

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-33335

5. Indicate Type of Lease

STATE ☒ FEE

6. State Oil / Gas Lease

B-155-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. Type of Completion:

NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RES. ☐ OTHER ☐ HORIZONTAL ☐

2. Name of Operator

TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator

205 E. Bender, HOBBS, NM 88240

4. Well Location

Unit Letter **F** : 2068 Feet From The **NORTH** Line and **1467** Feet From The **WEST** Line  
Section **36** Township **17-S** Range **34-E** NMPM LEA COUNTY

10. Date Spudded

9/15/00

11. Date T.D. Reached

10/3/00

12. Date Compl. (Ready to Prod.)

10/25/00

13. Elevations (DF & RKB, RT, GR, etc.)

4003' GR

14. Elev. Csghead

3985'

15. Total Depth

5357'

16. Plug Back T.D.

17. If Mult. Compl. How Many Zones?

18. Intervals Rotary Tools

Drilled By

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

4261-4531 VACUUM GRAYBURG SAN ANDRES

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

TDT

22. Was Well Cored

NO

23. CASING RECORD (Report all Strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENT RECORD         | AMOUNT PULLED |
|-------------|----------------|-----------|-----------|-----------------------|---------------|
| 3 5/8"      | 24#            | 1558'     | 11"       | CL-C 550 SX, CIR 97   |               |
| 5 1/2"      | 15.5#          | 4850'     | 7 7/8"    | CL-H 1050 SX, CIR 103 |               |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE   | DEPTH SET | PACKER SET |
|------|-----|--------|--------------|--------|--------|-----------|------------|
|      |     |        |              |        | 2 7/8" | 4228      |            |

26. Perforation record (interval, size, and number)

4261-4267, 4349-4355, 4525-4531

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED

4261-4267 30,000 GALS 20%, 27,000 GALS WF130

4349-4355 30,000 GALS 20%, 28,000 GALS WF130

4525-4531 35,000 GALS 20%, 33,000 GALS WF130

28. PRODUCTION

Date First Production

11/11/00

Production Method (Flowing, gas lift, pumping - size and type pump)

PUMPING-SUBMERSIBLE PUMP

Well Status (Prod. or Shut-in)

PROD.

Date of Test

Hours tested

Choke Size

Prod'n For

Oil - Bbl.

Gas - MCF

Water - Bbl.

Gas - Oil Ratio

11-15-00

24

Test Period

171

480

1252

Flow Tubing Press.

Casing Pressure

Calculated 24-  
Hour Rate

Oil - Bbl.

Gas - MCF

Water - Bbl

Oil Gravity - API -(Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

Test Witnessed By

30. List Attachments

DEVIATION SURVEY

31. I hereby certify that the information on both sides of this form, is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE

Engineering Assistant

DATE

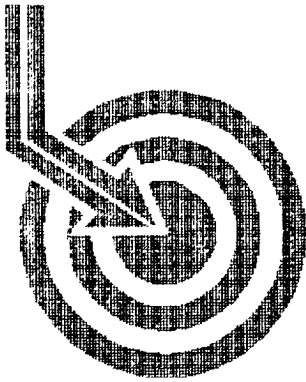
1/30/01

TYPE OR PRINT NAME

J. Denise Leake

Telephone No.

397-0405



# Scientific Drilling



TEXACO E & P INC.

Field: Central Vacuum

Site: Lea County, NM

Well: CVU #168

Wellpath: HH - Job #32D0900385

Survey: 9/22/00-10/3/00

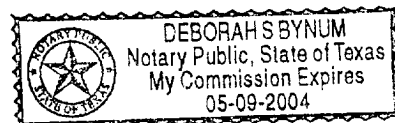
This survey is correct to the best of my knowledge  
and is supported by actual field data.

Scott Needy.....Company Representative

Notorized this date 22nd of November, 2000.

Deborah Sue Bynum

Notary Signature  
County of Midland  
State of Texas



# SCIENTIFIC DRILLIN

## SURVEY REPORT

Company: TEXACO E & P INC.  
 Field: Central Vacuum  
 Site: Lea County, NM  
 Well: CVU #168  
 Wellpath: VH - Job #32K0900374

Date: 11/22/2000 Time: 10:11:40 Page: 1  
 Co-ordinate(NE) Reference: Site: Lea County, NM, True North  
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level  
 Section (VS) Reference: Slot (0.0E,0.0N,0.0Azi)  
 Survey Calculation Method: Minimum Curvature

Survey: 9/17/00  
 KSRG 0'-4550'

