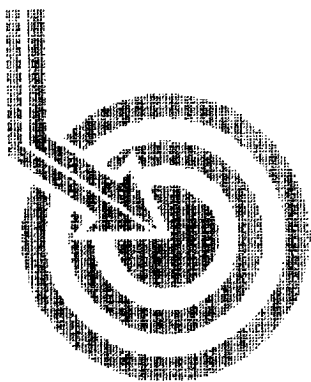




# Scientific Drilling



TEXACO E & P INC.

Field: Central Vacuum  
Site: Lea County, NM  
Well: CVU #241  
Wellpath: HH - Job #32D0201066  
Survey: 2/5/01-2/16/01

SUR: 74°N & 1940'E

B - 36 - 17s - 34e

BHL: 111°N & 3260'E

C - 36 - 17s - 34e

30-025-35213

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

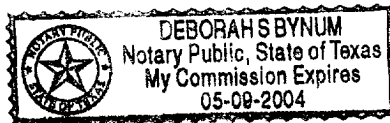
*[Signature]*

.....Company Representative

Notorized this date 23<sup>rd</sup> of March, 2001.

*Deborah Sue Bynum*

Notary Signature  
County of Midland  
State of Texas



# Scientific Drilling International

## Survey Report

Company: TEXACO E & P INC.  
 Field: Central Vacuum  
 Site: Lea County, NM  
 Well: CVU #241  
 Wellpath: VH - Job #32K0201068

Date: 3/23/2001 Time: 12:15:27 Page: 1  
 Co-ordinate(N/E) Reference: Site: Lea County, NM, True North  
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level  
 Section (VS) Reference: Well (0.0E,0.0N,271.3Azi)  
 Survey Calculation Method: Minimum Curvature

Survey: 2/5/01  
 KSRG 0'-4515'

