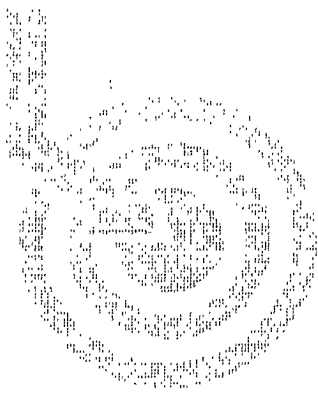




# Scientific Drilling

## MACK ENERGY

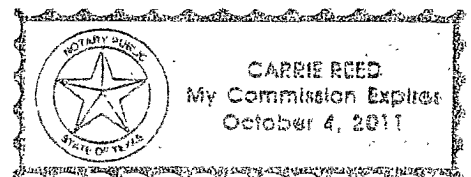
Field: Wildcat  
Site: Eddy County, NM  
Well: Oilers Federal #2  
Wellpath: VH - Job #32K0408249  
Survey: 04/13/08

This survey is correct to the best of my knowledge  
and is supported by actual field data.

Richard.....Company Representative

Notorized this date July of 2008, 2008.

Carrie Reed  
Notary Signature  
County of Midland  
State of Texas





Scientific  
Drilling

# Scientific Drilling International Survey Report

Company: MACK ENERGY  
Field: Wildcat  
Site: Eddy County, NM  
Well: Oilers Federal #2  
Wellpath: VH - Job #32K0408249

Date: 05/04/2008 Time: 18:27:39 Page: 1  
Co-ordinate(NE) Reference: Site Eddy County, NM, Grid North  
Vertical (TVD) Reference: SITE 0 0  
Section (VS) Reference: Well (0 00N,0 00E,269.51Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 04/13/08

Start Date: 04/13/2008

KSRG 0'-8900'