Start Date: 10/4/2000

Company: SDI  
 Tool: KEEPER

Engineer: Gary DeSpain

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>d/100ft | ClsA<br>deg | ClsD<br>ft |
|----------|-------------|-------------|-----------|-----------|-----------|----------|----------------|-------------|------------|
| 0.0      | 0.00        | 0.00        | 0.0       | 0.0       | 0.0       | 0.0      | 0.00           | 0.00        | 0.0        |
| 100.0    | 0.54        | 335.71      | 100.0     | 0.4       | -0.2      | 0.4      | 0.54           | 335.71      | 0.5        |
| 200.0    | 0.51        | 344.71      | 200.0     | 1.3       | -0.5      | 1.3      | 0.09           | 338.59      | 1.4        |
| 300.0    | 0.50        | 345.03      | 300.0     | 2.1       | -0.7      | 2.1      | 0.01           | 341.03      | 2.3        |
| 400.0    | 0.45        | 347.70      | 400.0     | 2.9       | -0.9      | 2.9      | 0.05           | 342.44      | 3.1        |
| 500.0    | 0.44        | 5.66        | 500.0     | 3.7       | -1.0      | 3.7      | 0.14           | 345.24      | 3.8        |
| 600.0    | 0.51        | 9.18        | 600.0     | 4.5       | -0.9      | 4.5      | 0.08           | 349.15      | 4.6        |
| 700.0    | 0.32        | 33.28       | 700.0     | 5.2       | -0.6      | 5.2      | 0.25           | 352.94      | 5.2        |
| 800.0    | 0.22        | 68.80       | 800.0     | 5.5       | -0.3      | 5.5      | 0.19           | 356.76      | 5.5        |
| 900.0    | 0.55        | 42.73       | 900.0     | 5.9       | 0.2       | 5.9      | 0.37           | 1.86        | 5.9        |
| 1000.0   | 0.72        | 20.98       | 1000.0    | 6.9       | 0.7       | 6.9      | 0.29           | 6.18        | 6.9        |
| 1100.0   | 1.28        | 13.82       | 1100.0    | 8.5       | 1.2       | 8.5      | 0.57           | 8.23        | 8.6        |
| 1200.0   | 1.57        | 12.51       | 1199.9    | 11.0      | 1.8       | 11.0     | 0.29           | 9.32        | 11.1       |
| 1300.0   | 1.47        | 9.09        | 1299.9    | 13.6      | 2.3       | 13.6     | 0.13           | 9.61        | 13.8       |
| 1400.0   | 1.12        | 23.44       | 1399.9    | 15.7      | 2.9       | 15.7     | 0.47           | 10.41       | 16.0       |
| 1500.0   | 0.95        | 39.68       | 1499.8    | 17.3      | 3.8       | 17.3     | 0.34           | 12.44       | 17.7       |
| 1600.0   | 0.91        | 43.38       | 1599.8    | 18.5      | 4.9       | 18.5     | 0.07           | 14.80       | 19.1       |
| 1700.0   | 0.97        | 37.23       | 1699.8    | 19.7      | 5.9       | 19.7     | 0.12           | 16.75       | 20.6       |
| 1800.0   | 0.89        | 41.63       | 1799.8    | 21.0      | 7.0       | 21.0     | 0.11           | 18.37       | 22.1       |
| 1900.0   | 1.13        | 42.19       | 1899.8    | 22.3      | 8.1       | 22.3     | 0.24           | 20.07       | 23.7       |
| 2000.0   | 1.14        | 57.64       | 1999.8    | 23.6      | 9.6       | 23.6     | 0.31           | 22.27       | 25.5       |
| 2100.0   | 1.09        | 65.37       | 2099.8    | 24.5      | 11.4      | 24.5     | 0.16           | 24.87       | 27.0       |
