

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505



OIL CONSERVATION DIVISION



February 1, 1995

Texaco Exploration & Production, Inc.
P.O. Box 730
Hobbs, New Mexico 88241-0730

CF 10948
R-10104
WFX-645
PDEV0020600645
WFX-658
PDEV0020600658

**RE: Injection Pressure Increase W.H. Rhodes "B" Federal
Waterflood Project Lea County, New Mexico**

Dear Ms. de Aragao:

Reference is made to your request dated November 1, 1994 to increase the surface injection pressure on seven wells. This request is based on step rate tests conducted on these wells between October 13 and 21, 1994. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

Well and Location	Maximum Injection Surface Pressure
W.H. Rhodes "B" Federal (NCT-2) No.3 1980' FSL & 660' FEL Unit I, Section 28, Township 26 South, Range 37 East	748 PSIG
W.H. Rhodes "B" Federal (NCT-2) No.4 660' FSL & 660' FEL Unit P, Section 28, Township 26 South, Range 37 East	907 PSIG
W.H. Rhodes "B" Federal (NCT-2) No.5 1980' FSL & 1980' FEL Unit J, Section 28, Township 26 South, Range 37 East	792 PSIG
W.H. Rhodes "B" Federal (NCT-2) No.6 660' FSL & 1880' FEL Unit O, Section 28, Township 26 South, Range 37 East	683 PSIG

VILLAGRA BUILDING - 408 Galisteo
Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830
Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

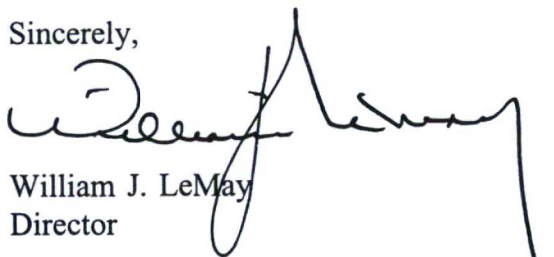
2040 South Pacheco
Office of the Secretary
827-5950
Administrative Services
827-5925
Energy Conservation & Management
827-5900
Mining and Minerals
827-5970
Oil Conservation
827-7131

Injection Pressure Increase
Texaco Exploration & Production, Inc.
February 1, 1995
Page 2

Well and Location	Maximum Injection Surface Pressure
W.H. Rhodes "B" Federal (NCT-1) No.8 660' FSL & 660' FWL Unit M, Section 26, Township 26 South, Range 37 East	997 PSIG
W.H. Rhodes "B" Federal (NCT-1) No.11 1980' FSL & 1980' FWL Unit K, Section 26, Township 26 South, Range 37 East	1087 PSIG
W.H. Rhodes "B" Federal (NCT-1) No.12 660' FSL & 1980' FEL Unit O, Section 26, Township 26 South, Range 37 East	1105 PSIG
All wells located in Lea County, New Mexico.	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,



William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Hobbs
File: WFX-645; WFX-658; Case No.10948



Texaco E & P

PO Box 2088

Santa Fe NM 87504

397-0424

RECEIVED DIVISION

NOV 1 1994

NOV 1 1994 8 52

APR. 26, 94
10104

November 1, 1994

New Mexico Oil Conservation Division
PO Box 2088
Santa Fe NM 87504

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

Re: PRESSURE INCREASE ON INJECTION WELLS
W. H. Rhodes B Fed NCT-1
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 three wells on the Rhodes B Fed NCT-1 lease. A step rate injection test was run on each well. Results of the test are attached. The attached table shows the present maximum allowable pressures along with the requested allowable pressures. We are also requesting that our maximum allowable surface pressures include friction which is also included in the table.

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

WELL NAME	PRESENT MAXIMUM ALLOWABLE SURFACE PRESSURE	BHFP	STFP	FRICTION *	REQUESTED MAXIMUM ALLOWABLE SURFACE PRESSURE
Rhodes B NCT-1 #8	616	2420	1047	16	997 1060
Rhodes B NCT-1 #11	618	2540	1137	15	1087 1150
Rhodes B NCT-1 #12	618	2620	1155	16	1105 1170