Company: Scientific Drilling International  
Tool: Keeper, Keeper Gyro

Engineer: Guebara/Lanier w/P&M  
Tied-to: From Surface

## Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 0 00     | 0 00        | 0 00        | 0 00      | 0 00     | 0 00      | 0 00      | 0 00             | 0 00       | 0 00        |
| 100 00   | 0 45        | 277 85      | 100 00    | 0 39     | 0 05      | -0 39     | 0 45             | 0 39       | 277 85      |
| 150 00   | 0 16        | 345 60      | 150 00    | 0 60     | 0 15      | -0 60     | 0 83             | 0 62       | 283 84      |
| 200 00   | 0 10        | 218 76      | 200 00    | 0 64     | 0 18      | -0 65     | 0 47             | 0 67       | 285 72      |
| 250 00   | 0 41        | 186 29      | 250 00    | 0 69     | -0 03     | -0 69     | 0 66             | 0 69       | 267 50      |
| 300 00   | 0 52        | 165 41      | 300 00    | 0 66     | -0 43     | -0 65     | 0 40             | 0 78       | 236 86      |
| 350 00   | 0 41        | 183 90      | 349 99    | 0 62     | -0 83     | -0 61     | 0 37             | 1 03       | 216 46      |
| 400 00   | 0 56        | 178 77      | 399 99    | 0 63     | -1 25     | -0 62     | 0 31             | 1 39       | 206 30      |
| 450 00   | 0 59        | 161 23      | 449 99    | 0 54     | -1 74     | -0 53     | 0 36             | 1 82       | 196 94      |
| 500 00   | 0 47        | 139 72      | 499 99    | 0 33     | -2 14     | -0 31     | 0 46             | 2 16       | 188 34      |
| 550 00   | 0 36        | 121 60      | 549 99    | 0 07     | -2 38     | -0 05     | 0 34             | 2 38       | 181 13      |
| 600 00   | 0 17        | 154 60      | 599 99    | -0 10    | -2 52     | 0 12      | 0 47             | 2 53       | 177 31      |
| 650 00   | 0 47        | 136 44      | 649 99    | -0 27    | -2 74     | 0 29      | 0 63             | 2 76       | 173 92      |
| 700 00   | 0 38        | 107 72      | 699 98    | -0 57    | -2 94     | 0 59      | 0 46             | 3 00       | 168 63      |
| 750 00   | 0 27        | 77 18       | 749 98    | -0 84    | -2 96     | 0 86      | 0 40             | 3 09       | 163 75      |
| 800 00   | 0 21        | 93 33       | 799 98    | -1 04    | -2 94     | 1 07      | 0 18             | 3 13       | 160 02      |
| 850 00   | 0 39        | 97 56       | 849 98    | -1 30    | -2 97     | 1 33      | 0 36             | 3 25       | 155 88      |
| 900 00   | 0 18        | 70 23       | 899 98    | -1 55    | -2 97     | 1 57      | 0 49             | 3 36       | 152 07      |
| 950 00   | 0 21        | 40 23       | 949 98    | -1 68    | -2 87     | 1 71      | 0 21             | 3 34       | 149 27      |
| 1000 00  | 0 15        | 15 13       | 999 98    | -1 76    | -2 74     | 1 78      | 0 20             | 3 27       | 146 93      |
| 1050 00  | 0 21        | 80 73       | 1049 98   | -1 87    | -2 66     | 1 89      | 0 40             | 3 26       | 144 60      |
| 1100 00  | 0 41        | 46 23       | 1099 98   | -2 09    | -2 52     | 2 11      | 0 53             | 3 29       | 140 07      |
| 1150 00  | 0 23        | 14 15       | 1149 98   | -2 24    | -2 30     | 2 26      | 0 49             | 3 23       | 135 45      |
| 1200 00  | 0 13        | 75 18       | 1199 98   | -2 32    | -2 19     | 2 34      | 0 40             | 3 21       | 133 04      |
| 1250 00  | 0 32        | 30 49       | 1249 98   | -2 45    | -2 05     | 2 47      | 0 49             | 3 21       | 129 75      |
| 1300 00  | 0 21        | 333 31      | 1299 98   | -2 48    | -1 85     | 2 50      | 0 54             | 3 11       | 126 53      |
| 1350 00  | 0 09        | 282 63      | 1349 98   | -2 40    | -1 76     | 2 42      | 0 34             | 2 99       | 126 04      |
| 1400 00  | 0 13        | 16 91       | 1399 98   | -2 38    | -1 70     | 2 40      | 0 33             | 2 94       | 125 30      |
| 1450 00  | 0 32        | 279 59      | 1449 98   | -2 26    | -1 62     | 2 28      | 0 72             | 2 79       | 125 44      |
| 1500 00  | 0 17        | 262 37      | 1499 98   | -2 05    | -1 61     | 2 06      | 0 33             | 2 62       | 127 89      |
| 1550 00  | 0 28        | 312 86      | 1549 98   | -1 89    | -1 53     | 1 90      | 0 43             | 2 44       | 128 88      |
| 1600 00  | 0 39        | 266 50      | 1599 98   | -1 63    | -1 46     | 1 64      | 0 56             | 2 20       | 131 65      |
| 1650 00  | 0 21        | 301 91      | 1649 98   | -1 38    | -1 42     | 1 39      | 0 50             | 1 99       | 135 57      |
| 1700 00  | 0 48        | 300 62      | 1699 97   | -1 13    | -1 27     | 1 14      | 0 54             | 1 70       | 138 12      |
| 1750 00  | 0 43        | 291 21      | 1749 97   | -0 77    | -1 09     | 0 78      | 0 18             | 1 34       | 144 44      |
| 1800 00  | 0 34        | 324 10      | 1799 97   | -0 51    | -0 90     | 0 52      | 0 47             | 1 04       | 150 15      |
| 1850 00  | 0 61        | 312 29      | 1849 97   | -0 23    | -0 61     | 0 24      | 0 57             | 0 65       | 158 77      |
| 1900 00  | 0 47        | 293 22      | 1899 97   | 0 15     | -0 35     | -0 15     | 0 45             | 0 38       | 203 52      |
| 1950 00  | 0 33        | 318 25      | 1949 97   | 0 44     | -0 16     | -0 43     | 0 44             | 0 46       | 250 14      |
| 2000 00  | 0 49        | 338 22      | 1999 97   | 0 61     | 0 15      | -0 61     | 0 42             | 0 63       | 283 74      |
| 2050 00  | 0 71        | 326 37      | 2049 96   | 0 86     | 0 61      | -0 86     | 0 50             | 1 05       | 305 13      |
| 2100 00  | 0 46        | 328 47      | 2099 96   | 1 13     | 1 03      | -1 14     | 0 50             | 1 54       | 312 29      |
| 2150 00  | 0 54        | 342 69      | 2149 96   | 1 30     | 1 43      | -1 31     | 0 29             | 1 94       | 317 47      |
| 2200 00  | 0 79        | 324 88      | 2199 95   | 1 56     | 1 94      | -1 58     | 0 64             | 2 50       | 320 79      |
| 2250 00  | 0 55        | 319 40      | 2249 95   | 1 91     | 2 40      | -1 94     | 0 50             | 3 08       | 321 14      |
| 2300 00  | 0 41        | 326 44      | 2299 95   | 2 17     | 2 73      | -2 19     | 0 30             | 3 50       | 321 29      |
| 2350 00  | 0 30        | 303 63      | 2349 95   | 2 37     | 2 95      | -2 40     | 0 35             | 3 81       | 320 93      |
| 2400 00  | 0 40        | 332 64      | 2399 95   | 2 56     | 3 18      | -2 59     | 0 40             | 4 10       | 320 89      |
| 2450 00  | 0 55        | 313 57      | 2449 95   | 2 81     | 3 50      | -2 84     | 0 43             | 4 51       | 320 95      |