| 2200.0   | 1.04        | 61.62       | 2199.7    | 25.3      | 13.0      | 25.3     | 0.09           | 27.21       | 28.5       |
| 2300.0   | 1.11        | 68.76       | 2299.7    | 26.1      | 14.7      | 26.1     | 0.15           | 29.42       | 30.0       |
| 2400.0   | 1.12        | 72.26       | 2399.7    | 26.7      | 16.6      | 26.7     | 0.07           | 31.75       | 31.5       |
| 2500.0   | 1.34        | 75.17       | 2499.7    | 27.3      | 18.6      | 27.3     | 0.23           | 34.24       | 33.1       |
| 2600.0   | 2.01        | 72.55       | 2599.6    | 28.2      | 21.4      | 28.2     | 0.67           | 37.25       | 35.4       |
| 2700.0   | 2.42        | 72.95       | 2699.6    | 29.3      | 25.1      | 29.3     | 0.41           | 40.58       | 38.6       |
| 2800.0   | 2.40        | 73.32       | 2799.5    | 30.5      | 29.1      | 30.5     | 0.03           | 43.65       | 42.2       |
| 2900.0   | 1.77        | 73.51       | 2899.4    | 31.6      | 32.6      | 31.6     | 0.63           | 45.93       | 45.4       |
| 3000.0   | 1.62        | 20.66       | 2999.4    | 33.3      | 34.6      | 33.3     | 1.51           | 46.07       | 48.0       |
| 3100.0   | 3.12        | 344.61      | 3099.3    | 37.3      | 34.4      | 37.3     | 2.05           | 42.68       | 50.7       |
| 3200.0   | 5.26        | 330.15      | 3199.0    | 43.9      | 31.4      | 43.9     | 2.37           | 35.56       | 53.9       |
| 3300.0   | 7.71        | 320.73      | 3298.4    | 53.1      | 24.8      | 53.1     | 2.66           | 25.09       | 58.6       |
| 3400.0   | 10.06       | 310.69      | 3397.2    | 63.9      | 14.0      | 63.9     | 2.81           | 12.33       | 65.4       |
| 3500.0   | 12.05       | 303.12      | 3495.3    | 75.3      | -1.4      | 75.3     | 2.46           | 358.94      | 75.4       |
| 3600.0   | 14.17       | 302.65      | 3592.7    | 87.6      | -20.4     | 87.6     | 2.12           | 346.87      | 90.0       |
| 3700.0   | 15.18       | 301.12      | 3689.4    | 101.0     | -42.0     | 101.0    | 1.08           | 337.44      | 109.4      |
| 3800.0   | 14.26       | 302.66      | 3786.1    | 114.4     | -63.5     | 114.4    | 1.00           | 330.96      | 130.9      |
| 3900.0   | 12.25       | 300.15      | 3883.5    | 126.4     | -83.1     | 126.4    | 2.09           | 326.68      | 151.3      |
| 4000.0   | 11.17       | 301.49      | 3981.4    | 136.8     | -100.5    | 136.8    | 1.11           | 323.69      | 169.8      |
| 4100.0   | 10.04       | 303.07      | 4079.7    | 146.6     | -116.1    | 146.6    | 1.17           | 321.63      | 187.0      |
| 4200.0   | 8.51        | 300.76      | 4178.4    | 155.2     | -129.7    | 155.2    | 1.57           | 320.10      | 202.3      |
| 4300.0   | 6.03        | 298.84      | 4277.6    | 161.5     | -140.7    | 161.5    | 2.49           | 318.93      | 214.2      |
| 4400.0   | 4.38        | 297.65      | 4377.2    | 165.8     | -148.7    | 165.8    | 1.65           | 318.11      | 222.7      |
| 4500.0   | 2.44        | 276.99      | 4477.0    | 167.8     | -154.2    | 167.8    | 2.27           | 317.42      | 227.9      |
| 4550.0   | 1.45        | 240.68      | 4526.9    | 167.6     | -155.8    | 167.6    | 3.07           | 317.10      | 228.8      |

