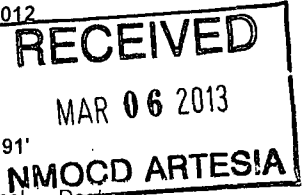




SM ENERGY COMPANY

OSAGE (FEDERAL 34) WELL #3-H  
SECTION 34 T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO

30-015-39785 7/26/2012



RKB = 3335' AMSL Est. ( GL = 3317' )

Obj. = N 88.854 E

SHL: X: 622,345.51' Y: 587,617.91'

NAD 83

| SURVEY |       |         |       |         |     |       |        |                      |                    |         |       | Vertical |             | Dogleg |  |
|--------|-------|---------|-------|---------|-----|-------|--------|----------------------|--------------------|---------|-------|----------|-------------|--------|--|
| Type   | #     | MD      | ANG   | Azimuth | DIR | CL    | TVD    | (+)North<br>(-)South | (+)East<br>(-)West | Section | /100' |          |             |        |  |
| GMS    | TH-IN | 0.00    | 0.00  | 357.67  | N   | 2.33  | W ---- | 0.00                 | 0.00               | 0.00    | 0.00  | TH-IN    | ----        |        |  |
| GMS    | 1     | 200.00  | 0.25  | 357.67  | N   | 2.33  | W 200  | 200.00               | 0.44               | -0.02   | -0.01 | 0.12     |             |        |  |
| GMS    | 2     | 400.00  | 0.37  | 29.53   | N   | 29.53 | E 200  | 400.00               | 1.47               | 0.23    | 0.26  | 0.10     |             |        |  |
| GMS    | 3     | 600.00  | 0.29  | 51.48   | N   | 51.48 | E 200  | 599.99               | 2.34               | 0.98    | 1.02  | 0.07     |             |        |  |
| GMS    | 4     | 800.00  | 0.60  | 75.19   | N   | 75.19 | E 200  | 799.99               | 3.04               | 2.36    | 2.42  | 0.18     |             |        |  |
| GMS    | 5     | 1000.00 | 1.47  | 79.32   | N   | 79.32 | E 200  | 999.95               | 3.83               | 5.88    | 5.95  | 0.44     |             |        |  |
| GMS    | 6     | 1200.00 | 1.09  | 76.05   | N   | 76.05 | E 200  | 1199.90              | 4.79               | 10.24   | 10.34 | 0.19     |             |        |  |
| GMS    | 7     | 1400.00 | 0.83  | 89.03   | N   | 89.03 | E 200  | 1399.87              | 5.22               | 13.56   | 13.66 | 0.17     |             |        |  |
| GMS    | 8     | 1600.00 | 0.75  | 78.23   | N   | 78.23 | E 200  | 1599.85              | 5.53               | 16.29   | 16.40 | 0.08     |             |        |  |
| GMS    | 9     | 1800.00 | 1.11  | 112.83  | S   | 67.17 | E 200  | 1799.83              | 5.22               | 19.48   | 19.58 | 0.33     |             |        |  |
| GMS    | 10    | 2000.00 | 1.40  | 110.54  | S   | 69.46 | E 200  | 1999.78              | 3.60               | 23.55   | 23.61 | 0.15     |             |        |  |
| GMS    | 11    | 2200.00 | 1.19  | 153.73  | S   | 26.27 | E 200  | 2199.73              | 0.64               | 26.82   | 26.83 | 0.49     |             |        |  |
| GMS    | 12    | 2400.00 | 2.23  | 165.51  | S   | 14.49 | E 200  | 2399.64              | -4.95              | 28.89   | 28.79 | 0.55     |             |        |  |
| GMS    | 13    | 2600.00 | 1.72  | 176.72  | S   | 3.28  | E 200  | 2599.52              | -11.75             | 29.96   | 29.72 | 0.32     |             |        |  |
| GMS    | 14    | 2800.00 | 2.07  | 170.57  | S   | 9.43  | E 200  | 2799.41              | -18.32             | 30.69   | 30.32 | 0.20     |             |        |  |
