------|
| TARGET BHL 662'FSL & 1965'FWL             | 6500.0 | 1158.3 | 2201.7 | 40.554223 | -104.843799 | Point                            |
| LEGAL BOX 400' X 400', 661'FSL & 1965'FWL | 7004.0 | 1157.3 | 2201.7 | 40.554220 | -104.843799 | Rectangle (Sides: L400.0 W400.0) |
| TARGET CIRCLE 662'FSL & 1965'FWL          | 7004.0 | 1158.3 | 2201.7 | 40.554223 | -104.843799 | Circle (Radius: 75.0)            |

### SECTION DETAILS

| Sec | MD     | Inc   | Azi   | TVD    | +N/-S  | +E/-W  | DLeg | TFace  | VSec   | Target                        |
|-----|--------|-------|-------|--------|--------|--------|------|--------|--------|-------------------------------|
| 1   | 0.0    | 0.00  | 0.00  | 0.0    | 0.0    | 0.0    | 0.00 | 0.00   | 0.0    |                               |
| 2   | 200.0  | 0.00  | 0.00  | 200.0  | 0.0    | 0.0    | 0.00 | 0.00   | 0.0    |                               |
| 3   | 1536.9 | 26.74 | 62.25 | 1488.9 | 142.6  | 271.1  | 2.00 | 62.25  | 306.3  |                               |
| 4   | 5704.8 | 26.74 | 62.25 | 5211.1 | 1015.7 | 1930.6 | 0.00 | 0.00   | 2181.5 |                               |
| 5   | 7041.6 | 0.00  | 0.00  | 6500.0 | 1158.3 | 2201.7 | 2.00 | 180.00 | 2487.8 | TARGET BHL 662'FSL & 1965'FWL |
| 6   | 8001.6 | 0.00  | 0.00  | 7460.0 | 1158.3 | 2201.7 | 0.00 | 0.00   | 2487.8 |                               |



# **BAYSWATER EXPLORATION & PRODUCTION**

**SEC.26-T7N-R67W**

**Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W**

**Hirsch 14-24**

**Wellbore #1**

**Plan: Plan #1 (7-10-12)**

## **Standard Planning Report**

**18 July, 2012**

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Landmark                                | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Company:</b>  | BAYSWATER EXPLORATION & PRODUCTION      | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Project:</b>  | SEC.26-T7N-R67W                         | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site:</b>     | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                             |                                     |                                      |
| <b>Design:</b>   | Plan #1 (7-10-12)                       |                                     |                                      |

|                    |                                  |                      |                             |
|--------------------|----------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | SEC.26-T7N-R67W, Weld County, CO |                      |                             |
| <b>Map System:</b> | US State Plane 1983              | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983        |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | Colorado Northern Zone           |                      | Using geodetic scale factor |

|                       |  |  |          |  |  |   |  |  |                |  |  |                   |  |  |             |  |  |
|-----------------------|--|--|----------|--|--|---|--|--|----------------|--|--|-------------------|--|--|-------------|--|--|
| Site                  |  |  |          |  |  | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W |  |  |                |  |  |                   |  |  |             |  |  |
| Site Position:        |  |  |          |  |  | Northing:                               |  |  | 1,444,301.16ft |  |  | Latitude:         |  |  | 40.551200   |  |  |
| From:                 |  |  | Lat/Long |  |  | Easting:                                |  |  | 3,180,091.71ft |  |  | Longitude:        |  |  | -104.851924 |  |  |
| Position Uncertainty: |  |  | 0.0 ft   |  |  | Slot Radius:                            |  |  | "              |  |  | Grid Convergence: |  |  | 0.42 °      |  |  |

|                      |              |          |                     |                 |               |             |
|----------------------|--------------|----------|---------------------|-----------------|---------------|-------------|
| Well                 | Hirsch 14-24 |          |                     |                 |               |             |
| Well Position        | +N/-S        | -56.8 ft | Northing:           | 1,444,244.73 ft | Latitude:     | 40.551044   |
|                      | +E/-W        | 56.1 ft  | Easting:            | 3,180,148.25 ft | Longitude:    | -104.851722 |
| Position Uncertainty |              | 0.0 ft   | Wellhead Elevation: | ft              | Ground Level: | 4,953.0 ft  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 7/10/2012          | 8.78                   | 67.12                | 53,087                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1 (7-10-12)            |                   |                      |                      |
| <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) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.0                          | 0.0               | 0.0                  | 62.25                |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                  |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target           |
| 0.0                  | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.00                  | 0.00                 | 0.00                | 0.00    |                  |
| 200.0                | 0.00            | 0.00        | 200.0               | 0.0        | 0.0        | 0.00                  | 0.00                 | 0.00                | 0.00    |                  |
| 1,536.9              | 26.74           | 62.25       | 1,488.9             | 142.6      | 271.1      | 2.00                  | 2.00                 | 0.00                | 62.25   |                  |
| 5,704.8              | 26.74           | 62.25       | 5,211.1             | 1,015.7    | 1,930.6    | 0.00                  | 0.00                 | 0.00                | 0.00    |                  |
| 7,041.6              | 0.00            | 0.00        | 6,500.0             | 1,158.3    | 2,201.7    | 2.00                  | -2.00                | 0.00                | 180.00  | TARGET BHL 662'I |
| 8,001.6              | 0.00            | 0.00        | 7,460.0             | 1,158.3    | 2,201.7    | 0.00                  | 0.00                 | 0.00                | 0.00    |                  |

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Landmark                                | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Company:</b>  | BAYSWATER EXPLORATION & PRODUCTION      | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Project:</b>  | SEC.26-T7N-R67W                         | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site:</b>     | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                             |                                     |                                      |
| <b>Design:</b>   | Plan #1 (7-10-12)                       |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 40.0                | 0.00            | 0.00        | 40.0                | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 80.0                | 0.00            | 0.00        | 80.0                | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 120.0               | 0.00            | 0.00        | 120.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 160.0               | 0.00            | 0.00        | 160.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 200.0               | 0.00            | 0.00        | 200.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 240.0               | 0.80            | 62.25       | 240.0               | 0.1        | 0.2        | 0.3                   | 2.00                  | 2.00                 | 0.00                |
| 280.0               | 1.60            | 62.25       | 280.0               | 0.5        | 1.0        | 1.1                   | 2.00                  | 2.00                 | 0.00                |
| 320.0               | 2.40            | 62.25       | 320.0               | 1.2        | 2.2        | 2.5                   | 2.00                  | 2.00                 | 0.00                |
| 360.0               | 3.20            | 62.25       | 359.9               | 2.1        | 4.0        | 4.5                   | 2.00                  | 2.00                 | 0.00                |
| 400.0               | 4.00            | 62.25       | 399.8               | 3.2        | 6.2        | 7.0                   | 2.00                  | 2.00                 | 0.00                |
| 440.0               | 4.80            | 62.25       | 439.7               | 4.7        | 8.9        | 10.0                  | 2.00                  | 2.00                 | 0.00                |
| 480.0               | 5.60            | 62.25       | 479.6               | 6.4        | 12.1       | 13.7                  | 2.00                  | 2.00                 | 0.00                |
| 520.0               | 6.40            | 62.25       | 519.3               | 8.3        | 15.8       | 17.9                  | 2.00                  | 2.00                 | 0.00                |
| 560.0               | 7.20            | 62.25       | 559.1               | 10.5       | 20.0       | 22.6                  | 2.00                  | 2.00                 | 0.00                |
| 600.0               | 8.00            | 62.25       | 598.7               | 13.0       | 24.7       | 27.9                  | 2.00                  | 2.00                 | 0.00                |
| 640.0               | 8.80            | 62.25       | 638.3               | 15.7       | 29.8       | 33.7                  | 2.00                  | 2.00                 | 0.00                |
| 680.0               | 9.60            | 62.25       | 677.8               | 18.7       | 35.5       | 40.1                  | 2.00                  | 2.00                 | 0.00                |
| 720.0               | 10.40           | 62.25       | 717.1               | 21.9       | 41.7       | 47.1                  | 2.00                  | 2.00                 | 0.00                |
| 722.9               | 10.46           | 62.25       | 720.0               | 22.2       | 42.1       | 47.6                  | 2.00                  | 2.00                 | 0.00                |
| 8 5/8"              |                 |             |                     |            |            |                       |                       |                      |                     |
| 760.0               | 11.20           | 62.25       | 756.4               | 25.4       | 48.3       | 54.6                  | 2.00                  | 2.00                 | 0.00                |
| 800.0               | 12.00           | 62.25       | 795.6               | 29.1       | 55.4       | 62.6                  | 2.00                  | 2.00                 | 0.00                |
| 840.0               | 12.80           | 62.25       | 834.7               | 33.1       | 63.0       | 71.2                  | 2.00                  | 2.00                 | 0.00                |
| 880.0               | 13.60           | 62.25       | 873.6               | 37.4       | 71.1       | 80.3                  | 2.00                  | 2.00                 | 0.00                |
| 920.0               | 14.40           | 62.25       | 912.4               | 41.9       | 79.7       | 90.0                  | 2.00                  | 2.00                 | 0.00                |
| 960.0               | 15.20           | 62.25       | 951.1               | 46.7       | 88.7       | 100.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,000.0             | 16.00           | 62.25       | 989.6               | 51.7       | 98.2       | 111.0                 | 2.00                  | 2.00                 | 0.00                |
| 1,040.0             | 16.80           | 62.25       | 1,028.0             | 56.9       | 108.2      | 122.3                 | 2.00                  | 2.00                 | 0.00                |
| 1,080.0             | 17.60           | 62.25       | 1,066.2             | 62.4       | 118.7      | 134.1                 | 2.00                  | 2.00                 | 0.00                |
| 1,120.0             | 18.40           | 62.25       | 1,104.3             | 68.2       | 129.6      | 146.5                 | 2.00                  | 2.00                 | 0.00                |
| 1,160.0             | 19.20           | 62.25       | 1,142.1             | 74.2       | 141.0      | 159.3                 | 2.00                  | 2.00                 | 0.00                |
| 1,200.0             | 20.00           | 62.25       | 1,179.8             | 80.4       | 152.9      | 172.8                 | 2.00                  | 2.00                 | 0.00                |
| 1,240.0             | 20.80           | 62.25       | 1,217.3             | 86.9       | 165.2      | 186.7                 | 2.00                  | 2.00                 | 0.00                |
| 1,280.0             | 21.60           | 62.25       | 1,254.6             | 93.7       | 178.0      | 201.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,320.0             | 22.40           | 62.25       | 1,291.7             | 100.6      | 191.3      | 216.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,360.0             | 23.20           | 62.25       | 1,328.6             | 107.9      | 205.0      | 231.7                 | 2.00                  | 2.00                 | 0.00                |
| 1,400.0             | 24.00           | 62.25       | 1,365.2             | 115.3      | 219.2      | 247.7                 | 2.00                  | 2.00                 | 0.00                |
| 1,440.0             | 24.80           | 62.25       | 1,401.6             | 123.0      | 233.8      | 264.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,480.0             | 25.60           | 62.25       | 1,437.8             | 130.9      | 248.9      | 281.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,520.0             | 26.40           | 62.25       | 1,473.8             | 139.1      | 264.4      | 298.8                 | 2.00                  | 2.00                 | 0.00                |
| 1,536.9             | 26.74           | 62.25       | 1,488.9             | 142.6      | 271.1      | 306.3                 | 2.00                  | 2.00                 | 0.00                |
| 1,560.0             | 26.74           | 62.25       | 1,509.5             | 147.5      | 280.3      | 316.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,600.0             | 26.74           | 62.25       | 1,545.3             | 155.8      | 296.2      | 334.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,640.0             | 26.74           | 62.25       | 1,581.0             | 164.2      | 312.1      | 352.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,680.0             | 26.74           | 62.25       | 1,616.7             | 172.6      | 328.1      | 370.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,720.0             | 26.74           | 62.25       | 1,652.4             | 181.0      | 344.0      | 388.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,760.0             | 26.74           | 62.25       | 1,688.1             | 189.4      | 359.9      | 406.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,800.0             | 26.74           | 62.25       | 1,723.9             | 197.7      | 375.9      | 424.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,840.0             | 26.74           | 62.25       | 1,759.6             | 206.1      | 391.8      | 442.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,880.0             | 26.74           | 62.25       | 1,795.3             | 214.5      | 407.7      | 460.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,920.0             | 26.74           | 62.25       | 1,831.0             | 222.9      | 423.6      | 478.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,960.0             | 26.74           | 62.25       | 1,866.8             | 231.2      | 439.6      | 496.7                 | 0.00                  | 0.00                 | 0.00                |

