

# Ryan Energy Technologies US, Inc.

## COMPLETION REPORT

|                                               |  |                                   |                                            |                |
|-----------------------------------------------|--|-----------------------------------|--------------------------------------------|----------------|
| <b>Company:</b> SOUTHWESTERN ENERGY PROD. CO. |  | <b>Date:</b> 7/2/2002             | <b>Time:</b> 13:09:56                      | <b>Page:</b> 1 |
| <b>Field:</b> Eddy County, New Mexico         |  | <b>Co-ordinate(NE) Reference:</b> | <b>Site:</b> Peregrine, Grid North         |                |
| <b>Site:</b> Peregrine                        |  | <b>Vertical (TVD) Reference:</b>  | <b>Est. RKB+2971'GL</b> 2989.0             |                |
| <b>Well:</b> No. 1                            |  | <b>Section (VS) Reference:</b>    | <b>Well</b> (0.00N, 0.00E, 89.56Azi)       |                |
| <b>Wellpath:</b> Original Hole                |  | <b>Survey Calculation Method:</b> | <b>Minimum Curvature</b> <b>Db:</b> Sybase |                |

  

|                                                          |                                           |
|----------------------------------------------------------|-------------------------------------------|
| <b>Field:</b> Eddy County, New Mexico                    |                                           |
| <b>Map System:</b> US State Plane Coordinate System 1927 | <b>Map Zone:</b> New Mexico, Eastern Zone |
| <b>Geo Datum:</b> NAD27 (Clarke 1866)                    | <b>Coordinate System:</b> Site Centre     |
| <b>Sys Datum:</b> Mean Sea Level                         | <b>Geomagnetic Model:</b> igrf2000        |

  

|                                                                           |                                                               |
|---------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Site:</b> Peregrine<br>Birds of Prey Prospect<br>Section 10; T25S-R18E |                                                               |
| <b>Site Position:</b>                                                     | <b>Northing:</b> 418350.80 ft <b>Latitude:</b> 32 8 59.631 N  |
| <b>From:</b> Map                                                          | <b>Easting:</b> 580257.50 ft <b>Longitude:</b> 104 4 26.441 W |
| <b>Position Uncertainty:</b> 0.00 ft                                      | <b>North Reference:</b> Grid                                  |
| <b>Ground Level:</b> 2971.00 ft                                           | <b>Grid Convergence:</b> 0.14 deg                             |

  

|                                      |                                                    |                                  |  |
|--------------------------------------|----------------------------------------------------|----------------------------------|--|
| <b>Well:</b> No. 1                   |                                                    | <b>Slot Name:</b>                |  |
| <b>Well Position:</b>                | <b>+N/-S</b> 0.00 ft <b>Northing:</b> 418350.80 ft | <b>Latitude:</b> 32 8 59.631 N   |  |
|                                      | <b>+E/-W</b> 0.00 ft <b>Easting:</b> 580257.50 ft  | <b>Longitude:</b> 104 4 26.441 W |  |
| <b>Position Uncertainty:</b> 0.00 ft |                                                    |                                  |  |

  

|                                           |                          |                                           |                  |
|-------------------------------------------|--------------------------|-------------------------------------------|------------------|
| <b>Wellpath:</b> Original Hole            |                          | <b>Drilled From:</b> Surface              |                  |
|                                           |                          | <b>Tie-on Depth:</b> 0.00 ft              |                  |
| <b>Current Datum:</b> Est. RKB+2971'GL    | <b>Height</b> 2989.00 ft | <b>Above System Datum:</b> Mean Sea Level |                  |
| <b>Magnetic Data:</b> 6/5/2002            |                          | <b>Declination:</b> 8.95 deg              |                  |
| <b>Field Strength:</b> 49537 nT           |                          | <b>Mag Dip Angle:</b> 60.28 deg           |                  |
| <b>Vertical Section:</b> Depth From (TVD) | <b>+N/-S</b>             | <b>+E/-W</b>                              | <b>Direction</b> |
| ft                                        | ft                       | ft                                        | deg              |
| 0.00                                      | 0.00                     | 0.00                                      | 89.56            |

