

# Actual Wellpath Report

#2 AWP  
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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                   |          |                                |
|----------|-----------------------------------|----------|--------------------------------|
| Operator | Samson Resources                  | Slot     | #2_SHL                         |
| Area     | Chavez County, NM                 | Well     | Mescalero Springs State Com #2 |
| Field    | Wildcat Mississippian (Mescalero) | Wellbore | #2 AWB                         |
| Facility | Mescalero Springs State Com       |          |                                |

## REPORT SETUP INFORMATION

|                       |                                                                  |                      |                      |
|-----------------------|------------------------------------------------------------------|----------------------|----------------------|
| Projection System     | NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet | Software System      | WellArchitect™ 1.2   |
| North Reference       | Grid                                                             | User                 | GomeOscR             |
| Scale                 | 0.999941                                                         | Report Generated     | 01/16/07 at 07:42:54 |
| Wellbore last revised | 12/18/06                                                         | Database/Source file | WA_Midland/#2_AWB    |

## WELLPATH LOCATION

|                       | Local coordinates |             | Grid coordinates  |                    | Geographic coordinates |                |
|-----------------------|-------------------|-------------|-------------------|--------------------|------------------------|----------------|
|                       | North [feet]      | East [feet] | Easting [US feet] | Northing [US feet] | Latitude [°]           | Longitude [°]  |
| Slot Location         | 0.00              | 0.00        | 666048.20         | 853221.60          | 33 20 39.587N          | 103 47 22.582W |
| Facility Reference Pt |                   |             | 666048.20         | 853221.60          | 33 20 39.587N          | 103 47 22.582W |
| Field Reference Pt    |                   |             | 666048.20         | 853221.60          | 33 20 39.587N          | 103 47 22.582W |

## WELLPATH DATUM

|                          |                    |                                                |                   |
|--------------------------|--------------------|------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature  | Rig on #2_SHL (RT) to Facility Vertical Datum  | 0.00 feet         |
| Horizontal Reference Pt  | Slot               | Rig on #2_SHL (RT) to Mean Sea Level           | 0.00 feet         |
| Vertical Reference Pt    | Rig on #2_SHL (RT) | Facility Vertical Datum to Mud Line (Facility) | 0.00 feet         |
| MD Reference Pt          | Rig on #2_SHL (RT) | Section Origin                                 | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level     | Section Azimuth                                | 0.00°             |

SUR: O-23-11s-31e, 660/S & 1980/E  
BHL: J-23-11s-31e, 1711/S & 2001/E  
API # 30-005-27950

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## WELLPATH DATA (163 stations)