# SCIENTIFIC DRILLING

## SURVEY REPORT

**Company:** TEXACO E & P INC.  
**Field:** Central Vacuum  
**Site:** Lea County, NM  
**Well:** CVU #168  
**Wellpath:** UH - Job #32D0900385

**Date:** 11/22/2000 **Time:** 10:20:40 **Page:** 1  
**Co-ordinate(NE) Reference:** Site: Lea County, NM, True North  
**Vertical (TVD) Reference:** SITE 0.0 above Mean Sea Level  
**Section (VS) Reference:** Slot (0.0E,0.0N,279.2Azi)  
**Survey Calculation Method:** Minimum Curvature

**Survey:** 9/22/00-10/3/00  
 MWD 4261'-5357'

**Start Date:** 11/22/2000

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

**Engineer:** L. Coetzee

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>d/100ft | ClsA<br>deg | ClsD<br>ft |
|----------|-------------|-------------|-----------|-----------|-----------|----------|----------------|-------------|------------|
| 4200.0   | 8.51        | 300.76      | 4178.4    | 155.2     | -129.7    | 152.8    | 0.00           | 320.10      | 202.3      |
| 4261.0   | 7.00        | 299.75      | 4238.8    | 159.3     | -136.9    | 160.5    | 2.49           | 319.34      | 210.0      |
| 4309.0   | 23.40       | 285.50      | 4285.0    | 163.3     | -148.7    | 172.8    | 34.79          | 317.69      | 220.9      |
| 4326.0   | 29.20       | 285.20      | 4300.2    | 165.3     | -155.9    | 180.3    | 34.13          | 316.68      | 227.3      |
| 4336.0   | 32.90       | 284.50      | 4308.8    | 166.6     | -160.9    | 185.4    | 37.18          | 316.00      | 231.6      |
| 4357.0   | 40.30       | 284.10      | 4325.6    | 169.7     | -173.0    | 197.9    | 35.26          | 314.45      | 242.4      |
| 4375.0   | 44.90       | 280.10      | 4338.9    | 172.3     | -184.9    | 210.1    | 29.64          | 312.97      | 252.7      |
| 4387.0   | 47.30       | 275.50      | 4347.2    | 173.4     | -193.5    | 218.7    | 34.09          | 311.87      | 259.9      |
| 4418.0   | 54.20       | 269.70      | 4366.8    | 174.5     | -217.5    | 242.5    | 26.54          | 308.74      | 278.8      |
| 4450.0   | 60.50       | 269.40      | 4384.1    | 174.2     | -244.4    | 269.1    | 19.70          | 305.49      | 300.1      |
| 4481.0   | 66.70       | 269.70      | 4397.9    | 174.0     | -272.1    | 296.4    | 20.02          | 302.60      | 323.0      |
| 4513.0   | 73.20       | 270.10      | 4408.8    | 174.0     | -302.2    | 326.1    | 20.35          | 299.93      | 348.7      |
| 4545.0   | 80.40       | 270.30      | 4416.1    | 174.1     | -333.3    | 356.8    | 22.51          | 297.58      | 376.0      |
| 4576.0   | 86.20       | 270.80      | 4419.7    | 174.4     | -364.1    | 387.2    | 18.78          | 295.59      | 403.7      |
| 4608.0   | 87.10       | 271.10      | 4421.6    | 174.9     | -396.0    | 418.9    | 2.96           | 293.83      | 432.9      |
| 4640.0   | 94.00       | 270.30      | 4421.3    | 175.3     | -428.0    | 450.5    | 21.71          | 292.27      | 462.5      |
| 4672.0   | 100.80      | 270.30      | 4417.2    | 175.5     | -459.7    | 481.8    | 21.25          | 290.89      | 492.1      |
| 4703.0   | 103.50      | 270.60      | 4410.7    | 175.7     | -490.0    | 511.8    | 8.76           | 289.73      | 520.6      |
| 4735.0   | 103.10      | 271.30      | 4403.3    | 176.2     | -521.2    | 542.6    | 2.47           | 288.68      | 550.1      |
| 4766.0   | 102.90      | 271.10      | 4396.3    | 176.9     | -551.4    | 572.5    | 0.90           | 287.78      | 579.0      |
| 4799.0   | 102.60      | 271.10      | 4389.0    | 177.5     | -583.5    | 604.4    | 0.91           | 286.92      | 609.9      |
| 4830.0   | 98.40       | 270.60      | 4383.4    | 177.9     | -614.0    | 634.5    | 13.64          | 286.16      | 639.3      |
| 4862.0   | 94.70       | 270.60      | 4379.7    | 178.3     | -645.8    | 666.0    | 11.56          | 285.43      | 669.9      |
| 4894.0   | 94.70       | 270.60      | 4377.1    | 178.6     | -677.7    | 697.5    | 0.00           | 284.76      | 700.8      |
| 4925.0   | 94.50       | 270.80      | 4374.6    | 179.0     | -708.6    | 728.1    | 0.91           | 284.18      | 730.8      |
| 4956.0   | 89.70       | 270.60      | 4373.5    | 179.4     | -739.5    | 758.7    | 15.50          | 283.63      | 761.0      |
| 4988.0   | 84.60       | 271.00      | 4375.1    | 179.8     | -771.5    | 790.3    | 15.99          | 283.12      | 792.2      |
| 5018.0   | 83.40       | 270.60      | 4378.2    | 180.2     | -801.3    | 819.8    | 4.21           | 282.67      | 821.3      |
| 5052.0   | 83.60       | 270.80      | 4382.1    | 180.6     | -835.1    | 853.2    | 0.83           | 282.20      | 854.4      |
| 5083.0   | 83.40       | 270.60      | 4385.6    | 181.0     | -865.9    | 883.7    | 0.91           | 281.81      | 884.6      |
| 5114.0   | 83.80       | 270.60      | 4389.0    | 181.3     | -896.7    | 914.2    | 1.29           | 281.43      | 914.9      |
| 5146.0   | 83.90       | 270.30      | 4392.5    | 181.6     | -928.5    | 945.6    | 0.98           | 281.06      | 946.1      |
| 5179.0   | 83.10       | 270.80      | 4396.2    | 181.9     | -961.3    | 978.0    | 2.85           | 280.71      | 978.4      |
| 5209.0   | 82.20       | 269.50      | 4400.0    | 182.0     | -991.1    | 1007.4   | 5.24           | 280.40      | 1007.6     |
| 5241.0   | 82.70       | 269.00      | 4404.2    | 181.6     | -1022.8   | 1038.6   | 2.20           | 280.07      | 1038.8     |
| 5273.0   | 83.00       | 269.00      | 4408.2    | 181.0     | -1054.5   | 1069.9   | 0.94           | 279.74      | 1069.9     |
| 5304.0   | 83.10       | 269.20      | 4412.0    | 180.5     | -1085.3   | 1100.2   | 0.72           | 279.44      | 1100.2     |
| 5335.0   | 83.10       | 269.20      | 4415.7    | 180.1     | -1116.1   | 1130.5   | 0.00           | 279.17      | 1130.5     |
| 5357.0   | 83.10       | 269.20      | 4418.3    | 179.8     | -1137.9   | 1152.0   | 0.00           | 278.98      | 1152.0     |