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Drilling

# Scientific Drilling International

## Survey Report

Company: MACK ENERGY  
Field: Wildcat  
Site: Eddy County, NM  
Well: Oilers Federal #2  
Wellpath: VH - Job #32K0408249

Date: 05/04/2008 Time: 18 27.39 Page: 2  
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North  
Vertical (TVD) Reference: SITE 0.0  
Section (VS) Reference: Well (0.00N,0.00E,269 51Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 2500.00  | 0.28        | 299.99      | 2499.94   | 3.09     | 3.73      | -3.12     | 0.57             | 4.86       | 320.07      |
| 2550.00  | 0.26        | 339.39      | 2549.94   | 3.23     | 3.90      | -3.27     | 0.37             | 5.08       | 320.02      |
| 2600.00  | 0.37        | 310.46      | 2599.94   | 3.39     | 4.11      | -3.43     | 0.38             | 5.35       | 320.14      |
| 2650.00  | 0.10        | 329.16      | 2649.94   | 3.54     | 4.25      | -3.57     | 0.55             | 5.55       | 319.93      |
| 2700.00  | 0.29        | 341.82      | 2699.94   | 3.60     | 4.41      | -3.64     | 0.39             | 5.71       | 320.47      |
| 2750.00  | 0.34        | 358.93      | 2749.94   | 3.64     | 4.68      | -3.68     | 0.21             | 5.95       | 321.80      |
| 2800.00  | 0.35        | 336.42      | 2799.94   | 3.70     | 4.96      | -3.74     | 0.27             | 6.22       | 322.98      |
| 2850.00  | 0.14        | 348.55      | 2849.94   | 3.77     | 5.16      | -3.82     | 0.43             | 6.42       | 323.54      |
| 2900.00  | 0.29        | 311.79      | 2899.94   | 3.88     | 5.31      | -3.92     | 0.39             | 6.60       | 323.54      |
| 2950.00  | 0.14        | 337.99      | 2949.94   | 3.99     | 5.45      | -4.04     | 0.35             | 6.78       | 323.45      |
| 3000.00  | 0.41        | 317.03      | 2999.94   | 4.14     | 5.64      | -4.18     | 0.57             | 7.02       | 323.41      |
| 3050.00  | 0.17        | 298.90      | 3049.94   | 4.32     | 5.80      | -4.37     | 0.51             | 7.27       | 323.01      |
| 3100.00  | 0.46        | 333.78      | 3099.94   | 4.47     | 6.02      | -4.52     | 0.67             | 7.53       | 323.06      |
| 3150.00  | 0.35        | 311.01      | 3149.94   | 4.67     | 6.30      | -4.73     | 0.39             | 7.88       | 323.10      |
| 3200.00  | 0.49        | 339.43      | 3199.94   | 4.86     | 6.60      | -4.92     | 0.49             | 8.23       | 323.30      |
| 3250.00  | 0.69        | 312.86      | 3249.93   | 5.15     | 7.00      | -5.22     | 0.67             | 8.73       | 323.33      |
| 3300.00  | 0.52        | 324.30      | 3299.93   | 5.50     | 7.39      | -5.57     | 0.42             | 9.26       | 323.02      |
| 3350.00  | 0.75        | 313.62      | 3349.93   | 5.87     | 7.80      | -5.94     | 0.52             | 9.81       | 322.73      |
| 3400.00  | 0.64        | 326.53      | 3399.92   | 6.26     | 8.26      | -6.33     | 0.38             | 10.41      | 322.55      |
| 3450.00  | 0.78        | 304.02      | 3449.92   | 6.69     | 8.69      | -6.76     | 0.62             | 11.01      | 322.09      |
| 3500.00  | 0.81        | 314.39      | 3499.91   | 7.22     | 9.12      | -7.30     | 0.29             | 11.68      | 321.34      |
| 3550.00  | 0.86        | 296.62      | 3549.91   | 7.81     | 9.54      | -7.89     | 0.53             | 12.38      | 320.41      |
| 3600.00  | 0.80        | 313.09      | 3599.90   | 8.39     | 9.95      | -8.48     | 0.49             | 13.07      | 319.56      |
| 3650.00  | 0.80        | 295.99      | 3649.90   | 8.96     | 10.34     | -9.05     | 0.48             | 13.74      | 318.81      |