| GMS    | 15    | 3000.00 | 2.45  | 173.17  | S   | 6.83  | E 200  | 2999.25              | -26.12             | 31.80   | 31.28 | 0.20     |             |        |  |
| GMS    | 16    | 3200.00 | 1.68  | 175.85  | S   | 4.15  | E 200  | 3199.12              | -33.29             | 32.49   | 31.82 | 0.39     |             |        |  |
| GMS    | 17    | 3400.00 | 1.30  | 186.86  | S   | 6.86  | W 200  | 3399.05              | -38.49             | 32.37   | 31.59 | 0.24     |             |        |  |
| GMS    | 18    | 3600.00 | 1.11  | 215.07  | S   | 35.07 | W 200  | 3599.01              | -42.37             | 30.88   | 30.03 | 0.31     |             |        |  |
| GMS    | 19    | 3800.00 | 0.77  | 234.08  | S   | 54.08 | W 200  | 3798.98              | -44.70             | 28.59   | 27.69 | 0.23     |             |        |  |
| GMS    | 20    | 4000.00 | 0.72  | 337.73  | N   | 22.27 | W 200  | 3998.96              | -44.08             | 26.42   | 25.53 | 0.59     |             |        |  |
| GMS    | 21    | 4200.00 | 1.44  | 8.84    | N   | 8.84  | E 200  | 4198.93              | -40.38             | 25.98   | 25.17 | 0.45     |             |        |  |
| GMS    | 22    | 4400.00 | 1.57  | 20.80   | N   | 20.80 | E 200  | 4398.86              | -35.31             | 27.32   | 26.61 | 0.17     |             |        |  |
| GMS    | 23    | 4600.00 | 2.39  | 358.02  | N   | 1.98  | W 200  | 4598.74              | -28.54             | 28.44   | 27.87 | 0.56     |             |        |  |
| GMS    | 24    | 4800.00 | 1.99  | 10.87   | N   | 10.87 | E 200  | 4798.59              | -20.94             | 29.03   | 28.61 | 0.32     |             |        |  |
| GMS    | 25    | 5000.00 | 1.71  | 354.99  | N   | 5.01  | W 200  | 4998.49              | -14.51             | 29.36   | 29.07 | 0.29     |             |        |  |
| GMS    | 26    | 5200.00 | 1.93  | 353.69  | N   | 6.31  | W 200  | 5198.38              | -8.19              | 28.74   | 28.57 | 0.11     |             |        |  |
| GMS    | 27    | 5400.00 | 1.80  | 8.82    | N   | 8.82  | E 200  | 5398.28              | -1.70              | 28.88   | 28.84 | 0.25     |             |        |  |
| GMS    | 28    | 5600.00 | 1.38  | 332.09  | N   | 27.91 | W 200  | 5598.20              | 3.68               | 27.97   | 28.04 | 0.54     |             |        |  |
| GMS    | 29    | 5800.00 | 1.72  | 308.95  | N   | 51.05 | W 200  | 5798.13              | 7.83               | 24.56   | 24.71 | 0.35     |             |        |  |
| GMS    | 30    | 6000.00 | 1.76  | 327.14  | N   | 32.86 | W 200  | 5998.04              | 12.32              | 20.52   | 20.76 | 0.28     |             |        |  |
| GMS    | 31    | 6200.00 | 2.01  | 349.83  | N   | 10.17 | W 200  | 6197.93              | 18.40              | 18.12   | 18.48 | 0.39     |             |        |  |
| GMS    | 32    | 6400.00 | 1.97  | 321.98  | N   | 38.02 | W 200  | 6397.81              | 24.68              | 15.31   | 15.80 | 0.48     |             |        |  |
| GMS    | 33    | 6600.00 | 1.52  | 311.41  | N   | 48.59 | W 200  | 6597.71              | 29.11              | 11.14   | 11.72 | 0.28     |             |        |  |
