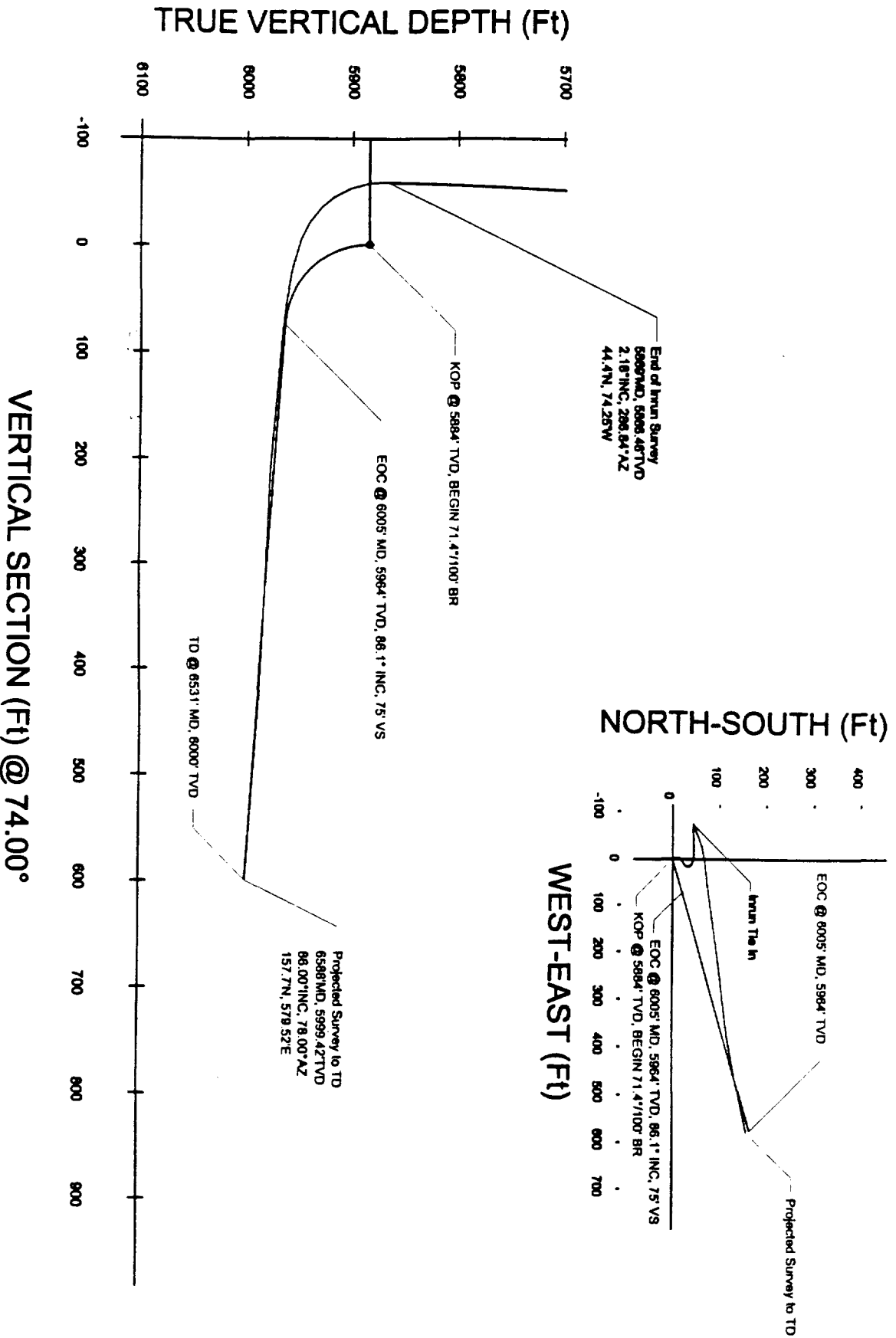




**DIAMONDBACK**  
DIRECTIONAL  
A BWC Company

Company: TEXACO E&P  
Lease/Well: VGMU #108  
Location: LEA COUNTY  
Rig Name: VALE E. KEY #119

File name: G:\DENVER\GVMU\108\VGMU108.SVY  
Date/Time: Thursday, July 09, 1999  
State/Country: NEW MEXICO  
Declination: 9.11003