| MD<br>[feet] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[feet] | Vert Sect<br>[feet] | North<br>[feet] | East<br>[feet] | DLS<br>[°/100ft] |
|--------------|--------------------|----------------|---------------|---------------------|-----------------|----------------|------------------|
| 0.00         | 0.000              | 0.000          | 0.00          | 0.00                | 0.00            | 0.00           | 0.00             |
| 100.00       | 0.420              | 62.670         | 100.00        | 0.17                | 0.17            | 0.33           | 0.42             |
| 200.00       | 0.830              | 78.980         | 199.99        | 0.47                | 0.47            | 1.36           | 0.44             |
| 300.00       | 1.070              | 97.760         | 299.98        | 0.49                | 0.49            | 3.00           | 0.39             |
| 400.00       | 1.060              | 102.890        | 399.95        | -0.13               | -0.13           | 6.25           | 0.23             |
| 500.00       | 1.000              | 111.190        | 499.94        | -0.65               | -0.65           | 7.96           | 0.16             |
| 600.00       | 0.950              | 90.500         | 599.92        | -0.97               | -0.97           | 9.60           | 0.35             |
| 700.00       | 0.880              | 105.930        | 699.91        | -1.19               | -1.19           | 11.17          | 0.26             |
| 800.00       | 0.680              | 106.540        | 799.89        | -1.62               | -1.62           | 13.59          | 0.17             |
| 900.00       | 0.570              | 108.830        | 899.89        | -1.95               | -1.95           | 14.63          | 0.11             |
| 1000.00      | 0.390              | 100.350        | 999.88        | -2.17               | -2.17           | 15.44          | 0.19             |
| 1100.00      | 0.370              | 92.690         | 1099.88       | -2.25               | -2.25           | 16.10          | 0.05             |
| 1200.00      | 0.130              | 77.300         | 1199.88       | -2.44               | -2.44           | 17.16          | 0.28             |
| 1300.00      | 0.230              | 64.420         | 1299.88       | -2.33               | -2.33           | 17.45          | 0.11             |
| 1400.00      | 0.260              | 97.710         | 1399.88       | -2.28               | -2.28           | 17.86          | 0.14             |
| 1500.00      | 0.300              | 48.380         | 1499.88       | -2.13               | -2.13           | 18.28          | 0.24             |
| 1600.00      | 0.350              | 39.320         | 1599.87       | -1.67               | -1.67           | 18.94          | 0.25             |
| 1700.00      | 0.180              | 75.640         | 1699.87       | -1.40               | -1.40           | 19.29          | 0.23             |
| 1800.00      | 0.180              | 13.260         | 1799.87       | -1.20               | -1.20           | 19.48          | 0.19             |
| 1900.00      | 0.260              | 12.080         | 1899.87       | -0.83               | -0.83           | 19.56          | 0.08             |
| 2000.00      | 0.150              | 123.050        | 1999.87       | -0.64               | -0.64           | 19.90          | 0.11             |
| 2100.00      | 0.020              | 258.890        | 2099.87       | -0.71               | -0.71           | 20.00          | 0.16             |
| 2200.00      | 0.210              | 32.680         | 2199.87       | -0.56               | -0.56           | 20.08          | 0.22             |
| 2300.00      | 0.150              | 73.030         | 2299.87       | -0.37               | -0.37           | 20.30          | 0.14             |
| 2400.00      | 0.170              | 40.940         | 2399.87       | 0.41                | 0.41            | 20.93          | 0.26             |
| 2500.00      | 0.300              | 36.640         | 2499.87       | 0.73                | 0.73            | 21.18          | 0.13             |
| 2600.00      | 0.260              | 28.230         | 2599.87       | 1.14                | 1.14            | 21.45          | 0.06             |
| 2700.00      | 0.230              | 9.160          | 2699.87       | 1.54                | 1.54            | 21.58          | 0.09             |
| 2800.00      | 0.210              | 351.710        | 2799.86       | 2.12                | 2.12            | 21.79          | 0.17             |
| 2900.00      | 0.060              | 104.860        | 2899.86       | 2.29                | 2.29            | 21.81          | 0.24             |
| 3000.00      | 0.090              | 198.460        | 2999.86       | 2.20                | 2.20            | 21.84          | 0.11             |
| 3100.00      | 0.220              | 233.630        | 3099.86       | 2.01                | 2.01            | 21.66          | 0.16             |

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| Field    | Wildcat Mississippian (Mescalero) | Wellbore | #2 AWB                         |
| Facility | Mescalero Springs State Com       |          |                                |