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Landmark                                | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Company:</b>  | BAYSWATER EXPLORATION & PRODUCTION      | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Project:</b>  | SEC.26-T7N-R67W                         | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site:</b>     | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                             |                                     |                                      |
| <b>Design:</b>   | Plan #1 (7-10-12)                       |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 2,000.0             | 26.74           | 62.25       | 1,902.5             | 239.6      | 455.5      | 514.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,040.0             | 26.74           | 62.25       | 1,938.2             | 248.0      | 471.4      | 532.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,080.0             | 26.74           | 62.25       | 1,973.9             | 256.4      | 487.3      | 550.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,120.0             | 26.74           | 62.25       | 2,009.7             | 264.8      | 503.3      | 568.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,160.0             | 26.74           | 62.25       | 2,045.4             | 273.1      | 519.2      | 586.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,200.0             | 26.74           | 62.25       | 2,081.1             | 281.5      | 535.1      | 604.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,240.0             | 26.74           | 62.25       | 2,116.8             | 289.9      | 551.0      | 622.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,280.0             | 26.74           | 62.25       | 2,152.5             | 298.3      | 567.0      | 640.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,320.0             | 26.74           | 62.25       | 2,188.3             | 306.7      | 582.9      | 658.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,360.0             | 26.74           | 62.25       | 2,224.0             | 315.0      | 598.8      | 676.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,400.0             | 26.74           | 62.25       | 2,259.7             | 323.4      | 614.8      | 694.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,440.0             | 26.74           | 62.25       | 2,295.4             | 331.8      | 630.7      | 712.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,480.0             | 26.74           | 62.25       | 2,331.2             | 340.2      | 646.6      | 730.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,520.0             | 26.74           | 62.25       | 2,366.9             | 348.6      | 662.5      | 748.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,560.0             | 26.74           | 62.25       | 2,402.6             | 356.9      | 678.5      | 766.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,600.0             | 26.74           | 62.25       | 2,438.3             | 365.3      | 694.4      | 784.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,640.0             | 26.74           | 62.25       | 2,474.1             | 373.7      | 710.3      | 802.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,680.0             | 26.74           | 62.25       | 2,509.8             | 382.1      | 726.2      | 820.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,720.0             | 26.74           | 62.25       | 2,545.5             | 390.4      | 742.2      | 838.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,760.0             | 26.74           | 62.25       | 2,581.2             | 398.8      | 758.1      | 856.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,800.0             | 26.74           | 62.25       | 2,616.9             | 407.2      | 774.0      | 874.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,840.0             | 26.74           | 62.25       | 2,652.7             | 415.6      | 789.9      | 892.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,880.0             | 26.74           | 62.25       | 2,688.4             | 424.0      | 805.9      | 910.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,920.0             | 26.74           | 62.25       | 2,724.1             | 432.3      | 821.8      | 928.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,960.0             | 26.74           | 62.25       | 2,759.8             | 440.7      | 837.7      | 946.6                 | 0.00                  | 0.00                 | 0.00                |
| 3,000.0             | 26.74           | 62.25       | 2,795.6             | 449.1      | 853.7      | 964.6                 | 0.00                  | 0.00                 | 0.00                |
| 3,040.0             | 26.74           | 62.25       | 2,831.3             | 457.5      | 869.6      | 982.6                 | 0.00                  | 0.00                 | 0.00                |
| 3,080.0             | 26.74           | 62.25       | 2,867.0             | 465.9      | 885.5      | 1,000.6               | 0.00                  | 0.00                 | 0.00                |
| 3,120.0             | 26.74           | 62.25       | 2,902.7             | 474.2      | 901.4      | 1,018.6               | 0.00                  | 0.00                 | 0.00                |
| 3,160.0             | 26.74           | 62.25       | 2,938.5             | 482.6      | 917.4      | 1,036.6               | 0.00                  | 0.00                 | 0.00                |
| 3,200.0             | 26.74           | 62.25       | 2,974.2             | 491.0      | 933.3      | 1,054.6               | 0.00                  | 0.00                 | 0.00                |
| 3,240.0             | 26.74           | 62.25       | 3,009.9             | 499.4      | 949.2      | 1,072.6               | 0.00                  | 0.00                 | 0.00                |
| 3,280.0             | 26.74           | 62.25       | 3,045.6             | 507.8      | 965.1      | 1,090.6               | 0.00                  | 0.00                 | 0.00                |
| 3,320.0             | 26.74           | 62.25       | 3,081.3             | 516.1      | 981.1      | 1,108.5               | 0.00                  | 0.00                 | 0.00                |
| 3,360.0             | 26.74           | 62.25       | 3,117.1             | 524.5      | 997.0      | 1,126.5               | 0.00                  | 0.00                 | 0.00                |
| 3,400.0             | 26.74           | 62.25       | 3,152.8             | 532.9      | 1,012.9    | 1,144.5               | 0.00                  | 0.00                 | 0.00                |
| 3,440.0             | 26.74           | 62.25       | 3,188.5             | 541.3      | 1,028.8    | 1,162.5               | 0.00                  | 0.00                 | 0.00                |
| 3,480.0             | 26.74           | 62.25       | 3,224.2             | 549.6      | 1,044.8    | 1,180.5               | 0.00                  | 0.00                 | 0.00                |
| 3,520.0             | 26.74           | 62.25       | 3,260.0             | 558.0      | 1,060.7    | 1,198.5               | 0.00                  | 0.00                 | 0.00                |
| 3,560.0             | 26.74           | 62.25       | 3,295.7             | 566.4      | 1,076.6    | 1,216.5               | 0.00                  | 0.00                 | 0.00                |
| 3,600.0             | 26.74           | 62.25       | 3,331.4             | 574.8      | 1,092.6    | 1,234.5               | 0.00                  | 0.00                 | 0.00                |
| 3,640.0             | 26.74           | 62.25       | 3,367.1             | 583.2      | 1,108.5    | 1,252.5               | 0.00                  | 0.00                 | 0.00                |
| 3,680.0             | 26.74           | 62.25       | 3,402.9             | 591.5      | 1,124.4    | 1,270.5               | 0.00                  | 0.00                 | 0.00                |
| 3,720.0             | 26.74           | 62.25       | 3,438.6             | 599.9      | 1,140.3    | 1,288.5               | 0.00                  | 0.00                 | 0.00                |
| 3,760.0             | 26.74           | 62.25       | 3,474.3             | 608.3      | 1,156.3    | 1,306.5               | 0.00                  | 0.00                 | 0.00                |
| 3,800.0             | 26.74           | 62.25       | 3,510.0             | 616.7      | 1,172.2    | 1,324.5               | 0.00                  | 0.00                 | 0.00                |
| 3,840.0             | 26.74           | 62.25       | 3,545.7             | 625.1      | 1,188.1    | 1,342.5               | 0.00                  | 0.00                 | 0.00                |
| 3,880.0             | 26.74           | 62.25       | 3,581.5             | 633.4      | 1,204.0    | 1,360.5               | 0.00                  | 0.00                 | 0.00                |
| 3,888.4             | 26.74           | 62.25       | 3,589.0             | 635.2      | 1,207.4    | 1,364.3               | 0.00                  | 0.00                 | 0.00                |
| <b>PARKMAN</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,920.0             | 26.74           | 62.25       | 3,617.2             | 641.8      | 1,220.0    | 1,378.5               | 0.00                  | 0.00                 | 0.00                |
| 3,960.0             | 26.74           | 62.25       | 3,652.9             | 650.2      | 1,235.9    | 1,396.5               | 0.00                  | 0.00                 | 0.00                |
| 4,000.0             | 26.74           | 62.25       | 3,688.6             | 658.6      | 1,251.8    | 1,414.5               | 0.00                  | 0.00                 | 0.00                |