| GMS    | 34    | 6800.00 | 0.89  | 303.05  | N   | 56.95 | W 200  | 6797.67              | 31.65              | 7.79    | 8.43  | 0.33     |             |        |  |
| GMS    | 35    | 7000.00 | 0.88  | 314.67  | N   | 45.33 | W 200  | 6997.64              | 33.58              | 5.39    | 6.06  | 0.09     |             |        |  |
| MWD    | 36    | 7119.00 | 0.90  | 281.60  | N   | 78.40 | W 119  | 7116.63              | 34.44              | 3.79    | 4.47  | 0.43     |             |        |  |
| MWD    | 37    | 7214.00 | 0.50  | 189.20  | S   | 9.20  | W 95   | 7211.62              | 33.85              | 2.93    | 3.61  | 1.10     |             |        |  |
| MWD    | 38    | 7320.00 | 2.50  | 194.10  | S   | 14.10 | W 106  | 7317.58              | 31.14              | 2.37    | 2.99  | 1.89     |             |        |  |
| MWD    | 39    | 7352.00 | 2.60  | 185.00  | S   | 5.00  | W 32   | 7349.55              | 29.73              | 2.13    | 2.73  | 1.30     | 2'+         |        |  |
| MWD    | 40    | 7383.00 | 2.80  | 151.70  | S   | 28.30 | E 31   | 7380.52              | 28.32              | 2.42    | 2.99  | 5.03     | +28' 3'+    |        |  |
| MWD    | 41    | 7415.00 | 3.70  | 173.20  | S   | 6.80  | E 32   | 7412.46              | 26.60              | 2.97    | 3.50  | 4.69     | +27' 5'+    |        |  |
| MWD    | 42    | 7447.00 | 6.90  | 182.30  | S   | 2.30  | W 32   | 7444.32              | 23.65              | 3.08    | 3.56  | 10.31    | +9' 8' 11'+ |        |  |
| MWD    | 43    | 7478.00 | 10.20 | 174.60  | S   | 5.40  | E 31   | 7474.97              | 19.05              | 3.21    | 3.59  | 11.24    | +17' 12'+   |        |  |
| MWD    | 44    | 7510.00 | 13.50 | 169.80  | S   | 10.20 | E 32   | 7506.29              | 12.54              | 4.10    | 4.35  | 10.75    | +16' 12'+   |        |  |
| MWD    | 45    | 7542.00 | 17.10 | 166.80  | S   | 13.20 | E 32   | 7537.15              | 4.28               | 5.81    | 5.90  | 11.52    | +17' 11'+   |        |  |
| MWD    | 46    | 7574.00 | 19.90 | 162.80  | S   | 17.20 | E 32   | 7567.49              | -5.52              | 8.47    | 8.36  | 9.60     | +17' 13'+   |        |  |
| MWD    | 47    | 7606.00 | 23.00 | 157.00  | S   | 23.00 | E 32   | 7597.27              | -16.50             | 12.49   | 12.16 | 11.73    | +16' 16'+   |        |  |
| MWD    | 48    | 7638.00 | 26.00 | 151.90  | S   | 28.10 | E 32   | 7626.39              | -28.47             | 18.21   | 17.64 | 11.46    | +17' 12'+   |        |  |
| MWD    | 49    | 7670.00 | 29.20 | 147.30  | S   | 32.70 | E 32   | 7654.74              | -41.25             | 25.71   | 24.89 | 12.01    | +17' 11'+   |        |  |
| MWD    | 50    | 7702.00 | 32.20 | 144.50  | S   | 35.50 | E 32   | 7682.25              | -54.78             | 34.87   | 33.77 | 10.38    | +15' 15'+   |        |  |
| MWD    | 51    | 7734.00 | 35.00 | 142.10  | S   | 37.90 | E 32   | 7708.90              | -68.97             | 45.45   | 44.06 | 9.68     | +17' 13'+   |        |  |
| MWD    | 52    | 7766.00 | 38.20 | 138.20  | S   | 41.80 | E 32   | 7734.59              | -83.61             | 57.67   | 55.99 | 12.36    | +17' 13'+   |        |  |
| MWD    | 53    | 7798.00 | 40.80 | 133.80  | S   | 46.20 | E 32   | 7759.28              | -98.25             | 71.81   | 69.83 | 11.93    | +15' 17'+   |        |  |