| 3700.00  | 0.85        | 314.58      | 3699.89   | 9.53     | 10.75     | -9.62     | 0.54             | 14.43      | 318.16      |
| 3750.00  | 0.86        | 295.45      | 3749.89   | 10.13    | 11.17     | -10.23    | 0.57             | 15.15      | 317.53      |
| 3800.00  | 0.86        | 311.49      | 3799.88   | 10.75    | 11.58     | -10.85    | 0.48             | 15.87      | 316.88      |
| 3850.00  | 0.91        | 298.14      | 3849.88   | 11.37    | 12.02     | -11.48    | 0.42             | 16.62      | 316.31      |
| 3900.00  | 0.70        | 299.71      | 3899.87   | 11.99    | 12.36     | -12.09    | 0.42             | 17.29      | 315.61      |
| 3950.00  | 0.97        | 301.36      | 3949.87   | 12.61    | 12.73     | -12.72    | 0.54             | 17.99      | 315.02      |
| 4000.00  | 0.73        | 287.67      | 3999.86   | 13.27    | 13.04     | -13.39    | 0.63             | 18.69      | 314.26      |
| 4050.00  | 0.80        | 306.28      | 4049.86   | 13.86    | 13.35     | -13.97    | 0.51             | 19.32      | 313.69      |
| 4100.00  | 0.71        | 287.50      | 4099.85   | 14.43    | 13.65     | -14.55    | 0.52             | 19.95      | 313.17      |
| 4150.00  | 0.42        | 305.43      | 4149.85   | 14.87    | 13.85     | -14.99    | 0.67             | 20.41      | 312.73      |
| 4200.00  | 0.62        | 302.22      | 4199.85   | 15.25    | 14.10     | -15.37    | 0.40             | 20.86      | 312.53      |
| 4250.00  | 0.44        | 289.82      | 4249.85   | 15.66    | 14.31     | -15.78    | 0.42             | 21.30      | 312.20      |
| 4300.00  | 0.60        | 313.29      | 4299.84   | 16.03    | 14.55     | -16.15    | 0.53             | 21.74      | 312.02      |
| 4350.00  | 0.65        | 298.88      | 4349.84   | 16.46    | 14.87     | -16.59    | 0.33             | 22.28      | 311.87      |
| 4400.00  | 0.35        | 305.02      | 4399.84   | 16.83    | 15.09     | -16.96    | 0.61             | 22.70      | 311.66      |
| 4450.00  | 0.47        | 327.76      | 4449.84   | 17.07    | 15.35     | -17.20    | 0.40             | 23.05      | 311.76      |
| 4500.00  | 0.59        | 310.77      | 4499.84   | 17.37    | 15.69     | -17.50    | 0.39             | 23.51      | 311.88      |
| 4550.00  | 0.48        | 302.04      | 4549.83   | 17.74    | 15.97     | -17.87    | 0.27             | 23.97      | 311.79      |
| 4600.00  | 0.38        | 296.00      | 4599.83   | 18.06    | 16.16     | -18.20    | 0.22             | 24.34      | 311.60      |
| 4650.00  | 0.34        | 291.50      | 4649.83   | 18.35    | 16.28     | -18.49    | 0.10             | 24.54      | 311.38      |
| 4700.00  | 0.31        | 297.19      | 4699.83   | 18.60    | 16.40     | -18.75    | 0.09             | 24.91      | 311.18      |
| 4750.00  | 0.24        | 309.23      | 4749.83   | 18.81    | 16.53     | -18.95    | 0.18             | 25.14      | 311.10      |
| 4800.00  | 0.22        | 292.69      | 4799.83   | 18.97    | 16.63     | -19.12    | 0.14             | 25.34      | 311.02      |
| 4850.00  | 0.25        | 292.64      | 4849.83   | 19.16    | 16.71     | -19.31    | 0.06             | 25.53      | 310.88      |
| 4900.00  | 0.22        | 288.30      | 4899.83   | 19.35    | 16.78     | -19.50    | 0.07             | 25.73      | 310.72      |
| 4950.00  | 0.27        | 262.87      | 4949.83   | 19.56    | 16.80     | -19.71    | 0.24             | 25.89      | 310.45      |
| 5000.00  | 0.43        | 292.95      | 4999.83   | 19.95    | 16.86     | -20.00    | 0.48             | 26.15      | 310.13      |
| 5050.00  | 0.32        | 314.16      | 5049.83   | 20.12    | 17.03     | -20.27    | 0.35             | 26.47      | 310.03      |