## WELLPATH DATA (163 stations)

| MD<br>[feet] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[feet] | Vert Sect<br>[feet] | North<br>[feet] | East<br>[feet] | DLS<br>[%/100ft] |
|--------------|--------------------|----------------|---------------|---------------------|-----------------|----------------|------------------|
| 4000.00      | 0.270              | 245.840        | 3999.86       | 1.61                | 1.61            | 21.11          | 0.14             |
| 4100.00      | 0.260              | 257.730        | 4099.86       | 1.47                | 1.47            | 20.67          | 0.06             |
| 4200.00      | 0.280              | 258.520        | 4199.86       | 1.37                | 1.37            | 20.21          | 0.02             |
| 4300.00      | 0.320              | 276.480        | 4299.86       | 1.35                | 1.35            | 19.69          | 0.10             |
| 4500.00      | 0.210              | 262.060        | 4499.86       | 1.49                | 1.49            | 18.99          | 0.12             |
| 4600.00      | 0.290              | 257.960        | 4599.86       | 1.41                | 1.41            | 18.56          | 0.08             |
| 4700.00      | 0.110              | 293.520        | 4699.86       | 1.40                | 1.40            | 18.22          | 0.21             |
| 4800.00      | 0.280              | 245.670        | 4799.86       | 1.34                | 1.34            | 17.91          | 0.22             |
| 5000.00      | 0.520              | 296.230        | 4999.85       | 1.51                | 1.51            | 16.54          | 0.19             |
| 5100.00      | 0.580              | 289.840        | 5099.85       | 1.88                | 1.88            | 15.65          | 0.09             |
| 5200.00      | 0.630              | 303.550        | 5199.84       | 2.36                | 2.36            | 14.72          | 0.15             |
| 5300.00      | 0.660              | 283.820        | 5299.83       | 2.80                | 2.80            | 13.70          | 0.22             |
| 5500.00      | 0.880              | 288.870        | 5499.82       | 3.53                | 3.53            | 11.34          | 0.23             |
| 5600.00      | 0.690              | 282.880        | 5599.81       | 3.92                | 3.92            | 10.02          | 0.21             |
| 5700.00      | 0.890              | 290.520        | 5699.80       | 4.32                | 4.32            | 8.71           | 0.23             |
| 5800.00      | 0.750              | 284.180        | 5799.79       | 4.76                | 4.76            | 7.35           | 0.17             |
| 6000.00      | 0.690              | 293.150        | 5999.77       | 5.92                | 5.92            | 5.12           | 0.17             |
| 6100.00      | 0.510              | 266.020        | 6099.77       | 6.12                | 6.12            | 4.12           | 0.33             |
| 6200.00      | 0.310              | 286.770        | 6199.77       | 6.17                | 6.17            | 3.42           | 0.25             |
| 6300.00      | 0.490              | 266.470        | 6299.76       | 6.22                | 6.22            | 2.73           | 0.23             |
| 6500.00      | 0.580              | 296.020        | 6499.76       | 6.88                | 6.88            | 1.18           | 0.14             |
| 6600.00      | 0.540              | 290.590        | 6599.75       | 7.27                | 7.27            | 0.28           | 0.07             |
| 6700.00      | 0.730              | 294.320        | 6699.74       | 7.70                | 7.70            | -0.74          | 0.19             |
| 6800.00      | 0.670              | 303.350        | 6799.74       | 8.28                | 8.28            | -1.81          | 0.13             |
| 7000.00      | 1.310              | 283.770        | 6999.71       | 9.41                | 9.41            | -4.72          | 0.52             |
| 7055.00      | 1.430              | 285.120        | 7054.70       | 9.74                | 9.74            | -5.99          | 0.23             |
| 7117.00      | 2.300              | 330.100        | 7116.67       | 11.02               | 11.02           | -7.36          | 2.64             |
| 7149.00      | 2.600              | 332.900        | 7148.64       | 12.22               | 12.22           | -8.01          | 1.01             |
| 7212.00      | 3.400              | 350.800        | 7211.55       | 15.36               | 15.36           | -9.11          | 2.44             |
| 7244.00      | 4.000              | 356.100        | 7243.48       | 17.41               | 17.41           | -9.34          | 2.16             |
| 7275.00      | 4.700              | 359.600        | 7274.39       | 19.76               | 19.76           | -9.42          | 2.41             |
| 7307.00      | 5.000              | 358.200        | 7306.28       | 22.47               | 22.47           | -9.47          | 1.01             |