BHFP=BOTTOM HOLE FRAC PRESSURE

STFP=SURFACE TREATING FRAC
PRESSURE

FLUID GRADIENT=.4546

DBG=DEPTH OF BOTTOM HOLE GAGE

$STFP = BHFP - (.4546 \times DBG)$

*FRICTION PRESSURE CALCULATED
@ 500 BWPD

WFX
645
656
658
11 & 12

WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 17, 1994

WELL NAME: RHODES B NCT 1 NO. 8
LEA COUNTY, NEW MEXICO

WO#: 94-14-1698

PERFS = 3041-3255

PACKER DEPTH = 3003

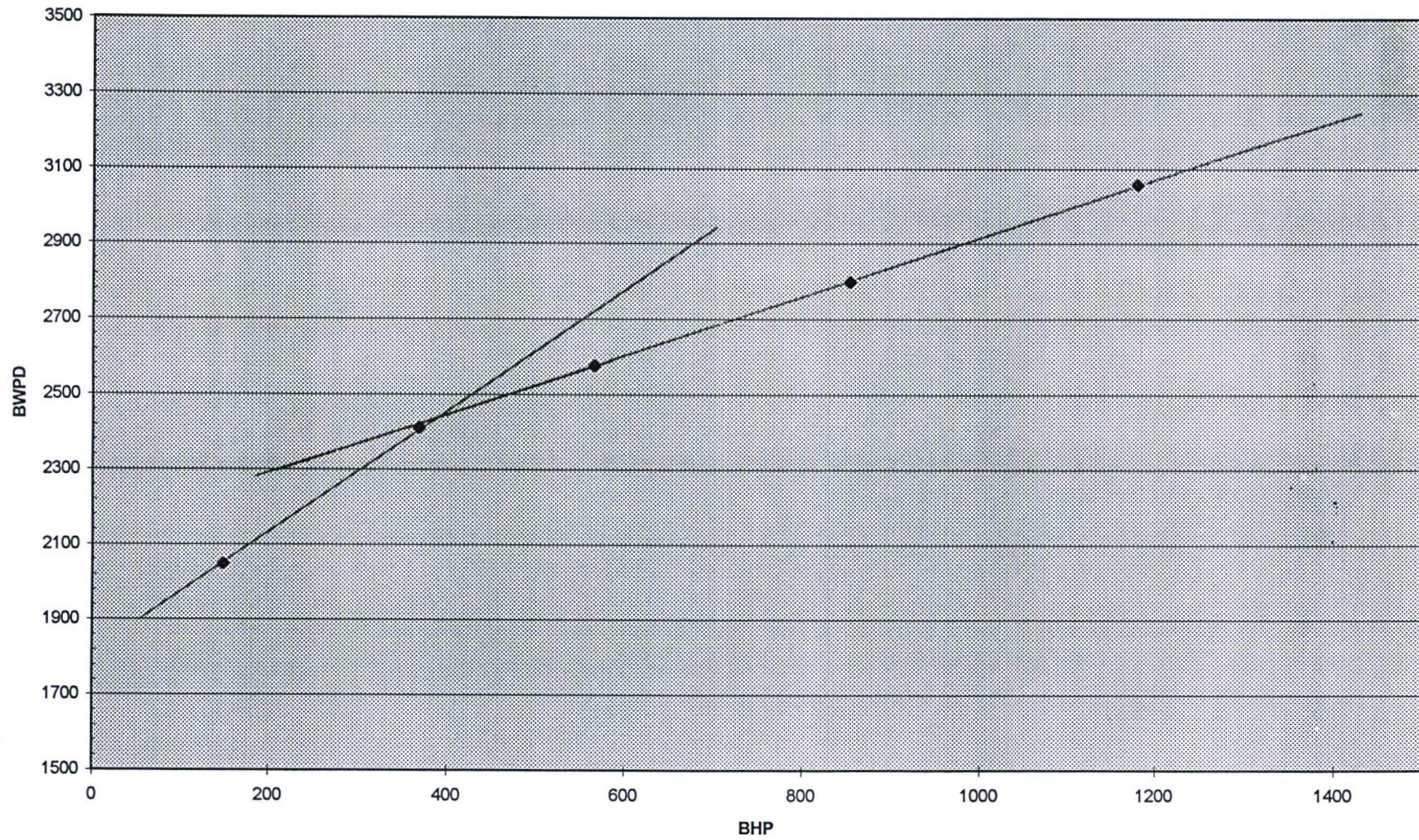
BHP GAUGE DEPTH = 3020

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)
1	8:55	256.1				256.1		1692.9
	9:00	408.2	0.7	201.6	1.346	406.9	5.88	1851.4
	9:05	461.7	1.2	144.0	0.722	461.0	4.20	1905.7
	9:10	519.1	1.7	144.0	0.722	518.4	4.20	1953.2
	9:15	545.3	2.2	144.0	0.722	544.6	4.20	1993.7
	9:20	565.2	2.7	144.0	0.722	564.5	4.20	2024.9
	9:25	605.1	3.1	115.2	0.478	604.6	3.36	2048.5
				148.8				
	9:30	706.1	4.5	403.2	4.854	701.2	11.76	2181.7
	9:35	813.3	5.8	374.4	4.232	809.1	10.92	2254.6
2	9:40	894.3	7.0	345.6	3.649	890.7	10.08	2307.2
	9:45	875.6	8.2	345.6	3.649	872.0	10.08	2351.9
	9:50	941.6	9.5	374.4	4.232	937.4	10.92	2384.0
	9:55	951.6	10.8	374.4	4.232	947.4	10.92	2411.4
				369.6				
	10:00	1051.4	12.8	576.0	9.389	1042.0	16.80	2496.9
	10:05	1062.7	14.7	547.2	8.539	1054.2	15.96	2543.5
	10:10	1117.6	16.6	547.2	8.539	1109.1	15.96	2576.4
	10:15	1137.6	18.6	576.0	9.389	1128.2	16.80	2602.5
	10:20	1102.6	20.6	576.0	9.389	1093.2	16.80	2567.6
3	10:25	1106.4	22.6	576.0	9.389	1097.0	16.80	2576.8
				566.4				
	10:30	1192.6	25.5	835.2	18.671	1173.9	24.36	2654.9
	10:35	1222.6	28.6	892.8	21.123	1201.5	26.04	2694.6
	10:40	1250.1	31.5	835.2	18.671	1231.4	24.36	2726.8
	10:45	1267.5	34.5	864.0	19.879	1247.6	25.20	2750.7
	10:50	1285.0	37.4	835.2	18.671	1266.3	24.36	2771.5
	10:55	1308.8	40.4	864.0	19.879	1288.9	25.20	2798.7
				854.4				

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 FALLOFF	11:00	1402.4	44.5	1180.8	35.431	1367.0	34.44	2880.7
	11:05	1451.1	48.6	1180.8	35.431	1415.7	34.44	2931.4
	11:10	1486.1	52.7	1180.8	35.431	1450.7	34.44	2974.1
	11:15	1527.2	56.8	1180.8	35.431	1491.8	34.44	3006.7
	11:20	1559.7	60.9	1180.8	35.431	1524.3	34.44	3033.2
	11:25	1595.9	65.0	1180.8	35.431	1560.5	34.44	3057.8
				1180.8				
	11:26	1493.6				1493.6		2994.8
	11:27	1473.6				1473.6		2974.4
	11:28	1457.4				1457.4		2957.1
	11:29	1442.4				1442.4		2941.2
	11:30	1427.4				1427.4		2925.5
	11:35	1363.7				1363.7		2858.1
	11:40	1303.8				1303.8		2793.2