# SCIENTIFIC DRILLIN

## SURVEY REPORT

**Company:** TEXACO E & P INC.  
**Field:** Central Vacuum  
**Site:** Lea County, NM  
**Well:** CVU #168  
**Wellpath:** MH - Job #32D0900385

**Date:** 11/22/2000 **Time:** 10:27:35 **Page:** 1  
**Co-ordinate(NE) Reference:** Site: Lea County, NM, True North  
**Vertical (TVD) Reference:** SITE 0.0 above Mean Sea Level  
**Section (VS) Reference:** Slot (0.0E,0.0N,279.2Azi)  
**Survey Calculation Method:** Minimum Curvature

**Survey:** 9/22/00-10/3/00  
 MWD 4349'-5447'

**Start Date:** 11/22/2000

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

**Engineer:** L. Coetzee

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>d/100ft | ClsA<br>deg | ClsD<br>ft |
|----------|-------------|-------------|-----------|-----------|-----------|----------|----------------|-------------|------------|
| 4300.0   | 6.03        | 298.84      | 4277.6    | 161.5     | -140.7    | 164.7    | 0.00           | 318.93      | 214.2      |
| 4349.0   | 5.22        | 298.35      | 4326.3    | 163.8     | -144.9    | 169.2    | 1.66           | 318.49      | 218.7      |
| 4385.0   | 17.80       | 276.10      | 4361.5    | 165.1     | -151.9    | 176.3    | 36.43          | 317.40      | 224.4      |
| 4417.0   | 28.90       | 270.80      | 4390.9    | 165.8     | -164.5    | 188.8    | 35.27          | 315.22      | 233.5      |
| 4448.0   | 39.60       | 270.10      | 4416.5    | 165.9     | -181.9    | 206.1    | 34.54          | 312.36      | 246.2      |
| 4480.0   | 49.40       | 272.50      | 4439.3    | 166.4     | -204.3    | 228.3    | 31.07          | 309.17      | 263.5      |
| 4511.0   | 59.80       | 274.30      | 4457.2    | 168.0     | -229.5    | 253.4    | 33.88          | 306.20      | 284.4      |
| 4540.0   | 69.80       | 274.00      | 4469.5    | 169.9     | -255.6    | 279.5    | 34.50          | 303.60      | 306.9      |
| 4575.0   | 82.90       | 271.10      | 4477.8    | 171.3     | -289.5    | 313.2    | 38.28          | 300.62      | 336.4      |
| 4605.0   | 93.30       | 266.20      | 4478.8    | 170.6     | -319.5    | 342.6    | 38.31          | 298.11      | 362.2      |
| 4626.0   | 96.60       | 268.30      | 4477.0    | 169.6     | -340.4    | 363.1    | 18.61          | 296.49      | 380.3      |
| 4637.0   | 95.20       | 268.30      | 4475.8    | 169.3     | -351.3    | 373.8    | 12.73          | 295.73      | 390.0      |
| 4669.0   | 92.40       | 268.70      | 4473.7    | 168.5     | -383.2    | 405.2    | 8.84           | 293.73      | 418.6      |
| 4701.0   | 92.70       | 270.10      | 4472.3    | 168.1     | -415.2    | 436.7    | 4.47           | 292.05      | 447.9      |
| 4733.0   | 90.40       | 271.10      | 4471.4    | 168.5     | -447.2    | 468.3    | 7.84           | 290.64      | 477.8      |
| 4764.0   | 91.00       | 271.50      | 4471.0    | 169.2     | -478.2    | 499.0    | 2.33           | 289.48      | 507.2      |
| 4794.0   | 91.00       | 271.50      | 4470.5    | 170.0     | -508.1    | 528.7    | 0.00           | 288.49      | 535.8      |
| 4826.0   | 90.40       | 271.50      | 4470.1    | 170.8     | -540.1    | 560.5    | 1.87           | 287.55      | 566.5      |
| 4858.0   | 90.30       | 271.80      | 4469.9    | 171.7     | -572.1    | 592.2    | 0.99           | 286.71      | 597.3      |
| 4889.0   | 89.60       | 271.10      | 4470.0    | 172.5     | -603.1    | 622.9    | 3.19           | 285.96      | 627.3      |
| 4921.0   | 90.10       | 270.80      | 4470.0    | 173.0     | -635.1    | 654.6    | 1.82           | 285.24      | 658.2      |
| 4952.0   | 90.10       | 271.50      | 4470.0    | 173.7     | -666.1    | 685.3    | 2.26           | 284.61      | 688.4      |
| 4985.0   | 88.70       | 271.80      | 4470.3    | 174.6     | -699.1    | 718.0    | 4.34           | 284.02      | 720.5      |
| 5016.0   | 89.70       | 272.20      | 4470.8    | 175.7     | -730.0    | 748.7    | 3.47           | 283.53      | 750.9      |
| 5047.0   | 89.90       | 272.50      | 4470.9    | 177.0     | -761.0    | 779.5    | 1.16           | 283.09      | 781.3      |
| 5080.0   | 87.30       | 271.10      | 4471.7    | 178.0     | -794.0    | 812.2    | 8.95           | 282.64      | 813.7      |
| 5112.0   | 88.00       | 270.80      | 4473.0    | 178.5     | -826.0    | 843.9    | 2.38           | 282.20      | 845.0      |
| 5143.0   | 88.70       | 270.80      | 4473.9    | 179.0     | -856.9    | 874.5    | 2.26           | 281.80      | 875.4      |
| 5175.0   | 84.60       | 270.80      | 4475.8    | 179.4     | -888.9    | 906.1    | 12.81          | 281.41      | 906.8      |
| 5206.0   | 84.80       | 270.40      | 4478.6    | 179.7     | -919.7    | 936.6    | 1.44           | 281.06      | 937.1      |
| 5238.0   | 86.20       | 270.10      | 4481.1    | 179.9     | -951.6    | 968.2    | 4.47           | 280.70      | 968.5      |
| 5270.0   | 89.20       | 268.00      | 4482.4    | 179.3     | -983.6    | 999.6    | 11.44          | 280.33      | 999.8      |
| 5302.0   | 93.10       | 266.60      | 4481.8    | 177.8     | -1015.6   | 1030.9   | 12.95          | 279.93      | 1031.0     |
| 5332.0   | 97.50       | 266.60      | 4479.0    | 176.1     | -1045.4   | 1060.1   | 14.67          | 279.56      | 1060.1     |
| 5365.0   | 98.00       | 266.90      | 4474.6    | 174.2     | -1078.0   | 1092.0   | 1.76           | 279.18      | 1092.0     |
| 5397.0   | 97.80       | 267.60      | 4470.2    | 172.7     | -1109.7   | 1123.0   | 2.26           | 278.85      | 1123.0     |
| 5417.0   | 94.30       | 266.90      | 4468.0    | 171.7     | -1129.5   | 1142.5   | 17.84          | 278.64      | 1142.5     |
| 5447.0   | 94.30       | 266.90      | 4465.8    | 170.1     | -1159.4   | 1171.7   | 0.00           | 278.35      | 1171.8     |