Scientific  
Drilling

# Scientific Drilling International Survey Report

Company: MACK ENERGY  
Field: Wildcat  
Site: Eddy County, NM  
Well: Oilers Federal #2  
Wellpath: VH - Job #32K0408249

Date: 05/04/2008 Time: 18:27:39 Page: 3  
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North  
Vertical (TVD) Reference: SITE 0 0  
Section (VS) Reference: Well (0 00N 0 00E, 269 51Az)  
Survey Calculation Method: Minimum Curvature Db: Sybase

## Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | CISD<br>ft | CISA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 5100.00  | 0.52        | 265.99      | 5099.83   | 20.45    | 17.11     | -20.60    | 0.78             | 26.77      | 309.72      |
| 5150.00  | 0.38        | 282.72      | 5149.82   | 20.84    | 17.13     | -20.98    | 0.38             | 27.09      | 309.23      |
| 5200.00  | 0.43        | 285.69      | 5199.82   | 21.18    | 17.22     | -21.33    | 0.11             | 27.41      | 308.92      |
| 5250.00  | 0.40        | 248.26      | 5249.82   | 21.52    | 17.20     | -21.67    | 0.54             | 27.67      | 308.45      |
| 5300.00  | 0.41        | 249.79      | 5299.82   | 21.85    | 17.08     | -22.00    | 0.03             | 27.85      | 307.82      |
| 5350.00  | 0.36        | 286.29      | 5349.82   | 22.17    | 17.06     | -22.32    | 0.49             | 28.09      | 307.39      |
| 5400.00  | 0.57        | 262.61      | 5399.82   | 22.57    | 17.07     | -22.71    | 0.56             | 28.41      | 306.93      |
| 5450.00  | 0.35        | 247.80      | 5449.82   | 22.96    | 16.98     | -23.10    | 0.50             | 28.67      | 306.32      |
| 5500.00  | 0.40        | 282.45      | 5499.81   | 23.27    | 16.96     | -23.41    | 0.46             | 28.91      | 305.92      |
| 5550.00  | 0.54        | 260.80      | 5549.81   | 23.67    | 16.96     | -23.82    | 0.45             | 29.24      | 305.46      |
| 5600.00  | 0.44        | 243.43      | 5599.81   | 24.08    | 16.84     | -24.22    | 0.36             | 29.50      | 304.81      |
| 5650.00  | 0.44        | 279.66      | 5649.81   | 24.44    | 16.78     | -24.58    | 0.55             | 29.77      | 304.32      |
| 5700.00  | 0.72        | 264.69      | 5699.81   | 24.94    | 16.79     | -25.08    | 0.63             | 30.18      | 303.79      |
| 5750.00  | 0.60        | 275.17      | 5749.80   | 25.51    | 16.78     | -25.66    | 0.34             | 30.66      | 303.19      |
| 5800.00  | 0.79        | 268.75      | 5799.80   | 26.12    | 16.80     | -26.26    | 0.41             | 31.18      | 302.60      |
| 5850.00  | 0.75        | 268.16      | 5849.80   | 26.79    | 16.78     | -26.94    | 0.08             | 31.73      | 301.92      |
| 5900.00  | 0.66        | 281.57      | 5899.79   | 27.40    | 16.83     | -27.54    | 0.37             | 32.28      | 301.42      |
| 5950.00  | 0.88        | 293.37      | 5949.79   | 28.03    | 17.04     | -28.18    | 0.54             | 32.93      | 301.16      |
| 6000.00  | 0.84        | 282.65      | 5999.78   | 28.74    | 17.27     | -28.89    | 0.33             | 33.66      | 300.87      |
| 6050.00  | 0.81        | 304.70      | 6049.78   | 29.39    | 17.55     | -29.54    | 0.63             | 34.36      | 300.72      |
| 6100.00  | 0.94        | 291.99      | 6099.77   | 30.05    | 17.91     | -30.21    | 0.47             | 35.12      | 300.66      |
| 6150.00  | 0.81        | 300.59      | 6149.77   | 30.74    | 18.24     | -30.89    | 0.37             | 35.88      | 300.56      |
| 6200.00  | 0.83        | 312.76      | 6199.76   | 31.30    | 18.67     | -31.46    | 0.35             | 36.58      | 300.68      |
| 6250.00  | 0.91        | 298.95      | 6249.75   | 31.91    | 19.10     | -32.08    | 0.45             | 37.33      | 300.78      |