2420
1047

W.H. RHODES B NCT-1 #8



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 14, 1994

WELL NAME: RHODES B NCT 1 NO. 11
LEA COUNTY, NEW MEXICO

WO#: 94-14-1701

OPEN HOLE = 3089-3240

PACKER DEPTH = 2914

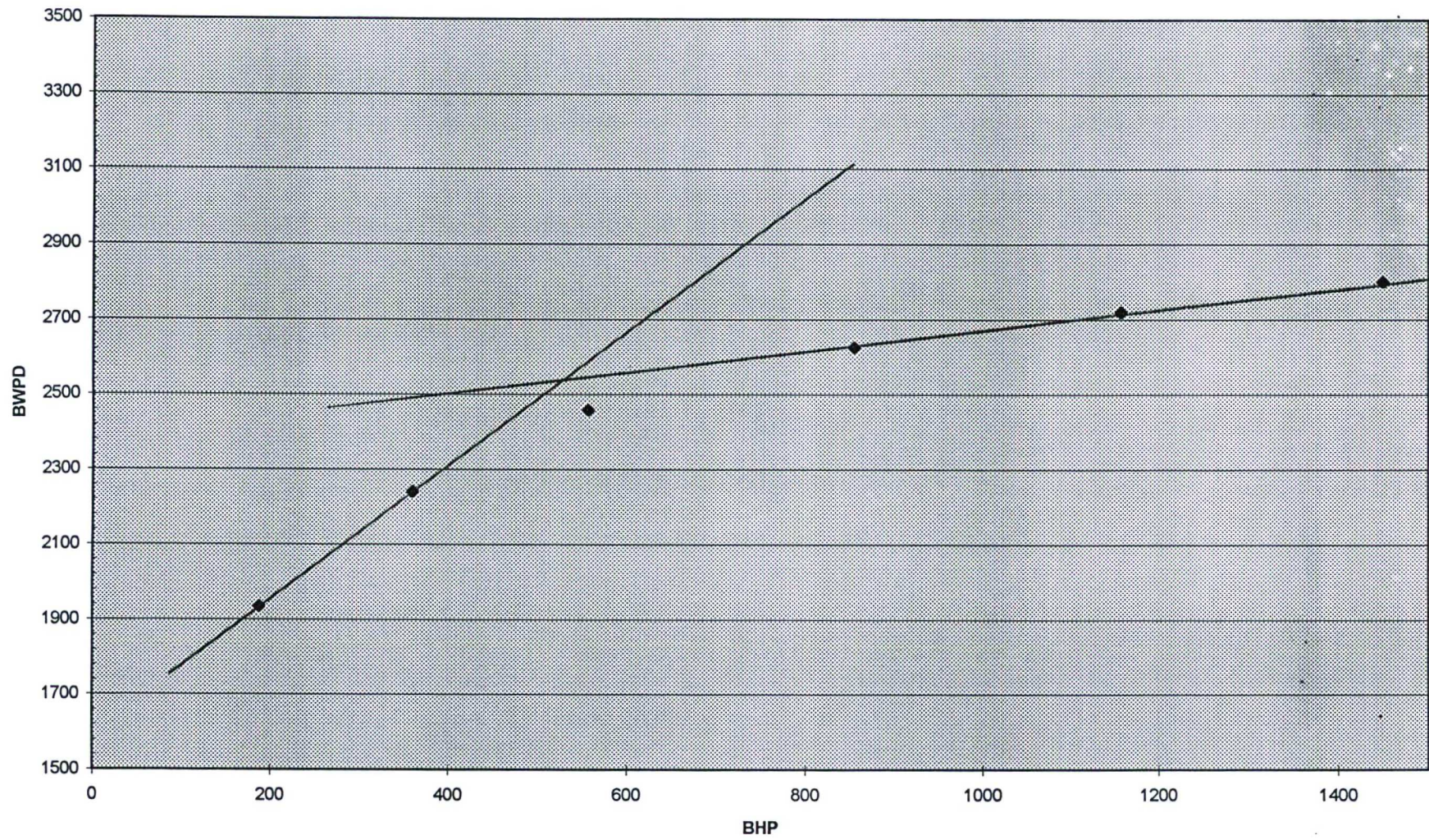
BHP GAUGE DEPTH = 3085

M.D.R. = 3100

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)
1	8:55	51.8				51.8		1510.2
	9:00	379.1	0.8	230.4	1.761	377.3	6.72	1866.8
	9:05	401.5	1.5	201.6	1.375	400.1	5.88	1893.2
	9:10	427.7	2.1	172.8	1.034	426.7	5.04	1912.6
	9:15	424.0	2.7	172.8	1.034	423.0	5.04	1920.2
	9:20	450.1	3.3	172.8	1.034	449.1	5.04	1932.9
	9:25	437.7	3.9	172.8	1.034	436.7	5.04	1934.6
				187.2				
	9:30	698.1	5.1	345.6	3.728	694.4	10.08	2156.5
	9:35	749.2	6.4	374.4	4.323	744.9	10.92	2189.9
2	9:40	693.2	7.7	374.4	4.323	688.9	10.92	2209.4
	9:45	709.4	8.9	345.6	3.728	705.7	10.08	2224.2
	9:50	772.9	10.1	345.6	3.728	769.2	10.08	2231.3
	9:55	789.1	11.4	374.4	4.323	784.8	10.92	2239.9
				360.0				
	10:00	890.1	13.3	547.2	8.723	881.4	15.96	2393.6
	10:05	932.5	15.3	576.0	9.591	922.9	16.80	2415.2
	10:10	947.4	17.2	547.2	8.723	938.7	15.96	2429.4
	10:15	958.7	19.2	576.0	9.591	949.1	16.80	2440.1
	10:20	961.2	21.1	547.2	8.723	952.5	15.96	2452.1
3	10:25	984.9	23.0	547.2	8.723	976.2	15.96	2459.2
				556.8				
	10:30	1068.5	25.9	835.2	19.073	1049.4	24.36	2557.4
	10:35	1093.4	28.9	864.0	20.307	1073.1	25.20	2580.8
	10:40	1091.0	31.8	835.2	19.073	1071.9	24.36	2595.2
	10:45	1111.0	34.8	864.0	20.307	1090.7	25.20	2610.6
	10:50	1109.7	37.8	864.0	20.307	1089.4	25.20	2616.2
	10:55	1122.3	40.8	864.0	20.307	1102.0	25.20	2626.1
				854.4				

