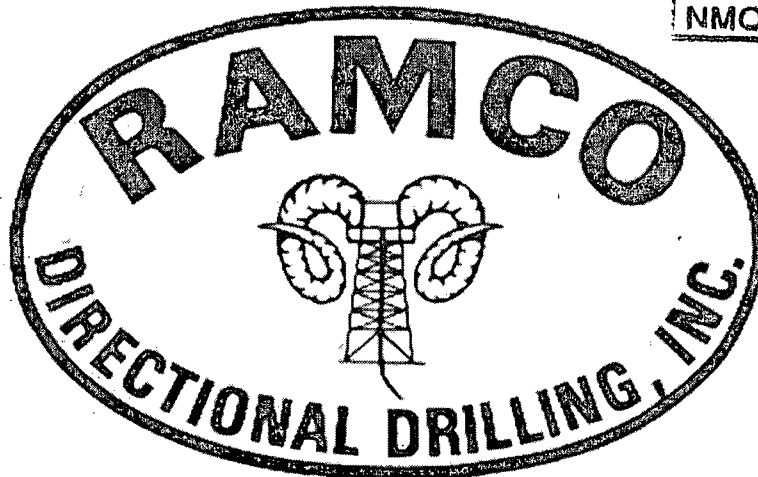
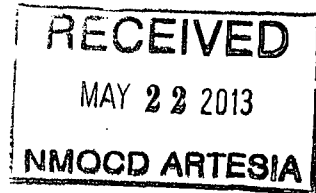




# RECORD OF SURVEY

"GYROSCOPIC" MULTI-SHOT SURVEY (VAUGHN ENERGY) : 0' - 3,500' MD

"MAGNETIC" MWD SURVEYS (DRILTECH) : 3,536' - 12,515' MD

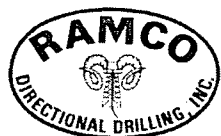
PROJECTED SURVEY TO: 12,591' MD

## SM ENERGY COMPANY

PARKWAY 36 STATE #4H  
SECTION 36, T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO

RIG: NABORS M-09  
DECLINATION: 7.34° EAST TO GRID

API# : 30-015-39237-00-00  
PERMIT# : 19266

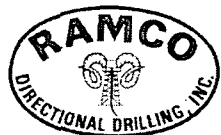


# SM ENERGY COMPANY

PARKWAY 36 STATE WELL #4H  
SECTION 36, T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO

RKB. = 3352 (22' RKB + 3330' GL Elevation)  
OBJ. = S 85.62 E

| Survey Type |       | Depth MD | Angle | Azimuth | Direction | CL   | Depth TVD | Depth SUBSEA | (+)North<br>(-)South | (+)East<br>(-)West | Vertical Section | Dogleg /100' |
|-------------|-------|----------|-------|---------|-----------|------|-----------|--------------|----------------------|--------------------|------------------|--------------|
| GMS         | TI-IN | 0.00     | 0.00  | 161.01° | S 18.99 E | ---- | 0.00      | -3352.00     | 0.00                 | 0.00               | 0.00             | TIE-IN       |
| GMS         | 1     | 100.00   | 0.46  | 161.01° | S 18.99 E | 100  | 100.00    | -3252.00     | -0.38                | 0.13               | 0.16             | 0.46         |
| GMS         | 2     | 200.00   | 0.70  | 176.38° | S 3.62 E  | 100  | 199.99    | -3152.01     | -1.37                | 0.33               | 0.43             | 0.28         |
| GMS         | 3     | 300.00   | 0.77  | 186.02° | S 6.02 W  | 100  | 299.99    | -3052.01     | -2.65                | 0.30               | 0.50             | 0.14         |
| GMS         | 4     | 400.00   | 0.48  | 166.82° | S 13.18 E | 100  | 399.98    | -2952.02     | -3.73                | 0.37               | 0.65             | 0.35         |
| GMS         | 5     | 500.00   | 0.64  | 132.94° | S 47.06 E | 100  | 499.97    | -2852.03     | -4.57                | 0.85               | 1.20             | 0.36         |
| GMS         | 6     | 600.00   | 0.70  | 122.33° | S 57.67 E | 100  | 599.97    | -2752.03     | -5.28                | 1.78               | 2.18             | 0.14         |
| GMS         | 7     | 700.00   | 0.75  | 99.83°  | S 80.17 E | 100  | 699.96    | -2652.04     | -5.73                | 2.95               | 3.38             | 0.29         |
| GMS         | 8     | 800.00   | 1.30  | 88.70°  | N 88.70 E | 100  | 799.94    | -2552.06     | -5.86                | 4.73               | 5.17             | 0.58         |
| GMS         | 9     | 900.00   | 1.33  | 74.60°  | N 74.60 E | 100  | 899.92    | -2452.08     | -5.53                | 7.00               | 7.40             | 0.32         |
| GMS         | 10    | 1000.00  | 1.92  | 69.23°  | N 69.23 E | 100  | 999.88    | -2352.12     | -4.65                | 9.69               | 10.02            | 0.61         |
| GMS         | 11    | 1100.00  | 2.24  | 71.20°  | N 71.20 E | 100  | 1099.81   | -2252.19     | -3.42                | 13.11              | 13.33            | 0.33         |
| GMS         | 12    | 1200.00  | 2.10  | 70.01°  | N 70.01 E | 100  | 1199.74   | -2152.26     | -2.17                | 16.68              | 16.79            | 0.15         |
| GMS         | 13    | 1300.00  | 1.12  | 62.74°  | N 62.74 E | 100  | 1299.70   | -2052.30     | -1.04                | 19.25              | 19.27            | 1.00         |
| GMS         | 14    | 1400.00  | 0.79  | 32.30°  | N 32.30 E | 100  | 1399.68   | -1952.32     | 0.07                 | 20.46              | 20.40            | 0.59         |
| GMS         | 15    | 1500.00  | 0.92  | 12.93°  | N 12.93 E | 100  | 1499.67   | -1852.33     | 1.44                 | 21.04              | 20.86            | 0.31         |
| GMS         | 16    | 1600.00  | 0.58  | 24.24°  | N 24.24 E | 100  | 1599.66   | -1752.34     | 2.68                 | 21.45              | 21.19            | 0.37         |
| GMS         | 17    | 1700.00  | 0.47  | 5.24°   | N 5.24 E  | 100  | 1699.66   | -1652.34     | 3.56                 | 21.68              | 21.35            | 0.20         |
| GMS         | 18    | 1800.00  | 0.67  | 299.25° | N 60.75 W | 100  | 1799.65   | -1552.35     | 4.40                 | 21.25              | 20.85            | 0.64         |
| GMS         | 19    | 1900.00  | 0.91  | 295.60° | N 64.40 W | 100  | 1899.65   | -1452.35     | 5.03                 | 20.02              | 19.58            | 0.25         |
| GMS         | 20    | 2000.00  | 1.15  | 297.94° | N 62.06 W | 100  | 1999.63   | -1352.37     | 5.84                 | 18.42              | 17.92            | 0.24         |
| GMS         | 21    | 2100.00  | 1.38  | 295.68° | N 64.32 W | 100  | 2099.60   | -1252.40     | 6.84                 | 16.45              | 15.88            | 0.24         |
| GMS         | 22    | 2200.00  | 0.98  | 305.75° | N 54.25 W | 100  | 2199.58   | -1152.42     | 7.89                 | 14.68              | 14.03            | 0.45         |
| GMS         | 23    | 2300.00  | 1.12  | 281.38° | N 78.62 W | 100  | 2299.57   | -1052.43     | 8.61                 | 13.01              | 12.32            | 0.46         |
| GMS         | 24    | 2400.00  | 0.87  | 237.32° | S 57.32 W | 100  | 2399.55   | -952.45      | 8.30                 | 11.35              | 10.68            | 0.78         |
| GMS         | 25    | 2500.00  | 1.61  | 205.27° | S 25.27 W | 100  | 2499.53   | -852.47      | 6.70                 | 9.94               | 9.40             | 0.99         |
| GMS         | 26    | 2600.00  | 1.61  | 209.91° | S 29.91 W | 100  | 2599.49   | -752.51      | 4.21                 | 8.64               | 8.29             | 0.13         |
| GMS         | 27    | 2700.00  | 1.24  | 215.10° | S 35.10 W | 100  | 2699.46   | -652.54      | 2.11                 | 7.30               | 7.12             | 0.39         |

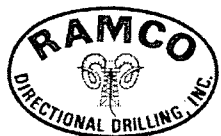


# SM ENERGY COMPANY

PARKWAY 36 STATE WELL #4H  
SECTION 36, T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO

RKB. = 3352 (22' RKB + 3330' GL Elevation)  
OBJ. = S 85.62 E

| Survey Type |    | Depth MD | Angle | Azimuth | Direction |       |   | CL  | Depth TVD | Depth SUBSEA | (+)North<br>(-)South | (+)East<br>(-)West | Vertical Section | Dogleg /100' |
|-------------|----|----------|-------|---------|-----------|-------|---|-----|-----------|--------------|----------------------|--------------------|------------------|--------------|
| GMS         | 28 | 2800.00  | 1.50  | 215.09° | S         | 35.09 | W | 100 | 2799.43   | -552.57      | 0.15                 | 5.93               | 5.90             | 0.26         |
| GMS         | 29 | 2900.00  | 1.18  | 221.72° | S         | 41.72 | W | 100 | 2899.40   | -452.60      | -1.68                | 4.47               | 4.59             | 0.36         |
| GMS         | 30 | 3000.00  | 1.19  | 235.13° | S         | 55.13 | W | 100 | 2999.38   | -352.62      | -3.05                | 2.93               | 3.16             | 0.28         |
| GMS         | 31 | 3100.00  | 1.07  | 222.37° | S         | 42.37 | W | 100 | 3099.36   | -252.64      | -4.35                | 1.45               | 1.78             | 0.28         |
| GMS         | 32 | 3200.00  | 0.86  | 223.30° | S         | 43.30 | W | 100 | 3199.35   | -152.65      | -5.58                | 0.31               | 0.73             | 0.21         |
| GMS         | 33 | 3300.00  | 1.15  | 257.21° | S         | 77.21 | W | 100 | 3299.33   | -52.67       | -6.44                | -1.19              | -0.70            | 0.65         |
| GMS         | 34 | 3400.00  | 1.11  | 250.98° | S         | 70.98 | W | 100 | 3399.31   | 47.31        | -6.98                | -3.09              | -2.55            | 0.13         |
| GMS         | 35 | 3500.00  | 1.19  | 247.05° | S         | 67.05 | W | 100 | 3499.29   | 147.29       | -7.70                | -4.96              | -4.36            | 0.11         |
| MWD         | 36 | 3536.00  | 0.90  | 248.90° | S         | 68.90 | W | 36  | 3535.28   | 183.28       | -7.94                | -5.57              | -4.95            | 0.81         |
| MWD         | 37 | 3631.00  | 1.10  | 254.10° | S         | 74.10 | W | 95  | 3630.27   | 278.27       | -8.47                | -7.14              | -6.48            | 0.23         |
| MWD         | 38 | 3727.00  | 1.20  | 257.30° | S         | 77.30 | W | 96  | 3726.25   | 374.25       | -8.95                | -9.01              | -8.30            | 0.12         |
| MWD         | 39 | 3822.00  | 1.10  | 252.70° | S         | 72.70 | W | 95  | 3821.23   | 469.23       | -9.44                | -10.85             | -10.10           | 0.14         |
| MWD         | 40 | 3918.00  | 1.10  | 261.20° | S         | 81.20 | W | 96  | 3917.21   | 565.21       | -9.85                | -12.65             | -11.86           | 0.17         |
| MWD         | 41 | 4013.00  | 1.20  | 265.60° | S         | 85.60 | W | 95  | 4012.19   | 660.19       | -10.07               | -14.54             | -13.73           | 0.14         |
| MWD         | 42 | 4109.00  | 1.10  | 266.10° | S         | 86.10 | W | 96  | 4108.17   | 756.17       | -10.21               | -16.46             | -15.63           | 0.10         |
| MWD         | 43 | 4204.00  | 1.20  | 263.80° | S         | 83.80 | W | 95  | 4203.16   | 851.16       | -10.38               | -18.36             | -17.51           | 0.12         |
| MWD         | 44 | 4300.00  | 1.20  | 267.70° | S         | 87.70 | W | 96  | 4299.13   | 947.13       | -10.53               | -20.36             | -19.50           | 0.09         |
| MWD         | 45 | 4395.00  | 1.10  | 272.40° | N         | 87.60 | W | 95  | 4394.12   | 1042.12      | -10.53               | -22.27             | -21.40           | 0.14         |
| MWD         | 46 | 4490.00  | 1.10  | 266.80° | S         | 86.80 | W | 95  | 4489.10   | 1137.10      | -10.54               | -24.09             | -23.22           | 0.11         |
| MWD         | 47 | 4586.00  | 1.10  | 267.10° | S         | 87.10 | W | 96  | 4585.08   | 1233.08      | -10.64               | -25.93             | -25.05           | 0.01         |
| MWD         | 48 | 4681.00  | 1.10  | 270.70° | N         | 89.30 | W | 95  | 4680.06   | 1328.06      | -10.67               | -27.76             | -26.86           | 0.07         |
| MWD         | 49 | 4777.00  | 1.10  | 261.20° | S         | 81.20 | W | 96  | 4776.05   | 1424.05      | -10.80               | -29.59             | -28.68           | 0.19         |
| MWD         | 50 | 4872.00  | 1.10  | 261.00° | S         | 81.00 | W | 95  | 4871.03   | 1519.03      | -11.09               | -31.40             | -30.46           | 0.00         |
| MWD         | 51 | 4968.00  | 1.20  | 266.60° | S         | 86.60 | W | 96  | 4967.01   | 1615.01      | -11.29               | -33.31             | -32.35           | 0.16         |
| MWD         | 52 | 5063.00  | 1.10  | 281.00° | N         | 79.00 | W | 95  | 5061.99   | 1709.99      | -11.17               | -35.21             | -34.25           | 0.32         |
| MWD         | 53 | 5159.00  | 1.10  | 282.80° | N         | 77.20 | W | 96  | 5157.97   | 1805.97      | -10.79               | -37.01             | -36.08           | 0.04         |
| MWD         | 54 | 5254.00  | 1.20  | 274.00° | N         | 86.00 | W | 95  | 5252.95   | 1900.95      | -10.51               | -38.90             | -37.98           | 0.21         |
| MWD         | 55 | 5350.00  | 1.20  | 278.60° | N         | 81.40 | W | 96  | 5348.93   | 1996.93      | -10.29               | -40.89             | -39.99           | 0.10         |