| 6300.00  | 0.78        | 323.26      | 6299.75   | 32.46    | 19.57     | -32.63    | 0.76             | 38.05      | 300.95      |
| 6350.00  | 0.82        | 324.54      | 6349.74   | 32.86    | 20.13     | -33.04    | 0.09             | 38.69      | 301.36      |
| 6400.00  | 0.66        | 328.89      | 6399.74   | 33.22    | 20.67     | -33.39    | 0.34             | 39.27      | 301.76      |
| 6450.00  | 0.68        | 336.16      | 6449.74   | 33.48    | 21.19     | -33.66    | 0.17             | 39.78      | 302.19      |
| 6500.00  | 0.67        | 318.05      | 6499.73   | 33.79    | 21.68     | -33.98    | 0.43             | 40.30      | 302.54      |
| 6550.00  | 0.48        | 334.15      | 6549.73   | 34.08    | 22.08     | -34.27    | 0.50             | 40.76      | 302.80      |
| 6600.00  | 0.39        | 280.68      | 6599.73   | 34.33    | 22.30     | -34.52    | 0.80             | 41.10      | 302.86      |
| 6650.00  | 3.19        | 201.84      | 6649.70   | 35.03    | 21.04     | -35.21    | 6.28             | 41.02      | 300.87      |
| 6700.00  | 9.27        | 205.53      | 6699.38   | 37.33    | 16.11     | -37.46    | 12.18            | 40.78      | 293.27      |
| 6750.00  | 15.85       | 213.07      | 6748.16   | 42.87    | 6.75      | -42.93    | 13.54            | 43.46      | 278.93      |
| 6800.00  | 20.85       | 225.81      | 6795.63   | 53.09    | -5.19     | -53.05    | 12.77            | 53.30      | 264.41      |
| 6850.00  | 25.20       | 235.11      | 6841.65   | 68.32    | -17.49    | -68.17    | 11.32            | 70.38      | 255.61      |
| 6900.00  | 30.64       | 246.29      | 6885.84   | 88.84    | -28.72    | -88.60    | 15.06            | 93.14      | 252.04      |
| 6950.00  | 36.59       | 254.11      | 6927.48   | 114.95   | -37.94    | -114.63   | 14.70            | 120.75     | 251.69      |
| 7000.00  | 42.36       | 257.35      | 6966.06   | 145.82   | -45.71    | -145.43   | 12.25            | 152.44     | 252.55      |
| 7050.00  | 46.33       | 258.56      | 7001.81   | 180.05   | -52.99    | -179.60   | 8.12             | 187.26     | 253.56      |
| 7100.00  | 49.08       | 261.06      | 7035.46   | 216.50   | -59.51    | -216.00   | 6.63             | 224.05     | 254.60      |
| 7150.00  | 54.75       | 263.51      | 7066.29   | 255.53   | -64.76    | -254.98   | 11.98            | 263.08     | 255.75      |
| 7200.00  | 61.84       | 265.78      | 7092.56   | 297.88   | -68.70    | -297.31   | 14.70            | 305.14     | 256.99      |
| 7250.00  | 70.09       | 267.93      | 7112.90   | 343.46   | -71.17    | -342.86   | 16.96            | 350.17     | 258.27      |
| 7300.00  | 78.20       | 269.03      | 7126.55   | 391.51   | -72.44    | -390.90   | 16.36            | 397.56     | 259.50      |
| 7350.00  | 84.55       | 269.86      | 7134.05   | 440.91   | -72.91    | -440.31   | 12.81            | 446.30     | 260.60      |
| 7400.00  | 88.96       | 270.59      | 7136.88   | 490.82   | -72.72    | -490.21   | 8.94             | 495.58     | 261.56      |
| 7450.00  | 88.37       | 270.60      | 7138.04   | 540.79   | -72.20    | -540.20   | 1.18             | 545.00     | 262.39      |
| 7500.00  | 87.92       | 270.76      | 7139.66   | 590.76   | -71.61    | -590.17   | 0.96             | 594.50     | 263.08      |
| 7550.00  | 89.35       | 271.17      | 7140.85   | 640.73   | -70.76    | -640.14   | 2.98             | 644.04     | 263.69      |
| 7600.00  | 91.09       | 272.18      | 7140.66   | 690.69   | -69.30    | -690.12   | 4.02             | 693.59     | 264.27      |
| 7650.00  | 93.20       | 271.97      | 7138.79   | 740.60   | -67.49    | -740.05   | 4.24             | 743.12     | 264.79      |
| 7700.00  | 91.44       | 271.82      | 7136.77   | 790.51   | -65.84    | -789.98   | 3.53             | 792.72     | 265.24      |