**SM ENERGY COMPANY**

7/26/2012

**OSAGE FEDERAL 34 WELL #3-H  
SECTION 34 T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO****RKB = 3335' AMSL Est. ( GL = 3317' )****SHL: X: 622,345.51' Y: 587,617.91'**

Obj. =

N 88.854 E

NAD 83

SURVEY

| SURVEY |     |          |       |         |   |       |      |         | (+)North | (+)East | Vertical | Dogleg |          |
|--------|-----|----------|-------|---------|---|-------|------|---------|----------|---------|----------|--------|----------|
| Type   | #   | MD       | ANG   | Azimuth |   | DIR   | CL   | TVD     | (-)South | (-)West | Section  | /100'  |          |
| MWD    | 54  | 7830.00  | 43.60 | 129.40  | S | 50.60 | E 32 | 7782.98 | -112.52  | 87.88   | 85.61    | 12.72  | +17' 15" |
| MWD    | 55  | 7862.00  | 46.10 | 125.20  | S | 54.80 | E 32 | 7805.67 | -126.19  | 105.82  | 103.28   | 12.11  | +17' 15" |
| MWD    | 56  | 7894.00  | 48.90 | 121.10  | S | 58.90 | E 32 | 7827.29 | -139.09  | 125.57  | 122.76   | 12.87  | +15' 17" |
| MWD    | 57  | 7926.00  | 51.60 | 117.50  | S | 62.50 | E 32 | 7847.75 | -151.12  | 147.02  | 143.97   | 12.08  | +17' 11" |
| MWD    | 58  | 7958.00  | 53.80 | 113.80  | S | 66.20 | E 32 | 7867.14 | -162.14  | 169.96  | 166.68   | 11.48  | +17' 12" |
| MWD    | 59  | 7990.00  | 56.10 | 110.80  | S | 69.20 | E 32 | 7885.51 | -172.08  | 194.19  | 190.71   | 10.51  | +15' 12" |
| MWD    | 60  | 8022.00  | 58.20 | 107.60  | S | 72.40 | E 32 | 7902.87 | -180.92  | 219.58  | 215.91   | 10.66  | +17' 8"  |
| MWD    | 61  | 8054.00  | 60.20 | 104.40  | S | 75.60 | E 32 | 7919.25 | -188.49  | 245.99  | 242.17   | 10.62  | +17' 8"  |
| MWD    | 62  | 8086.00  | 62.30 | 101.10  | S | 78.90 | E 32 | 7934.65 | -194.68  | 273.35  | 269.40   | 11.17  | +15' 12" |
| MWD    | 63  | 8118.00  | 64.00 | 97.60   | S | 82.40 | E 32 | 7949.10 | -199.32  | 301.52  | 297.47   | 11.11  | +17' 9"  |
| MWD    | 64  | 8150.00  | 65.80 | 94.10   | S | 85.90 | E 32 | 7962.67 | -202.27  | 330.34  | 326.23   | 11.39  | +17' 11" |
| MWD    | 65  | 8182.00  | 67.70 | 91.10   | S | 88.90 | E 32 | 7975.30 | -203.61  | 359.71  | 355.56   | 10.46  | +15' 11" |
| MWD    | 66  | 8214.00  | 71.30 | 88.60   | N | 88.60 | E 32 | 7986.51 | -203.53  | 389.67  | 385.52   | 13.42  | +17' 12" |
| MWD    | 67  | 8246.00  | 75.30 | 87.20   | N | 87.20 | E 32 | 7995.70 | -202.41  | 420.29  | 416.16   | 13.18  | +17' 12" |
| MWD    | 68  | 8278.00  | 79.70 | 86.50   | N | 86.50 | E 32 | 8002.63 | -200.69  | 451.48  | 447.38   | 13.91  | +15' 15" |