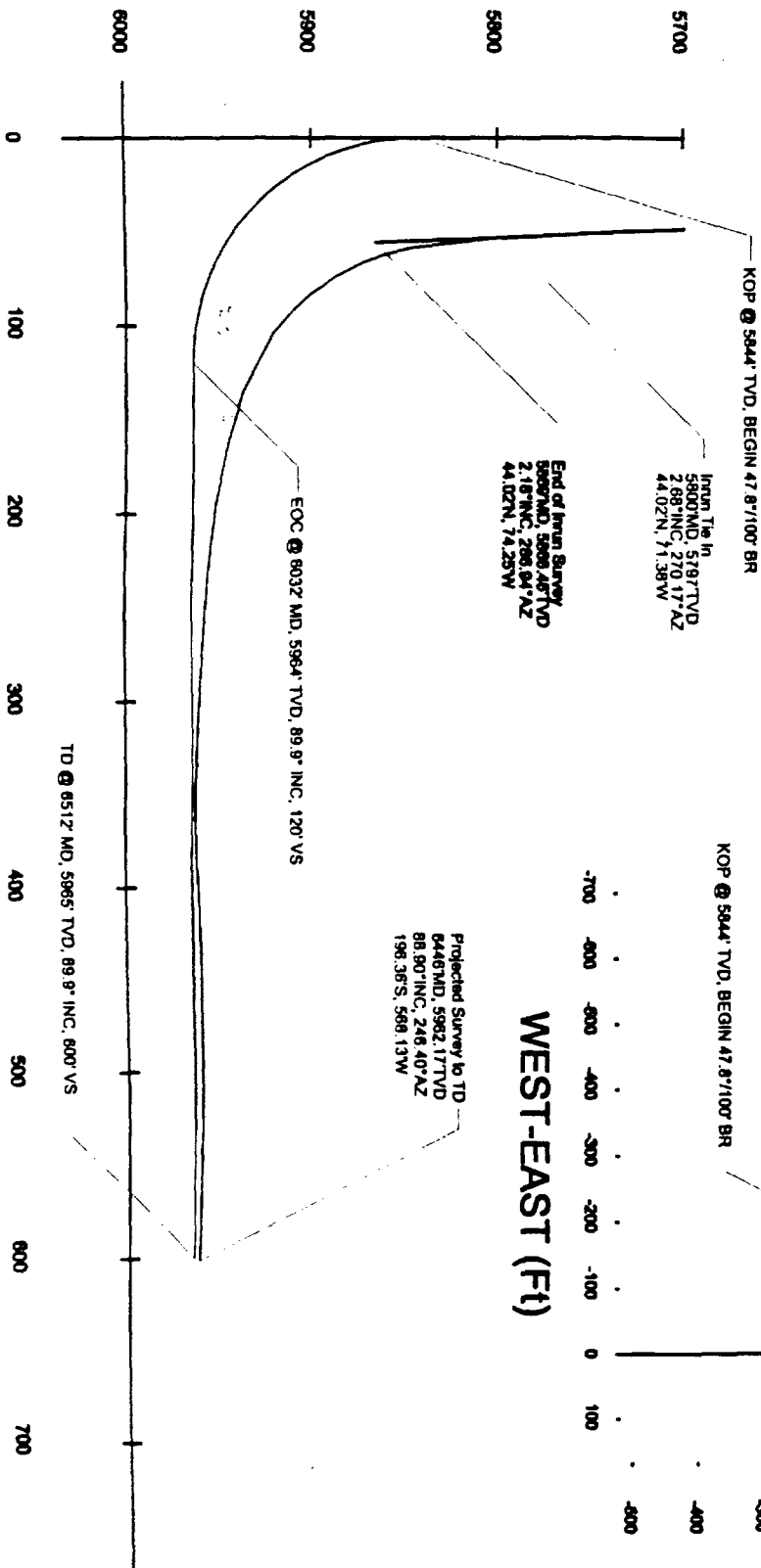


Company: TEXACO E&P  
 Lease/Well: VGMU #108  
 Location: LEA COUNTY  
 Rig Name: VALE E. KEY #118

File name: Q:\DENVERT\VGMU\VGMU108\VGMU108.SVY  
 Date/Time: Tuesday, July 07, 1998  
 State/Country: NEW MEXICO  
 Declination: 8.11003



TRUE VERTICAL DEPTH (Ft)



NORTH-SOUTH (Ft)

WEST-EAST (Ft)