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Landmark                                | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Company:</b>  | BAYSWATER EXPLORATION & PRODUCTION      | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Project:</b>  | SEC.26-T7N-R67W                         | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site:</b>     | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                             |                                     |                                      |
| <b>Design:</b>   | Plan #1 (7-10-12)                       |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,040.0             | 26.74           | 62.25       | 3,724.4             | 666.9      | 1,267.7    | 1,432.5               | 0.00                  | 0.00                 | 0.00                |
| 4,080.0             | 26.74           | 62.25       | 3,760.1             | 675.3      | 1,283.7    | 1,450.5               | 0.00                  | 0.00                 | 0.00                |
| 4,120.0             | 26.74           | 62.25       | 3,795.8             | 683.7      | 1,299.6    | 1,468.5               | 0.00                  | 0.00                 | 0.00                |
| 4,160.0             | 26.74           | 62.25       | 3,831.5             | 692.1      | 1,315.5    | 1,486.5               | 0.00                  | 0.00                 | 0.00                |
| 4,200.0             | 26.74           | 62.25       | 3,867.3             | 700.5      | 1,331.5    | 1,504.5               | 0.00                  | 0.00                 | 0.00                |
| 4,240.0             | 26.74           | 62.25       | 3,903.0             | 708.8      | 1,347.4    | 1,522.5               | 0.00                  | 0.00                 | 0.00                |
| 4,280.0             | 26.74           | 62.25       | 3,938.7             | 717.2      | 1,363.3    | 1,540.5               | 0.00                  | 0.00                 | 0.00                |
| 4,320.0             | 26.74           | 62.25       | 3,974.4             | 725.6      | 1,379.2    | 1,558.5               | 0.00                  | 0.00                 | 0.00                |
| 4,360.0             | 26.74           | 62.25       | 4,010.1             | 734.0      | 1,395.2    | 1,576.5               | 0.00                  | 0.00                 | 0.00                |
| 4,400.0             | 26.74           | 62.25       | 4,045.9             | 742.4      | 1,411.1    | 1,594.4               | 0.00                  | 0.00                 | 0.00                |
| 4,440.0             | 26.74           | 62.25       | 4,081.6             | 750.7      | 1,427.0    | 1,612.4               | 0.00                  | 0.00                 | 0.00                |
| 4,480.0             | 26.74           | 62.25       | 4,117.3             | 759.1      | 1,442.9    | 1,630.4               | 0.00                  | 0.00                 | 0.00                |
| 4,520.0             | 26.74           | 62.25       | 4,153.0             | 767.5      | 1,458.9    | 1,648.4               | 0.00                  | 0.00                 | 0.00                |
| 4,560.0             | 26.74           | 62.25       | 4,188.8             | 775.9      | 1,474.8    | 1,666.4               | 0.00                  | 0.00                 | 0.00                |
| 4,600.0             | 26.74           | 62.25       | 4,224.5             | 784.3      | 1,490.7    | 1,684.4               | 0.00                  | 0.00                 | 0.00                |
| 4,640.0             | 26.74           | 62.25       | 4,260.2             | 792.6      | 1,506.6    | 1,702.4               | 0.00                  | 0.00                 | 0.00                |
| 4,680.0             | 26.74           | 62.25       | 4,295.9             | 801.0      | 1,522.6    | 1,720.4               | 0.00                  | 0.00                 | 0.00                |
| 4,720.0             | 26.74           | 62.25       | 4,331.7             | 809.4      | 1,538.5    | 1,738.4               | 0.00                  | 0.00                 | 0.00                |
| 4,722.6             | 26.74           | 62.25       | 4,334.0             | 809.9      | 1,539.5    | 1,739.6               | 0.00                  | 0.00                 | 0.00                |
| <b>SUSSEX</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,760.0             | 26.74           | 62.25       | 4,367.4             | 817.8      | 1,554.4    | 1,756.4               | 0.00                  | 0.00                 | 0.00                |
| 4,800.0             | 26.74           | 62.25       | 4,403.1             | 826.1      | 1,570.4    | 1,774.4               | 0.00                  | 0.00                 | 0.00                |
| 4,840.0             | 26.74           | 62.25       | 4,438.8             | 834.5      | 1,586.3    | 1,792.4               | 0.00                  | 0.00                 | 0.00                |
| 4,880.0             | 26.74           | 62.25       | 4,474.5             | 842.9      | 1,602.2    | 1,810.4               | 0.00                  | 0.00                 | 0.00                |
| 4,920.0             | 26.74           | 62.25       | 4,510.3             | 851.3      | 1,618.1    | 1,828.4               | 0.00                  | 0.00                 | 0.00                |
| 4,960.0             | 26.74           | 62.25       | 4,546.0             | 859.7      | 1,634.1    | 1,846.4               | 0.00                  | 0.00                 | 0.00                |
| 5,000.0             | 26.74           | 62.25       | 4,581.7             | 868.0      | 1,650.0    | 1,864.4               | 0.00                  | 0.00                 | 0.00                |
| 5,040.0             | 26.74           | 62.25       | 4,617.4             | 876.4      | 1,665.9    | 1,882.4               | 0.00                  | 0.00                 | 0.00                |
| 5,080.0             | 26.74           | 62.25       | 4,653.2             | 884.8      | 1,681.8    | 1,900.4               | 0.00                  | 0.00                 | 0.00                |
| 5,120.0             | 26.74           | 62.25       | 4,688.9             | 893.2      | 1,697.8    | 1,918.4               | 0.00                  | 0.00                 | 0.00                |
| 5,148.1             | 26.74           | 62.25       | 4,714.0             | 899.1      | 1,709.0    | 1,931.0               | 0.00                  | 0.00                 | 0.00                |
| <b>SHANNON</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,160.0             | 26.74           | 62.25       | 4,724.6             | 901.6      | 1,713.7    | 1,936.4               | 0.00                  | 0.00                 | 0.00                |
| 5,200.0             | 26.74           | 62.25       | 4,760.3             | 909.9      | 1,729.6    | 1,954.4               | 0.00                  | 0.00                 | 0.00                |
| 5,240.0             | 26.74           | 62.25       | 4,796.1             | 918.3      | 1,745.5    | 1,972.4               | 0.00                  | 0.00                 | 0.00                |
| 5,280.0             | 26.74           | 62.25       | 4,831.8             | 926.7      | 1,761.5    | 1,990.4               | 0.00                  | 0.00                 | 0.00                |
| 5,320.0             | 26.74           | 62.25       | 4,867.5             | 935.1      | 1,777.4    | 2,008.4               | 0.00                  | 0.00                 | 0.00                |
| 5,360.0             | 26.74           | 62.25       | 4,903.2             | 943.5      | 1,793.3    | 2,026.4               | 0.00                  | 0.00                 | 0.00                |
| 5,400.0             | 26.74           | 62.25       | 4,938.9             | 951.8      | 1,809.3    | 2,044.4               | 0.00                  | 0.00                 | 0.00                |
| 5,440.0             | 26.74           | 62.25       | 4,974.7             | 960.2      | 1,825.2    | 2,062.4               | 0.00                  | 0.00                 | 0.00                |
| 5,480.0             | 26.74           | 62.25       | 5,010.4             | 968.6      | 1,841.1    | 2,080.3               | 0.00                  | 0.00                 | 0.00                |
| 5,520.0             | 26.74           | 62.25       | 5,046.1             | 977.0      | 1,857.0    | 2,098.3               | 0.00                  | 0.00                 | 0.00                |
| 5,560.0             | 26.74           | 62.25       | 5,081.8             | 985.3      | 1,873.0    | 2,116.3               | 0.00                  | 0.00                 | 0.00                |
| 5,600.0             | 26.74           | 62.25       | 5,117.6             | 993.7      | 1,888.9    | 2,134.3               | 0.00                  | 0.00                 | 0.00                |
| 5,640.0             | 26.74           | 62.25       | 5,153.3             | 1,002.1    | 1,904.8    | 2,152.3               | 0.00                  | 0.00                 | 0.00                |
| 5,680.0             | 26.74           | 62.25       | 5,189.0             | 1,010.5    | 1,920.7    | 2,170.3               | 0.00                  | 0.00                 | 0.00                |
| 5,704.8             | 26.74           | 62.25       | 5,211.1             | 1,015.7    | 1,930.6    | 2,181.5               | 0.00                  | 0.00                 | 0.00                |
| 5,720.0             | 26.43           | 62.25       | 5,224.7             | 1,018.8    | 1,936.6    | 2,188.3               | 2.00                  | -2.00                | 0.00                |
| 5,760.0             | 25.63           | 62.25       | 5,260.7             | 1,027.0    | 1,952.2    | 2,205.8               | 2.00                  | -2.00                | 0.00                |
| 5,800.0             | 24.83           | 62.25       | 5,296.9             | 1,035.0    | 1,967.3    | 2,222.9               | 2.00                  | -2.00                | 0.00                |
| 5,840.0             | 24.03           | 62.25       | 5,333.3             | 1,042.7    | 1,981.9    | 2,239.4               | 2.00                  | -2.00                | 0.00                |
| 5,880.0             | 23.23           | 62.25       | 5,369.9             | 1,050.1    | 1,996.1    | 2,255.5               | 2.00                  | -2.00                | 0.00                |
| 5,920.0             | 22.43           | 62.25       | 5,406.8             | 1,057.4    | 2,009.8    | 2,271.0               | 2.00                  | -2.00                | 0.00                |