Start Date: 3/23/2001

Company: Scientific Drilling Internatio  
 Tool: KEEPER

Engineer: Gary DeSpain

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | ChD<br>ft | ChA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|-----------|------------|
| 0.0      | 0.00        | 0.00        | 0.0       | 0.0      | 0.0       | 0.0       | 0.0       | 0.00       |
| 100.0    | 0.41        | 144.55      | 100.0     | -0.2     | -0.3      | 0.2       | 0.4       | 144.55     |
| 200.0    | 0.61        | 162.04      | 200.0     | -0.6     | -1.1      | 0.6       | 1.2       | 152.00     |
| 300.0    | 0.70        | 165.92      | 300.0     | -0.9     | -2.2      | 0.9       | 2.4       | 157.82     |
| 400.0    | 0.71        | 164.00      | 400.0     | -1.3     | -3.4      | 1.2       | 3.6       | 160.26     |
| 500.0    | 0.74        | 169.19      | 500.0     | -1.6     | -4.6      | 1.5       | 4.8       | 161.93     |
| 600.0    | 0.73        | 178.90      | 600.0     | -1.8     | -5.9      | 1.6       | 6.1       | 164.44     |
| 700.0    | 0.84        | 173.69      | 700.0     | -1.9     | -7.2      | 1.7       | 7.4       | 166.57     |
| 800.0    | 0.74        | 175.76      | 799.9     | -2.1     | -8.6      | 1.9       | 8.8       | 167.83     |
| 900.0    | 1.16        | 172.81      | 899.9     | -2.3     | -10.3     | 2.0       | 10.5      | 168.80     |
| 1000.0   | 1.19        | 173.40      | 999.9     | -2.6     | -12.3     | 2.3       | 12.5      | 169.51     |
| 1100.0   | 1.29        | 175.40      | 1099.9    | -2.8     | -14.5     | 2.5       | 14.7      | 170.23     |
| 1200.0   | 1.29        | 191.95      | 1199.9    | -2.7     | -16.7     | 2.3       | 16.8      | 172.00     |
| 1300.0   | 1.34        | 197.55      | 1299.8    | -2.2     | -18.9     | 1.8       | 19.0      | 174.68     |
| 1400.0   | 1.36        | 200.38      | 1399.8    | -1.5     | -21.1     | 1.0       | 21.1      | 177.31     |
| 1500.0   | 1.32        | 205.45      | 1499.8    | -0.6     | -23.3     | 0.1       | 23.3      | 179.79     |
| 1600.0   | 1.21        | 201.23      | 1599.8    | 0.2      | -25.3     | -0.8      | 25.3      | 181.79     |
| 1700.0   | 1.17        | 198.75      | 1699.7    | 0.9      | -27.2     | -1.5      | 27.3      | 183.16     |
| 1800.0   | 1.25        | 199.26      | 1799.7    | 1.5      | -29.2     | -2.2      | 29.3      | 184.28     |
| 1900.0   | 0.93        | 194.43      | 1899.7    | 2.0      | -31.1     | -2.8      | 31.2      | 185.06     |
| 2000.0   | 0.52        | 173.46      | 1999.7    | 2.2      | -32.3     | -2.9      | 32.4      | 185.14     |
| 2100.0   | 0.49        | 119.70      | 2099.7    | 1.7      | -33.0     | -2.5      | 33.1      | 184.30     |
| 2200.0   | 0.76        | 95.80       | 2199.7    | 0.7      | -33.2     | -1.4      | 33.3      | 182.50     |
| 2300.0   | 0.92        | 84.72       | 2299.7    | -0.8     | -33.2     | 0.0       | 33.2      | 179.98     |
| 2400.0   | 1.25        | 70.31       | 2399.6    | -2.6     | -32.8     | 1.8       | 32.8      | 176.79     |
| 2500.0   | 1.79        | 76.46       | 2499.6    | -5.1     | -32.1     | 4.4       | 32.4      | 172.22     |
| 2600.0   | 1.86        | 77.21       | 2599.6    | -8.2     | -31.3     | 7.5       | 32.2      | 166.57     |
| 2700.0   | 2.03        | 81.57       | 2699.5    | -11.5    | -30.7     | 10.8      | 32.6      | 160.60     |
| 2800.0   | 1.85        | 89.25       | 2799.4    | -14.9    | -30.4     | 14.2      | 33.6      | 155.01     |
| 2900.0   | 1.67        | 94.32       | 2899.4    | -17.9    | -30.5     | 17.3      | 35.1      | 150.52     |
| 3000.0   | 1.58        | 92.87       | 2999.4    | -20.8    | -30.7     | 20.1      | 36.7      | 146.81     |
| 3100.0   | 1.05        | 87.30       | 3099.3    | -23.1    | -30.7     | 22.4      | 38.0      | 143.94     |
| 3200.0   | 0.75        | 101.26      | 3199.3    | -24.6    | -30.8     | 23.9      | 39.0      | 142.16     |
| 3300.0   | 0.77        | 100.45      | 3299.3    | -25.9    | -31.1     | 25.2      | 40.0      | 140.91     |
| 3400.0   | 0.61        | 116.00      | 3399.3    | -27.1    | -31.4     | 26.4      | 41.0      | 139.99     |
| 3500.0   | 0.34        | 143.43      | 3499.3    | -27.7    | -31.9     | 27.0      | 41.8      | 139.71     |
| 3600.0   | 0.23        | 178.65      | 3599.3    | -27.9    | -32.3     | 27.2      | 42.3      | 139.91     |
| 3700.0   | 0.32        | 180.26      | 3699.3    | -27.9    | -32.8     | 27.2      | 42.6      | 140.32     |
| 3800.0   | 0.52        | 180.80      | 3799.3    | -28.0    | -33.5     | 27.2      | 43.2      | 140.95     |
| 3900.0   | 0.58        | 185.24      | 3899.3    | -27.9    | -34.5     | 27.2      | 43.9      | 141.79     |
| 4000.0   | 0.62        | 196.56      | 3999.3    | -27.8    | -35.5     | 27.0      | 44.6      | 142.81     |
| 4100.0   | 0.72        | 193.53      | 4099.3    | -27.5    | -36.6     | 26.7      | 45.3      | 143.98     |
| 4200.0   | 0.77        | 191.83      | 4199.3    | -27.2    | -37.9     | 26.4      | 46.2      | 145.19     |
| 4300.0   | 0.74        | 182.91      | 4299.3    | -27.1    | -39.2     | 26.2      | 47.2      | 146.26     |
| 4400.0   | 0.70        | 155.37      | 4399.3    | -27.3    | -40.4     | 26.4      | 48.3      | 146.83     |
| 4500.0   | 1.13        | 144.00      | 4499.2    | -28.2    | -41.8     | 27.3      | 49.9      | 146.88     |
| 4515.0   | 1.01        | 144.81      | 4514.2    | -28.4    | -42.0     | 27.4      | 50.2      | 146.87     |