# SCIENTIFIC DRILLIN

## SURVEY REPORT

Company: TEXACO E & P INC.  
 Field: Central Vacuum  
 Site: Lea County, NM  
 Well: CVU #168  
 Wellpath: LH - Job #32D0900385

Date: 11/22/2000 Time: 10:33:14 Page: 1  
 Co-ordinate(NE) Reference: Site: Lea County, NM, True North  
 Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level  
 Section (VS) Reference: Slot (0.0E,0.0N,279.2Azi)  
 Survey Calculation Method: Minimum Curvature

Survey: 9/22/00-10/3/00  
 MWD 4525'-5656'

Start Date: 11/22/2000

Company: SDI w/Ryan  
 Tool: MWD

Engineer:

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>d/100ft | ClsA<br>deg | ClsD<br>ft |
|----------|-------------|-------------|-----------|-----------|-----------|----------|----------------|-------------|------------|
| 4500.0   | 2.44        | 276.99      | 4477.0    | 167.8     | -154.2    | 179.0    | 0.00           | 317.42      | 227.9      |
| 4525.0   | 1.85        | 263.60      | 4502.0    | 167.8     | -155.1    | 179.9    | 3.08           | 317.25      | 228.5      |
| 4567.0   | 14.80       | 274.00      | 4543.4    | 168.1     | -161.2    | 185.9    | 30.92          | 316.21      | 232.9      |
| 4597.0   | 23.60       | 277.30      | 4571.7    | 169.2     | -171.0    | 195.8    | 29.54          | 314.70      | 240.5      |
| 4628.0   | 31.80       | 276.80      | 4599.2    | 170.9     | -185.3    | 210.2    | 26.46          | 312.70      | 252.1      |
| 4692.0   | 45.20       | 276.80      | 4649.1    | 175.6     | -224.7    | 249.9    | 20.94          | 308.01      | 285.2      |
| 4725.0   | 52.20       | 275.90      | 4670.9    | 178.4     | -249.4    | 274.6    | 21.31          | 305.58      | 306.6      |
| 4755.0   | 59.20       | 275.20      | 4687.8    | 180.7     | -274.0    | 299.3    | 23.41          | 303.41      | 328.2      |
| 4787.0   | 68.80       | 273.80      | 4701.8    | 183.0     | -302.6    | 328.0    | 30.26          | 301.16      | 353.7      |
| 4797.0   | 71.80       | 273.40      | 4705.2    | 183.6     | -312.0    | 337.3    | 30.24          | 300.47      | 362.0      |
| 4819.0   | 78.30       | 272.20      | 4710.8    | 184.6     | -333.3    | 358.4    | 30.01          | 298.98      | 381.0      |
| 4850.0   | 84.50       | 271.50      | 4715.5    | 185.6     | -363.9    | 388.8    | 20.12          | 297.02      | 408.5      |
| 4882.0   | 89.60       | 270.40      | 4717.1    | 186.1     | -395.8    | 420.4    | 16.30          | 295.18      | 437.4      |
| 4914.0   | 94.50       | 269.70      | 4716.0    | 186.2     | -427.8    | 452.0    | 15.47          | 293.52      | 466.5      |
| 4945.0   | 99.60       | 269.90      | 4712.2    | 186.0     | -458.5    | 482.4    | 16.46          | 292.08      | 494.8      |
| 4976.0   | 104.90      | 270.10      | 4705.6    | 186.0     | -488.8    | 512.2    | 17.11          | 290.84      | 523.0      |
| 5008.0   | 110.00      | 270.40      | 4696.0    | 186.2     | -519.3    | 542.4    | 15.96          | 289.72      | 551.7      |
| 5041.0   | 111.70      | 270.60      | 4684.3    | 186.4     | -550.2    | 572.9    | 5.18           | 288.72      | 580.9      |
| 5073.0   | 111.60      | 269.70      | 4672.5    | 186.5     | -579.9    | 602.3    | 2.63           | 287.83      | 609.2      |
| 5104.0   | 113.30      | 268.00      | 4660.6    | 186.0     | -608.6    | 630.4    | 7.47           | 286.99      | 636.3      |
