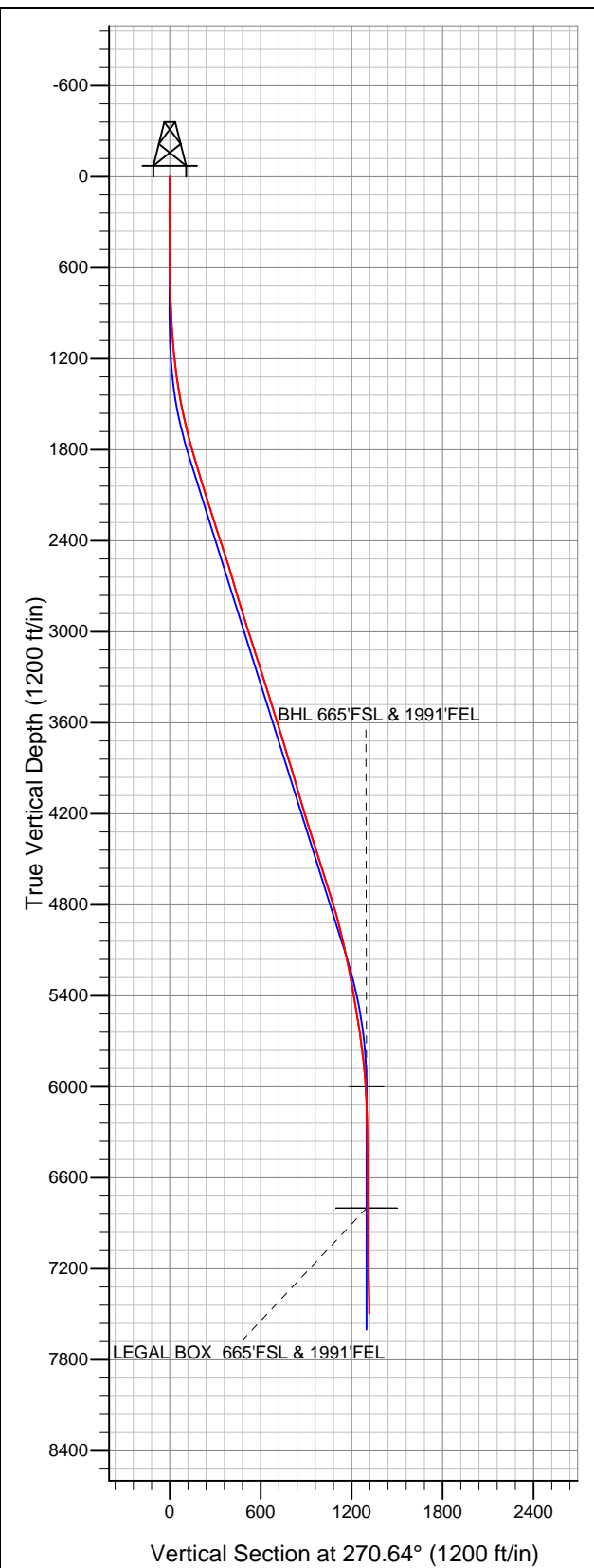


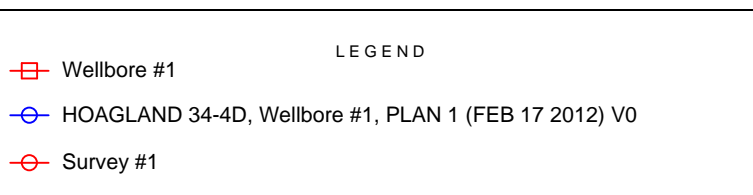
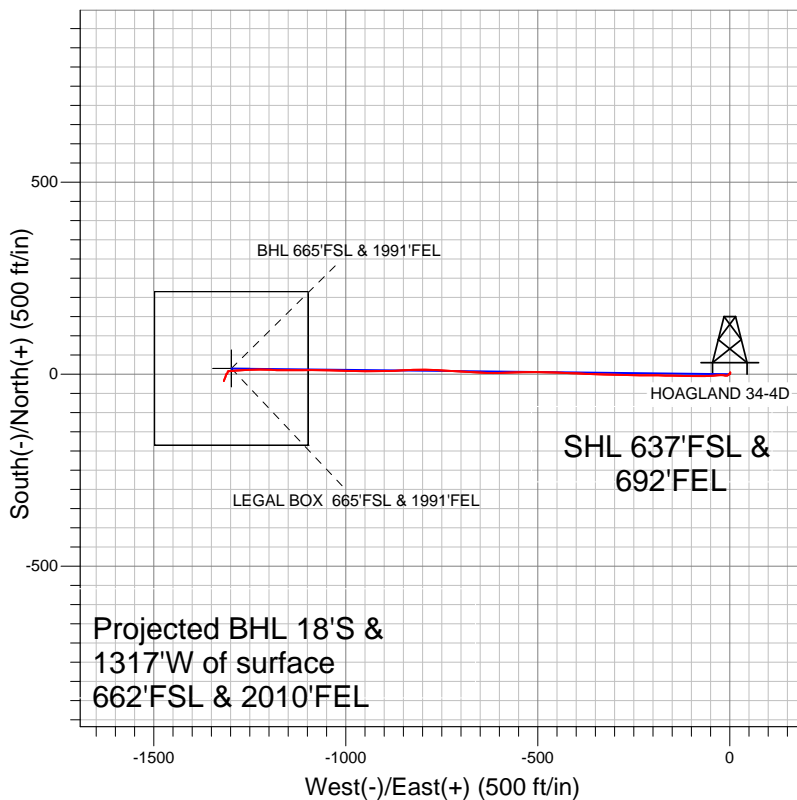
**Well Name: HOAGLAND 34-4D**

Surface Location: HOAGLAND 34-4D PAD 4-3N-68W  
North American Datum 1983 US State Plane 1983 Colorado Northern Zone  
Ground Elevation: 5013.0

|       |       |            |                             |           |             |      |
|-------|-------|------------|-----------------------------|-----------|-------------|------|
| +N/-S | +E/-W | Northing   | Easting                     | Latitude  | Longitude   | Slot |
| 0.0   | 0.0   | 1334118.93 | 3139242.63                  | 40.249480 | -105.001150 |      |
|       |       | EST KB 13' | RKB @ 5026.0ft (EST KB 13') |           |             |      |



**Apollo Operating, LLC.**



**Final Survey Plot**

Projected Final Survey -  
7673'MD & 7497'TVD @ 1317'VS  
3.80 deg Inc 198.60 deg AZ

Project: SEC.4-T3N-R68W  
Site: HOAGLAND 34-4D PAD 4-3N-68W  
Well: HOAGLAND 34-4D  
Plan: Wellbore #1



# **Apollo Operating, LLC.**

**SEC.4-T3N-R68W**

**HOAGLAND 34-4D PAD 4-3N-68W**

**HOAGLAND 34-4D**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**03 May, 2012**

| 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                |
| 96.0                | 1.10            | 24.00       | 96.0                | 0.8        | 0.4        | -0.4                  | 1.15                  | 1.15                 | 0.00                |
| 217.0               | 0.90            | 30.50       | 217.0               | 2.7        | 1.3        | -1.3                  | 0.19                  | -0.17                | 5.37                |
| 338.0               | 0.70            | 321.60      | 338.0               | 4.1        | 1.4        | -1.3                  | 0.76                  | -0.17                | -56.94              |
