



SYSDRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: ALICIA 12-15H-5N (PWB)

Ellipse separations are reported ONLY if BOTH wells have uncertainty data  
Only Depth and Magnetic Reference Field error terms are correlated across tie points  
Proximities beyond 2500.00ft with expansion rate of 0.00ft/1000ft are not reported  
Scan limit is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima  
Hole size/Casings ARE included  
Hole size/Casings are NOT subtracted from Centre-Centre distance  
Confidence limit of 95.00% / 2.80 SD.

| Wellbore               |            |              |  |
|------------------------|------------|--------------|--|
| Name                   | Created    | Last Revised |  |
| ALICIA 12-15H-5N (PWB) | 3-Mar-2014 | 19-Aug-2014  |  |

| Well             |               |              |
|------------------|---------------|--------------|
| Name             | Government ID | Last Revised |
| ALICIA 12-15H-5N |               | 19-Aug-2014  |

| Slot             |               |              |             |               |       |        |
|------------------|---------------|--------------|-------------|---------------|-------|--------|
| Name             | Grid Northing | Grid Easting | Latitude    | Longitude     | North | East   |
| ALICIA 12-15H-5N | 1233702.2406  | 3154967.1571 | 39.97357000 | -104.94706000 | 7.37N | 13.97E |

| Installation |              |              |   |                 |
|--------------|--------------|--------------|---|-----------------|
| Name         | Easting      | Northing     | Coord System Name                             | North Alignment |
| ALICIA       | 3154953.1896 | 1233694.8679 | CO83-NF on NORTH AMERICAN DATUM 1983<br>datum | Grid            |

| Field   |              |              |   |                 |
|---------|--------------|--------------|---|-----------------|
| Name    | Easting      | Northing     | Coord System Name                             | North Alignment |
| SPINDLE | 3156324.1590 | 1233718.6871 | CO83-NF on NORTH AMERICAN DATUM 1983<br>datum | Grid            |

| Clearance Summary   |                        |                     |                  |                 |          |                    |                         |                |                  |                  |
|---------------------|------------------------|---------------------|------------------|-----------------|----------|--------------------|-------------------------|----------------|------------------|------------------|
| Offset WellName     | Offset Wellbore        | Offset Slot         | Offset Structure | Separation [ft] | MD[ft]   | Diverging From[ft] | Ellipse Separation [ft] | Ellipse MD[ft] | Clearance Factor | Clearance MD[ft] |
| ALICIA 12-15H-2N    | ALICIA 12-15H-2N (PWB) | ALICIA 12-15H-2N    | ALICIA           | 14.48           | 1604.21  | 13841.63           | 11.26                   | 1604.21        | 3.31             | 13841.63         |
| ALICIA 12-15H-1N    | ALICIA 12-15H-1N (PWB) | ALICIA 12-15H-1N    | ALICIA           | 15.79           | 1550.00  | 13841.63           | 12.66                   | 1550.00        | 3.27             | 13841.63         |
| ALICIA 12-15H-4C    | ALICIA 12-15H-4C (PWB) | ALICIA 12-15H-4C    | ALICIA           | 30.08           | 1604.21  | 1604.21            | 26.86                   | 1604.21        | 8.21             | 12562.21         |
| ALICIA 12-15H-6C    | ALICIA 12-15H-6C (PWB) | ALICIA 12-15H-6C    | ALICIA           | 31.59           | 1500.00  | 12559.11           | 28.54                   | 1500.00        | 6.90             | 12611.43         |
| Ruby #1             | Ruby #1 (AWB)          | Ruby #1             | Offsets          | 38.55           | 1604.21  | 8352.01            | 33.60                   | 1604.21        | 7.75             | 1637.02          |
| ALICIA 12-15H-3N    | ALICIA 12-15H-3N (PWB) | ALICIA 12-15H-3N    | ALICIA           | 45.82           | 1604.21  | 13838.33           | 42.60                   | 1604.21        | 6.62             | 13841.63         |
| Ruby #2             | Ruby #2 (AWB)          | Ruby #2             | Offsets          | 60.18           | 1218.00  | 9712.27            | 57.28                   | 1218.00        | 6.54             | 9707.88          |
| MALLO #1            | MALLO #1 (AWB)         | MALLO #1            | Offsets          | 104.87          | 1604.21  | 1604.21            | 100.62                  | 1604.21        | 24.25            | 1719.04          |
| W MORRISON N #15-1  | W MORRISON #15-1 (AWB) | MORRISON N #15-1    | Offsets          | 167.85          | 13839.53 | 13839.53           | 92.86                   | 13839.53       | 2.24             | 13839.53         |
| TUDEX REINHOLT #NC4 | TUDEX REINHOLT #NC4    | TUDEX REINHOLT #NC4 | Offsets          | 257.28          | 12082.99 | 12082.99           | 215.76                  | 12082.99       | 6.20             | 12082.99         |