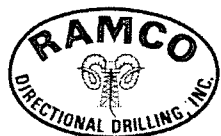


# SM ENERGY COMPANY

**PARKWAY 36 STATE WELL #4H**  
**SECTION 36, T-19-S, R-29-E**  
**EDDY COUNTY, NEW MEXICO**

RKB. = 3352 (22' RKB + 3330' GL Elevation)  
 OBJ. = S 85.62 E

| Survey Type |    | Depth MD | Angle | Azimuth | Direction |         | CL | Depth TVD | Depth SUBSEA | (+)North<br>(-)South | (+)East<br>(-)West | Vertical Section | Dogleg /100' |
|-------------|----|----------|-------|---------|-----------|---------|----|-----------|--------------|----------------------|--------------------|------------------|--------------|
| MWD         | 56 | 5445.00  | 1.20  | 277.90° | N         | 82.10 W | 95 | 5443.91   | 2091.91      | -10.00               | -42.86             | -41.97           | 0.02         |
| MWD         | 57 | 5541.00  | 1.20  | 279.40° | N         | 80.60 W | 96 | 5539.89   | 2187.89      | -9.70                | -44.85             | -43.98           | 0.03         |
| MWD         | 58 | 5636.00  | 1.10  | 290.70° | N         | 69.30 W | 95 | 5634.87   | 2282.87      | -9.21                | -46.69             | -45.85           | 0.26         |
| MWD         | 59 | 5732.00  | 1.10  | 298.30° | N         | 61.70 W | 96 | 5730.85   | 2378.85      | -8.44                | -48.36             | -47.58           | 0.15         |
| MWD         | 60 | 5827.00  | 1.20  | 295.60° | N         | 64.40 W | 95 | 5825.83   | 2473.83      | -7.58                | -50.06             | -49.34           | 0.12         |
| MWD         | 61 | 5923.00  | 1.20  | 302.10° | N         | 57.90 W | 96 | 5921.81   | 2569.81      | -6.61                | -51.82             | -51.17           | 0.14         |
| MWD         | 62 | 6018.00  | 1.20  | 299.10° | N         | 60.90 W | 95 | 6016.79   | 2664.79      | -5.60                | -53.54             | -52.95           | 0.07         |
| MWD         | 63 | 6080.00  | 1.10  | 298.10° | N         | 61.90 W | 62 | 6078.78   | 2726.78      | -5.00                | -54.63             | -54.09           | 0.16         |
| MWD         | 64 | 6175.00  | 1.10  | 308.10° | N         | 51.90 W | 95 | 6173.76   | 2821.76      | -4.01                | -56.15             | -55.68           | 0.20         |
| MWD         | 65 | 6271.00  | 1.20  | 301.20° | N         | 58.80 W | 96 | 6269.74   | 2917.74      | -2.91                | -57.74             | -57.35           | 0.18         |
| MWD         | 66 | 6366.00  | 1.20  | 319.20° | N         | 40.80 W | 95 | 6364.72   | 3012.72      | -1.63                | -59.25             | -58.95           | 0.40         |
| MWD         | 67 | 6462.00  | 1.20  | 335.30° | N         | 24.70 W | 96 | 6460.70   | 3108.70      | 0.05                 | -60.34             | -60.16           | 0.35         |
| MWD         | 68 | 6558.00  | 1.60  | 330.10° | N         | 29.90 W | 96 | 6556.67   | 3204.67      | 2.14                 | -61.41             | -61.40           | 0.44         |
| MWD         | 69 | 6653.00  | 1.80  | 334.50° | N         | 25.50 W | 95 | 6651.63   | 3299.63      | 4.63                 | -62.72             | -62.89           | 0.25         |
| MWD         | 70 | 6749.00  | 1.80  | 325.90° | N         | 34.10 W | 96 | 6747.58   | 3395.58      | 7.25                 | -64.22             | -64.58           | 0.28         |
| MWD         | 71 | 6844.00  | 1.90  | 319.40° | N         | 40.60 W | 95 | 6842.53   | 3490.53      | 9.68                 | -66.08             | -66.62           | 0.24         |
| MWD         | 72 | 6940.00  | 1.90  | 324.80° | N         | 35.20 W | 96 | 6938.48   | 3586.48      | 12.19                | -68.03             | -68.77           | 0.19         |
| MWD         | 73 | 7035.00  | 2.30  | 324.40° | N         | 35.60 W | 95 | 7033.42   | 3681.42      | 15.03                | -70.05             | -70.99           | 0.42         |
| MWD         | 74 | 7131.00  | 0.50  | 13.80°  | N         | 13.80 E | 96 | 7129.38   | 3777.38      | 17.26                | -70.48             | -71.59           | 2.09         |
| MWD         | 75 | 7226.00  | 0.50  | 357.70° | N         | 2.30 W  | 95 | 7224.38   | 3872.38      | 18.09                | -70.40             | -71.57           | 0.15         |
| MWD         | 76 | 7322.00  | 0.70  | 14.40°  | N         | 14.40 E | 96 | 7320.37   | 3968.37      | 19.08                | -70.29             | -71.54           | 0.27         |
| MWD         | 77 | 7417.00  | 0.90  | 6.50°   | N         | 6.50 E  | 95 | 7415.37   | 4063.37      | 20.38                | -70.05             | -71.40           | 0.24         |
| MWD         | 78 | 7513.00  | 1.10  | 350.30° | N         | 9.70 W  | 96 | 7511.35   | 4159.35      | 22.05                | -70.10             | -71.58           | 0.36         |
| MWD         | 79 | 7608.00  | 1.10  | 339.90° | N         | 20.10 W | 95 | 7606.33   | 4254.33      | 23.81                | -70.57             | -72.18           | 0.21         |
| MWD         | 80 | 7641.00  | 1.10  | 334.50° | N         | 25.50 W | 33 | 7639.33   | 4287.33      | 24.40                | -70.81             | -72.47           | 0.31         |
| MWD         | 81 | 7673.00  | 0.90  | 346.20° | N         | 13.80 W | 32 | 7671.32   | 4319.32      | 24.92                | -71.00             | -72.69           | 0.89         |
| MWD         | 82 | 7704.00  | 0.70  | 75.70°  | N         | 75.70 E | 31 | 7702.32   | 4350.32      | 25.26                | -70.80             | -72.52           | 3.66         |
| MWD         | 83 | 7736.00  | 3.00  | 102.10° | S         | 77.90 E | 32 | 7734.30   | 4382.30      | 25.28                | -69.77             | -71.50           | 7.48         |