# Scientific Drilling International

## Survey Report

**Company:** TEXACO E & P INC.  
**Field:** Central Vacuum  
**Site:** Lea County, NM  
**Well:** CVU #241  
**Wellpath:** UL - Job #32D0201066

**Date:** 3/23/2001 **Time:** 12:28:59 **Page:** 1  
**Co-ordinate (N/E) Reference:** Site: Lea County, NM, True North  
**Vertical (TVD) Reference:** SITE 0.0 above Mean Sea Level  
**Section (VS) Reference:** Well (0.0E, 0.0N, 271.3Azi)  
**Survey Calculation Method:** Minimum Curvature

**Survey:** 2/7/01-2/13/01  
 MWD 4204'-5664'

**Start Date:** 3/23/2001

**Company:** SDI w/Unidril  
**Tool:** MWD

**Engineer:** Lamb/Grossie

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | ChD<br>ft | ChA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|-----------|------------|
| 4204.0   | 0.77        | 191.83      | 4203.3    | -28.4    | -38.0     | 26.4      | 46.2      | 145.23     |
| 4285.0   | 24.80       | 279.00      | 4592.7    | -11.2    | -39.8     | 10.3      | 41.1      | 165.56     |
| 4316.0   | 34.20       | 273.50      | 4619.7    | 4.0      | -38.3     | -4.9      | 38.6      | 187.29     |
| 4348.0   | 43.30       | 269.70      | 4644.6    | 24.0     | -37.8     | -24.9     | 45.3      | 213.37     |
| 4380.0   | 52.60       | 267.50      | 4666.0    | 47.7     | -38.4     | -48.6     | 62.0      | 231.69     |
| 4411.0   | 62.00       | 265.80      | 4682.8    | 73.7     | -40.0     | -74.6     | 84.6      | 241.84     |
| 4442.0   | 71.40       | 267.10      | 4695.0    | 102.0    | -41.7     | -103.0    | 111.1     | 247.96     |
| 4473.0   | 77.60       | 268.10      | 4703.3    | 131.8    | -42.9     | -132.8    | 139.6     | 252.08     |
| 4506.0   | 81.10       | 269.50      | 4709.4    | 164.2    | -43.6     | -165.3    | 170.9     | 255.21     |
| 4537.0   | 85.00       | 270.60      | 4713.1    | 195.0    | -43.6     | -196.0    | 200.8     | 257.46     |
| 4569.0   | 89.50       | 270.80      | 4714.7    | 226.9    | -43.2     | -228.0    | 232.0     | 259.27     |
| 4601.0   | 93.50       | 270.10      | 4713.8    | 258.9    | -43.0     | -260.0    | 263.5     | 260.62     |
| 4632.0   | 95.10       | 269.80      | 4711.5    | 289.8    | -43.0     | -290.9    | 294.0     | 261.59     |
| 4664.0   | 95.50       | 269.60      | 4708.6    | 321.7    | -43.1     | -322.7    | 325.6     | 262.38     |
| 4728.0   | 93.60       | 271.10      | 4703.5    | 385.5    | -42.8     | -386.5    | 388.9     | 263.69     |
| 4760.0   | 93.50       | 271.60      | 4701.5    | 417.4    | -42.0     | -418.5    | 420.6     | 264.27     |
| 4791.0   | 93.60       | 272.30      | 4699.6    | 448.3    | -41.0     | -449.4    | 451.2     | 264.79     |
| 4823.0   | 93.20       | 272.80      | 4697.7    | 480.3    | -39.5     | -481.3    | 482.9     | 265.30     |
| 4855.0   | 92.90       | 271.50      | 4696.0    | 512.2    | -38.3     | -513.2    | 514.7     | 265.73     |
| 4887.0   | 92.80       | 271.50      | 4694.4    | 544.2    | -37.5     | -545.2    | 546.5     | 266.07     |
| 4919.0   | 94.20       | 271.00      | 4692.4    | 576.1    | -36.8     | -577.1    | 578.3     | 266.35     |
| 4950.0   | 94.00       | 271.60      | 4690.2    | 607.0    | -36.1     | -608.0    | 609.1     | 266.60     |
| 4982.0   | 93.90       | 272.20      | 4688.0    | 639.0    | -35.0     | -639.9    | 640.9     | 266.87     |
| 5014.0   | 94.30       | 270.30      | 4685.7    | 670.9    | -34.3     | -671.8    | 672.7     | 267.07     |
| 5045.0   | 95.50       | 269.40      | 4683.1    | 701.8    | -34.4     | -702.7    | 703.6     | 267.20     |
| 5077.0   | 96.70       | 270.30      | 4679.7    | 733.6    | -34.5     | -734.5    | 735.3     | 267.31     |