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## WELLPATH DATA (163 stations)

| MD<br>[feet] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[feet] | Vert Sect<br>[feet] | North<br>[feet] | East<br>[feet] | DLS<br>[°/100ft] |
|--------------|--------------------|----------------|---------------|---------------------|-----------------|----------------|------------------|
| 7370.00      | 6.100              | 355.400        | 7368.99       | 28.46               | 28.46           | -9.79          | 2.33             |
| 7402.00      | 6.700              | 354.300        | 7400.79       | 32.01               | 32.01           | -10.12         | 1.91             |
| 7433.00      | 7.200              | 353.300        | 7431.56       | 35.74               | 35.74           | -10.52         | 1.66             |
| 7465.00      | 7.700              | 354.000        | 7463.29       | 39.87               | 39.87           | -10.98         | 1.59             |
| 7528.00      | 9.100              | 356.800        | 7525.62       | 48.98               | 48.98           | -11.79         | 2.76             |
| 7560.00      | 10.000             | 357.500        | 7557.18       | 54.29               | 54.29           | -12.05         | 2.84             |
| 7591.00      | 10.700             | 359.300        | 7587.67       | 59.85               | 59.85           | -12.21         | 2.49             |
| 7622.00      | 11.100             | 359.300        | 7618.11       | 65.71               | 65.71           | -12.28         | 1.29             |
| 7685.00      | 12.600             | 0.600          | 7679.79       | 78.56               | 78.56           | -12.32         | 2.98             |
| 7717.00      | 13.500             | 1.700          | 7710.96       | 85.79               | 85.79           | -12.18         | 2.92             |
| 7746.00      | 14.200             | 1.400          | 7739.12       | 92.73               | 92.73           | -11.99         | 2.43             |
| 7778.00      | 14.700             | 3.100          | 7770.10       | 100.70              | 100.70          | -11.67         | 2.05             |
| 7841.00      | 15.600             | 3.500          | 7830.92       | 117.13              | 117.13          | -10.85         | 1.81             |
| 7872.00      | 16.400             | 3.500          | 7860.72       | 125.65              | 125.65          | -10.33         | 2.58             |
| 7903.00      | 16.800             | 3.800          | 7890.43       | 134.49              | 134.49          | -9.77          | 1.32             |
| 7935.00      | 17.400             | 4.500          | 7921.01       | 143.88              | 143.88          | -9.09          | 1.98             |
| 7998.00      | 18.100             | 5.200          | 7981.02       | 162.99              | 162.99          | -7.57          | 1.63             |
| 8029.00      | 18.200             | 4.500          | 8010.48       | 172.62              | 172.62          | -6.76          | 0.77             |
| 8061.00      | 18.500             | 4.200          | 8040.85       | 182.66              | 182.66          | -5.99          | 0.98             |
| 8092.00      | 18.900             | 4.500          | 8070.22       | 192.57              | 192.57          | -5.24          | 1.33             |
| 8155.00      | 19.600             | 4.900          | 8129.67       | 213.35              | 213.35          | -3.57          | 0.78             |
| 8187.00      | 19.600             | 3.800          | 8159.81       | 224.05              | 224.05          | -2.75          | 1.15             |
| 8218.00      | 19.900             | 4.200          | 8188.99       | 234.50              | 234.50          | -2.02          | 1.06             |
| 8249.00      | 19.900             | 3.500          | 8218.14       | 245.03              | 245.03          | -1.31          | 0.77             |
| 8312.00      | 20.400             | 3.800          | 8277.24       | 266.80              | 266.80          | 0.24           | 0.79             |
| 8344.00      | 20.000             | 4.200          | 8307.27       | 277.83              | 277.83          | 1.01           | 1.32             |
| 8375.00      | 20.900             | 4.200          | 8336.31       | 288.63              | 288.63          | 1.80           | 2.90             |
| 8407.00      | 21.500             | 3.100          | 8366.15       | 300.18              | 300.18          | 2.54           | 2.25             |
| 8470.00      | 22.300             | 1.370          | 8424.68       | 323.45              | 323.45          | 3.47           | 2.77             |
| 8501.00      | 23.200             | 2.400          | 8453.27       | 335.43              | 335.43          | 3.87           | 3.17             |
| 8533.00      | 23.600             | 2.800          | 8482.64       | 348.13              | 348.13          | 4.45           | 1.34             |
| 8565.00      | 23.900             | 2.800          | 8511.93       | 361.00              | 361.00          | 5.08           | 0.94             |