| 459.0               | 1.50            | 203.00      | 459.0               | 3.2        | 0.3        | -0.2                  | 1.60                  | 0.66                 | -98.02              |
| 583.0               | 1.50            | 214.60      | 582.9               | 0.4        | -1.3       | 1.3                   | 0.24                  | 0.00                 | 9.35                |
| 708.0               | 1.60            | 235.80      | 707.9               | -1.9       | -3.7       | 3.6                   | 0.46                  | 0.08                 | 16.96               |
| 739.0               | 1.80            | 230.70      | 738.9               | -2.5       | -4.4       | 4.4                   | 0.81                  | 0.65                 | -16.45              |
| 827.0               | 1.80            | 257.40      | 826.8               | -3.6       | -6.8       | 6.8                   | 0.94                  | 0.00                 | 30.34               |
| 952.0               | 2.90            | 279.80      | 951.7               | -3.5       | -11.8      | 11.8                  | 1.13                  | 0.88                 | 17.92               |
| 1,076.0             | 4.70            | 272.90      | 1,075.4             | -2.7       | -20.0      | 20.0                  | 1.50                  | 1.45                 | -5.56               |
| 1,201.0             | 6.30            | 264.70      | 1,199.9             | -3.1       | -31.9      | 31.9                  | 1.42                  | 1.28                 | -6.56               |
| 1,326.0             | 7.90            | 266.90      | 1,323.9             | -4.2       | -47.4      | 47.3                  | 1.30                  | 1.28                 | 1.76                |