| 5108.0   | 96.80       | 270.50      | 4676.0    | 764.3    | -34.3     | -765.3    | 766.1     | 267.43     |
| 5140.0   | 92.50       | 269.80      | 4673.4    | 796.2    | -34.2     | -797.2    | 797.9     | 267.54     |
| 5172.0   | 88.60       | 268.60      | 4673.1    | 828.2    | -34.7     | -829.2    | 829.9     | 267.61     |
| 5204.0   | 87.40       | 268.00      | 4674.2    | 860.1    | -35.6     | -861.2    | 861.9     | 267.63     |
| 5236.0   | 87.10       | 267.60      | 4675.8    | 892.0    | -36.8     | -893.1    | 893.9     | 267.64     |
| 5267.0   | 87.30       | 267.30      | 4677.3    | 922.9    | -38.2     | -924.0    | 924.8     | 267.63     |
| 5299.0   | 88.10       | 267.60      | 4678.6    | 954.8    | -39.6     | -956.0    | 956.8     | 267.63     |
| 5331.0   | 88.50       | 270.00      | 4679.5    | 986.8    | -40.3     | -988.0    | 988.8     | 267.66     |
| 5363.0   | 88.90       | 270.70      | 4680.3    | 1018.8   | -40.1     | -1019.9   | 1020.7    | 267.75     |
| 5394.0   | 86.20       | 270.90      | 4681.6    | 1049.7   | -39.7     | -1050.9   | 1051.7    | 267.84     |
| 5426.0   | 83.30       | 270.70      | 4684.5    | 1081.6   | -39.2     | -1082.8   | 1083.5    | 267.93     |
| 5458.0   | 82.90       | 270.50      | 4688.3    | 1113.4   | -38.9     | -1114.5   | 1115.2    | 268.00     |
| 5490.0   | 83.20       | 270.30      | 4692.2    | 1145.1   | -38.7     | -1146.3   | 1147.0    | 268.07     |
| 5521.0   | 83.60       | 270.30      | 4695.8    | 1175.9   | -38.5     | -1177.1   | 1177.7    | 268.13     |
| 5553.0   | 82.30       | 270.00      | 4699.7    | 1207.7   | -38.4     | -1208.9   | 1209.5    | 268.18     |
| 5585.0   | 81.80       | 269.40      | 4704.1    | 1239.3   | -38.6     | -1240.5   | 1241.1    | 268.22     |
| 5616.0   | 82.00       | 269.20      | 4708.5    | 1270.0   | -39.0     | -1271.2   | 1271.8    | 268.24     |
| 5622.0   | 82.10       | 269.00      | 4709.3    | 1276.0   | -39.1     | -1277.2   | 1277.8    | 268.25     |
| 5664.0   | 82.30       | 269.00      | 4715.0    | 1317.5   | -39.8     | -1318.8   | 1319.4    | 268.27     |

# Scientific Drilling International

## Survey Report

|                                                                                                                                                                    |                                                                                                                                                                        |                                                                                                                                                                          |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Company:</b> TEXACO E & P INC.<br><b>Field:</b> Central Vacuum<br><b>Site:</b> Lea County, NM<br><b>Well:</b> CVU #241<br><b>Wellpath:</b> LL - Job #32D0201066 | <b>Date:</b> 3/23/2001<br><b>Co-ordinate(NE) Reference:</b><br><b>Vertical (TVD) Reference:</b><br><b>Section (VS) Reference:</b><br><b>Survey Calculation Method:</b> | <b>Time:</b> 12:32:00<br><b>Site:</b> Lea County, NM, True North<br><b>SITE</b> 0.0 above Mean Sea Level<br><b>Well</b> (0.0E,0.0N,271.3Azi)<br><b>Minimum Curvature</b> | <b>Page:</b> 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|

|                                                   |                              |              |
|---------------------------------------------------|------------------------------|--------------|
| <b>Survey:</b> 2/6/01-2/10/01<br>MWD 4530'-5988'  | <b>Start Date:</b> 3/23/2001 |              |
| <b>Company:</b> SDI w/Unidril<br><b>Tool:</b> MWD | <b>Engineer:</b>             | Lamb/Grossie |

