

Marathon Oil Company  
Indian Hills Unit No. 28, slot #1  
Indian Basin, EDDY COUNTY, NM.

SURVEY LISTING Page 3  
Your ref : MWD Survey  
Last revised : 6-Dec-2000

| Measured<br>Depth | Inclin.<br>Degrees | Azimuth<br>Degrees | True Vert<br>Depth | R E C T A N G U L A R<br>C O O R D I N A T E S |           | Dogleg<br>Deg/100ft | Vert<br>Sect |
|-------------------|--------------------|--------------------|--------------------|------------------------------------------------|-----------|---------------------|--------------|
| 7403.00           | 18.40              | 229.90             | 7204.07            | 786.15 S                                       | 872.44 W  | 1.25                | 1174.34      |
| 7497.00           | 18.70              | 232.00             | 7293.19            | 804.98 S                                       | 895.66 W  | 0.78                | 1204.21      |
| 7527.00           | 18.20              | 232.70             | 7321.65            | 810.78 S                                       | 903.18 W  | 1.82                | 1213.69      |
| 7558.00           | 18.60              | 232.30             | 7351.06            | 816.74 S                                       | 910.94 W  | 1.35                | 1223.45      |
| 7621.00           | 19.10              | 231.00             | 7410.68            | 829.37 S                                       | 926.90 W  | 1.04                | 1243.77      |
| 7714.00           | 20.30              | 230.30             | 7498.24            | 849.25 S                                       | 951.14 W  | 1.32                | 1275.10      |
| 7744.00           | 20.80              | 229.80             | 7526.33            | 856.02 S                                       | 959.21 W  | 1.77                | 1285.62      |
| 7807.00           | 20.10              | 228.50             | 7585.36            | 870.41 S                                       | 975.86 W  | 1.32                | 1307.63      |
| 7901.00           | 19.40              | 230.10             | 7673.83            | 891.13 S                                       | 999.94 W  | 0.94                | 1339.39      |
| 7934.00           | 19.50              | 230.60             | 7704.95            | 898.14 S                                       | 1008.40 W | 0.59                | 1350.37      |
| 7980.00           | 18.60              | 231.70             | 7748.43            | 907.56 S                                       | 1020.09 W | 2.11                | 1365.37      |
| 8000.00           | 17.30              | 241.40             | 7767.46            | 910.96 S                                       | 1025.20 W | 16.28               | 1371.45      |
| 8050.00           | 15.60              | 240.00             | 7815.41            | 917.88 S                                       | 1037.55 W | 3.49                | 1385.29      |
| 8100.00           | 15.60              | 240.00             | 7863.57            | 924.60 S                                       | 1049.20 W | 0.00                | 1398.46      |
| 8150.00           | 16.00              | 239.40             | 7911.68            | 931.47 S                                       | 1060.95 W | 0.86                | 1411.81      |
| 8200.00           | 16.70              | 239.00             | 7959.66            | 938.68 S                                       | 1073.04 W | 1.42                | 1425.64      |
| 8250.00           | 17.70              | 239.10             | 8007.42            | 946.28 S                                       | 1085.72 W | 2.00                | 1440.17      |
| 8300.00           | 18.60              | 238.80             | 8054.93            | 954.32 S                                       | 1099.06 W | 1.81                | 1455.49      |
| 8350.00           | 19.40              | 238.20             | 8102.21            | 962.82 S                                       | 1112.94 W | 1.65                | 1471.52      |
| 8400.00           | 20.40              | 237.70             | 8149.22            | 971.86 S                                       | 1127.37 W | 2.03                | 1488.30      |
| 8450.00           | 21.40              | 237.20             | 8195.93            | 981.45 S                                       | 1142.40 W | 2.03                | 1505.92      |
| 8500.00           | 22.30              | 236.70             | 8242.34            | 991.60 S                                       | 1158.00 W | 1.84                | 1524.33      |
| 8550.00           | 23.60              | 236.00             | 8288.38            | 1002.41 S                                      | 1174.22 W | 2.66                | 1543.64      |
| 8600.00           | 24.60              | 235.50             | 8334.02            | 1013.90 S                                      | 1191.10 W | 2.04                | 1563.89      |
| 8650.00           | 25.60              | 235.20             | 8379.30            | 1025.96 S                                      | 1208.54 W | 2.02                | 1584.95      |
| 8700.00           | 26.60              | 235.30             | 8424.20            | 1038.50 S                                      | 1226.62 W | 2.00                | 1606.79      |
| 8750.00           | 27.30              | 235.30             | 8468.77            | 1051.40 S                                      | 1245.25 W | 1.40                | 1629.29      |
| 8800.00           | 28.00              | 235.00             | 8513.06            | 1064.66 S                                      | 1264.29 W | 1.43                | 1652.33      |
| 8870.00           | 28.00              | 235.00             | 8574.87            | 1083.51 S                                      | 1291.21 W | 0.00                | 1684.98      |

Last MWD Survey.  
Schlumberger GeoQuest Survey (Start)

Proj. to TD.

All data is in feet unless otherwise stated.  
Coordinates from slot #1 and TVD from rotary table.  
Bottom hole distance is 1685.59 on azimuth 230.00 degrees from wellhead.  
Vertical section is from wellhead on azimuth 228.46 degrees.  
Calculation uses the minimum curvature method.  
Presented by Baker Hughes INTEQ