Scientific  
Drilling

# Scientific Drilling International

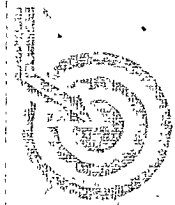
## Survey Report

Company: MACK ENERGY  
Field: Wildcat  
Site: Eddy County NM  
Well: Oilers Federal #2  
Wellpath: VH - Job #32K0408249

Date: 05/04/2008 Time: 18:27:39 Page: 4  
Co-ordinate(NE) Reference: Site Eddy County NM, Grid North  
Vertical (TVD) Reference: SITE 0 0  
Section (VS) Reference: Well (0 00N,0 00E.269 51Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

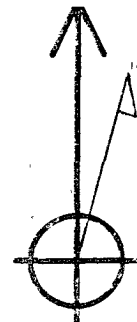
### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 7750.00  | 89.65       | 271.77      | 7136.29   | 840.47   | -64.27    | -839.95   | 3.58             | 842.41     | 265.62      |
| 7800.00  | 89.34       | 271.81      | 7136.73   | 890.43   | -62.71    | -889.92   | 0.63             | 892.13     | 265.97      |
| 7850.00  | 89.35       | 271.83      | 7137.30   | 940.38   | -61.13    | -939.90   | 0.04             | 941.88     | 266.28      |
| 7900.00  | 87.91       | 271.80      | 7138.50   | 990.33   | -59.54    | -989.85   | 2.88             | 991.64     | 266.56      |
| 7950.00  | 89.30       | 271.61      | 7139.71   | 1040.28  | -58.05    | -1039.82  | 2.81             | 1041.44    | 266.80      |
| 8000.00  | 89.51       | 271.31      | 7140.23   | 1090.24  | -56.78    | -1089.80  | 0.73             | 1091.28    | 267.02      |
| 8050.00  | 90.64       | 271.11      | 7140.17   | 1140.22  | -55.73    | -1139.79  | 2.30             | 1141.15    | 267.20      |
| 8100.00  | 92.83       | 271.36      | 7138.65   | 1190.17  | -54.65    | -1189.75  | 4.41             | 1191.00    | 267.37      |
| 8150.00  | 92.39       | 271.17      | 7136.38   | 1240.10  | -53.55    | -1239.68  | 0.96             | 1240.84    | 267.53      |
| 8200.00  | 92.70       | 270.97      | 7134.16   | 1290.03  | -52.61    | -1289.63  | 0.74             | 1290.70    | 267.66      |
| 8250.00  | 90.82       | 269.80      | 7132.62   | 1340.00  | -52.28    | -1339.60  | 4.43             | 1340.62    | 267.77      |
| 8300.00  | 90.16       | 269.40      | 7132.19   | 1389.99  | -52.63    | -1389.59  | 1.54             | 1390.59    | 267.83      |
| 8350.00  | 90.47       | 268.59      | 7131.92   | 1439.99  | -53.50    | -1439.59  | 1.73             | 1440.58    | 267.87      |
| 8400.00  | 90.11       | 267.66      | 7131.67   | 1489.97  | -55.14    | -1489.56  | 1.99             | 1490.58    | 267.88      |
| 8450.00  | 91.61       | 266.71      | 7130.92   | 1539.93  | -57.59    | -1539.49  | 3.55             | 1540.57    | 267.86      |
| 8500.00  | 92.13       | 267.22      | 7129.28   | 1589.85  | -60.24    | -1589.39  | 1.46             | 1590.53    | 267.83      |
| 8550.00  | 94.71       | 268.31      | 7126.30   | 1639.73  | -62.19    | -1639.26  | 5.60             | 1640.44    | 267.83      |
| 8600.00  | 94.77       | 268.12      | 7122.17   | 1689.55  | -63.74    | -1689.07  | 0.40             | 1690.27    | 267.84      |
| 8650.00  | 94.47       | 268.23      | 7118.14   | 1739.37  | -65.33    | -1738.88  | 0.64             | 1740.10    | 267.85      |
| 8700.00  | 94.66       | 268.20      | 7114.16   | 1789.20  | -66.88    | -1788.69  | 0.38             | 1789.94    | 267.86      |
| 8750.00  | 93.63       | 268.18      | 7110.55   | 1839.06  | -68.45    | -1838.54  | 2.06             | 1839.81    | 267.87      |
| 8800.00  | 95.15       | 268.43      | 7106.72   | 1888.90  | -69.93    | -1888.37  | 3.08             | 1889.66    | 267.88      |
| 8850.00  | 95.73       | 268.48      | 7101.98   | 1938.66  | -71.27    | -1938.12  | 1.16             | 1939.43    | 267.89      |
| 8900.00  | 95.07       | 268.43      | 7097.28   | 1988.43  | -72.61    | -1987.88  | 1.32             | 1989.21    | 267.91      |
| 8902.30  | 95.10       | 268.44      | 7097.07   | 1990.72  | -72.68    | -1990.17  | 1.37             | 1991.50    | 267.91      |