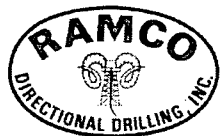


# **SM ENERGY COMPANY**

**PARKWAY 36 STATE WELL #4H**  
**SECTION 36, T-19-S, R-29-E**  
**EDDY COUNTY, NEW MEXICO**

RKB. = 3352 (22' RKB + 3330' GL Elevation)  
 OBJ. = S 85.62 E

| Survey Type |     | Depth MD | Angle | Azimuth | Direction |         | CL  | Depth TVD | Depth SUBSEA | (+)North<br>(-)South | (+)East<br>(-)West | Vertical Section | Dogleg /100' |
|-------------|-----|----------|-------|---------|-----------|---------|-----|-----------|--------------|----------------------|--------------------|------------------|--------------|
| MWD         | 84  | 7768.00  | 7.00  | 94.50°  | S         | 85.50 E | 32  | 7766.17   | 4414.17      | 24.87                | -67.02             | -68.72           | 12.64        |
| MWD         | 85  | 7800.00  | 11.60 | 90.30°  | S         | 89.70 E | 32  | 7797.74   | 4445.74      | 24.66                | -61.85             | -63.56           | 14.52        |
| MWD         | 86  | 7832.00  | 16.50 | 87.10°  | N         | 87.10 E | 32  | 7828.78   | 4476.78      | 24.83                | -54.09             | -55.83           | 15.50        |
| MWD         | 87  | 7864.00  | 20.80 | 84.90°  | N         | 84.90 E | 32  | 7859.09   | 4507.09      | 25.55                | -43.88             | -45.71           | 13.61        |
| MWD         | 88  | 7895.00  | 25.50 | 85.20°  | N         | 85.20 E | 31  | 7887.58   | 4535.58      | 26.60                | -31.75             | -33.68           | 15.17        |
| MWD         | 89  | 7927.00  | 29.90 | 86.80°  | N         | 86.80 E | 32  | 7915.91   | 4563.91      | 27.64                | -16.91             | -18.97           | 13.94        |
| MWD         | 90  | 7959.00  | 33.40 | 88.00°  | N         | 88.00 E | 32  | 7943.15   | 4591.15      | 28.40                | -0.14              | -2.31            | 11.11        |
| MWD         | 91  | 7991.00  | 37.00 | 90.30°  | S         | 89.70 E | 32  | 7969.29   | 4617.29      | 28.67                | 18.30              | 16.06            | 11.99        |
| MWD         | 92  | 8023.00  | 40.30 | 92.80°  | S         | 87.20 E | 32  | 7994.28   | 4642.28      | 28.13                | 38.27              | 36.01            | 11.41        |
| MWD         | 93  | 8055.00  | 42.60 | 93.80°  | S         | 86.20 E | 32  | 8018.26   | 4666.26      | 26.91                | 59.42              | 57.19            | 7.48         |
| MWD         | 94  | 8076.00  | 43.10 | 94.50°  | S         | 85.50 E | 21  | 8033.66   | 4681.66      | 25.88                | 73.66              | 71.47            | 3.29         |
| MWD         | 95  | 8108.00  | 45.40 | 95.40°  | S         | 84.60 E | 32  | 8056.58   | 4704.58      | 23.95                | 95.91              | 93.80            | 7.45         |
| MWD         | 96  | 8139.00  | 47.50 | 95.40°  | S         | 84.60 E | 31  | 8077.94   | 4725.94      | 21.84                | 118.28             | 116.26           | 6.77         |