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	11:00	1187.2	44.9	1180.8	36.193	1151.0	34.44	2697.1
	11:05	1178.5	48.9	1152.0	34.577	1143.9	33.60	2694.4
	11:10	1203.5	52.9	1152.0	34.577	1168.9	33.60	2700.9
	11:15	1214.8	57.0	1180.8	36.193	1178.6	34.44	2710.1
	11:20	1212.2	60.9	1123.2	32.995	1179.2	32.76	2714.1
	11:25	1222.2	64.9	1152.0	34.577	1187.6	33.60	2719.9
				1156.8				
	11:30	1277.1	70.1	1497.6	56.180	1220.9	43.68	2761.8
	11:35	1290.8	75.1	1440.0	52.248	1238.6	42.00	2770.7
	11:40	1313.2	80.1	1440.0	52.248	1261.0	42.00	2781.2
6	11:45	1304.5	85.1	1440.0	52.248	1252.3	42.00	2789.9
	11:50	1323.1	90.1	1440.0	52.248	1270.9	42.00	2795.5
	11:55	1349.3	95.1	1440.0	52.248	1297.1	42.00	2800.0
				1449.6				
FALLOFF	11:56	1208.2				1208.2		2715.1
	11:57	1168.2				1168.2		2668.1
	11:58	1130.8				1130.8		2627.4
	11:59	1095.8				1095.8		2589.6
	12:00	1062.1				1062.1		2555.1
	12:05	923.7				923.7		2409.0
	12:10	822.7				822.7		2300.5

W.H. RHODES B NCT-1 #11



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 13, 1994

WELL NAME: RHODES B NCT 1 NO. 12
LEA COUNTY, NEW MEXICO

WO#: 94-14-1700

PERFS = 3166-3280

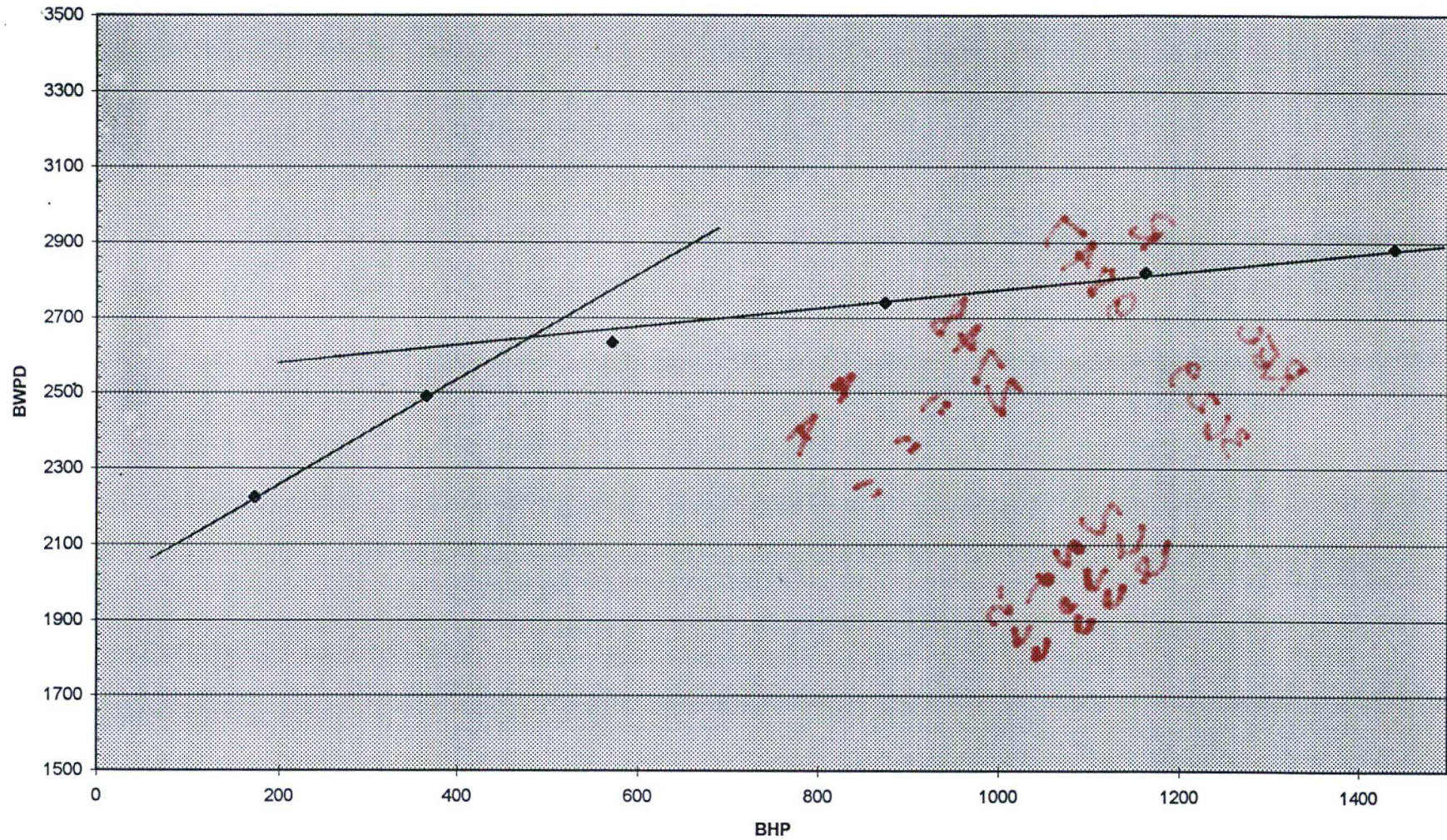
PACKER = 3007

BHP GAUGE DEPTH = 3223

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)
1	9:10	22.6				22.6		1534.2
	9:15	371.0	0.7	201.6	1.437	369.6	5.88	1908.1
	9:20	470.8	1.3	172.8	1.080	469.7	5.04	2009.5
	9:25	551.9	1.8	144.0	0.771	551.1	4.20	2072.6
	9:30	591.9	2.4	172.8	1.080	590.8	5.04	2134.4
	9:35	633.0	2.9	144.0	0.771	632.2	4.20	2176.0
	9:40	684.2	3.6	201.6	1.437	682.8	5.88	2224.0
				172.8				
	9:45	840.0	4.9	374.4	4.516	835.5	10.92	2339.1
	9:50	805.2	6.2	374.4	4.516	800.7	10.92	2396.7
2	9:55	906.1	7.4	345.6	3.895	902.2	10.08	2424.7
	10:00	861.3	8.7	374.4	4.516	856.8	10.92	2452.9
	10:05	951.1	10.0	374.4	4.516	946.6	10.92	2473.3
	10:10	892.6	11.2	345.6	3.895	888.7	10.08	2490.7
				364.8				
	10:15	1002.3	13.2	576.0	10.020	992.3	16.80	2565.8
	10:20	1009.8	15.2	576.0	10.020	999.8	16.80	2594.2
	10:25	1047.3	17.2	576.0	10.020	1037.3	16.80	2610.5
	10:30	1044.8	19.2	576.0	10.020	1034.8	16.80	2622.3
	10:35	1059.8	21.1	547.2	9.113	1050.7	15.96	2629.4
3	10:40	1053.6	23.1	576.0	10.020	1043.6	16.80	2635.2
				571.2				
	10:45	1128.5	26.2	892.8	22.542	1106.0	26.04	2695.6
	10:50	1142.3	29.2	864.0	21.216	1121.1	25.20	2709.7
	10:55	1156.0	32.2	864.0	21.216	1134.8	25.20	2719.4
	11:00	1163.5	35.3	892.8	22.542	1141.0	26.04	2727.2
	11:05	1164.8	38.3	864.0	21.216	1143.6	25.20	2733.8
	11:10	1168.5	41.3	864.0	21.216	1147.3	25.20	2740.1
				873.6				