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Landmark                                | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Company:</b>  | BAYSWATER EXPLORATION & PRODUCTION      | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Project:</b>  | SEC.26-T7N-R67W                         | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site:</b>     | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                             |                                     |                                      |
| <b>Design:</b>   | Plan #1 (7-10-12)                       |                                     |                                      |

| Planned Survey  |                 |             |                     |            |            |                       |                       |                      |                     |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)   | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,960.0   | 21.63           | 62.25       | 5,443.9             | 1,064.3    | 2,023.1    | 2,286.0               | 2.00                  | -2.00                | 0.00                |
| 6,000.0   | 20.83           | 62.25       | 5,481.2             | 1,071.1    | 2,035.9    | 2,300.5               | 2.00                  | -2.00                | 0.00                |
| 6,040.0   | 20.03           | 62.25       | 5,518.6             | 1,077.6    | 2,048.3    | 2,314.5               | 2.00                  | -2.00                | 0.00                |
| 6,080.0   | 19.23           | 62.25       | 5,556.3             | 1,083.8    | 2,060.2    | 2,327.9               | 2.00                  | -2.00                | 0.00                |
| 6,120.0   | 18.43           | 62.25       | 5,594.2             | 1,089.9    | 2,071.6    | 2,340.8               | 2.00                  | -2.00                | 0.00                |
| 6,160.0   | 17.63           | 62.25       | 5,632.2             | 1,095.6    | 2,082.6    | 2,353.2               | 2.00                  | -2.00                | 0.00                |
| 6,200.0   | 16.83           | 62.25       | 5,670.4             | 1,101.1    | 2,093.1    | 2,365.0               | 2.00                  | -2.00                | 0.00                |
| 6,240.0   | 16.03           | 62.25       | 5,708.8             | 1,106.4    | 2,103.1    | 2,376.4               | 2.00                  | -2.00                | 0.00                |
| 6,280.0   | 15.23           | 62.25       | 5,747.3             | 1,111.4    | 2,112.6    | 2,387.1               | 2.00                  | -2.00                | 0.00                |
| 6,320.0   | 14.43           | 62.25       | 5,786.0             | 1,116.2    | 2,121.7    | 2,397.4               | 2.00                  | -2.00                | 0.00                |
| 6,360.0   | 13.63           | 62.25       | 5,824.8             | 1,120.7    | 2,130.3    | 2,407.1               | 2.00                  | -2.00                | 0.00                |
| 6,400.0   | 12.83           | 62.25       | 5,863.7             | 1,125.0    | 2,138.4    | 2,416.2               | 2.00                  | -2.00                | 0.00                |
| 6,440.0   | 12.03           | 62.25       | 5,902.8             | 1,129.0    | 2,146.0    | 2,424.8               | 2.00                  | -2.00                | 0.00                |
| 6,480.0   | 11.23           | 62.25       | 5,942.0             | 1,132.7    | 2,153.1    | 2,432.9               | 2.00                  | -2.00                | 0.00                |
| 6,520.0   | 10.43           | 62.25       | 5,981.2             | 1,136.2    | 2,159.8    | 2,440.4               | 2.00                  | -2.00                | 0.00                |
| 6,560.0   | 9.63            | 62.25       | 6,020.6             | 1,139.5    | 2,165.9    | 2,447.4               | 2.00                  | -2.00                | 0.00                |
| 6,600.0   | 8.83            | 62.25       | 6,060.1             | 1,142.5    | 2,171.6    | 2,453.8               | 2.00                  | -2.00                | 0.00                |
| 6,640.0   | 8.03            | 62.25       | 6,099.7             | 1,145.2    | 2,176.8    | 2,459.7               | 2.00                  | -2.00                | 0.00                |
| 6,680.0   | 7.23            | 62.25       | 6,139.3             | 1,147.7    | 2,181.5    | 2,465.0               | 2.00                  | -2.00                | 0.00                |
| 6,720.0   | 6.43            | 62.25       | 6,179.0             | 1,149.9    | 2,185.7    | 2,469.7               | 2.00                  | -2.00                | 0.00                |
| 6,760.0   | 5.63            | 62.25       | 6,218.8             | 1,151.8    | 2,189.4    | 2,473.9               | 2.00                  | -2.00                | 0.00                |
| 6,800.0   | 4.83            | 62.25       | 6,258.6             | 1,153.5    | 2,192.7    | 2,477.6               | 2.00                  | -2.00                | 0.00                |
| 6,840.0   | 4.03            | 62.25       | 6,298.5             | 1,155.0    | 2,195.4    | 2,480.7               | 2.00                  | -2.00                | 0.00                |
| 6,880.0   | 3.23            | 62.25       | 6,338.4             | 1,156.2    | 2,197.7    | 2,483.2               | 2.00                  | -2.00                | 0.00                |
| 6,920.0   | 2.43            | 62.25       | 6,378.4             | 1,157.1    | 2,199.4    | 2,485.2               | 2.00                  | -2.00                | 0.00                |
| 6,960.0   | 1.63            | 62.25       | 6,418.4             | 1,157.7    | 2,200.7    | 2,486.6               | 2.00                  | -2.00                | 0.00                |
| 7,000.0   | 0.83            | 62.25       | 6,458.4             | 1,158.1    | 2,201.4    | 2,487.5               | 2.00                  | -2.00                | 0.00                |
| 7,040.0   | 0.03            | 62.25       | 6,498.4             | 1,158.3    | 2,201.7    | 2,487.8               | 2.00                  | -2.00                | 0.00                |
| 7,041.6   | 0.00            | 0.00        | 6,500.0             | 1,158.3    | 2,201.7    | 2,487.8               | 2.00                  | -2.00                | -3,797.01           |
| TARGET BHL 662'FSL & 1965'FWL   |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,080.0   | 0.00            | 0.00        | 6,538.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,120.0   | 0.00            | 0.00        | 6,578.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,160.0   | 0.00            | 0.00        | 6,618.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,200.0   | 0.00            | 0.00        | 6,658.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,240.0   | 0.00            | 0.00        | 6,698.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,280.0   | 0.00            | 0.00        | 6,738.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,320.0   | 0.00            | 0.00        | 6,778.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,360.0   | 0.00            | 0.00        | 6,818.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,400.0   | 0.00            | 0.00        | 6,858.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,440.0   | 0.00            | 0.00        | 6,898.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,480.0   | 0.00            | 0.00        | 6,938.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,520.0   | 0.00            | 0.00        | 6,978.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,545.6   | 0.00            | 0.00        | 7,004.0             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| NIOBRARA - LEGAL BOX 400' X 400', 661'FSL & 1965'FWL - TARGET CIRCLE 662'FSL & 1965'FWL |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,560.0   | 0.00            | 0.00        | 7,018.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,600.0   | 0.00            | 0.00        | 7,058.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,640.0   | 0.00            | 0.00        | 7,098.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,680.0   | 0.00            | 0.00        | 7,138.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,720.0   | 0.00            | 0.00        | 7,178.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,760.0   | 0.00            | 0.00        | 7,218.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,800.0   | 0.00            | 0.00        | 7,258.4             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| 7,810.6   | 0.00            | 0.00        | 7,269.0             | 1,158.3    | 2,201.7    | 2,487.8               | 0.00                  | 0.00                 | 0.00                |
| FORT HAYS   |                 |             |                     |            |            |                       |                       |                      |                     |



| Formations |                           |                           |           |           |            |                         |
|------------|---------------------------|---------------------------|-----------|-----------|------------|-------------------------|
|            | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Name      | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|            | 3,888.4                   | 3,589.0                   | PARKMAN   |           | 0.00       |                         |
|            | 4,722.6                   | 4,334.0                   | SUSSEX    |           | 0.00       |                         |
|            | 5,148.1                   | 4,714.0                   | SHANNON   |           | 0.00       |                         |
|            | 7,545.6                   | 7,004.0                   | NIOBRARA  |           | 0.00       |                         |
|            | 7,810.6                   | 7,269.0                   | FORT HAYS |           | 0.00       |                         |
|            | 7,850.6                   | 7,309.0                   | CODELL    |           | 0.00       |                         |
|            | 7,900.6                   | 7,359.0                   | GREENHORN |           | 0.00       |                         |
| 7,985.6    | 7,444.0                   | GRANEROS                  |           | 0.00      |            |                         |



|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | Landmark                                | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Company:</b>  | BAYSWATER EXPLORATION & PRODUCTION      | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Project:</b>  | SEC.26-T7N-R67W                         | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site:</b>     | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                             |                                     |                                      |
| <b>Design:</b>   | Plan #1 (7-10-12)                       |                                     |                                      |