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 5163.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 356.680 degrees  
Prepared by Integrated Petroleum Technologies, Inc.  
Date Printed: 19-Aug-2014



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| Clearance Summary   |                           |                     |                  |                 |          |                    |                         |                |                  |                  |
|---------------------|---------------------------|---------------------|------------------|-----------------|----------|--------------------|-------------------------|----------------|------------------|------------------|
| Offset WellName     | Offset Wellbore           | Offset Slot         | Offset Structure | Separation [ft] | MD[ft]   | Diverging From[ft] | Ellipse Separation [ft] | Ellipse MD[ft] | Clearance Factor | Clearance MD[ft] |
|                     | (AWB)                     |                     |                  |                 |          |                    |                         |                |                  |                  |
| AFTON 12-16H-1      | AFTON 12-16H-1 (PWB)      | Slot #1             | AFTON            | 872.49          | 7366.58  | 7366.58            | 847.02                  | 12545.81       | 12.44            | 12545.81         |
| AFTON 12-16H-1      | AFTON 12-16H-1 (REV 1)    | Slot #1             | AFTON            | 908.96          | 13841.63 | 13841.63           | 809.86                  | 13841.63       | 9.17             | 13841.63         |
| W MORRISO N 33-1 #4 | W MORRISON 33-1 #4 (AWB)  | MORRISO N 33-1 #4   | Offsets          | 1017.82         | 13841.63 | 13841.63           | 977.17                  | 13841.63       | 25.03            | 13841.63         |
| AFTON 12-16H-2      | AFTON 12-16H-2 (PWB)      | Slot #2             | AFTON            | 1034.15         | 8157.23  | 8157.23            | 965.84                  | 12545.81       | 13.50            | 12545.81         |
| W MORRISO N 24-1 #3 | W MORRISON 24-1 #3 (AWB)  | MORRISO N 24-1 #3   | Offsets          | 1116.28         | 13669.89 | 13669.89           | 1041.86                 | 13677.70       | 14.89            | 13776.12         |
| AFTON 12-16H-8      | AFTON 12-16H-8 (PWB)      | Slot #8             | AFTON            | 1150.07         | 8100.27  | 8100.27            | 1090.26                 | 12545.81       | 15.24            | 12562.21         |
| DARLOW UNIT #12-16B | DARLOW UNIT #12-16B (AWB) | DARLOW UNIT #12-16B | Offsets          | 1155.92         | 1604.21  | 8401.06            | 1150.99                 | 1620.61        | 99.80            | 8953.29          |
| AFTON 12-16H-7      | AFTON 12-16H-7 (PWB)      | Slot #7             | AFTON            | 1199.95         | 7219.30  | 7219.30            | 1165.03                 | 12545.81       | 16.48            | 12578.62         |
| BARKER #12-9        | BARKER #12-9 (AWB)        | BARKER #12-9        | Offsets          | 1279.19         | 9691.48  | 9691.48            | 1257.73                 | 9691.48        | 57.17            | 9986.75          |
| PULIS #12-8         | PULIS #12-8 (AWB)         | PULIS #12-8         | Offsets          | 1283.77         | 1604.21  | 1604.21            | 1279.53                 | 1620.61        | 149.54           | 5311.56          |
| W MORRISO N #16-1   | W MORRISON #16-1 (AWB)    | MORRISO N #16-1     | Offsets          | 1370.41         | 13499.92 | 13499.92           | 1298.33                 | 13513.66       | 18.92            | 13612.08         |
| AFTON #12-16H-3     | AFTON #12-16H-3 (PWB)     | Slot #3             | AFTON            | 1384.89         | 1817.46  | 12531.02           | 1381.25                 | 1833.87        | 19.88            | 12627.83         |
| AFTON 12-16H-6      | AFTON 12-16H-6 (PWB)      | Slot #6             | AFTON            | 1389.68         | 1398.00  | 1398.00            | 1386.73                 | 1243.31        | 26.36            | 12775.47         |
| AFTON #12-16H-4     | AFTON #12-16H-4 Sidetrack | Slot #4             | AFTON            | 1391.37         | 1472.97  | 12340.55           | 1385.16                 | 1505.78        | 12.17            | 12413.00         |
| AFTON #12-16H-4     | AFTON #12-16H-4 Original  | Slot #4             | AFTON            | 1391.37         | 1472.97  | 8339.15            | 1385.16                 | 1505.78        | 44.97            | 9281.37          |
| BELLINGER R #12-7   | BELLINGER #12-7 (AWB)     | BELLINGER R #12-7   | Offsets          | 1403.15         | 1604.21  | 1604.21            | 1398.88                 | 1604.21        | 200.29           | 5229.54          |
| AFTON #12-16H-4     | AFTON #12-16H-4 (PWB)     | Slot #4             | AFTON            | 1404.99         | 1177.70  | 1177.70            | 1402.06                 | 1243.31        | 22.24            | 12677.04         |
| AFTON #12-16H-4     | AFTON #12-16H-4           | Slot #4             | AFTON            | 1405.03         | 1604.21  | 1604.21            | 1401.81                 | 1620.61        | 22.54            | 12677.04         |