| MWD    | 69  | 8310.00  | 83.90 | 85.80   | N | 85.80 | E 32 | 8007.19 | -198.56  | 483.08  | 479.01   | 13.30  | +17' 9"  |
| MWD    | 70  | 8342.00  | 88.50 | 86.00   | N | 86.00 | E 32 | 8009.31 | -196.28  | 514.91  | 510.88   | 14.39  | +17' 9"  |
| MWD    | 71  | 8373.00  | 90.60 | 86.00   | N | 86.00 | E 31 | 8009.55 | -194.12  | 545.84  | 541.84   | 6.77   | +15'     |
| MWD    | 72  | 8467.00  | 92.00 | 87.20   | N | 87.20 | E 94 | 8007.42 | -188.55  | 639.64  | 635.74   | 1.96   | 8'       |
| MWD    | 73  | 8562.00  | 89.20 | 89.20   | N | 89.20 | E 95 | 8006.43 | -185.56  | 734.58  | 730.72   | 3.62   | 10' 10'  |
| MWD    | 74  | 8655.00  | 91.10 | 89.70   | N | 89.70 | E 93 | 8006.18 | -184.67  | 827.57  | 823.71   | 2.11   |          |
| MWD    | 75  | 8750.00  | 92.20 | 89.50   | N | 89.50 | E 95 | 8003.45 | -184.01  | 922.52  | 918.66   | 1.18   | 15'      |
| MWD    | 76  | 8844.00  | 90.40 | 89.90   | N | 89.90 | E 94 | 8001.31 | -183.52  | 1016.49 | 1012.62  | 1.96   | 20'      |
| MWD    | 77  | 8938.00  | 86.70 | 89.90   | N | 89.90 | E 94 | 8003.69 | -183.35  | 1110.45 | 1106.56  | 3.94   | 10' 10'  |
| MWD    | 78  | 9032.00  | 87.80 | 90.00   | N | 90.00 | E 94 | 8008.20 | -183.27  | 1204.34 | 1200.43  | 1.18   |          |
| MWD    | 79  | 9125.00  | 89.00 | 90.90   | S | 89.10 | E 93 | 8010.80 | -184.00  | 1297.30 | 1293.36  | 1.61   |          |
| MWD    | 80  | 9219.00  | 88.90 | 90.40   | S | 89.60 | E 94 | 8012.52 | -185.07  | 1391.27 | 1387.29  | 0.54   | 10'      |
| MWD    | 81  | 9314.00  | 87.40 | 88.40   | N | 88.40 | E 95 | 8015.59 | -184.07  | 1486.21 | 1482.23  | 2.63   | 13'      |
| MWD    | 82  | 9409.00  | 87.60 | 88.10   | N | 88.10 | E 95 | 8019.73 | -181.17  | 1581.08 | 1577.14  | 0.38   |          |
| MWD    | 83  | 9503.00  | 89.00 | 89.00   | N | 89.00 | E 94 | 8022.52 | -178.80  | 1675.00 | 1671.09  | 1.77   |          |
| MWD    | 84  | 9598.00  | 88.20 | 88.30   | N | 88.30 | E 95 | 8024.84 | -176.56  | 1769.95 | 1766.06  | 1.12   | 10'      |
| MWD    | 85  | 9693.00  | 88.50 | 87.20   | N | 87.20 | E 95 | 8027.58 | -172.83  | 1864.83 | 1861.00  | 1.20   |          |
| MWD    | 86  | 9788.00  | 89.40 | 86.30   | N | 86.30 | E 95 | 8029.32 | -167.45  | 1959.66 | 1955.92  | 1.34   |          |
| MWD    | 87  | 9882.00  | 89.40 | 87.60   | N | 87.60 | E 94 | 8030.30 | -162.44  | 2053.52 | 2049.86  | 1.38   | 10'      |