# **BAYSWATER EXPLORATION & PRODUCTION**

**SEC.26-T7N-R67W**

**Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W**

**Hirsch 14-24**

**Wellbore #1**

**Plan #1 (7-10-12)**

## **Anticollision Report**

**18 July, 2012**



|                           |   |                                     |                                      |
|---------------------------|---|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | BAYSWATER EXPLORATION & PRODUCTION      | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Project:</b>           | SEC.26-T7N-R67W                         | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                                   | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                                   | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                             | <b>Database:</b>                    | Landmark                             |
| <b>Reference Design:</b>  | Plan #1 (7-10-12)                       | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W - Hirsch 23-24 - Wellbore #1 - Plan #1 (7-10-12) |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|--------|
| Survey Program: 0-MWD  |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.0 ft |
| Reference  | Offset              | Semi Major Axis     |                     | Distance       |             | Minimum               |                                   | Separation |                      | Warning               |                         |                    |        |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |        |
| 1,900.0  | 1,813.2             | 1,887.0             | 1,781.5             | 10.2           | 11.2        | -47.06                | 297.7                             | 430.4      | 86.4                 | 69.5                  | 16.92                   | 5.107              |        |
| 2,000.0  | 1,902.5             | 1,986.7             | 1,868.1             | 11.1           | 12.2        | -46.66                | 324.7                             | 471.9      | 93.2                 | 74.9                  | 18.33                   | 5.085              |        |
| 2,100.0  | 1,991.8             | 2,086.5             | 1,954.7             | 12.0           | 13.2        | -46.31                | 351.6                             | 513.5      | 100.0                | 80.2                  | 19.74                   | 5.065              |        |
| 2,200.0  | 2,081.1             | 2,186.3             | 2,041.3             | 13.0           | 14.3        | -46.01                | 378.6                             | 555.0      | 106.8                | 85.6                  | 21.15                   | 5.048              |        |
| 2,300.0  | 2,170.4             | 2,286.1             | 2,128.0             | 13.9           | 15.3        | -45.75                | 405.5                             | 596.6      | 113.5                | 91.0                  | 22.56                   | 5.033              |        |
| 2,400.0  | 2,259.7             | 2,385.8             | 2,214.6             | 14.8           | 16.3        | -45.51                | 432.5                             | 638.1      | 120.3                | 96.4                  | 23.97                   | 5.020              |        |
| 2,500.0  | 2,349.0             | 2,485.6             | 2,301.2             | 15.8           | 17.4        | -45.30                | 459.4                             | 679.7      | 127.1                | 101.8                 | 25.39                   | 5.008              |        |
| 2,600.0  | 2,438.3             | 2,585.4             | 2,387.8             | 16.7           | 18.4        | -45.11                | 486.4                             | 721.2      | 133.9                | 107.1                 | 26.80                   | 4.998              |        |
| 2,700.0  | 2,527.6             | 2,685.1             | 2,474.4             | 17.7           | 19.4        | -44.94                | 513.4                             | 762.8      | 140.7                | 112.5                 | 28.21                   | 4.988              |        |
| 2,800.0  | 2,616.9             | 2,784.9             | 2,561.0             | 18.6           | 20.5        | -44.79                | 540.3                             | 804.3      | 147.5                | 117.9                 | 29.63                   | 4.980              |        |
| 2,900.0  | 2,706.3             | 2,884.7             | 2,647.6             | 19.6           | 21.5        | -44.65                | 567.3                             | 845.9      | 154.3                | 123.3                 | 31.04                   | 4.972              |        |
| 3,000.0  | 2,795.6             | 2,984.4             | 2,734.2             | 20.5           | 22.6        | -44.52                | 594.2                             | 887.4      | 161.1                | 128.7                 | 32.46                   | 4.965              |        |
| 3,100.0  | 2,884.9             | 3,084.2             | 2,820.8             | 21.4           | 23.6        | -44.40                | 621.2                             | 929.0      | 167.9                | 134.1                 | 33.87                   | 4.958              |        |
| 3,200.0  | 2,974.2             | 3,184.0             | 2,907.4             | 22.4           | 24.6        | -44.29                | 648.1                             | 970.5      | 174.8                | 139.5                 | 35.29                   | 4.952              |        |
| 3,300.0  | 3,063.5             | 3,283.7             | 2,994.0             | 23.3           | 25.7        | -44.19                | 675.1                             | 1,012.1    | 181.6                | 144.9                 | 36.71                   | 4.946              |        |
| 3,400.0  | 3,152.8             | 3,383.5             | 3,080.6             | 24.3           | 26.7        | -44.09                | 702.0                             | 1,053.6    | 188.4                | 150.2                 | 38.12                   | 4.941              |        |
| 3,500.0  | 3,242.1             | 3,483.3             | 3,167.2             | 25.2           | 27.8        | -44.00                | 729.0                             | 1,095.2    | 195.2                | 155.6                 | 39.54                   | 4.936              |        |
| 3,600.0  | 3,331.4             | 3,583.0             | 3,253.8             | 26.2           | 28.8        | -43.92                | 756.0                             | 1,136.7    | 202.0                | 161.0                 | 40.95                   | 4.932              |        |
| 3,700.0  | 3,420.7             | 3,682.8             | 3,340.4             | 27.1           | 29.9        | -43.85                | 782.9                             | 1,178.3    | 208.8                | 166.4                 | 42.37                   | 4.928              |        |
| 3,800.0  | 3,510.0             | 3,782.6             | 3,427.0             | 28.1           | 30.9        | -43.77                | 809.9                             | 1,219.8    | 215.6                | 171.8                 | 43.78                   | 4.924              |        |
| 3,900.0  | 3,599.3             | 3,882.3             | 3,513.6             | 29.0           | 31.9        | -43.71                | 836.8                             | 1,261.4    | 222.4                | 177.2                 | 45.20                   | 4.920              |        |
| 4,000.0  | 3,688.6             | 3,982.1             | 3,600.3             | 30.0           | 33.0        | -43.64                | 863.8                             | 1,302.9    | 229.2                | 182.6                 | 46.62                   | 4.917              |        |
| 4,100.0  | 3,777.9             | 4,081.9             | 3,686.9             | 30.9           | 34.0        | -43.59                | 890.7                             | 1,344.5    | 236.0                | 188.0                 | 48.03                   | 4.914              |        |
| 4,200.0  | 3,867.3             | 4,181.6             | 3,773.5             | 31.9           | 35.1        | -43.53                | 917.7                             | 1,386.0    | 242.8                | 193.4                 | 49.45                   | 4.911              |        |
| 4,300.0  | 3,956.6             | 4,281.4             | 3,860.1             | 32.8           | 36.1        | -43.48                | 944.7                             | 1,427.6    | 249.6                | 198.8                 | 50.86                   | 4.908              |        |
| 4,400.0  | 4,045.9             | 4,381.2             | 3,946.7             | 33.8           | 37.2        | -43.43                | 971.6                             | 1,469.1    | 256.4                | 204.2                 | 52.28                   | 4.895              |        |
| 4,500.0  | 4,135.2             | 4,480.9             | 4,033.3             | 34.7           | 38.2        | -43.38                | 998.6                             | 1,510.7    | 263.2                | 209.6                 | 53.70                   | 4.902              |        |
| 4,600.0  | 4,224.5             | 4,580.7             | 4,119.9             | 35.7           | 39.2        | -43.33                | 1,025.5                           | 1,552.2    | 270.1                | 214.9                 | 55.11                   | 4.900              |        |
| 4,700.0  | 4,313.8             | 4,680.5             | 4,206.5             | 36.6           | 40.3        | -43.29                | 1,052.5                           | 1,593.8    | 276.9                | 220.3                 | 56.53                   | 4.898              |        |
| 4,800.0  | 4,403.1             | 4,780.2             | 4,293.1             | 37.6           | 41.3        | -43.25                | 1,079.4                           | 1,635.3    | 283.7                | 225.7                 | 57.95                   | 4.896              |        |
| 4,900.0  | 4,492.4             | 4,880.0             | 4,379.7             | 38.5           | 42.4        | -43.21                | 1,106.4                           | 1,676.9    | 290.5                | 231.1                 | 59.36                   | 4.893              |        |
| 5,000.0  | 4,581.7             | 4,979.8             | 4,466.3             | 39.5           | 43.4        | -43.17                | 1,133.3                           | 1,718.4    | 297.3                | 236.5                 | 60.78                   | 4.891              |        |
| 5,100.0  | 4,671.0             | 5,079.5             | 4,552.9             | 40.4           | 44.5        | -43.14                | 1,160.3                           | 1,760.0    | 304.1                | 241.9                 | 62.19                   | 4.890              |        |
| 5,200.0  | 4,760.3             | 5,179.3             | 4,639.5             | 41.4           | 45.5        | -43.10                | 1,187.3                           | 1,801.5    | 310.9                | 247.3                 | 63.61                   | 4.888              |        |
| 5,300.0  | 4,849.6             | 5,279.1             | 4,726.1             | 42.3           | 46.5        | -43.07                | 1,214.2                           | 1,843.1    | 317.7                | 252.7                 | 65.03                   | 4.886              |        |
| 5,400.0  | 4,938.9             | 5,378.8             | 4,812.7             | 43.2           | 47.6        | -43.04                | 1,241.2                           | 1,884.6    | 324.5                | 258.1                 | 66.44                   | 4.884              |        |
| 5,500.0  | 5,028.3             | 5,478.6             | 4,899.3             | 44.2           | 48.6        | -43.01                | 1,268.1                           | 1,926.2    | 331.3                | 263.5                 | 67.86                   | 4.883              |        |
| 5,600.0  | 5,117.6             | 5,578.4             | 4,985.9             | 45.1           | 49.7        | -42.98                | 1,295.1                           | 1,967.7    | 338.2                | 268.9                 | 69.28                   | 4.881              |        |
| 5,704.8  | 5,211.1             | 5,682.9             | 5,076.7             | 46.1           | 50.8        | -42.95                | 1,323.3                           | 2,011.2    | 345.3                | 274.5                 | 70.76                   | 4.880 SF           |        |
| 5,800.0  | 5,296.9             | 5,777.8             | 5,159.1             | 46.9           | 51.8        | -42.85                | 1,349.0                           | 2,050.8    | 352.9                | 281.0                 | 71.91                   | 4.908              |        |
| 5,900.0  | 5,388.3             | 5,877.2             | 5,245.3             | 47.6           | 52.8        | -42.43                | 1,375.8                           | 2,092.2    | 363.5                | 290.8                 | 72.68                   | 5.001              |        |
| 6,000.0  | 5,481.2             | 5,976.2             | 5,331.2             | 48.2           | 53.8        | -41.72                | 1,402.6                           | 2,133.4    | 376.6                | 303.5                 | 73.08                   | 5.153              |        |
| 6,100.0  | 5,575.2             | 6,074.6             | 5,416.7             | 48.8           | 54.9        | -40.77                | 1,429.1                           | 2,174.4    | 392.5                | 319.3                 | 73.15                   | 5.366              |        |
| 6,200.0  | 5,670.4             | 6,172.4             | 5,501.6             | 49.3           | 55.9        | -39.63                | 1,455.6                           | 2,215.1    | 411.1                | 338.2                 | 72.91                   | 5.638              |        |
| 6,300.0  | 5,766.6             | 6,269.4             | 5,585.8             | 49.8           | 56.9        | -38.35                | 1,481.8                           | 2,255.5    | 432.7                | 360.2                 | 72.43                   | 5.974              |        |
| 6,400.0  | 5,863.7             | 6,365.5             | 5,669.2             | 50.2           | 57.9        | -36.99                | 1,507.7                           | 2,295.5    | 457.2                | 385.5                 | 71.73                   | 6.374              |        |
| 6,500.0  | 5,961.6             | 6,460.6             | 5,751.7             | 50.6           | 58.9        | -35.59                | 1,533.4                           | 2,335.1    | 484.8                | 414.0                 | 70.87                   | 6.841              |        |
| 6,600.0  | 6,060.1             | 6,554.5             | 5,833.3             | 50.9           | 59.9        | -34.19                | 1,558.8                           | 2,374.2    | 515.6                | 445.7                 | 69.88                   | 7.378              |        |
| 6,700.0  | 6,159.2             | 6,647.3             | 5,913.8             | 51.1           | 60.9        | -32.81                | 1,583.9                           | 2,412.9    | 549.5                | 480.7                 | 68.81                   | 7.987              |        |
| 6,800.0  | 6,258.6             | 6,738.6             | 5,993.1             | 51.3           | 61.8        | -31.49                | 1,608.6                           | 2,450.9    | 586.7                | 519.0                 | 67.68                   | 8.669              |        |
| 6,900.0  | 6,358.4             | 6,841.2             | 6,082.5             | 51.4           | 62.8        | -30.02                | 1,635.9                           | 2,493.1    | 626.6                | 560.3                 | 66.29                   | 9.452              |        |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

