



FOR INFORMATION ONLY

April 28, 1994

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe N.M. 87504

Attn: Mr. David Catanach
Engineer, New Mexico Oil Conservation Division

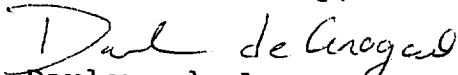
Re: PRESSURE INCREASE ON INJECTION WELL
W.H. Rhodes "B" NCT-1 #1
Unit G, Section 27
T-26-S, R-37-E
Lea County, New Mexico

Dear David:

Texaco Exploration and Production Inc. requests an increase in the maximum allowable pressure on the above well from 600 psig to 1360 psig. A step rate injection test was ran on the well. Results of the test are attached.

If you have any questions concerning this request, please contact me at 397-0424. Thank you for your assistance in this matter.

Yours very truly,


Darlene de Aragao
Production Engineer

/ddd
Chrono
Attachments
cc: Jerry Sexton/NMOCD/Hobbs

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WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: APRIL 13, 1994

WELL NAME: W.H. RHODES "B" FED. NCT-1 NO.1
LEA COUNTY, NEW MEXICO

WO#: 94-14-0658

MID-PERFS. = 3043-3058

PACKER DEPTH = 3009

BHP GAUGE DEPTH = 3050

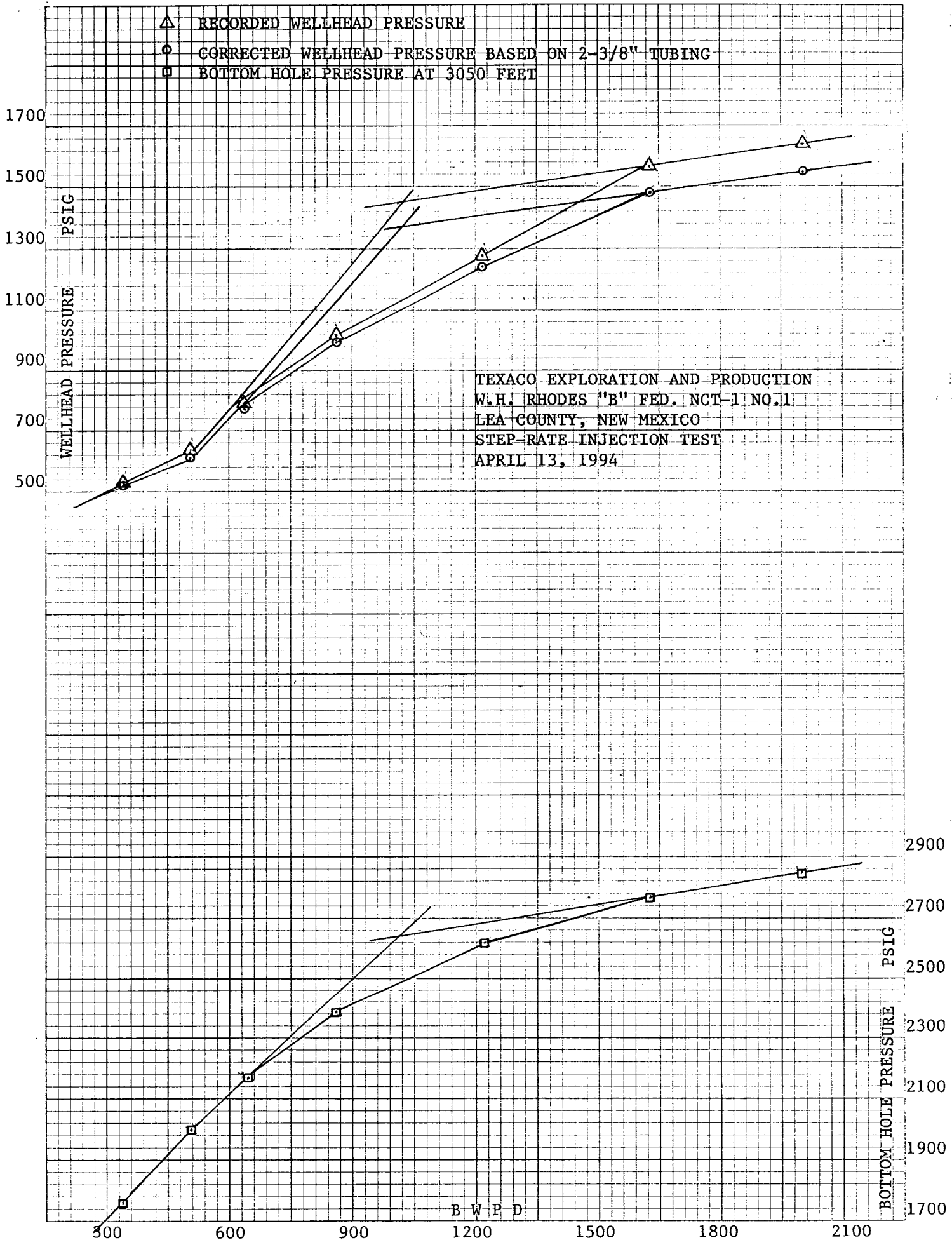
| STEP NO. & REMARKS | TIME | (1) SURFACE TUBING PRESS. (psig) | (2) CUMMULATIVE VOL. INJECTED (bbls) | (3) INJECTION RATE (bbls/day) | (4) FRICTION HEAD LOSS (psi) | (5) CORRECTED TUBING PRESS. (psi) (1)-(4) | (6) INJECTION RATE (gpm) (3)/34.2657 | (7) MEASURED BHP (psi) |
|--------------------------|-------|---|---|--|---------------------------------------|--|---|---------------------------------|
| | 8:40 | 130.7 | | | | 130.7 | | 1386.6 |
| | 8:45 | 389.6 | 1.5 | 432.0 | 5.569 | 384.0 | 12.60 | 1636.8 |