|                  |                             |                                     |                             |
|------------------|-----------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Apollo Operating, LLC.      | <b>Local Co-ordinate Reference:</b> | Well HOAGLAND 34-4D         |
| <b>Project:</b>  | SEC.4-T3N-R68W              | <b>TVD Reference:</b>               | RKB @ 5026.0ft (EST KB 13') |
| <b>Site:</b>     | HOAGLAND 34-4D PAD 4-3N-68W | <b>MD Reference:</b>                | RKB @ 5026.0ft (EST KB 13') |
| <b>Well:</b>     | HOAGLAND 34-4D              | <b>North Reference:</b>             | True                        |
| <b>Wellbore:</b> | Wellbore #1                 | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Wellbore #1                 | <b>Database:</b>                    | Landmark                    |

### 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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 1,451.0                                 | 10.20           | 267.80      | 1,447.3             | -5.1       | -67.0      | 66.9                  | 1.84                  | 1.84                 | 0.72                |
| 1,575.0                                 | 12.00           | 271.50      | 1,569.0             | -5.2       | -90.9      | 90.8                  | 1.56                  | 1.45                 | 2.98                |
| 1,700.0                                 | 13.90           | 271.70      | 1,690.8             | -4.4       | -118.9     | 118.8                 | 1.52                  | 1.52                 | 0.16                |
| 1,825.0                                 | 15.60           | 270.30      | 1,811.7             | -3.9       | -150.7     | 150.6                 | 1.39                  | 1.36                 | -1.12               |
| 1,950.0                                 | 17.40           | 271.50      | 1,931.5             | -3.3       | -186.2     | 186.1                 | 1.47                  | 1.44                 | 0.96                |
| 2,074.0                                 | 17.40           | 269.40      | 2,049.9             | -3.0       | -223.2     | 223.2                 | 0.51                  | 0.00                 | -1.69               |
| 2,199.0                                 | 17.10           | 271.50      | 2,169.2             | -2.7       | -260.3     | 260.3                 | 0.55                  | -0.24                | 1.68                |
| 2,324.0                                 | 17.80           | 271.50      | 2,288.5             | -1.7       | -297.8     | 297.7                 | 0.56                  | 0.56                 | 0.00                |
| 2,449.0                                 | 18.50           | 271.90      | 2,407.3             | -0.6       | -336.7     | 336.7                 | 0.57                  | 0.56                 | 0.32                |
| 2,574.0                                 | 18.30           | 272.90      | 2,525.9             | 1.1        | -376.1     | 376.1                 | 0.30                  | -0.16                | 0.80                |
| 2,698.0                                 | 16.60           | 271.20      | 2,644.2             | 2.4        | -413.3     | 413.3                 | 1.43                  | -1.37                | -1.37               |
| 2,823.0                                 | 15.70           | 274.00      | 2,764.2             | 4.0        | -448.0     | 448.0                 | 0.95                  | -0.72                | 2.24                |
| 2,948.0                                 | 17.30           | 269.90      | 2,884.1             | 5.1        | -483.5     | 483.5                 | 1.58                  | 1.28                 | -3.28               |
| 3,073.0                                 | 17.90           | 269.20      | 3,003.2             | 4.8        | -521.2     | 521.3                 | 0.51                  | 0.48                 | -0.56               |
| 3,197.0                                 | 18.20           | 269.20      | 3,121.1             | 4.3        | -559.7     | 559.7                 | 0.24                  | 0.24                 | 0.00                |
| 3,322.0                                 | 17.40           | 267.80      | 3,240.2             | 3.3        | -597.9     | 597.9                 | 0.73                  | -0.64                | -1.12               |
| 3,447.0                                 | 17.20           | 272.20      | 3,359.5             | 3.3        | -635.0     | 635.0                 | 1.06                  | -0.16                | 3.52                |