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## WELLPATH DATA (163 stations)

| MD<br>[feet] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[feet] | Vert Sect<br>[feet] | North<br>[feet] | East<br>[feet] | DLS<br>[°/100ft] |
|--------------|--------------------|----------------|---------------|---------------------|-----------------|----------------|------------------|
| 8629.00      | 23.600             | 1.700          | 8570.43       | 386.93              | 386.93          | 6.06           | 1.59             |
| 8660.00      | 24.300             | 1.700          | 8598.76       | 399.51              | 399.51          | 6.43           | 2.26             |
| 8692.00      | 24.800             | 1.700          | 8627.87       | 412.80              | 412.80          | 6.82           | 1.56             |
| 8723.00      | 25.100             | 1.400          | 8655.97       | 425.87              | 425.87          | 7.18           | 1.05             |
| 8786.00      | 25.700             | 2.800          | 8712.96       | 452.73              | 452.73          | 8.16           | 2.16             |
| 8818.00      | 25.400             | 2.800          | 8741.83       | 466.51              | 466.51          | 8.84           | 0.94             |
| 8849.00      | 25.200             | 3.100          | 8769.85       | 479.74              | 479.74          | 9.52           | 0.77             |
| 8881.00      | 25.500             | 3.500          | 8798.77       | 493.42              | 493.42          | 10.31          | 1.08             |
| 8947.00      | 25.300             | 3.100          | 8858.37       | 521.74              | 521.74          | 11.81          | 0.70             |
| 8979.00      | 25.200             | 2.800          | 8887.31       | 535.37              | 535.37          | 12.52          | 0.51             |
| 9011.00      | 25.300             | 2.100          | 8916.25       | 549.01              | 549.01          | 13.10          | 0.98             |
| 9042.00      | 24.900             | 2.400          | 8944.33       | 562.15              | 562.15          | 13.62          | 1.35             |
| 9105.00      | 24.500             | 2.800          | 9001.54       | 588.50              | 588.50          | 14.70          | 1.35             |
| 9137.00      | 24.200             | 2.800          | 9030.69       | 601.68              | 601.68          | 15.34          | 0.94             |
| 9168.00      | 24.600             | 1.400          | 9058.92       | 614.48              | 614.48          | 15.81          | 2.27             |
| 9200.00      | 25.400             | 359.300        | 9087.92       | 628.00              | 628.00          | 15.89          | 3.73             |
| 9262.00      | 26.100             | 357.100        | 9143.76       | 654.94              | 654.94          | 14.97          | 1.49             |
| 9294.00      | 25.900             | 357.100        | 9172.52       | 668.95              | 668.95          | 14.26          | 0.62             |
| 9325.00      | 25.800             | 357.200        | 9200.42       | 682.45              | 682.45          | 13.59          | 0.35             |
| 9357.00      | 25.100             | 357.200        | 9229.31       | 696.19              | 696.19          | 12.91          | 2.19             |
| 9420.00      | 24.600             | 357.200        | 9286.44       | 722.71              | 722.71          | 11.62          | 1.29             |
| 9515.00      | 21.400             | 358.600        | 9373.88       | 759.79              | 759.79          | 10.23          | 3.42             |
| 9609.00      | 19.900             | 358.600        | 9461.84       | 792.93              | 792.93          | 9.42           | 1.60             |
| 9703.00      | 18.300             | 358.600        | 9550.66       | 823.68              | 823.68          | 8.67           | 1.70             |
| 9892.00      | 15.300             | 358.600        | 9731.42       | 878.77              | 878.77          | 7.32           | 1.91             |
| 9987.00      | 13.500             | 358.900        | 9823.44       | 902.39              | 902.39          | 6.80           | 1.90             |
| 10081.00     | 12.700             | 358.900        | 9914.99       | 923.69              | 923.69          | 6.39           | 0.85             |
| 10176.00     | 11.100             | 358.900        | 10007.94      | 943.28              | 943.28          | 6.01           | 1.68             |
| 10310.00     | 9.300              | 2.800          | 10139.87      | 966.73              | 966.73          | 6.15           | 1.11             |
| 10404.00     | 9.100              | 357.200        | 10232.66      | 981.74              | 981.74          | 6.15           | 0.98             |
| 10498.00     | 8.300              | 356.100        | 10325.58      | 995.94              | 995.94          | 5.33           | 0.87             |
| 10593.00     | 7.100              | 352.200        | 10419.72      | 1008.60             | 1008.60         | 4.07           | 1.38             |