| | 8:50 | 452.1 | 2.8 | 374.4 | 4.274 | 447.8 | 10.92 | 1686.8 |
| | 8:55 | 478.1 | 3.8 | 288.0 | 2.630 | 475.5 | 8.40 | 1708.9 |
| | 9:00 | 504.2 | 4.8 | 288.0 | 2.630 | 501.6 | 8.40 | 1732.0 |
| | 9:05 | 518.1 | 6.0 | 345.6 | 3.686 | 514.4 | 10.08 | 1746.1 |
| 1 | 9:10 | 528.3 | 7.1 | 316.8 | 3.138 | 525.2 | 9.24 | 1761.8 |
| | | | | 340.8 | | | | |
| | 9:15 | 592.1 | 8.9 | 518.4 | 7.803 | 584.3 | 15.12 | 1869.6 |
| | 9:20 | 595.8 | 10.6 | 489.6 | 7.020 | 588.8 | 14.28 | 1914.7 |
| | 9:25 | 609.8 | 12.4 | 518.4 | 7.803 | 602.0 | 15.12 | 1947.7 |
| | 9:30 | 655.8 | 14.1 | 489.6 | 7.020 | 648.8 | 14.28 | 1965.1 |
| | 9:35 | 631.4 | 15.9 | 518.4 | 7.803 | 623.6 | 15.12 | 1977.7 |
| 2 | 9:40 | 626.1 | 17.7 | 518.4 | 7.803 | 618.3 | 15.12 | 1988.6 |
| | | | | 508.8 | | | | |
| | 9:45 | 721.8 | 19.9 | 633.6 | 11.311 | 710.5 | 18.48 | 2078.3 |
| | 9:50 | 742.2 | 22.2 | 662.4 | 12.281 | 729.9 | 19.32 | 2109.6 |
| | 9:55 | 765.0 | 24.5 | 662.4 | 12.281 | 752.7 | 19.32 | 2130.2 |
| | 10:00 | 758.4 | 26.7 | 633.6 | 11.311 | 747.1 | 18.48 | 2145.9 |
| | 10:05 | 794.0 | 29.0 | 662.4 | 12.281 | 781.7 | 19.32 | 2159.9 |
| 3 | 10:10 | 788.7 | 31.2 | 633.6 | 11.311 | 777.4 | 18.48 | 2169.8 |
| | | | | 648.0 | | | | |
| | 10:15 | 913.8 | 34.4 | 921.6 | 22.623 | 891.2 | 26.88 | 2281.8 |
| | 10:20 | 944.4 | 37.3 | 835.2 | 18.856 | 925.5 | 24.36 | 2310.6 |
| | 10:25 | 957.2 | 40.2 | 835.2 | 18.856 | 938.3 | 24.36 | 2329.5 |
| | 10:30 | 978.7 | 43.3 | 892.8 | 21.332 | 957.4 | 26.04 | 2354.2 |
| | 10:35 | 1001.6 | 46.2 | 835.2 | 18.856 | 982.7 | 24.36 | 2372.2 |
| 4 | 10:40 | 1019.2 | 49.2 | 864.0 | 20.077 | 999.1 | 25.20 | 2383.7 |
| | | | | 864.0 | | | | |