| MWD         | 97  | 8171.00  | 49.60 | 95.10°  | S         | 84.90 E | 32  | 8099.12   | 4747.12      | 19.64                | 142.16             | 140.24           | 6.60         |
| MWD         | 98  | 8203.00  | 52.60 | 94.50°  | S         | 85.50 E | 32  | 8119.21   | 4767.21      | 17.56                | 166.97             | 165.14           | 9.49         |
| MWD         | 99  | 8235.00  | 56.10 | 94.50°  | S         | 85.50 E | 32  | 8137.86   | 4785.86      | 15.52                | 192.89             | 191.14           | 10.94        |
| MWD         | 100 | 8267.00  | 58.40 | 94.20°  | S         | 85.80 E | 32  | 8155.17   | 4803.17      | 13.48                | 219.72             | 218.05           | 7.23         |
| MWD         | 101 | 8299.00  | 61.80 | 94.50°  | S         | 85.50 E | 32  | 8171.12   | 4819.12      | 11.37                | 247.38             | 245.79           | 10.66        |
| MWD         | 102 | 8330.00  | 65.50 | 94.40°  | S         | 85.60 E | 31  | 8184.87   | 4832.87      | 9.22                 | 275.07             | 273.56           | 11.94        |
| MWD         | 103 | 8362.00  | 69.50 | 94.90°  | S         | 85.10 E | 32  | 8197.12   | 4845.12      | 6.82                 | 304.53             | 303.12           | 12.58        |
| MWD         | 104 | 8394.00  | 72.80 | 95.10°  | S         | 84.90 E | 32  | 8207.45   | 4855.45      | 4.18                 | 334.70             | 333.40           | 10.33        |
| MWD         | 105 | 8426.00  | 74.40 | 94.20°  | S         | 85.80 E | 32  | 8216.49   | 4864.49      | 1.70                 | 365.29             | 364.10           | 5.68         |
| MWD         | 106 | 8458.00  | 76.70 | 94.20°  | S         | 85.80 E | 32  | 8224.47   | 4872.47      | -0.57                | 396.20             | 395.08           | 7.19         |
| MWD         | 107 | 8490.00  | 79.00 | 94.50°  | S         | 85.50 E | 32  | 8231.21   | 4879.21      | -2.95                | 427.39             | 426.36           | 7.25         |
| MWD         | 108 | 8508.00  | 80.80 | 94.20°  | S         | 85.80 E | 18  | 8234.36   | 4882.36      | -4.29                | 445.06             | 444.08           | 10.13        |
| MWD         | 109 | 8613.00  | 87.30 | 94.40°  | S         | 85.60 E | 105 | 8245.24   | 4893.24      | -12.12               | 549.14             | 548.46           | 6.19         |
| MWD         | 110 | 8708.00  | 86.70 | 92.90°  | S         | 87.10 E | 95  | 8250.22   | 4898.22      | -18.16               | 643.81             | 643.32           | 1.70         |
| MWD         | 111 | 8804.00  | 86.60 | 94.50°  | S         | 85.50 E | 96  | 8255.83   | 4903.83      | -24.34               | 739.45             | 739.15           | 1.67         |



# SM ENERGY COMPANY

PARKWAY 36 STATE WELL #4H  
SECTION 36, T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO

RKB. = 3352 (22' RKB + 3330' GL Elevation)  
OBJ. = S 85.62 E

| Survey Type | Depth MD | Angle    | Azimuth | Direction | CL           | Depth TVD | Depth SUBSEA | (+)North<br>(-)South | (+)East<br>(-)West | Vertical Section | Dogleg /100' |
|-------------|----------|----------|---------|-----------|--------------|-----------|--------------|----------------------|--------------------|------------------|--------------|
| MWD         | 112      | 8900.00  | 87.60   | 94.20°    | S 85.80 E 96 | 8260.68   | 4908.68      | -31.61               | 835.05             | 835.02           | 1.09         |
| MWD         | 113      | 8994.00  | 88.70   | 94.50°    | S 85.50 E 94 | 8263.72   | 4911.72      | -38.74               | 928.73             | 928.97           | 1.21         |
| MWD         | 114      | 9089.00  | 89.90   | 94.50°    | S 85.50 E 95 | 8264.88   | 4912.88      | -46.19               | 1023.42            | 1023.96          | 1.26         |
| MWD         | 115      | 9185.00  | 89.60   | 94.00°    | S 86.00 E 96 | 8265.30   | 4913.30      | -53.31               | 1119.16            | 1119.96          | 0.61         |
| MWD         | 116      | 9280.00  | 89.60   | 93.50°    | S 86.50 E 95 | 8265.96   | 4913.96      | -59.52               | 1213.95            | 1214.95          | 0.53         |
| MWD         | 117      | 9376.00  | 89.40   | 93.30°    | S 86.70 E 96 | 8266.80   | 4914.80      | -65.21               | 1309.78            | 1310.93          | 0.29         |
| MWD         | 118      | 9471.00  | 89.00   | 93.50°    | S 86.50 E 95 | 8268.12   | 4916.12      | -70.85               | 1404.60            | 1405.91          | 0.47         |
| MWD         | 119      | 9567.00  | 88.20   | 93.80°    | S 86.20 E 96 | 8270.47   | 4918.47      | -76.95               | 1500.38            | 1501.87          | 0.89         |
| MWD         | 120      | 9662.00  | 88.00   | 93.80°    | S 86.20 E 95 | 8273.62   | 4921.62      | -83.25               | 1595.12            | 1596.82          | 0.21         |
| MWD         | 121      | 9757.00  | 87.40   | 93.30°    | S 86.70 E 95 | 8277.43   | 4925.43      | -89.13               | 1689.86            | 1691.73          | 0.82         |
| MWD         | 122      | 9852.00  | 87.60   | 94.20°    | S 85.80 E 95 | 8281.57   | 4929.57      | -95.33               | 1784.56            | 1786.63          | 0.97         |
| MWD         | 123      | 9947.00  | 89.20   | 94.00°    | S 86.00 E 95 | 8284.23   | 4932.23      | -102.12              | 1879.28            | 1881.59          | 1.70         |
| MWD         | 124      | 10042.00 | 89.00   | 93.50°    | S 86.50 E 95 | 8285.72   | 4933.72      | -108.33              | 1974.07            | 1976.57          | 0.57         |
| MWD         | 125      | 10137.00 | 88.30   | 92.80°    | S 87.20 E 95 | 8287.96   | 4935.96      | -113.55              | 2068.89            | 2071.52          | 1.04         |
| MWD         | 126      | 10232.00 | 87.80   | 90.80°    | S 89.20 E 95 | 8291.19   | 4939.19      | -116.54              | 2163.79            | 2166.37          | 2.17         |
| MWD         | 127      | 10328.00 | 88.70   | 91.50°    | S 88.50 E 96 | 8294.12   | 4942.12      | -118.46              | 2259.72            | 2262.17          | 1.19         |
| MWD         | 128      | 10423.00 | 88.90   | 92.60°    | S 87.40 E 95 | 8296.11   | 4944.11      | -121.86              | 2354.64            | 2357.07          | 1.18         |
| MWD         | 129      | 10519.00 | 89.20   | 92.10°    | S 87.90 E 96 | 8297.70   | 4945.70      | -125.79              | 2450.54            | 2452.99          | 0.61         |
| MWD         | 130      | 10614.00 | 86.40   | 93.60°    | S 86.40 E 95 | 8301.35   | 4949.35      | -130.51              | 2545.34            | 2547.88          | 3.34         |
| MWD         | 131      | 10709.00 | 83.90   | 94.40°    | S 85.60 E 95 | 8309.38   | 4957.38      | -137.12              | 2639.77            | 2642.53          | 2.76         |
| MWD         | 132      | 10804.00 | 84.50   | 93.80°    | S 86.20 E 95 | 8318.98   | 4966.98      | -143.87              | 2734.04            | 2737.04          | 0.89         |
| MWD         | 133      | 10899.00 | 85.50   | 94.70°    | S 85.30 E 95 | 8327.26   | 4975.26      | -150.89              | 2828.41            | 2831.68          | 1.41         |
| MWD         | 134      | 10994.00 | 85.50   | 96.60°    | S 83.40 E 95 | 8334.71   | 4982.71      | -160.21              | 2922.66            | 2926.35          | 1.99         |
| MWD         | 135      | 11090.00 | 87.80   | 97.90°    | S 82.10 E 96 | 8340.32   | 4988.32      | -172.30              | 3017.72            | 3022.06          | 2.75         |
| MWD         | 136      | 11185.00 | 90.60   | 97.50°    | S 82.50 E 95 | 8341.65   | 4989.65      | -185.03              | 3111.84            | 3116.88          | 2.98         |
| MWD         | 137      | 11281.00 | 90.80   | 97.00°    | S 83.00 E 96 | 8340.48   | 4988.48      | -197.14              | 3207.07            | 3212.76          | 0.56         |
| MWD         | 138      | 11376.00 | 90.40   | 95.80°    | S 84.20 E 95 | 8339.48   | 4987.48      | -207.73              | 3301.47            | 3307.69          | 1.33         |
| MWD         | 139      | 11472.00 | 89.90   | 95.80°    | S 84.20 E 96 | 8339.23   | 4987.23      | -217.43              | 3396.97            | 3403.66          | 0.52         |