| 5136.0   | 112.50      | 268.50      | 4648.2    | 185.1     | -638.0    | 659.4    | 2.88           | 286.17      | 664.3      |
| 5168.0   | 107.20      | 270.30      | 4637.3    | 184.7     | -668.1    | 689.0    | 17.39          | 285.46      | 693.2      |
| 5200.0   | 101.00      | 269.70      | 4629.5    | 184.7     | -699.1    | 719.7    | 19.46          | 284.80      | 723.1      |
| 5231.0   | 94.30       | 269.00      | 4625.4    | 184.4     | -729.8    | 749.9    | 21.73          | 284.18      | 752.8      |
| 5263.0   | 93.80       | 268.10      | 4623.1    | 183.6     | -761.7    | 781.3    | 3.21           | 283.55      | 783.6      |
| 5295.0   | 93.80       | 267.30      | 4621.0    | 182.3     | -793.7    | 812.6    | 2.49           | 282.94      | 814.3      |
| 5325.0   | 91.10       | 268.70      | 4619.7    | 181.3     | -823.6    | 842.0    | 10.14          | 282.41      | 843.3      |
| 5357.0   | 84.10       | 271.10      | 4621.1    | 181.2     | -855.6    | 873.5    | 23.12          | 281.96      | 874.5      |
| 5388.0   | 78.10       | 270.40      | 4625.9    | 181.6     | -886.2    | 903.8    | 19.48          | 281.58      | 904.6      |
| 5420.0   | 72.80       | 269.90      | 4633.9    | 181.7     | -917.1    | 934.4    | 16.63          | 281.21      | 934.9      |
| 5452.0   | 69.00       | 268.50      | 4644.4    | 181.3     | -947.4    | 964.1    | 12.57          | 280.83      | 964.5      |
| 5483.0   | 69.00       | 268.10      | 4655.5    | 180.4     | -976.3    | 992.6    | 1.20           | 280.47      | 992.8      |
| 5515.0   | 69.00       | 269.20      | 4666.9    | 179.7     | -1006.1   | 1021.9   | 3.21           | 280.13      | 1022.1     |
| 5546.0   | 67.60       | 272.70      | 4678.4    | 180.2     | -1034.9   | 1050.4   | 11.42          | 279.88      | 1050.5     |
| 5578.0   | 67.20       | 272.40      | 4690.7    | 181.5     | -1064.5   | 1079.8   | 1.52           | 279.68      | 1079.8     |
| 5608.0   | 67.90       | 271.80      | 4702.2    | 182.5     | -1092.2   | 1107.3   | 2.98           | 279.49      | 1107.3     |
| 5636.0   | 70.20       | 271.30      | 4712.2    | 183.2     | -1118.3   | 1133.2   | 8.38           | 279.30      | 1133.2     |
| 5656.0   | 70.20       | 271.30      | 4718.9    | 183.6     | -1137.1   | 1151.8   | 0.00           | 279.17      | 1151.8     |

## DISTRICT I .

P.O. Box 1980, Hobbs, NM 88241-1980

## DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-10 2

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

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Fee Lease - 3 Copies

✓ AMENDED REPORT

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                              |                                                         |                                           |
|------------------------------|---------------------------------------------------------|-------------------------------------------|
| 1 API Number<br>30-025-33335 | 2 Pool Code<br>62180                                    | 3 Pool Name<br>VACUUM GRAYBURG SAN ANDRES |
| 4 Property Code<br>11122     | 5 Property Name<br>CENTRAL VACUUM UNIT                  | 6 Well No.<br>168                         |
| 7 OGRID Number<br>022351     | 8 Operator Name<br>TEXACO EXPLORATION & PRODUCTION INC. | 9 Elevation<br>3985' GR                   |