VERTICAL SECTION (Ft) @ 251.00°

**Directional Survey Report****Diamondback Directional**

Well ID: 0000140078

Well Name: WQW1 #102

Page 1

Plane of Vertical Section: 74 degrees

| Survey Type | Meas. Depth | Inc.  | Azimuth | TVD     | Coordinates N-S | E-W      | Vertical Section | Dog Leg Severity |
|-------------|-------------|-------|---------|---------|-----------------|----------|------------------|------------------|
| Tain        | 5869.00     | 2.18  | 288.84  | 5866.48 | N 44.40         | W 74.25  | -59.14           |                  |
| MWD         | 5887.00     | 9.30  | 73.50   | 5884.39 | N 44.91         | W 73.18  | -57.98           | 62.14            |
| MWD         | 5905.00     | 21.80 | 70.50   | 5901.70 | N 46.45         | W 68.62  | -53.16           | 68.57            |
| MWD         | 5923.00     | 34.50 | 67.50   | 5917.54 | N 49.53         | W 60.72  | -44.72           | 70.97            |
| MWD         | 5938.00     | 44.90 | 66.80   | 5929.08 | N 53.25         | W 51.91  | -35.22           | 69.40            |
| MWD         | 5958.00     | 58.80 | 71.00   | 5941.39 | N 58.84         | W 37.26  | -19.59           | 71.41            |
| MWD         | 5974.00     | 88.30 | 74.50   | 5948.51 | N 63.07         | W 23.59  | -5.29            | 62.51            |
| MWD         | 6004.00     | 78.50 | 83.80   | 5957.09 | N 68.46         | E 4.58   | 23.27            | 44.70            |
| MWD         | 6036.00     | 80.80 | 83.60   | 5962.84 | N 71.97         | E 35.86  | 54.30            | 7.19             |
| MWD         | 6067.00     | 85.20 | 82.20   | 5968.81 | N 75.77         | E 66.38  | 84.70            | 14.88            |
| MWD         | 6099.00     | 85.50 | 82.20   | 5980.21 | N 80.10         | E 97.98  | 116.26           | 0.94             |
| MWD         | 6131.00     | 85.70 | 82.20   | 5971.88 | N 84.43         | E 129.59 | 147.84           | 0.62             |
| MWD         | 6162.00     | 85.30 | 81.60   | 5974.06 | N 88.81         | E 160.18 | 178.46           | 2.50             |
| MWD         | 6194.00     | 85.90 | 81.50   | 5976.55 | N 93.52         | E 191.74 | 210.09           | 1.87             |
| MWD         | 6226.00     | 85.30 | 82.20   | 5976.17 | N 98.05         | E 223.87 | 241.76           | 1.61             |
| MWD         | 6257.00     | 88.00 | 82.90   | 5979.17 | N 102.07        | E 254.09 | 272.39           | 2.46             |
| MWD         | 6289.00     | 87.40 | 82.90   | 5980.45 | N 106.02        | E 284.82 | 303.98           | 1.87             |
| MWD         | 6321.00     | 87.30 | 83.80   | 5981.93 | N 109.78        | E 317.57 | 335.53           | 2.21             |
| MWD         | 6352.00     | 87.10 | 82.90   | 5983.45 | N 113.42        | E 348.32 | 368.09           | 2.35             |
| MWD         | 6384.00     | 86.70 | 80.00   | 5985.18 | N 116.17        | E 378.91 | 397.77           | 9.14             |
| MWD         | 6418.00     | 86.20 | 79.40   | 5987.16 | N 123.88        | E 411.33 | 429.55           | 2.44             |
| MWD         | 6447.00     | 85.70 | 78.40   | 5988.46 | N 129.57        | E 441.73 | 460.33           | 2.28             |
| MWD         | 6478.00     | 85.50 | 79.40   | 5991.84 | N 135.25        | E 472.10 | 491.08           | 0.00             |
| MWD         | 6509.00     | 86.40 | 78.00   | 5994.02 | N 141.31        | E 502.42 | 521.91           | 5.38             |
| MWD         | 6541.00     | 88.00 | 78.00   | 5996.15 | N 147.95        | E 533.66 | 553.76           | 1.25             |
| PRO         | 6588.00     | 86.00 | 78.00   | 5999.42 | N 157.70        | E 579.52 | 600.54           | 0.00             |

Calculations using minimum curvature method

Printed: 15:01 21-Jun-98

End of Report

12/17

|                  |             |         |              |            |   |
|------------------|-------------|---------|--------------|------------|---|
| Post-it Fax Note | 7671        | Date    | 6/25         | # of pages | 2 |
| To               | LEVIN HARRY | From    | SCOTT HUNTER |            |   |
| Co./Dept.        |             | Co.     |              |            |   |
| Phone #          |             | Phone # |              |            |   |
| Fax #            |             | Fax #   |              |            |   |