| MWD    | 88  | 9978.00  | 87.80 | 88.30   | N | 88.30 | E 96 | 8032.65 | -159.01  | 2149.43 | 2145.82  | 1.82   | 10'      |
| MWD    | 89  | 10072.00 | 88.50 | 87.90   | N | 87.90 | E 94 | 8035.68 | -155.90  | 2243.33 | 2239.76  | 0.86   |          |
| MWD    | 90  | 10166.00 | 88.00 | 87.70   | N | 87.70 | E 94 | 8038.55 | -152.29  | 2337.21 | 2333.70  | 0.57   | 6'       |
| MWD    | 91  | 10262.00 | 88.50 | 87.40   | N | 87.40 | E 96 | 8041.48 | -148.19  | 2433.08 | 2429.63  | 0.61   |          |
| MWD    | 92  | 10356.00 | 88.90 | 87.60   | N | 87.60 | E 94 | 8043.62 | -144.09  | 2526.97 | 2523.58  | 0.48   | 8'       |
| MWD    | 93  | 10451.00 | 87.40 | 87.60   | N | 87.60 | E 95 | 8046.68 | -140.11  | 2621.83 | 2618.50  | 1.58   | 12'      |
| MWD    | 94  | 10545.00 | 87.30 | 86.90   | N | 86.90 | E 94 | 8051.03 | -135.61  | 2715.62 | 2712.36  | 0.75   |          |
| MWD    | 95  | 10639.00 | 87.80 | 87.90   | N | 87.90 | E 94 | 8055.05 | -131.35  | 2809.44 | 2806.25  | 1.19   | 12'      |
| MWD    | 96  | 10735.00 | 88.50 | 87.60   | N | 87.60 | E 96 | 8058.15 | -127.58  | 2905.31 | 2902.18  | 0.79   |          |
| MWD    | 97  | 10830.00 | 89.40 | 86.70   | N | 86.70 | E 95 | 8059.89 | -122.86  | 3000.18 | 2997.12  | 1.34   |          |
| MWD    | 98  | 10924.00 | 89.00 | 87.20   | N | 87.20 | E 94 | 8061.20 | -117.86  | 3094.03 | 3091.06  | 0.68   | 15'      |
| MWD    | 99  | 11019.00 | 87.60 | 89.70   | N | 89.70 | E 95 | 8064.02 | -115.29  | 3188.95 | 3186.00  | 3.02   | 18'      |
| MWD    | 100 | 11113.00 | 88.20 | 89.20   | N | 89.20 | E 94 | 8067.46 | -114.39  | 3282.88 | 3279.93  | 0.83   | 16'      |
| MWD    | 101 | 11207.00 | 89.20 | 88.10   | N | 88.10 | E 94 | 8069.60 | -112.17  | 3376.83 | 3373.91  | 1.58   |          |
| MWD    | 102 | 11301.00 | 88.30 | 88.60   | N | 88.60 | E 94 | 8071.65 | -109.47  | 3470.76 | 3467.88  | 1.10   | 14'      |
| MWD    | 103 | 11395.00 | 86.90 | 89.50   | N | 89.50 | E 94 | 8075.58 | -107.91  | 3564.67 | 3561.79  | 1.77   | 14'      |
| MWD    | 104 | 11489.00 | 87.40 | 89.30   | N | 89.30 | E 94 | 8080.26 | -106.93  | 3658.54 | 3655.67  | 0.57   |          |
| MWD    | 105 | 11583.00 | 87.40 | 88.80   | N | 88.80 | E 94 | 8084.52 | -105.37  | 3752.43 | 3749.57  | 0.53   | 10'      |
| MWD    | 106 | 11677.00 | 87.60 | 90.70   | S | 89.30 | E 94 | 8088.62 | -104.96  | 3846.34 | 3843.47  | 2.03   | 14'      |
| MWD    | 107 | 11771.00 | 89.20 | 91.10   | S | 88.90 | E 94 | 8091.24 | -106.44  | 3940.29 | 3937.37  | 1.75   |          |