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| Clearance Summary  |                        |                  |                  |                 |          |                    |                         |                |                  |                  |
|--------------------|------------------------|------------------|------------------|-----------------|----------|--------------------|-------------------------|----------------|------------------|------------------|
| Offset WellName    | Offset Wellbore        | Offset Slot      | Offset Structure | Separation [ft] | MD[ft]   | Diverging From[ft] | Ellipse Separation [ft] | Ellipse MD[ft] | Clearance Factor | Clearance MD[ft] |
| Ensign Plan        |                        |                  |                  |                 |          |                    |                         |                |                  |                  |
| AFTON 12-16H-5     | AFTON 12-16H-5 (PWB)   | Slot #5          | AFTON            | 1405.65         | 1347.00  | 1347.00            | 1402.70                 | 1243.31        | 28.23            | 12824.68         |
| ELMS #2            | ELMS #2 (AWB)          | ELMS #2          | Offsets          | 1407.78         | 11294.19 | 11294.19           | 1373.00                 | 11299.09       | 39.64            | 11512.34         |
| W MORRISON N #11-1 | W MORRISON #11-1 (AWB) | MORRISON N #11-1 | Offsets          | 1619.52         | 13841.63 | 13841.63           | 1554.47                 | 13841.63       | 24.90            | 13841.63         |
| DARLOW #12-2       | DARLOW #12-2 (AWB)     | DARLOW #12-2     | Offsets          | 1712.84         | 1604.21  | 1604.21            | 1708.62                 | 1604.21        | 236.08           | 5262.34          |
| W MORRISON N #9-1  | W MORRISON #9-1 (AWB)  | MORRISON N #9-1  | Offsets          | 1825.57         | 13841.63 | 13841.63           | 1756.97                 | 13841.63       | 26.61            | 13841.63         |
| TUDEX BRINK #S-2   | TUDEX BRINK #S-2 (AWB) | TUDEX BRINK #S-2 | Offsets          | 2400.23         | 1604.21  | 1604.21            | 2396.97                 | 1604.21        | 502.23           | 2572.06          |