| 3,572.0                                 | 17.40           | 274.30      | 3,478.9             | 5.4        | -672.1     | 672.1                 | 0.52                  | 0.16                 | 1.68                |
| 3,696.0                                 | 17.60           | 272.20      | 3,597.1             | 7.5        | -709.3     | 709.4                 | 0.53                  | 0.16                 | -1.69               |
| 3,821.0                                 | 16.70           | 273.60      | 3,716.6             | 9.4        | -746.1     | 746.2                 | 0.79                  | -0.72                | 1.12                |
| 3,946.0                                 | 17.50           | 272.20      | 3,836.0             | 11.2       | -782.9     | 782.9                 | 0.72                  | 0.64                 | -1.12               |
| 4,071.0                                 | 16.30           | 268.50      | 3,955.6             | 11.5       | -819.2     | 819.2                 | 1.29                  | -0.96                | -2.96               |
| 4,195.0                                 | 16.20           | 265.90      | 4,074.7             | 9.8        | -853.8     | 853.9                 | 0.59                  | -0.08                | -2.10               |
| 4,320.0                                 | 17.10           | 269.20      | 4,194.4             | 8.3        | -889.6     | 889.6                 | 1.04                  | 0.72                 | 2.64                |
| 4,445.0                                 | 17.20           | 269.20      | 4,313.9             | 7.8        | -926.4     | 926.5                 | 0.08                  | 0.08                 | 0.00                |
| 4,570.0                                 | 17.10           | 271.30      | 4,433.3             | 7.9        | -963.3     | 963.3                 | 0.50                  | -0.08                | 1.68                |
| 4,694.0                                 | 17.90           | 271.90      | 4,551.6             | 9.0        | -1,000.6   | 1,000.6               | 0.66                  | 0.65                 | 0.48                |
| 4,819.0                                 | 18.10           | 271.30      | 4,670.5             | 10.1       | -1,039.2   | 1,039.2               | 0.22                  | 0.16                 | -0.48               |
| 4,944.0                                 | 17.00           | 270.10      | 4,789.6             | 10.5       | -1,076.9   | 1,076.9               | 0.93                  | -0.88                | -0.96               |
| 5,069.0                                 | 14.80           | 269.90      | 4,909.9             | 10.5       | -1,111.1   | 1,111.2               | 1.76                  | -1.76                | -0.16               |
| 5,193.0                                 | 12.80           | 269.20      | 5,030.3             | 10.3       | -1,140.7   | 1,140.7               | 1.62                  | -1.61                | -0.56               |
| 5,318.0                                 | 12.00           | 270.60      | 5,152.4             | 10.3       | -1,167.5   | 1,167.6               | 0.68                  | -0.64                | 1.12                |
| 5,443.0                                 | 11.00           | 274.00      | 5,274.8             | 11.2       | -1,192.4   | 1,192.5               | 0.97                  | -0.80                | 2.72                |
| 5,568.0                                 | 9.70            | 269.40      | 5,397.8             | 11.9       | -1,214.8   | 1,214.9               | 1.23                  | -1.04                | -3.68               |
| 5,693.0                                 | 9.10            | 269.40      | 5,521.1             | 11.7       | -1,235.3   | 1,235.3               | 0.48                  | -0.48                | 0.00                |
| 5,817.0                                 | 8.40            | 264.80      | 5,643.7             | 10.8       | -1,254.1   | 1,254.1               | 0.80                  | -0.56                | -3.71               |
| 5,942.0                                 | 7.30            | 270.10      | 5,767.5             | 10.0       | -1,271.1   | 1,271.1               | 1.05                  | -0.88                | 4.24                |
| 6,067.0                                 | 5.20            | 266.60      | 5,891.8             | 9.7        | -1,284.7   | 1,284.7               | 1.71                  | -1.68                | -2.80               |