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	11:15	1214.7	45.3	1152.0	36.124	1178.6	33.60	2780.4
	11:20	1228.4	49.4	1180.8	37.812	1190.6	34.44	2791.8
	11:25	1243.4	53.4	1152.0	36.124	1207.3	33.60	2800.1
	11:30	1257.1	57.5	1180.8	37.812	1219.3	34.44	2810.3
	11:35	1270.9	61.5	1152.0	36.124	1234.8	33.60	2816.2
	11:40	1289.6	65.5	1152.0	36.124	1253.5	33.60	2821.1
				1161.6				
	11:45	1357.0	70.5	1440.0	54.585	1302.4	42.00	2851.8
	11:50	1338.3	75.5	1440.0	54.585	1283.7	42.00	2860.1
	11:55	1365.7	80.5	1440.0	54.585	1311.1	42.00	2866.8
6	12:00	1362.0	85.5	1440.0	54.585	1307.4	42.00	2873.3
	12:05	1362.0	90.5	1440.0	54.585	1307.4	42.00	2878.3
	12:10	1355.7	95.5	1440.0	54.585	1301.1	42.00	2883.2
				1440.0				
	FALLOFF	12:11	1240.9			1240.9		2817.4
		12:12	1213.4			1213.4		2793.9
		12:13	1197.2			1197.2		2776.7
		12:14	1183.5			1183.5		2754.5
		12:15	1171.0			1171.0		2749.8
		12:20	1124.7			1124.7		2697.9
		12:25	1086.1			1086.1		2656.5

W.H. RHODES B NCT-1 #12



BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3086
Order No. R-2748

APPLICATION OF TEXACO INC.
FOR A WATERFLOOD PROJECT, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 22, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 29th day of July, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Texaco Inc., seeks permission to institute a waterflood project in the Rhodes Yates Oil Pool by the injection of water into the Yates and Seven Rivers formations through two injection wells in Section 26, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to institute a waterflood project in the Rhodes Yates Oil Pool by the injection of water into the Yates and Seven Rivers formations through the following-described wells in Section 26, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:

W. H. Rhodes "b" (NCT-1) Well No. 7, Unit L
W. H. Rhodes "b" (NCT-1) Well No. 10, Unit N

(2) That the subject waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

S E A L

A. L. PORTER, Jr., Member & Secretary

esr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 4271
Order No. R-2748-A

APPLICATION OF TEXACO INC. FOR A
WATERFLOOD EXPANSION AND AMENDMENT
OF ORDER NO. R-2748, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 25, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 3rd day of December, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Texaco Inc., is the operator of the Texaco Rhodes "B" Federal Waterflood Project in the Rhodes (Yates-Seven Rivers) Pool, Lea County, New Mexico, approved by Commission Order No. R-2748.

(3) That the applicant now seeks authority to expand said waterflood project by the injection of water into the Yates and Seven Rivers formations through three additional wells in Units B, H, and P of Section 27, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.

(4) That the applicant further seeks to institute an additional waterflood project in said pool by the injection of

water into the Yates and Seven Rivers formations through one well located in Unit N of Section 22 of said Township and Range.

(5) That the wells in the project areas are in an advanced state of depletion and should properly be classified as "stripper" wells.

(6) That the proposed expansion of the Rhodes "B" Federal Waterflood Project authorized by said Order No. R-2748 and the institution of the proposed new waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(7) That the applicant further seeks the establishment of an administrative procedure whereby said projects could be expanded to include additional lands and injection wells in the area of said projects as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.

(8) That the subject application should be approved and the projects should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided, however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to expand its Rhodes "B" Federal Waterflood Project in the Rhodes (Yates-Seven Rivers) Pool, authorized by Order No. R-2748, by the injection of water into the Yates and Seven Rivers formations through the following-described three additional wells in Section 27, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:

W. H. Rhodes "b" (NCT-1) Well No. 5 located in Unit B
W. H. Rhodes "b" (NCT-1) Well No. 4 located in Unit H
W. H. Rhodes "b" (NCT-1) Well No. 9 located in Unit P

(2) That the applicant, Texaco Inc., is hereby authorized to institute a waterflood project in the Rhodes (Yates-Seven Rivers)

Pool, to be designated the Texaco Rhodes "A" Federal Waterflood Project, by the injection of water into the Yates and Seven Rivers formations through its W. H. Rhodes "A" Federal Well No. 4 located in Unit N of Section 22, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the subject waterflood projects shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the above-described waterflood projects to include such additional lands and injection wells in the area of said projects as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO,
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

CONFUSION BETWEEN

NCT'S 1 & 2

AND RHODES A & B

NEED TO MAKE SURE

✓ GET CORRECT
LOCATIONS.