|                           |   |                                     |                                      |
|---------------------------|---|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | BAYSWATER EXPLORATION & PRODUCTION      | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Project:</b>           | SEC.26-T7N-R67W                         | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                                   | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                                   | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                             | <b>Database:</b>                    | Landmark                             |
| <b>Reference Design:</b>  | Plan #1 (7-10-12)                       | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| <b>Offset Design</b> Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W - Hirsch 23-24 - Wellbore #1 - Plan #1 (7-10-12) |                        |                        |                        |                 |      |                             |                        |               |                            |                             |                               | <b>Offset Site Error:</b> | 0.0 ft  |
|---|------------------------|------------------------|------------------------|-----------------|------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 0-MWD   |                        |                        |                        |                 |      |                             |                        |               |                            |                             |                               | <b>Offset Well Error:</b> | 0.0 ft  |
| Measured Depth<br>(ft)  | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Semi Major Axis |      | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |               | Distance                   |                             | Minimum<br>Separation<br>(ft) | Separation<br>Factor      | Warning |
| Reference   | Offset                 | Reference              | Offset                 | (ft)            | (ft) |                             | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                               |                           |         |
| 7,000.0   | 6,458.4                | 6,955.3                | 6,183.8                | 51.5            | 63.7 | -28.53                      | 1,664.5                | 2,537.1       | 666.7                      | 601.9                       | 64.77                         | 10.293                    |         |
| 7,041.6   | 6,500.0                | 7,003.5                | 6,227.3                | 51.6            | 64.0 | 34.29                       | 1,675.9                | 2,554.7       | 683.3                      | 619.2                       | 64.16                         | 10.650                    |         |
| 7,100.0   | 6,558.4                | 7,072.2                | 6,289.7                | 51.6            | 64.5 | 35.26                       | 1,691.5                | 2,578.7       | 706.1                      | 642.8                       | 63.32                         | 11.150                    |         |
| 7,200.0   | 6,658.4                | 7,193.4                | 6,401.5                | 51.7            | 65.3 | 36.69                       | 1,716.9                | 2,617.9       | 742.4                      | 680.2                       | 62.18                         | 11.939                    |         |
| 7,300.0   | 6,758.4                | 7,318.7                | 6,519.1                | 51.7            | 66.0 | 37.86                       | 1,740.4                | 2,654.2       | 775.2                      | 713.8                       | 61.34                         | 12.637                    |         |
| 7,400.0   | 6,858.4                | 7,447.8                | 6,642.1                | 51.8            | 66.7 | 38.81                       | 1,761.8                | 2,687.1       | 804.1                      | 743.3                       | 60.74                         | 13.239                    |         |
| 7,500.0   | 6,958.4                | 7,580.5                | 6,770.3                | 51.8            | 67.3 | 39.57                       | 1,780.5                | 2,716.0       | 828.9                      | 768.6                       | 60.34                         | 13.738                    |         |
| 7,600.0   | 7,058.4                | 7,716.3                | 6,902.9                | 51.9            | 67.7 | 40.17                       | 1,796.4                | 2,740.4       | 849.4                      | 789.3                       | 60.10                         | 14.134                    |         |
| 7,700.0   | 7,158.4                | 7,854.6                | 7,039.2                | 52.0            | 68.1 | 40.62                       | 1,808.9                | 2,759.8       | 865.5                      | 805.5                       | 59.99                         | 14.427                    |         |
| 7,800.0   | 7,258.4                | 7,994.9                | 7,178.5                | 52.0            | 68.4 | 40.93                       | 1,818.0                | 2,773.8       | 876.9                      | 816.9                       | 60.00                         | 14.614                    |         |
| 7,900.0   | 7,358.4                | 8,136.5                | 7,319.7                | 52.1            | 68.6 | 41.11                       | 1,823.4                | 2,782.1       | 883.7                      | 823.5                       | 60.11                         | 14.701                    |         |
| 8,001.6   | 7,460.0                | 8,276.8                | 7,460.0                | 52.2            | 68.8 | 41.16                       | 1,825.1                | 2,784.6       | 885.7                      | 825.3                       | 60.31                         | 14.684                    |         |