| 6,175.9                                 | 3.54            | 264.41      | 6,000.3             | 9.0        | -1,293.0   | 1,293.0               | 1.53                  | -1.52                | -2.01               |
| <b>BHL 665'FSL &amp; 1991'FEL</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,192.0                                 | 3.30            | 263.90      | 6,016.4             | 8.9        | -1,293.9   | 1,294.0               | 1.53                  | -1.52                | -3.17               |
| 6,316.0                                 | 1.80            | 260.80      | 6,140.3             | 8.3        | -1,299.4   | 1,299.4               | 1.21                  | -1.21                | -2.50               |
| 6,441.0                                 | 0.80            | 261.00      | 6,265.3             | 7.8        | -1,302.2   | 1,302.2               | 0.80                  | -0.80                | 0.16                |
| 6,566.0                                 | 1.20            | 274.50      | 6,390.2             | 7.8        | -1,304.4   | 1,304.4               | 0.37                  | 0.32                 | 10.80               |
| 6,691.0                                 | 0.30            | 286.40      | 6,515.2             | 8.0        | -1,306.0   | 1,306.0               | 0.73                  | -0.72                | 9.52                |
| 6,815.0                                 | 1.40            | 210.70      | 6,639.2             | 6.8        | -1,307.1   | 1,307.1               | 1.09                  | 0.89                 | -61.05              |
| 6,940.0                                 | 1.00            | 186.60      | 6,764.2             | 4.4        | -1,308.0   | 1,308.0               | 0.51                  | -0.32                | -19.28              |
| 6,975.5                                 | 1.19            | 191.71      | 6,799.7             | 3.7        | -1,308.1   | 1,308.1               | 0.61                  | 0.54                 | 14.39               |
| <b>LEGAL BOX 665'FSL &amp; 1991'FEL</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,065.0                                 | 1.70            | 199.30      | 6,889.2             | 1.5        | -1,308.7   | 1,308.7               | 0.61                  | 0.57                 | 8.48                |
| 7,190.0                                 | 0.80            | 332.50      | 7,014.1             | 0.6        | -1,309.7   | 1,309.7               | 1.86                  | -0.72                | 106.56              |
| 7,314.0                                 | 1.10            | 215.10      | 7,138.1             | 0.3        | -1,310.8   | 1,310.8               | 1.32                  | 0.24                 | -94.68              |
| 7,439.0                                 | 3.30            | 199.10      | 7,263.0             | -4.0       | -1,312.7   | 1,312.6               | 1.81                  | 1.76                 | -12.80              |
| 7,564.0                                 | 3.70            | 198.70      | 7,387.8             | -11.3      | -1,315.2   | 1,315.0               | 0.32                  | 0.32                 | -0.32               |

|                  |                             |                                     |                             |
|------------------|-----------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Apollo Operating, LLC.      | <b>Local Co-ordinate Reference:</b> | Well HOAGLAND 34-4D         |
| <b>Project:</b>  | SEC.4-T3N-R68W              | <b>TVD Reference:</b>               | RKB @ 5026.0ft (EST KB 13') |
| <b>Site:</b>     | HOAGLAND 34-4D PAD 4-3N-68W | <b>MD Reference:</b>                | RKB @ 5026.0ft (EST KB 13') |
| <b>Well:</b>     | HOAGLAND 34-4D              | <b>North Reference:</b>             | True                        |
| <b>Wellbore:</b> | Wellbore #1                 | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Wellbore #1                 | <b>Database:</b>                    | Landmark                    |

| 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) |
| 7,627.0             | 3.80            | 198.60      | 7,450.7             | -15.2      | -1,316.5   | 1,316.2               | 0.16                  | 0.16                 | -0.16               |
| 7,673.0             | 3.80            | 198.60      | 7,496.6             | -18.0      | -1,317.5   | 1,317.2               | 0.00                  | 0.00                 | 0.00                |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|