# **SM ENERGY COMPANY**

**PARKWAY 36 STATE WELL #4H**  
**SECTION 36, T-19-S, R-29-E**  
**EDDY COUNTY, NEW MEXICO**

RKB. = 3352 (22' RKB + 3330' GL Elevation)  
 OBJ. = S 85.62 E

| Survey Type |     | Depth MD | Angle | Azimuth | Direction | CL | Depth TVD | Depth SUBSEA | (+)North<br>(-)South | (+)East<br>(-)West | Vertical Section | Dogleg /100' |
|-------------|-----|----------|-------|---------|-----------|----|-----------|--------------|----------------------|--------------------|------------------|--------------|
| MWD         | 140 | 11567.00 | 89.40 | 95.80°  | S 84.20 E | 95 | 8339.81   | 4987.81      | -227.03              | 3491.49            | 3498.63          | 0.53         |
| MWD         | 141 | 11663.00 | 89.60 | 96.10°  | S 83.90 E | 96 | 8340.65   | 4988.65      | -236.99              | 3586.97            | 3594.59          | 0.38         |
| MWD         | 142 | 11758.00 | 90.80 | 95.60°  | S 84.40 E | 95 | 8340.32   | 4988.32      | -246.67              | 3681.47            | 3689.55          | 1.37         |
| MWD         | 143 | 11854.00 | 91.30 | 96.30°  | S 83.70 E | 96 | 8338.56   | 4986.56      | -256.62              | 3776.93            | 3785.50          | 0.90         |
| MWD         | 144 | 11949.00 | 90.40 | 96.80°  | S 83.20 E | 95 | 8337.15   | 4985.15      | -267.45              | 3871.30            | 3880.42          | 1.08         |
| MWD         | 145 | 12045.00 | 86.90 | 95.90°  | S 84.10 E | 96 | 8339.41   | 4987.41      | -278.07              | 3966.67            | 3976.32          | 3.76         |
| MWD         | 146 | 12140.00 | 87.60 | 96.10°  | S 83.90 E | 95 | 8343.97   | 4991.97      | -287.99              | 4061.04            | 4071.17          | 0.77         |
| MWD         | 147 | 12235.00 | 87.30 | 96.30°  | S 83.70 E | 95 | 8348.19   | 4996.19      | -298.23              | 4155.39            | 4166.03          | 0.38         |
| MWD         | 148 | 12330.00 | 86.40 | 95.40°  | S 84.60 E | 95 | 8353.42   | 5001.42      | -307.90              | 4249.75            | 4260.86          | 1.34         |
| MWD         | 149 | 12426.00 | 90.40 | 94.20°  | S 85.80 E | 96 | 8356.09   | 5004.09      | -315.93              | 4345.36            | 4356.79          | 4.35         |
| MWD         | 150 | 12515.00 | 90.60 | 94.70°  | S 85.30 E | 89 | 8355.32   | 5003.32      | -322.84              | 4434.09            | 4445.79          | 0.61         |
| PROJ        | 151 | 12591.00 | 90.60 | 94.70°  | S 85.30 E | 76 | 8354.52   | 5002.52      | -329.06              | 4509.83            | 4521.78          | 0.00         |