(85)

11-30-94

JAN-12-95 THU 13:18

505 397 0450

P.01

Ben Stone

505-827-8177

W. H. Rhodes B Fed NCT-2 #3
 1980' FSL, 660 FEL
 28-265-37E Spot I

W. H. Rhodes B Fed NCT-2 #4
 660' FSL 660' FEL
 28-265-37E Spot P

W. H. Rhodes B Fed NCT-2 #5
 1980' FSL, 1980' FEL
 28-265-37E Spot J

convert to

IND. 6.9.94

W. H. Rhodes B Fed NCT-2 #6
 660' FSL, 1880' FEL
 28-265-37E Spot. O

W. H. Rhodes B Fed NCT-1 #8
 660' FSL, 660' FWL
 26-265-37E Spot. M

W. H. Rhodes B Fed NCT-1 #11
 1980' FSL, 1980' FWL
 26-265-37E Spot K

W. H. Rhodes B Fed NCT-1 #12
 660' FSL, 1980' FEL
 26-265-37E Spot O

EXHIBIT "A"
CASE NO. 10948
DIVISION ORDER NO. R-10104
W.H. RHODES "B" FEDERAL (NCT-2) WATERFLOOD PROJECT
APPROVED INJECTION WELLS

<i>Well Name</i>	<i>Well No.</i>	<i>Location</i>	<i>Unit</i>	<i>S-T-R</i>	<i>Injection Perforations</i>	<i>Packer Depth</i>	<i>Tubing Size</i>
W.H. Rhodes "B" Federal (NCT-2)	5	1980 'FSL - 1980' FEL	J	28-26S-37E	3007' - 3302'	2957'	2 3/8"
W.H. Rhodes "B" Federal (NCT-2)	6	660' FSL - 1880' FEL	O	28-26S-37E	3127' -3224'	3077'	2 3/8"



Texaco E & P

PO Box 2088
Hobbs NM 88240
505 390 7191

395.2423
OIL CONSERVATION DIVISION
RECEIVED

OCT 31 1994

October 31, 1994

New Mexico Oil Conservation Division
PO Box 2088
Santa Fe NM 87504

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

Re: PRESSURE INCREASE ON INJECTION WELLS
W. H. Rhodes B Fed NCT-2
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 four wells on the Rhodes B Fed NCT-2 lease. A step rate injection test was run on each well. Results of the test are attached. The attached table shows the present maximum allowable pressures along with the requested allowable pressures. We are also requesting that our maximum allowable surface pressures include friction which is also included in the table.

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

WELL NAME	PRESENT MAXIMUM ALLOWABLE SURFACE PRESSURE	BHFP	STFP	FRICTION *	REQUESTED MAXIMUM ALLOWABLE SURFACE PRESSURE
Rhodes B NCT-2 #3	600	2240	798	15	748 813
Rhodes B NCT-2 #4	600	2420	957	16	907 973
Rhodes B NCT-2 #5	600	2160	842	15	792 857
Rhodes B NCT-2 #6	600	2120	733	16	683 749

BHFP=BOTTOM HOLE FRAC PRESSURE

STFP=SURFACE TREATING FRAC
PRESSURE

FLUID GRADIENT=.4546

DBG=DEPTH OF BOTTOM HOLE GAGE

STFP=BHFP-(.4546xDBG)