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------|-------------|
| 4515.0   | 1.01        | 144.81      | 4514.2    | -28.4    | -42.0     | 27.4      | 50.2       | 146.87      |
| 4530.0   | 1.01        | 144.81      | 4529.2    | -28.5    | -42.2     | 27.6      | 50.4       | 146.86      |
| 4580.0   | 15.30       | 271.00      | 4578.7    | -22.1    | -42.5     | 21.2      | 47.5       | 153.49      |
| 4590.0   | 18.30       | 272.30      | 4588.2    | -19.3    | -42.4     | 18.3      | 46.2       | 156.65      |
| 4600.0   | 21.20       | 271.40      | 4597.6    | -15.9    | -42.3     | 14.9      | 44.8       | 160.56      |
|          |             |             |           |          |           |           |            |             |
| 4631.0   | 30.20       | 274.50      | 4625.6    | -2.5     | -41.5     | 1.5       | 41.5       | 177.91      |
| 4663.0   | 43.70       | 274.60      | 4651.1    | 16.7     | -40.0     | -17.6     | 43.7       | 203.77      |
| 4694.0   | 57.90       | 271.30      | 4670.6    | 40.7     | -38.8     | -41.5     | 56.9       | 226.93      |
| 4726.0   | 72.70       | 269.30      | 4683.9    | 69.6     | -38.7     | -70.5     | 80.5       | 241.24      |
| 4758.0   | 84.30       | 268.80      | 4690.3    | 100.9    | -39.2     | -101.8    | 109.1      | 248.93      |
|          |             |             |           |          |           |           |            |             |
| 4790.0   | 88.80       | 269.30      | 4692.2    | 132.8    | -39.8     | -133.8    | 139.5      | 253.45      |
| 4821.0   | 90.20       | 270.10      | 4692.5    | 163.8    | -39.9     | -164.8    | 169.5      | 256.38      |
| 4853.0   | 90.90       | 270.50      | 4692.2    | 195.8    | -39.8     | -196.8    | 200.7      | 258.58      |
| 4885.0   | 91.40       | 270.80      | 4691.6    | 227.8    | -39.4     | -228.7    | 232.1      | 260.23      |
| 4917.0   | 91.90       | 271.10      | 4690.6    | 259.8    | -38.9     | -260.7    | 263.6      | 261.52      |
|          |             |             |           |          |           |           |            |             |
| 4949.0   | 92.50       | 271.50      | 4689.4    | 291.8    | -38.1     | -292.7    | 295.2      | 262.58      |
| 4981.0   | 95.30       | 270.30      | 4687.2    | 323.7    | -37.6     | -324.6    | 326.8      | 263.39      |
| 5013.0   | 97.00       | 270.20      | 4683.8    | 355.5    | -37.5     | -356.4    | 358.4      | 263.99      |
| 5045.0   | 97.50       | 270.80      | 4679.8    | 387.2    | -37.2     | -388.2    | 390.0      | 264.52      |
| 5077.0   | 98.10       | 270.10      | 4675.4    | 418.9    | -37.0     | -419.9    | 421.5      | 264.97      |
|          |             |             |           |          |           |           |            |             |
| 5108.0   | 98.60       | 271.70      | 4670.9    | 449.6    | -36.5     | -450.5    | 452.0      | 265.37      |
| 5140.0   | 98.50       | 272.10      | 4666.2    | 481.2    | -35.4     | -482.2    | 483.5      | 265.80      |
| 5172.0   | 96.70       | 271.10      | 4661.9    | 513.0    | -34.6     | -513.9    | 515.0      | 266.15      |
| 5204.0   | 95.60       | 270.40      | 4658.5    | 544.8    | -34.1     | -545.7    | 546.8      | 266.42      |
| 5235.0   | 96.10       | 270.50      | 4655.3    | 575.6    | -33.9     | -576.5    | 577.5      | 266.64      |
|          |             |             |           |          |           |           |            |             |
| 5267.0   | 96.80       | 270.60      | 4651.8    | 607.4    | -33.6     | -608.3    | 609.2      | 266.84      |