**SM ENERGY COMPANY**

7/26/2012

OSAGE FEDERAL 34 WELL #3-H  
SECTION 34 T-19-S, R-29-E  
EDDY COUNTY, NEW MEXICO

RKB = 3335' AMSL Est. ( GL = 3317' )

SHL: X: 622,345.51' Y: 587,617.91'

Obj. = N 88.854 E

NAD 83

| Type | #   | SURVEY   |       |         |          | DIR   | CL   | TVD     | (+)North | (+)East | Vertical | Dogleg |     |
|------|-----|----------|-------|---------|----------|-------|------|---------|----------|---------|----------|--------|-----|
|      |     | MD       | ANG   | Azimuth | (-)South |       |      |         | (-)West  | Section | /100'    |        |     |
| MWD  | 108 | 11866.00 | 91.10 | 90.20   | S        | 89.80 | E 95 | 8091.00 | -107.51  | 4035.28 | 4032.32  | 2.21   |     |
| MWD  | 109 | 11960.00 | 90.80 | 89.30   | N        | 89.30 | E 94 | 8089.44 | -107.10  | 4129.26 | 4126.29  | 1.01   | 17' |
| MWD  | 110 | 12054.00 | 91.10 | 89.30   | N        | 89.30 | E 94 | 8087.88 | -105.96  | 4223.24 | 4220.28  | 0.32   | 9'  |
| MWD  | 111 | 12149.00 | 92.40 | 88.30   | N        | 88.30 | E 95 | 8084.98 | -103.97  | 4318.17 | 4315.23  | 1.73   |     |
| MWD  | 112 | 12243.00 | 91.50 | 88.10   | N        | 88.10 | E 94 | 8081.78 | -101.02  | 4412.07 | 4409.17  | 0.98   | 15' |
| BHL  | 113 | 12318.00 | 91.50 | 88.10   | N        | 88.10 | E 75 | 8079.82 | -98.53   | 4487.00 | 4484.13  | 0.00   |     |

LATERAL

3945.00

8086.09 92.50 4622.51 4623.44

-107.50

| <u>Build</u> | <u>Turn</u> | <u>Slides</u>                 | <u>Rotates</u> |         | <u>DL's</u> |
|--------------|-------------|-------------------------------|----------------|---------|-------------|
| 0.10         | -9.10       | Sidetrack 7350-80             | 32             |         | N/A         |
| 0.20         | 23.30       | Time Drill Button 7380-7410   | 0              |         | 5.03        |
| 0.90         | -21.50      | Time Drill Diamond 7410-24    | 0              |         | 4.69        |
| 3.20         | -4.50       | 7424-7432 180M 7436-7464 165M | 4              | 7432-36 | 11.78       |
| 3.30         | 3.10        | 7466-7494 160M                | 2              | 7464-66 | 12.02       |
| 3.30         | 4.80        | 7498-7527 10L                 | 4              | 7494-98 | 12.29       |
| 3.60         | 3.00        | 7531-7559 30L                 | 4              | 7527-31 | 13.16       |
| 2.80         | 4.00        | 7561-7590 45L                 | 2              | 7559-61 | 10.24       |
| 3.10         | 5.80        | 7590-7623 45L                 | 0              |         | 11.73       |
| 3.00         | 5.10        | 7626-7655 45L                 | 3              | 7623-26 | 12.65       |
| 3.20         | 4.60        | 7659-7685 45L                 | 4              | 7655-59 | 13.72       |
| 3.00         | 2.80        | 7687-7719 45L                 | 2              | 7685-87 | 11.07       |
| 2.80         | 2.40        | 7721-7751 45L                 | 2              | 7719-21 | 10.33       |
| 3.20         | 3.90        | 7753-7781 45L                 | 2              | 7751-53 | 13.18       |
| 2.60         | 4.40        | 7781-7815 50L                 | 0              |         | 11.93       |