*FRICTION PRESSURE CALCULATED
@ 500 BWPD

WFX 645 3 & 4
R.10104 5 & 6 - CASE 10948
WFX 645 8
658 11 & 12
CAN'T FIND
#5 OR #6

FOUND #6 IN ONGARD
IN CORRECT UL - NO
FOOTAGES

WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 18, 1994

WELL NAME: RHODES B NCT 2 NO. 3
LEA COUNTY, NEW MEXICO

WO#: 94-14-1702

PERFS = 3018-3325

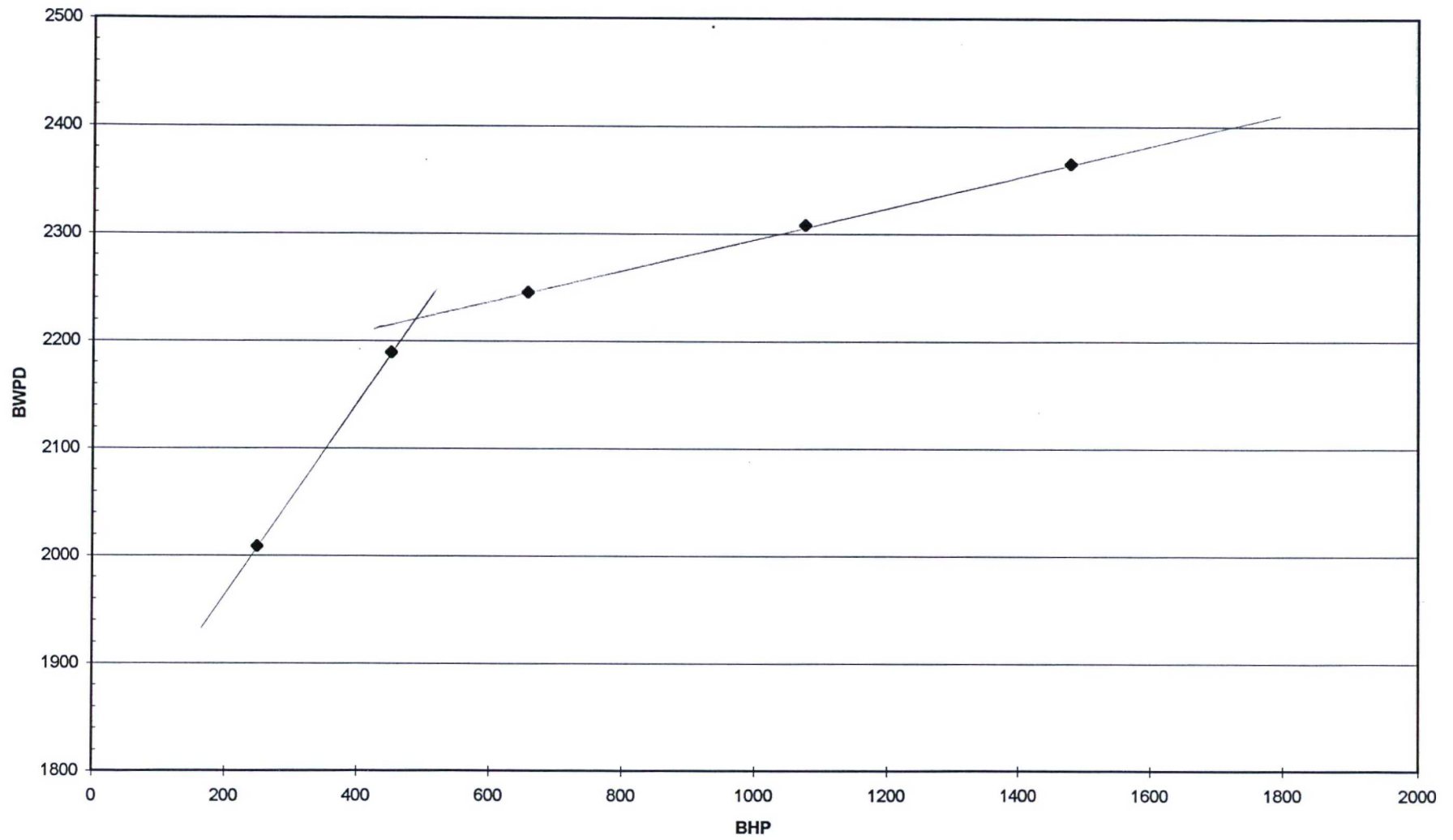
PACKER DEPTH = 2970

BHP GAUGE DEPTH = 3172

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)
1	9:25	27.6				27.6		1531.2
	9:30	273.8	0.9	259.2	2.251	271.5	7.56	1797.9
	9:35	358.6	1.8	259.2	2.251	356.3	7.56	1872.4
	9:40	413.4	2.7	259.2	2.251	411.1	7.56	1932.8
	9:45	464.6	3.5	230.4	1.810	462.8	6.72	1966.0
	9:50	499.5	4.4	259.2	2.251	497.2	7.56	1988.8
	9:55	488.4	5.2	230.4	1.810	486.6	6.72	2008.7
				249.6				
	10:00	630.5	6.7	432.0	5.792	624.7	12.60	2130.2
	10:05	657.9	8.3	460.8	6.526	651.4	13.44	2158.8
2	10:10	697.7	9.9	460.8	6.526	691.2	13.44	2169.1
	10:15	654.1	11.4	432.0	5.792	648.3	12.60	2181.0
	10:20	680.4	13.0	460.8	6.526	673.9	13.44	2183.6
	10:25	639.4	14.6	460.8	6.526	632.9	13.44	2189.3
				451.2				
	10:30	719.2	16.9	662.4	12.772	706.4	19.32	2226.7
	10:35	733.1	19.1	633.6	11.763	721.3	18.48	2234.6
	10:40	743.1	21.4	662.4	12.772	730.3	19.32	2235.8
	10:45	730.7	23.7	662.4	12.772	717.9	19.32	2240.4
	10:50	735.7	26.0	662.4	12.772	722.9	19.32	2241.6
3	10:55	760.7	28.3	662.4	12.772	747.9	19.32	2245.5
				657.6				
	11:00	798.1	32.1	1094.4	32.334	765.8	31.92	2295.0
	11:05	803.1	35.8	1065.6	30.777	772.3	31.08	2301.0
	11:10	793.1	39.5	1065.6	30.777	762.3	31.08	2302.6
	11:15	784.4	43.2	1065.6	30.777	753.6	31.08	2305.4
	11:20	783.2	47.0	1094.4	32.334	750.9	31.92	2306.4
	11:25	790.7	50.7	1065.6	30.777	759.9	31.08	2308.4
				1075.2				

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 FALLOFF	11:30	881.6	55.8	1468.8	55.726	825.9	42.84	2353.9
	11:35	869.2	60.9	1468.8	55.726	813.5	42.84	2360.1
	11:40	843.0	66.0	1468.8	55.726	787.3	42.84	2361.5
	11:45	853.0	71.1	1468.8	55.726	797.3	42.84	2362.4
	11:50	885.4	76.3	1497.6	57.764	827.6	43.68	2366.3
	11:55	879.2	81.5	1497.6	57.764	821.4	43.68	2365.4
				1478.4				
	11:56	697.3				697.3		2257.2
	11:57	668.6				668.6		2225.9
	11:57	651.2				651.2		2208.5
	11:59	638.7				638.7		2195.7
	12:00	628.8				628.8		2184.6
	12:05	591.4				591.4		2144.9
	12:10	560.2				560.2		2111.4