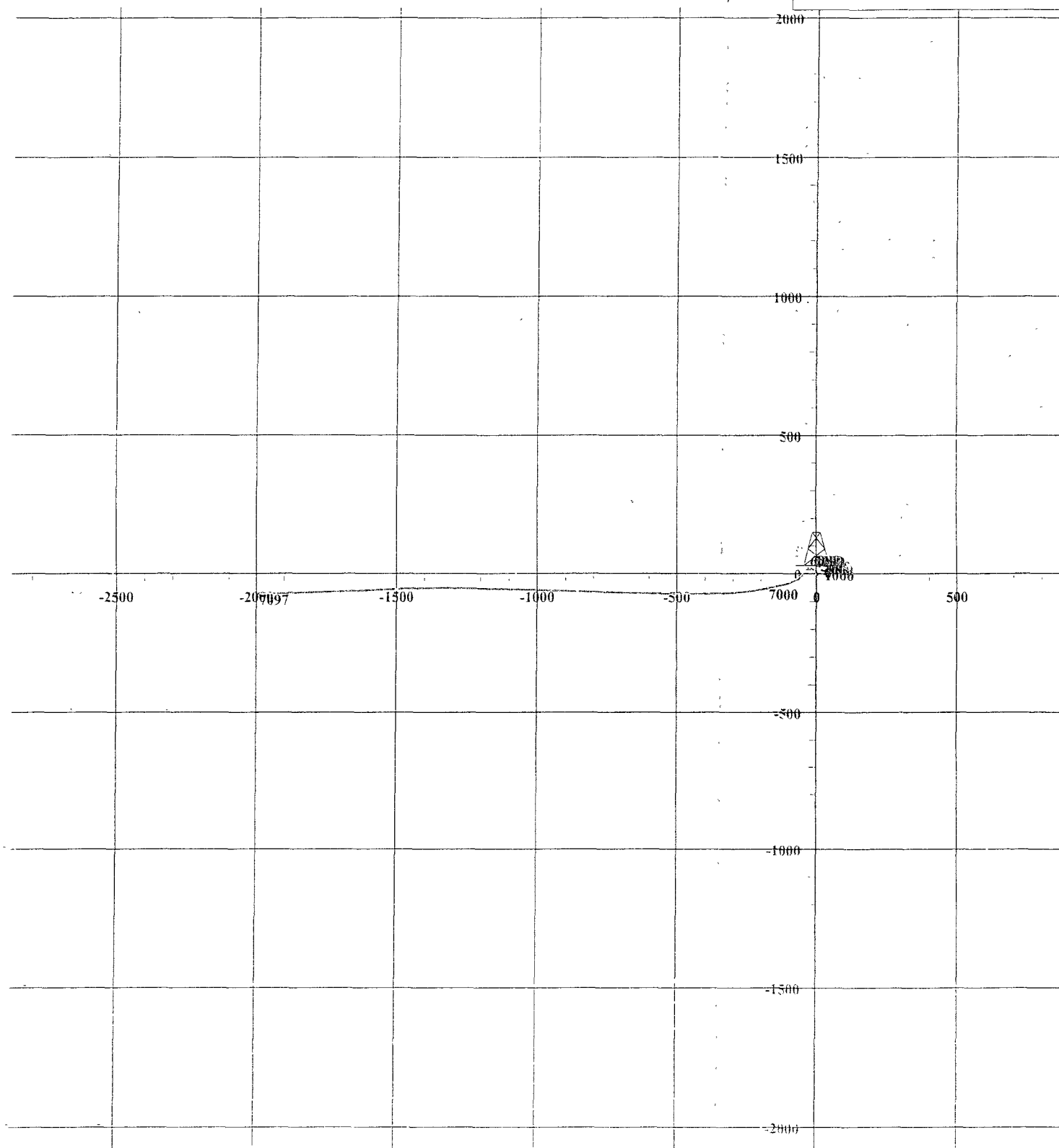
Scientific  
Drilling

Field: Wadcat  
Site: Eddy County, NM  
Well: Oilers Federal #2  
Wellpath: VH - Job #32K0408249  
Survey: 04/13/08



Converts to Grid North  
True North 0.0°  
Magnetic North 0.0°  
Magnetic Field  
Strength 0.0  
Dip Angle 0.0°  
Date 05/01/2008  
Model 12 2.0.0

South(-)/North(+) [500ft/m]



West(-) East(+) [500ft/m]