| 5299.0   | 97.20       | 270.80      | 4647.9    | 639.2    | -33.2     | -640.1    | 640.9      | 267.03      |
| 5331.0   | 97.60       | 271.00      | 4643.7    | 670.9    | -32.7     | -671.8    | 672.6      | 267.21      |
| 5363.0   | 95.30       | 269.90      | 4640.1    | 702.7    | -32.5     | -703.6    | 704.4      | 267.36      |
| 5395.0   | 95.40       | 269.20      | 4637.2    | 734.5    | -32.7     | -735.5    | 736.2      | 267.45      |
|          |             |             |           |          |           |           |            |             |
| 5427.0   | 95.20       | 268.90      | 4634.2    | 766.4    | -33.2     | -767.3    | 768.0      | 267.52      |
| 5458.0   | 95.40       | 268.50      | 4631.3    | 797.2    | -33.9     | -798.2    | 798.9      | 267.57      |
| 5490.0   | 95.40       | 268.50      | 4628.3    | 829.0    | -34.8     | -830.0    | 830.8      | 267.60      |
| 5523.0   | 92.10       | 268.80      | 4626.2    | 861.9    | -35.5     | -862.9    | 863.7      | 267.64      |
| 5554.0   | 88.70       | 269.00      | 4625.9    | 892.9    | -36.1     | -893.9    | 894.7      | 267.69      |
|          |             |             |           |          |           |           |            |             |
| 5586.0   | 85.40       | 269.20      | 4627.6    | 924.8    | -36.6     | -925.9    | 926.6      | 267.73      |
| 5618.0   | 82.20       | 269.30      | 4631.1    | 956.6    | -37.1     | -957.7    | 958.4      | 267.78      |
| 5648.0   | 79.90       | 268.70      | 4635.7    | 986.2    | -37.6     | -987.3    | 988.0      | 267.82      |
| 5680.0   | 80.30       | 268.80      | 4641.2    | 1017.7   | -38.3     | -1018.8   | 1019.6     | 267.85      |
| 5712.0   | 78.50       | 269.20      | 4647.1    | 1049.1   | -38.8     | -1050.3   | 1051.0     | 267.88      |
|          |             |             |           |          |           |           |            |             |
| 5745.0   | 79.00       | 269.20      | 4653.5    | 1081.5   | -39.3     | -1082.6   | 1083.4     | 267.92      |
| 5776.0   | 80.80       | 269.30      | 4659.0    | 1112.0   | -39.7     | -1113.2   | 1113.9     | 267.96      |
| 5818.0   | 81.00       | 269.40      | 4665.6    | 1153.4   | -40.1     | -1154.6   | 1155.3     | 268.01      |
| 5850.0   | 76.00       | 271.00      | 4672.0    | 1184.8   | -40.0     | -1186.0   | 1186.6     | 268.07      |
| 5882.0   | 76.00       | 271.20      | 4679.7    | 1215.8   | -39.4     | -1217.0   | 1217.7     | 268.14      |
|          |             |             |           |          |           |           |            |             |
| 5914.0   | 76.50       | 271.30      | 4687.3    | 1246.9   | -38.8     | -1248.1   | 1248.7     | 268.22      |
| 5946.0   | 77.00       | 271.10      | 4694.7    | 1278.0   | -38.1     | -1279.2   | 1279.8     | 268.29      |
| 5978.0   | 77.00       | 271.30      | 4701.9    | 1309.2   | -37.4     | -1310.4   | 1310.9     | 268.36      |

# Scientific Drilling International

## Survey Report

**Company:** TEXACO E & P INC.  
**Field:** Central Vacuum  
**Site:** Lea County, NM  
**Well:** CVU #241  
**Wellpath:** LL - Job #32D0201066

**Date:** 3/23/2001      **Time:** 12:32:00      **Page:** 2  
**Co-ordinate(NE) Reference:** Site: Lea County, NM, True North  
**Vertical (TVD) Reference:** SITE 0.0 above Mean Sea Level  
**Section (VS) Reference:** Well (0.0E,0.0N,271.3Azi)  
**Survey Calculation Method:** Minimum Curvature

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------|-------------|
| 5988.0   | 77.50       | 271.60      | 4704.1    | 1319.0   | -37.2     | -1320.2   | 1320.7     | 268.39      |