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## WELLPATH DATA (163 stations)

| MD<br>[feet] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[feet] | Vert Sect<br>[feet] | North<br>[feet] | East<br>[feet] | DLS<br>[°/100ft] |
|--------------|--------------------|----------------|---------------|---------------------|-----------------|----------------|------------------|
| 10782.00     | 4.000              | 337.500        | 10607.71      | 1027.32             | 1027.32         | -0.54          | 2.45             |
| 10877.00     | 3.400              | 333.600        | 10702.51      | 1032.91             | 1032.91         | -3.06          | 0.68             |
| 10972.00     | 2.400              | 289.300        | 10797.40      | 1036.09             | 1036.09         | -6.19          | 2.50             |

## TARGETS

| Name                                    | MD<br>[feet] | TVD<br>[feet] | North<br>[feet] | East<br>[feet] | Grid East<br>[us survey feet] | Grid North<br>[us survey feet] | Latitude<br>[°] | Longitude<br>[°] | Shape |
|-----------------------------------------|--------------|---------------|-----------------|----------------|-------------------------------|--------------------------------|-----------------|------------------|-------|
| #2 T1                                   |              | 10550.00      | 1000.00         | 0.00           | 666048.20                     | 854221.54                      | 33 20 49.480N   | 103 47 22.520W   | point |
| #2 BHL                                  |              | 11350.00      | 1000.00         | 0.00           | 666048.20                     | 854221.54                      | 33 20 49.480N   | 103 47 22.520W   | point |
| 1660' FSL & 1980' FEL Sec. 23 T11S R31E |              |               |                 |                |                               |                                |                 |                  |       |

## WELLPATH COMPOSITION Ref Wellbore: #2 AWB Ref Wellpath: #2 AWP

| Start MD<br>[feet] | End MD<br>[feet] | Positional Uncertainty Model           | Log Name/Comment | Wellbore |
|--------------------|------------------|----------------------------------------|------------------|----------|
| 0.00               | 7055.00          | Generic gyro - northseeking (Standard) | Gyro             | #2 AWB   |
| 7055.00            | 10972.00         | NaviTrak (Standard)                    | MWD              | #2 AWB   |

|           |                                 |           |                                |
|-----------|---------------------------------|-----------|--------------------------------|
| Location: | Chavez County, NM               | Slot:     | #2_SHL                         |
| Field:    | Wildcat Mississippi (Mescalero) | Well:     | Mescalero Springs State Com #2 |
| Facility: | Mescalero Springs State Com     | Wellbore: | #2 AWB                         |

|           |                                 |           |                                |
|-----------|---------------------------------|-----------|--------------------------------|
| Location: | Chavez County, NM               | Slot:     | #2_SHL                         |
| Field:    | Wildcat Mississippi (Mescalero) | Well:     | Mescalero Springs State Com #2 |
| Facility: | Mescalero Springs State Com     | Wellbore: | #2 AWB                         |

Slot: #2\_SHL  
Well: Mescalero Springs State Com #2  
Bore: #2\_AWB

**BAKER  
HUGHES**  
**INTEQ**

[illegible]