|                           |   |                                     |                                      |
|---------------------------|---|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | BAYSWATER EXPLORATION & PRODUCTION      | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Project:</b>           | SEC.26-T7N-R67W                         | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                                   | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                                   | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                             | <b>Database:</b>                    | Landmark                             |
| <b>Reference Design:</b>  | Plan #1 (7-10-12)                       | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W - Hirsch 35-24 - Wellbore #1 - Plan #1 (7-10-12) |                     |                     |                     |           |        |                 |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|--|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD  |                     |                     |                     |           |        |                 |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  | Warning |
| 0.0  | 0.0                 | 0.0                 | 0.0                 | 0.0       | 0.0    | 134.75          |                       | -11.3                             | 11.4       | 16.0                 | 16.0                  | 0.00                    | N/A                |         |
| 100.0  | 100.0               | 100.0               | 100.0               | 0.1       | 0.1    | 134.75          |                       | -11.3                             | 11.4       | 16.0                 | 15.8                  | 0.22                    | 71.376             |         |
| 200.0  | 200.0               | 200.0               | 200.0               | 0.3       | 0.3    | 134.75          |                       | -11.3                             | 11.4       | 16.0                 | 15.4                  | 0.67                    | 23.792 CC          |         |
| 300.0  | 300.0               | 299.8               | 299.7               | 0.6       | 0.6    | 72.78           |                       | -10.7                             | 13.0       | 16.2                 | 15.1                  | 1.11                    | 14.615 ES          |         |
| 400.0  | 399.8               | 399.5               | 399.4               | 0.8       | 0.8    | 73.59           |                       | -8.8                              | 17.9       | 16.8                 | 15.3                  | 1.56                    | 10.793             |         |
| 500.0  | 499.5               | 499.3               | 498.7               | 1.0       | 1.0    | 74.81           |                       | -5.8                              | 26.0       | 17.9                 | 15.8                  | 2.05                    | 8.692              |         |
| 600.0  | 598.7               | 599.0               | 597.8               | 1.3       | 1.3    | 76.30           |                       | -1.5                              | 37.4       | 19.3                 | 16.7                  | 2.61                    | 7.379              |         |
| 700.0  | 697.5               | 698.8               | 696.3               | 1.7       | 1.6    | 77.91           |                       | 4.0                               | 51.9       | 21.1                 | 17.9                  | 3.26                    | 6.484              |         |
| 800.0  | 795.6               | 798.5               | 794.2               | 2.0       | 2.0    | 79.53           |                       | 10.7                              | 69.7       | 23.4                 | 19.4                  | 4.01                    | 5.839              |         |
| 900.0  | 893.1               | 898.2               | 891.3               | 2.5       | 2.5    | 81.07           |                       | 18.5                              | 90.6       | 26.1                 | 21.2                  | 4.88                    | 5.355              |         |
| 1,000.0  | 989.6               | 997.9               | 987.7               | 3.0       | 3.0    | 82.48           |                       | 27.6                              | 114.7      | 29.2                 | 23.4                  | 5.87                    | 4.982              |         |
| 1,100.0  | 1,085.3             | 1,097.6             | 1,083.0             | 3.5       | 3.5    | 83.74           |                       | 37.9                              | 141.9      | 32.8                 | 25.8                  | 6.99                    | 4.688              |         |
| 1,200.0  | 1,179.8             | 1,197.4             | 1,177.5             | 4.2       | 4.2    | 85.36           |                       | 49.2                              | 171.9      | 36.7                 | 28.4                  | 8.26                    | 4.443              |         |
| 1,300.0  | 1,273.2             | 1,297.2             | 1,271.8             | 4.9       | 4.8    | 90.79           |                       | 60.7                              | 202.5      | 40.6                 | 31.0                  | 9.66                    | 4.206              |         |
| 1,400.0  | 1,365.2             | 1,396.9             | 1,366.0             | 5.6       | 5.5    | 99.58           |                       | 72.2                              | 233.0      | 45.3                 | 34.2                  | 11.07                   | 4.094 SF           |         |
| 1,500.0  | 1,455.8             | 1,496.2             | 1,459.9             | 6.5       | 6.1    | 110.19          |                       | 83.6                              | 263.4      | 52.0                 | 39.7                  | 12.28                   | 4.235              |         |
| 1,536.9  | 1,488.9             | 1,532.8             | 1,494.4             | 6.8       | 6.4    | 114.22          |                       | 87.8                              | 274.6      | 55.2                 | 42.6                  | 12.64                   | 4.368              |         |
| 1,600.0  | 1,545.3             | 1,595.3             | 1,553.5             | 7.4       | 6.8    | 120.50          |                       | 95.0                              | 293.7      | 61.4                 | 48.3                  | 13.16                   | 4.667              |         |
| 1,700.0  | 1,634.6             | 1,694.3             | 1,647.1             | 8.3       | 7.5    | 128.10          |                       | 106.4                             | 324.0      | 72.5                 | 58.6                  | 13.90                   | 5.215              |         |
| 1,800.0  | 1,723.9             | 1,793.3             | 1,740.6             | 9.2       | 8.1    | 133.64          |                       | 117.8                             | 354.2      | 84.5                 | 69.9                  | 14.59                   | 5.788              |         |
| 1,900.0  | 1,813.2             | 1,892.3             | 1,834.2             | 10.2      | 8.8    | 137.78          |                       | 129.2                             | 384.5      | 97.0                 | 81.7                  | 15.29                   | 6.347              |         |
| 2,000.0  | 1,902.5             | 1,991.3             | 1,927.7             | 11.1      | 9.5    | 140.96          |                       | 140.6                             | 414.8      | 110.0                | 94.0                  | 16.00                   | 6.874              |         |
| 2,100.0  | 1,991.8             | 2,090.2             | 2,021.3             | 12.0      | 10.1   | 143.46          |                       | 152.0                             | 445.1      | 123.2                | 106.4                 | 16.73                   | 7.364              |         |
| 2,200.0  | 2,081.1             | 2,189.2             | 2,114.8             | 13.0      | 10.8   | 145.48          |                       | 163.5                             | 475.4      | 136.6                | 119.1                 | 17.47                   | 7.816              |         |
| 2,300.0  | 2,170.4             | 2,288.2             | 2,208.4             | 13.9      | 11.5   | 147.14          |                       | 174.9                             | 505.7      | 150.1                | 131.9                 | 18.23                   | 8.231              |         |
| 2,400.0  | 2,259.7             | 2,387.2             | 2,301.9             | 14.8      | 12.2   | 148.52          |                       | 186.3                             | 535.9      | 163.7                | 144.7                 | 19.01                   | 8.613              |         |
| 2,500.0  | 2,349.0             | 2,486.2             | 2,395.5             | 15.8      | 12.8   | 149.69          |                       | 197.7                             | 566.2      | 177.4                | 157.6                 | 19.79                   | 8.964              |         |
| 2,600.0  | 2,438.3             | 2,585.2             | 2,489.1             | 16.7      | 13.5   | 150.69          |                       | 209.1                             | 596.5      | 191.2                | 170.6                 | 20.59                   | 9.287              |         |
| 2,700.0  | 2,527.6             | 2,684.2             | 2,582.6             | 17.7      | 14.2   | 151.56          |                       | 220.5                             | 626.8      | 205.0                | 183.6                 | 21.39                   | 9.584              |         |
| 2,800.0  | 2,616.9             | 2,783.2             | 2,676.2             | 18.6      | 14.9   | 152.32          |                       | 231.9                             | 657.1      | 218.9                | 196.7                 | 22.20                   | 9.859              |         |
| 2,900.0  | 2,706.3             | 2,882.2             | 2,769.7             | 19.6      | 15.5   | 152.98          |                       | 243.3                             | 687.4      | 232.8                | 209.8                 | 23.02                   | 10.113             |         |
| 3,000.0  | 2,795.6             | 2,981.2             | 2,863.3             | 20.5      | 16.2   | 153.57          |                       | 254.7                             | 717.7      | 246.7                | 222.9                 | 23.84                   | 10.349             |         |
| 3,100.0  | 2,884.9             | 3,080.2             | 2,956.8             | 21.4      | 16.9   | 154.10          |                       | 266.1                             | 747.9      | 260.7                | 236.0                 | 24.67                   | 10.569             |         |
| 3,200.0  | 2,974.2             | 3,179.2             | 3,050.4             | 22.4      | 17.6   | 154.58          |                       | 277.5                             | 778.2      | 274.6                | 249.2                 | 25.49                   | 10.773             |         |
| 3,300.0  | 3,063.5             | 3,278.2             | 3,144.0             | 23.3      | 18.3   | 155.01          |                       | 288.9                             | 808.5      | 288.6                | 262.3                 | 26.33                   | 10.964             |         |
| 3,400.0  | 3,152.8             | 3,377.2             | 3,237.5             | 24.3      | 18.9   | 155.40          |                       | 300.3                             | 838.8      | 302.6                | 275.5                 | 27.16                   | 11.142             |         |
| 3,500.0  | 3,242.1             | 3,476.2             | 3,331.1             | 25.2      | 19.6   | 155.75          |                       | 311.7                             | 869.1      | 316.6                | 288.6                 | 28.00                   | 11.309             |         |
| 3,600.0  | 3,331.4             | 3,575.2             | 3,424.6             | 26.2      | 20.3   | 156.08          |                       | 323.1                             | 899.4      | 330.7                | 301.8                 | 28.84                   | 11.466             |         |
| 3,700.0  | 3,420.7             | 3,674.2             | 3,518.2             | 27.1      | 21.0   | 156.37          |                       | 334.5                             | 929.7      | 344.7                | 315.0                 | 29.68                   | 11.614             |         |
| 3,800.0  | 3,510.0             | 3,773.2             | 3,611.7             | 28.1      | 21.6   | 156.65          |                       | 345.9                             | 959.9      | 358.7                | 328.2                 | 30.52                   | 11.753             |         |
| 3,900.0  | 3,599.3             | 3,872.2             | 3,705.3             | 29.0      | 22.3   | 156.90          |                       | 357.3                             | 990.2      | 372.8                | 341.4                 | 31.37                   | 11.884             |         |
| 4,000.0  | 3,688.6             | 3,971.2             | 3,798.8             | 30.0      | 23.0   | 157.14          |                       | 368.8                             | 1,020.5    | 386.8                | 354.6                 | 32.21                   | 12.008             |         |
| 4,100.0  | 3,777.9             | 4,070.2             | 3,892.4             | 30.9      | 23.7   | 157.36          |                       | 380.2                             | 1,050.8    | 400.9                | 367.8                 | 33.06                   | 12.126             |         |
| 4,200.0  | 3,867.3             | 4,169.1             | 3,986.0             | 31.9      | 24.4   | 157.56          |                       | 391.6                             | 1,081.1    | 415.0                | 381.1                 | 33.91                   | 12.237             |         |
| 4,300.0  | 3,956.6             | 4,268.1             | 4,079.5             | 32.8      | 25.0   | 157.75          |                       | 403.0                             | 1,111.4    | 429.0                | 394.3                 | 34.76                   | 12.343             |         |
| 4,400.0  | 4,045.9             | 4,367.1             | 4,173.1             | 33.8      | 25.7   | 157.93          |                       | 414.4                             | 1,141.6    | 443.1                | 407.5                 | 35.61                   | 12.443             |         |
| 4,500.0  | 4,135.2             | 4,466.1             | 4,266.6             | 34.7      | 26.4   | 158.10          |                       | 425.8                             | 1,171.9    | 457.2                | 420.7                 | 36.46                   | 12.538             |         |
| 4,600.0  | 4,224.5             | 4,565.1             | 4,360.2             | 35.7      | 27.1   | 158.26          |                       | 437.2                             | 1,202.2    | 471.3                | 434.0                 | 37.32                   | 12.629             |         |
| 4,700.0  | 4,313.8             | 4,664.1             | 4,453.7             | 36.6      | 27.8   | 158.41          |                       | 448.6                             | 1,232.5    | 485.4                | 447.2                 | 38.17                   | 12.716             |         |
| 4,800.0  | 4,403.1             | 4,763.1             | 4,547.3             | 37.6      | 28.4   | 158.55          |                       | 460.0                             | 1,262.8    | 499.5                | 460.4                 | 39.02                   | 12.799             |         |
| 4,900.0  | 4,492.4             | 4,862.1             | 4,640.9             | 38.5      | 29.1   | 158.68          |                       | 471.4                             | 1,293.1    | 513.6                | 473.7                 | 39.88                   | 12.878             |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