|         |          |                           |    |           |       |
|---------|----------|---------------------------|----|-----------|-------|
| 2.80    | 4.40     | 7815-7847 55L             | 0  |           | 12.72 |
| 2.50    | 4.20     | 7847-7877 55L             | 0  |           | 12.11 |
| 2.80    | 4.10     | 7877-7911 55L             | 0  |           | 12.87 |
| 2.70    | 3.60     | 7915-7943 55L             | 4  | 7911-15   | 13.81 |
| 2.20    | 3.70     | 7946-7973 55L             | 3  | 7943-46   | 12.67 |
| 2.30    | 3.00     | 7978-8007 55L             | 5  | 7973-78   | 12.46 |
| 2.10    | 3.20     | 8014-8039 65L             | 7  | 8007-14   | 13.64 |
| 2.00    | 3.20     | 8046-8069 60L             | 7  | 8039-46   | 13.60 |
| 2.10    | 3.30     | 8074-8103 60L             | 5  | 8069-74   | 13.24 |
| 1.70    | 3.50     | 8109-8135 60L             | 6  | 8103-09   | 13.67 |
| 1.80    | 3.50     | 8139-8165 60L             | 4  | 8135-39   | 13.02 |
| 1.90    | 3.00     | 8171-8199 45L             | 6  | 8165-71   | 12.88 |
| 3.60    | -0.30    | 8202-8231 15L             | 3  | 8199-202  | 14.81 |
| 4.00    | -1.40    | 8234-8261 5L              | 3  | 8231-34   | 14.55 |
| 4.40    | -0.70    | 8263-8295 HS              | 2  | 8261-63   | 14.84 |
| 4.20    | -0.70    | 8301-8327 HS              | 6  | 8295-8301 | 16.37 |
| 4.60    | 0.20     | 8333-8357 15R             | 6  | 8327-33   | 17.71 |
| 2.10    | 0.00     |                           | 16 | 8357-90   | 14.00 |
| 8011-11 |          | 8452-60 150R              |    |           |       |
| +8.25'  | 69.12' R | 8500-10 150R 8546-56 160R |    |           |       |
| +10.12' | 68.23' R |                           |    |           |       |
| +14.51' | 67.57' R | 8736-51 170L              |    |           |       |
| +18.29' | 67.08' R | 8829-49 170L              |    |           |       |
| +17.55' | 66.91' R | 8878-88 165L 8923-33 155L |    |           |       |
| +14.63' | 66.83' R |                           |    |           |       |
| +13.70' | 67.56' R |                           |    |           |       |
| +13.62' | 68.63' R | 9209-19 170L              |    |           |       |
| +12.21' | 67.63' R | 9298-9311 150L            |    |           |       |
| +9.72'  | 64.73' R |                           |    |           |       |
| +8.58'  | 62.36' R |                           |    |           |       |
| +7.91'  | 60.12' R | 9577-87 160L              |    |           |       |
| +6.83'  | 56.39' R |                           |    |           |       |
| +6.75'  | 51.01' R |                           |    |           |       |
| +7.41'  | 46.00' R | 9864-74 110R              |    |           |       |
| +6.73'  | 42.57' R | 9955-65 160R              |    |           |       |
| +5.83'  | 39.46' R |                           |    |           |       |
| +5.57'  | 35.85' R | 10146-56 155R             |    |           |       |
| +5.32'  | 31.75' R |                           |    |           |       |
| +5.80'  | 27.65' R | 10335-43 145R             |    |           |       |
| +5.39'  | 23.67' R | 10430-42 155R             |    |           |       |
| +3.66'  | 19.17' R |                           |    |           |       |
| +2.27'  | 14.91' R | 10618-30 75R              |    |           |       |
| +1.85'  | 11.14' R |                           |    |           |       |
| +2.66'  | 6.42' R  |                           |    |           |       |
| +4.07'  | 1.42' R  | 10903-18 135R             |    |           |       |
| +3.91'  | 1.15' L  | 10997-11015 100R          |    |           |       |
| +3.09'  | 2.05' L  |                           |    |           |       |
| +3.58'  | 4.27' L  |                           |    |           |       |
| +4.15'  | 6.97' L  |                           |    |           |       |
| +2.85'  | 8.53' L  | 11375-89 125              |    |           |       |
| +0.79'  | 9.51' L  |                           |    |           |       |
| -0.85'  | 11.07' L | 11562-72 90R              |    |           |       |
| -2.33'  | 11.48' L | 11657-71 80/85R           |    |           |       |
| -2.32'  | 10.00' L |                           |    |           |       |

|         |          |               |
|---------|----------|---------------|
| +0.57'  | 8.93' L  |               |
| +4.76'  | 9.34' L  | 11950-67 160R |
| +8.94'  | 10.48' L | 12033-42 170R |
| +11.84' | 12.47' L |               |
| +20.32' | 20.32' L | 12226-41 170R |