  

|                                               |         |                      |                  |
|-----------------------------------------------|---------|----------------------|------------------|
| <b>Survey Program for Definitive Wellpath</b> |         |                      |                  |
| <b>Date:</b> 6/24/2002                        |         | <b>Validated:</b> No |                  |
| <b>Actual From</b> <b>To</b>                  |         | <b>Version:</b> 2    | <b>Tool Name</b> |
| ft                                            | ft      | <b>Toolcode</b>      |                  |
| 100.00                                        | 4400.00 | Survey #1            | GG               |
| 4477.00                                       | 6682.00 | Survey #2            | LWD              |
| 6750.00                                       | 6750.00 | Survey #3            | Project          |

  

| Survey  |      |         |        |        |        |        |            |           |           |          |
|---------|------|---------|--------|--------|--------|--------|------------|-----------|-----------|----------|
| MD      | Incl | TVD     | VS     | Azim   | N/S    | E/W    | Clsr Dist. | Clsr Azi. | Dog Leg   | Tool     |
| ft      | deg  | ft      | ft     | deg    | ft     | ft     | ft         | deg       | deg/100ft |          |
| 0.00    | 0.00 | 0.00    | 0.00   | 0.00   | 0.00   | 0.00   | 0.00       | 0.00      | 0.00      | TIE LINE |
| 100.00  | 0.54 | 100.00  | 0.00   | 180.16 | -0.47  | 0.00   | 0.47       | 180.16    | 0.54      | GG       |
| 200.00  | 0.48 | 199.99  | 0.03   | 174.17 | -1.36  | 0.04   | 1.36       | 178.32    | 0.08      | GG       |
| 300.00  | 0.55 | 299.99  | -0.26  | 222.22 | -2.13  | -0.24  | 2.14       | 186.43    | 0.42      | GG       |
| 400.00  | 0.86 | 399.98  | -1.30  | 252.99 | -2.71  | -1.28  | 2.99       | 205.32    | 0.48      | GG       |
| 500.00  | 0.95 | 499.97  | -2.69  | 233.68 | -3.42  | -2.67  | 4.33       | 217.96    | 0.32      | GG       |
| 600.00  | 0.86 | 599.96  | -4.11  | 261.23 | -4.02  | -4.08  | 5.73       | 225.38    | 0.44      | GG       |
| 700.00  | 0.79 | 699.95  | -5.53  | 260.16 | -4.25  | -5.50  | 6.95       | 232.26    | 0.07      | GG       |
| 800.00  | 0.88 | 799.94  | -6.95  | 254.25 | -4.58  | -6.91  | 8.29       | 236.48    | 0.12      | GG       |
| 900.00  | 1.32 | 899.92  | -8.70  | 240.44 | -5.36  | -8.66  | 10.18      | 238.24    | 0.51      | GG       |
| 1000.00 | 1.81 | 999.88  | -10.96 | 232.53 | -6.89  | -10.91 | 12.90      | 237.74    | 0.53      | GG       |
| 1100.00 | 1.88 | 1099.83 | -13.61 | 236.94 | -8.74  | -13.54 | 16.12      | 237.15    | 0.16      | GG       |
| 1200.00 | 1.62 | 1199.78 | -16.36 | 255.85 | -9.98  | -16.28 | 19.10      | 238.49    | 0.63      | GG       |
| 1300.00 | 1.85 | 1299.74 | -19.34 | 264.95 | -10.47 | -19.26 | 21.92      | 241.47    | 0.36      | GG       |
| 1400.00 | 2.05 | 1399.68 | -22.73 | 263.02 | -10.83 | -22.65 | 25.10      | 244.44    | 0.21      | GG       |
| 1500.00 | 2.20 | 1499.61 | -26.42 | 265.19 | -11.21 | -26.33 | 28.62      | 246.95    | 0.17      | GG       |
| 1600.00 | 2.06 | 1599.54 | -30.12 | 263.93 | -11.56 | -30.03 | 32.18      | 248.95    | 0.15      | GG       |
| 1700.00 | 2.00 | 1699.48 | -33.65 | 266.06 | -11.87 | -33.56 | 35.60      | 250.52    | 0.10      | GG       |
| 1800.00 | 1.54 | 1799.43 | -36.73 | 274.63 | -11.88 | -36.64 | 38.52      | 252.04    | 0.53      | GG       |
| 1900.00 | 0.66 | 1899.41 | -38.63 | 283.67 | -11.64 | -38.54 | 40.26      | 253.20    | 0.89      | GG       |
| 2000.00 | 0.08 | 1999.41 | -39.21 | 345.62 | -11.43 | -39.12 | 40.75      | 253.71    | 0.63      | GG       |