|                           |   |                                     |                                      |
|---------------------------|---|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | BAYSWATER EXPLORATION & PRODUCTION      | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Project:</b>           | SEC.26-T7N-R67W                         | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                                   | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                                   | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                             | <b>Database:</b>                    | Landmark                             |
| <b>Reference Design:</b>  | Plan #1 (7-10-12)                       | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Offset Design Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W - Hirsch 35-24 - Wellbore #1 - Plan #1 (7-10-12) |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|--|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD  |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  | Warning |
| 5,000.0  | 4,581.7             | 4,961.1             | 4,734.4             | 39.5      | 29.8   | 158.81          |                       | 482.8                             | 1,323.4                           | 527.6                | 486.9                 | 40.73                   | 12.953             |         |
| 5,100.0  | 4,671.0             | 5,060.1             | 4,828.0             | 40.4      | 30.5   | 158.93          |                       | 494.2                             | 1,353.6                           | 541.7                | 500.2                 | 41.59                   | 13.026             |         |
| 5,200.0  | 4,760.3             | 5,159.1             | 4,921.5             | 41.4      | 31.2   | 159.04          |                       | 505.6                             | 1,383.9                           | 555.8                | 513.4                 | 42.45                   | 13.095             |         |
| 5,300.0  | 4,849.6             | 5,249.9             | 5,007.5             | 42.3      | 31.7   | 159.15          |                       | 516.0                             | 1,411.4                           | 570.3                | 527.1                 | 43.24                   | 13.191             |         |
| 5,400.0  | 4,938.9             | 5,333.4             | 5,087.2             | 43.2      | 32.2   | 159.36          |                       | 524.7                             | 1,434.6                           | 587.1                | 543.3                 | 43.89                   | 13.377             |         |
| 5,500.0  | 5,028.3             | 5,416.1             | 5,166.8             | 44.2      | 32.6   | 159.65          |                       | 532.6                             | 1,455.5                           | 606.5                | 562.1                 | 44.44                   | 13.648             |         |
| 5,600.0  | 5,117.6             | 5,500.0             | 5,248.2             | 45.1      | 32.9   | 160.04          |                       | 539.7                             | 1,474.5                           | 628.4                | 583.5                 | 44.91                   | 13.993             |         |
| 5,704.8  | 5,211.1             | 5,582.3             | 5,328.6             | 46.1      | 33.2   | 160.49          |                       | 545.9                             | 1,490.9                           | 654.0                | 608.7                 | 45.32                   | 14.431             |         |
| 5,800.0  | 5,296.9             | 5,658.2             | 5,403.2             | 46.9      | 33.4   | 161.09          |                       | 550.9                             | 1,504.2                           | 678.3                | 632.7                 | 45.61                   | 14.873             |         |
| 5,900.0  | 5,388.3             | 5,737.6             | 5,481.6             | 47.6      | 33.7   | 161.68          |                       | 555.4                             | 1,516.1                           | 703.0                | 657.2                 | 45.83                   | 15.341             |         |
| 6,000.0  | 5,481.2             | 5,816.6             | 5,559.8             | 48.2      | 33.9   | 162.23          |                       | 559.1                             | 1,525.8                           | 727.0                | 681.0                 | 46.00                   | 15.805             |         |
| 6,100.0  | 5,575.2             | 5,900.0             | 5,642.8             | 48.8      | 34.0   | 162.77          |                       | 562.1                             | 1,534.0                           | 750.3                | 704.2                 | 46.11                   | 16.270             |         |
| 6,200.0  | 5,670.4             | 5,973.4             | 5,716.0             | 49.3      | 34.2   | 163.23          |                       | 564.1                             | 1,539.3                           | 772.7                | 726.6                 | 46.18                   | 16.732             |         |
| 6,300.0  | 5,766.6             | 6,051.3             | 5,793.7             | 49.8      | 34.3   | 163.70          |                       | 565.5                             | 1,543.0                           | 794.4                | 748.3                 | 46.19                   | 17.198             |         |
| 6,400.0  | 5,863.7             | 6,128.8             | 5,871.3             | 50.2      | 34.4   | 164.14          |                       | 566.2                             | 1,544.7                           | 815.3                | 769.2                 | 46.15                   | 17.668             |         |
| 6,500.0  | 5,961.6             | 6,219.1             | 5,961.6             | 50.6      | 34.4   | 164.59          |                       | 566.2                             | 1,544.8                           | 835.0                | 788.9                 | 46.05                   | 18.133             |         |
| 6,600.0  | 6,060.1             | 6,317.7             | 6,060.1             | 50.9      | 34.5   | 164.98          |                       | 566.2                             | 1,544.8                           | 851.5                | 805.5                 | 45.95                   | 18.531             |         |
| 6,700.0  | 6,159.2             | 6,416.7             | 6,159.2             | 51.1      | 34.6   | 165.29          |                       | 566.2                             | 1,544.8                           | 864.6                | 818.8                 | 45.85                   | 18.858             |         |
| 6,800.0  | 6,258.6             | 6,516.2             | 6,258.6             | 51.3      | 34.7   | 165.50          |                       | 566.2                             | 1,544.8                           | 874.5                | 828.7                 | 45.75                   | 19.115             |         |
| 6,900.0  | 6,358.4             | 6,616.0             | 6,358.4             | 51.4      | 34.8   | 165.65          |                       | 566.2                             | 1,544.8                           | 880.9                | 835.3                 | 45.64                   | 19.303             |         |
| 7,000.0  | 6,458.4             | 6,715.9             | 6,458.4             | 51.5      | 34.9   | 165.71          |                       | 566.2                             | 1,544.8                           | 884.0                | 838.5                 | 45.52                   | 19.420             |         |
| 7,041.6  | 6,500.0             | 6,757.6             | 6,500.0             | 51.6      | 34.9   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 838.9                 | 45.47                   | 19.448             |         |
| 7,100.0  | 6,558.4             | 6,815.9             | 6,558.4             | 51.6      | 34.9   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 838.7                 | 45.62                   | 19.386             |         |
| 7,200.0  | 6,658.4             | 6,915.9             | 6,658.4             | 51.7      | 35.0   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 838.5                 | 45.87                   | 19.277             |         |
| 7,300.0  | 6,758.4             | 7,015.9             | 6,758.4             | 51.7      | 35.1   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 838.2                 | 46.13                   | 19.168             |         |
| 7,400.0  | 6,858.4             | 7,115.9             | 6,858.4             | 51.8      | 35.2   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 837.9                 | 46.40                   | 19.060             |         |
| 7,500.0  | 6,958.4             | 7,215.9             | 6,958.4             | 51.8      | 35.3   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 837.7                 | 46.66                   | 18.951             |         |
| 7,600.0  | 7,058.4             | 7,315.9             | 7,058.4             | 51.9      | 35.4   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 837.4                 | 46.93                   | 18.842             |         |
| 7,700.0  | 7,158.4             | 7,415.9             | 7,158.4             | 52.0      | 35.5   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 837.1                 | 47.21                   | 18.734             |         |
| 7,800.0  | 7,258.4             | 7,515.9             | 7,258.4             | 52.0      | 35.6   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 836.9                 | 47.48                   | 18.626             |         |
| 7,900.0  | 7,358.4             | 7,615.9             | 7,358.4             | 52.1      | 35.7   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 836.6                 | 47.76                   | 18.517             |         |
| 7,966.0  | 7,424.4             | 7,681.9             | 7,424.4             | 52.1      | 35.8   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 836.4                 | 47.94                   | 18.446             |         |
| 8,001.6  | 7,460.0             | 7,712.6             | 7,455.0             | 52.2      | 35.8   | -132.03         |                       | 566.2                             | 1,544.8                           | 884.3                | 836.3                 | 48.03                   | 18.411             |         |



|                           |   |                                     |                                      |
|---------------------------|---|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | BAYSWATER EXPLORATION & PRODUCTION      | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Project:</b>           | SEC.26-T7N-R67W                         | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                                   | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                                   | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                             | <b>Database:</b>                    | Landmark                             |
| <b>Reference Design:</b>  | Plan #1 (7-10-12)                       | <b>Offset TVD Reference:</b>        | Offset Datum                         |

Reference Depths are relative to WELL @ 4969.0ft (Original Well Elev) Coordinates are relative to: Hirsch 14-24  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.42°



|                           |   |                                     |                                      |
|---------------------------|---|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | BAYSWATER EXPLORATION & PRODUCTION      | <b>Local Co-ordinate Reference:</b> | Well Hirsch 14-24                    |
| <b>Project:</b>           | SEC.26-T7N-R67W                         | <b>TVD Reference:</b>               | WELL @ 4969.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Hirsch/Casa Loma 10 Pad Sec.26-T7N-R67W | <b>MD Reference:</b>                | WELL @ 4969.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0ft                                   | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Hirsch 14-24                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0ft                                   | <b>Output errors are at</b>         | 2.00 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                             | <b>Database:</b>                    | Landmark                             |
| <b>Reference Design:</b>  | Plan #1 (7-10-12)                       | <b>Offset TVD Reference:</b>        | Offset Datum                         |

Reference Depths are relative to WELL @ 4969.0ft (Original Well Elev) Coordinates are relative to: Hirsch 14-24  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.42°