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| STEP NO. & REMARKS | TIME | (1) SURFACE TUBING PRESS. (psig) | (2) CUMMULATIVE VOL. INJECTED (bbls) | (3) INJECTION RATE (bbls/day) | (4) FRICTION HEAD LOSS (psi) | (5) CORRECTED TUBING PRESS. (psi) (1)-(4) | (6) INJECTION RATE (gpm) (3)/34.2857 | (7) MEASURED BHP (psi) |
|--------------------------|-------|---|---|--|---------------------------------------|--|---|---------------------------------|
| 5 | 10:45 | 1174.0 | 53.5 | 1238.4 | 39.078 | 1134.9 | 36.12 | 2515.3 |
| | 10:50 | 1216.1 | 57.9 | 1267.2 | 40.776 | 1175.3 | 36.96 | 2554.6 |
| | 10:55 | 1227.3 | 61.9 | 1152.0 | 34.185 | 1193.1 | 33.60 | 2575.9 |
| | 11:00 | 1263.8 | 66.2 | 1238.4 | 39.078 | 1224.7 | 36.12 | 2597.1 |
| | 11:05 | 1270.7 | 70.5 | 1238.4 | 39.078 | 1231.6 | 36.12 | 2611.7 |
| | 11:10 | 1279.1 | 74.7 | 1209.6 | 37.414 | 1241.7 | 35.28 | 2619.7 |
| | | | | | 1224.0 | | | |
| | 11:15 | 1390.0 | 80.5 | 1670.4 | 67.977 | 1322.0 | 48.72 | 2700.2 |
| | 11:20 | 1422.8 | 86.1 | 1612.8 | 63.704 | 1359.1 | 47.04 | 2722.0 |
| | 11:25 | 1427.4 | 91.8 | 1641.6 | 65.825 | 1361.6 | 47.88 | 2731.5 |
| 6 | 11:30 | 1451.4 | 97.4 | 1612.8 | 63.704 | 1387.7 | 47.04 | 2734.6 |
| | 11:35 | 1470.6 | 103.2 | 1670.4 | 67.977 | 1402.6 | 48.72 | 2739.3 |
| | 11:40 | 1536.7 | 108.6 | 1555.2 | 59.559 | 1477.1 | 45.36 | 2768.5 |
| | | | | | 1627.2 | | | |
| | 11:45 | 1577.4 | 115.6 | 2016.0 | 96.261 | 1481.1 | 58.80 | 2801.1 |
| | 11:50 | 1600.0 | 122.6 | 2016.0 | 96.261 | 1503.7 | 58.80 | 2814.9 |
| | 11:55 | 1607.4 | 129.5 | 1987.2 | 93.733 | 1513.7 | 57.96 | 2822.2 |
| | 12:00 | 1609.7 | 136.6 | 2044.8 | 98.821 | 1510.9 | 59.64 | 2828.0 |
| | 12:05 | 1628.7 | 143.4 | 1958.4 | 91.235 | 1537.5 | 57.12 | 2841.0 |
| | 12:10 | 1637.6 | 150.4 | 2016.0 | 96.261 | 1541.3 | 58.80 | 2855.7 |
| 7 FALLOFF | | | | 2006.4 | | | | |
| | 12:11 | 1387.9 | | | | 1387.9 | | 2740.3 |
| | 12:12 | 1396.8 | | | | 1396.8 | | 2710.2 |
| | 12:13 | 1372.4 | | | | 1372.4 | | 2686.6 |
| | 12:14 | 1351.8 | | | | 1351.8 | | 2666.3 |
| | 12:15 | 1332.6 | | | | 1332.6 | | 2646.0 |
| | 12:20 | 1239.1 | | | | 1239.1 | | 2549.7 |
| | 12:25 | 1142.9 | | | | 1142.9 | | 2451.7 |
| | 12:30 | 1044.4 | | | | 1044.4 | | 2352.8 |
| | 12:35 | 953.4 | | | | 953.4 | | 2260.5 |
| 12:40 | 871.3 | | | | 871.3 | | 2177.9 | |



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