## 10 Surface Location

| UI or lot no | Section | Township | Range | Lot.Idn | Feet From The | North/South Line | Feet From The | East/West Line | County |
|--------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| F            | 36      | 17-S     | 34-E  |         | 2068          | NORTH            | 1467          | WEST           | LEA    |

## 11 Bottom Hole Location If Different From Surface

| UI or lot no           | Section                  | Township              | Range        | Lot.Idn | Feet From The | North/South Line | Feet From The | East/West Line | County |
|------------------------|--------------------------|-----------------------|--------------|---------|---------------|------------------|---------------|----------------|--------|
| E/E                    | 36                       | 17S                   | 34E          |         | 4923 / 1884   | NORTH /          | 1309 / 330    | WEST /         | LEA    |
| 12 Dedicated Acre<br>8 | 13 Joint or Infill<br>No | 14 Consolidation Code | 15 Order No. |         |               |                  |               |                |        |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

## 17 OPERATOR CERTIFICATION

I hereby certify that the information  
contained herein is true and complete to the  
best of my knowledge and belief

Signature

Printed Name

J. Denise Leake

Position

Engineering Assistant

Date

8/21/00

## 18 SURVEYOR CERTIFICATION

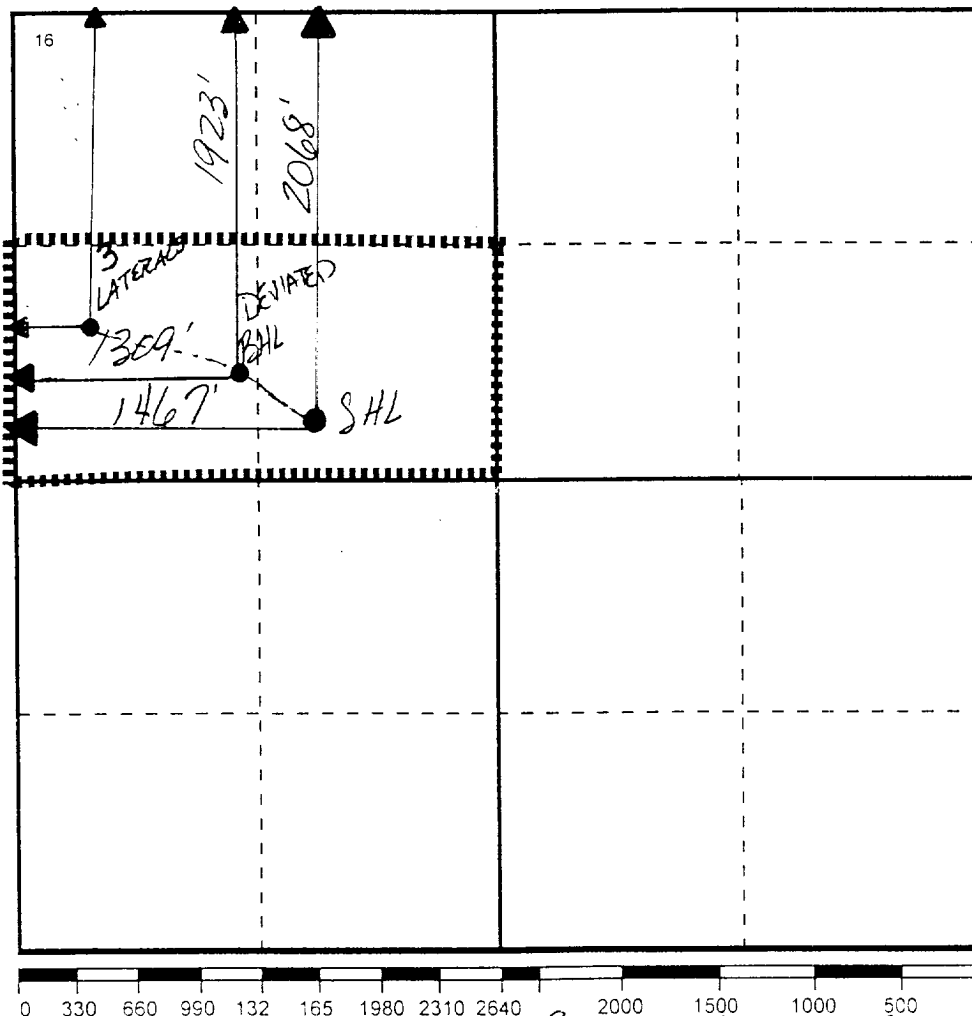
I hereby certify that the well location shown  
on this plat was plotted from field notes of  
actual surveys made by me or under my  
supervision, and that the same is true and  
correct to the best of my knowledge and  
belief.

Date Surveyed

Signature &amp; Seal of

Professional Surveyor

Certificate No.



Direct upper 1888' FNL 329' FWL  
middle 1898' FNL 308' FWL  
lower 1894' FNL 330' FWL