**Directional Survey Report****Diamondback Directional**

Well ID: 9819416075

Well Name: VGWU #108

Page 1

Plane of Vertical Section: 251 degrees

| Survey Type | Meas. Depth | Inc.  | Azimuth | TVD     | Coordinates N-S | E-W      | Vertical Section | Dog Leg Severity |
|-------------|-------------|-------|---------|---------|-----------------|----------|------------------|------------------|
| ** Tieln    | 5800.00     | 2.68  | 270.17  | 5797.52 | N 44.02         | W 71.38  | 53.16            |                  |
| MWD         | 5849.00     | 10.40 | 247.00  | 5846.17 | N 42.29         | W 76.61  | 58.56            | 16.34            |
| MWD         | 5864.00     | 17.40 | 247.00  | 5860.72 | N 40.89         | W 79.92  | 62.25            | 46.67            |
| MWD         | 5879.00     | 24.50 | 246.30  | 5874.72 | N 38.78         | W 84.84  | 67.60            | 47.36            |
| MWD         | 5894.00     | 31.50 | 245.00  | 5887.96 | N 35.85         | W 91.25  | 74.60            | 46.84            |
| MWD         | 5909.00     | 38.70 | 242.90  | 5900.22 | N 32.05         | W 98.98  | 83.16            | 48.66            |
| MWD         | 5924.00     | 46.10 | 242.90  | 5911.29 | N 27.44         | W 107.98 | 93.16            | 49.33            |
| MWD         | 5939.00     | 53.30 | 244.30  | 5920.99 | N 22.37         | W 118.22 | 104.50           | 48.62            |
| MWD         | 5974.00     | 70.70 | 245.40  | 5937.36 | N 9.31          | W 146.10 | 135.11           | 49.79            |
| MWD         | 6006.00     | 76.90 | 244.30  | 5946.28 | S 3.75          | W 173.90 | 165.65           | 19.65            |
| MWD         | 6037.00     | 81.50 | 241.80  | 5952.09 | S 17.55         | W 201.03 | 195.79           | 16.82            |
| MWD         | 6067.00     | 86.00 | 241.10  | 5955.35 | S 31.80         | W 227.22 | 225.19           | 15.18            |
| MWD         | 6098.00     | 86.00 | 241.80  | 5957.51 | S 46.58         | W 254.38 | 255.69           | 2.25             |
| MWD         | 6130.00     | 86.20 | 241.50  | 5959.69 | S 61.74         | W 282.48 | 287.19           | 1.12             |
| MWD         | 6162.00     | 86.40 | 242.60  | 5961.76 | S 76.71         | W 310.69 | 318.74           | 3.49             |
| MWD         | 6194.00     | 89.90 | 243.60  | 5962.79 | S 91.17         | W 339.21 | 350.41           | 11.37            |
| MWD         | 6225.00     | 92.60 | 244.70  | 5962.11 | S 104.69        | W 367.09 | 381.18           | 9.40             |
| MWD         | 6257.00     | 91.80 | 245.00  | 5960.88 | S 118.28        | W 396.04 | 412.97           | 2.67             |
| MWD         | 6288.00     | 89.70 | 245.00  | 5960.48 | S 131.38        | W 424.13 | 443.80           | 6.77             |
| MWD         | 6320.00     | 89.90 | 245.00  | 5960.59 | S 144.90        | W 453.13 | 475.62           | 0.63             |
| MWD         | 6352.00     | 90.10 | 245.70  | 5960.59 | S 158.25        | W 482.22 | 507.46           | 2.28             |
| MWD         | 6383.00     | 88.70 | 245.70  | 5960.92 | S 171.00        | W 510.47 | 538.33           | 4.52             |
| MWD         | 6408.00     | 88.90 | 246.40  | 5961.44 | S 181.15        | W 533.31 | 563.23           | 2.91             |
| PRO         | 6445.00     | 88.90 | 246.40  | 5962.15 | S 195.96        | W 567.21 | 600.10           | 0.00             |

Calculations using Minimum Curvature Method

Printed: 08:03 24-Jun-98

End of Report

**BEFORE THE  
OIL CONSERVATION DIVISION**  
Santa Fe, New Mexico

Case No. 12123 Exhibit No. 16

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 4, 1999