W.H. RHODES B NCT-2 #3



WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 19, 1994

WELL NAME: RHODES B NCT 2 NO. 4
LEA COUNTY, NEW MEXICO

WO#: 94-14-1703

PERFS = 3114-3320

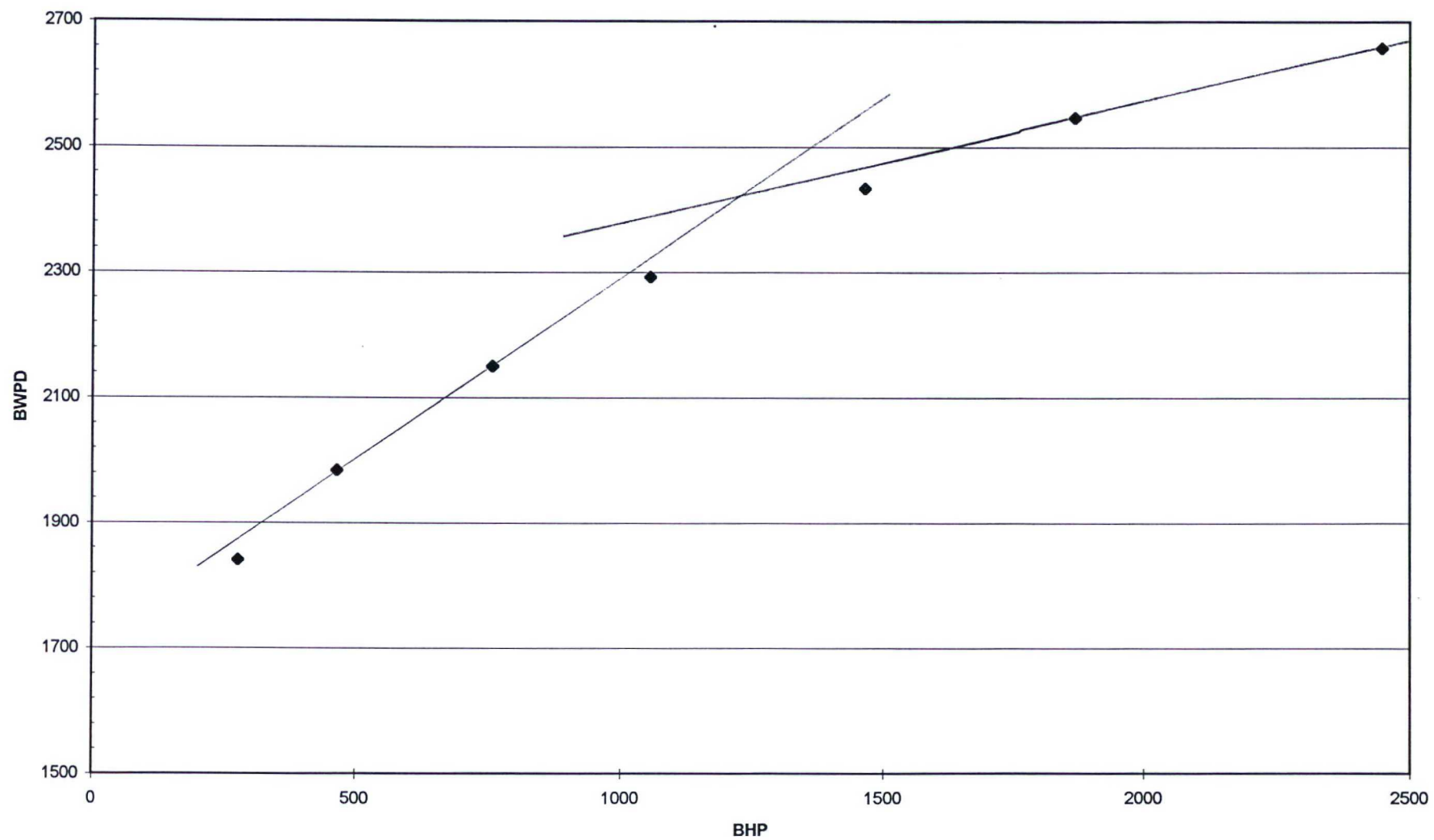
PACKER DEPTH = 3065

BHP GAUGE DEPTH = 3217

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)
1	9:20	73.3				73.3		1580.6
	9:25	217.4	1.2	345.6	3.984	213.4	10.08	1738.2
	9:30	242.4	2.1	259.2	2.340	240.1	7.56	1769.7
	9:35	261.1	3.0	259.2	2.340	258.8	7.56	1787.5
	9:40	277.3	3.9	259.2	2.340	275.0	7.56	1811.8
	9:45	314.7	4.9	288.0	2.843	311.9	8.40	1826.7
	9:50	299.8	5.8	259.2	2.340	297.5	7.56	1840.6
				278.4				
	9:55	387.1	7.5	489.6	7.589	379.5	14.28	1904.4
	10:00	384.6	9.0	432.0	6.020	378.6	12.60	1926.4
2	10:05	423.2	10.7	489.6	7.589	415.6	14.28	1945.7
	10:10	435.7	12.3	460.8	6.784	428.9	13.44	1960.4
	10:15	424.6	13.9	460.8	6.784	417.8	13.44	1975.4
	10:20	477.1	15.5	460.8	6.784	470.3	13.44	1984.0
				465.6				
	10:25	544.5	18.2	777.6	17.859	526.6	22.68	2058.1
	10:30	568.4	20.7	720.0	15.489	552.9	21.00	2082.5
	10:35	573.5	23.4	777.6	17.859	555.6	22.68	2104.2
	10:40	593.6	26.0	748.8	16.655	576.9	21.84	2121.2
	10:45	606.1	28.6	748.8	16.655	589.4	21.84	2136.7
3	10:50	607.5	31.3	777.6	17.859	589.6	22.68	2150.3
				758.4				
	10:55	669.8	35.0	1065.6	31.990	637.8	31.08	2210.6
	11:00	696.0	38.7	1065.6	31.990	664.0	31.08	2233.6
	11:05	707.2	42.4	1065.6	31.990	675.2	31.08	2251.6
	11:10	721.0	46.0	1036.8	30.409	690.6	30.24	2267.9
	11:15	740.9	49.7	1065.6	31.990	708.9	31.08	2282.2
	11:20	778.3	53.3	1036.8	30.409	747.9	30.24	2293.2
				1056.0				

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	11:25	890.4	58.4	1468.8	57.922	832.5	42.84	2352.7
	11:30	900.4	63.5	1468.8	57.922	842.5	42.84	2374.4
	11:35	925.3	68.6	1468.8	57.922	867.4	42.84	2393.0
	11:40	941.5	73.6	1440.0	55.839	885.7	42.00	2408.1
	11:45	930.3	78.7	1468.8	57.922	872.4	42.84	2420.0
	11:50	901.6	83.8	1468.8	57.922	843.7	42.84	2433.4
				1464.0				
	11:55	1006.2	90.2	1843.2	88.160	918.0	53.76	2476.8
	12:00	1007.5	96.7	1872.0	90.726	916.8	54.60	2496.5
	12:05	1020.0	103.2	1872.0	90.726	929.3	54.60	2509.7
6	12:10	1028.7	109.6	1843.2	88.160	940.5	53.76	2524.5
	12:15	1043.7	116.1	1872.0	90.726	953.0	54.60	2534.8
	12:20	1057.4	122.7	1900.8	93.325	964.1	55.44	2546.6
				1867.2				
	12:25	1156.0	131.1	2419.2	145.800	1010.2	70.56	2589.8
	12:30	1188.5	139.6	2448.0	149.027	1039.5	71.40	2607.2
	12:35	1224.7	148.0	2419.2	145.800	1078.9	70.56	2621.2
	12:40	1254.6	156.6	2476.8	152.287	1102.3	72.24	2634.1
	12:45	1265.9	165.1	2448.0	149.027	1116.9	71.40	2646.4
	12:50	1275.9	173.7	2476.8	152.287	1123.6	72.24	2657.8
FALLOFF				2448.0				
	12:51	1066.1				1066.1		2595.3
	12:52	1041.2				1041.2		2567.4
	12:53	1021.2				1021.2		2547.1
	12:54	1005.0				1005.0		2529.9
	12:55	990.1				990.1		2517.6
	1:00	936.5				936.5		2459.8
	1:05	895.4				895.4		2415.9

W.H. RHODES B NCT-2 #4



WEST-TEST, INC.
A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 21, 1994

WELL NAME: RHODES B NCT 2 NO. 6
LEA COUNTY, NEW MEXICO

WO#: 94-14-1822

PERFS = 3168-3324

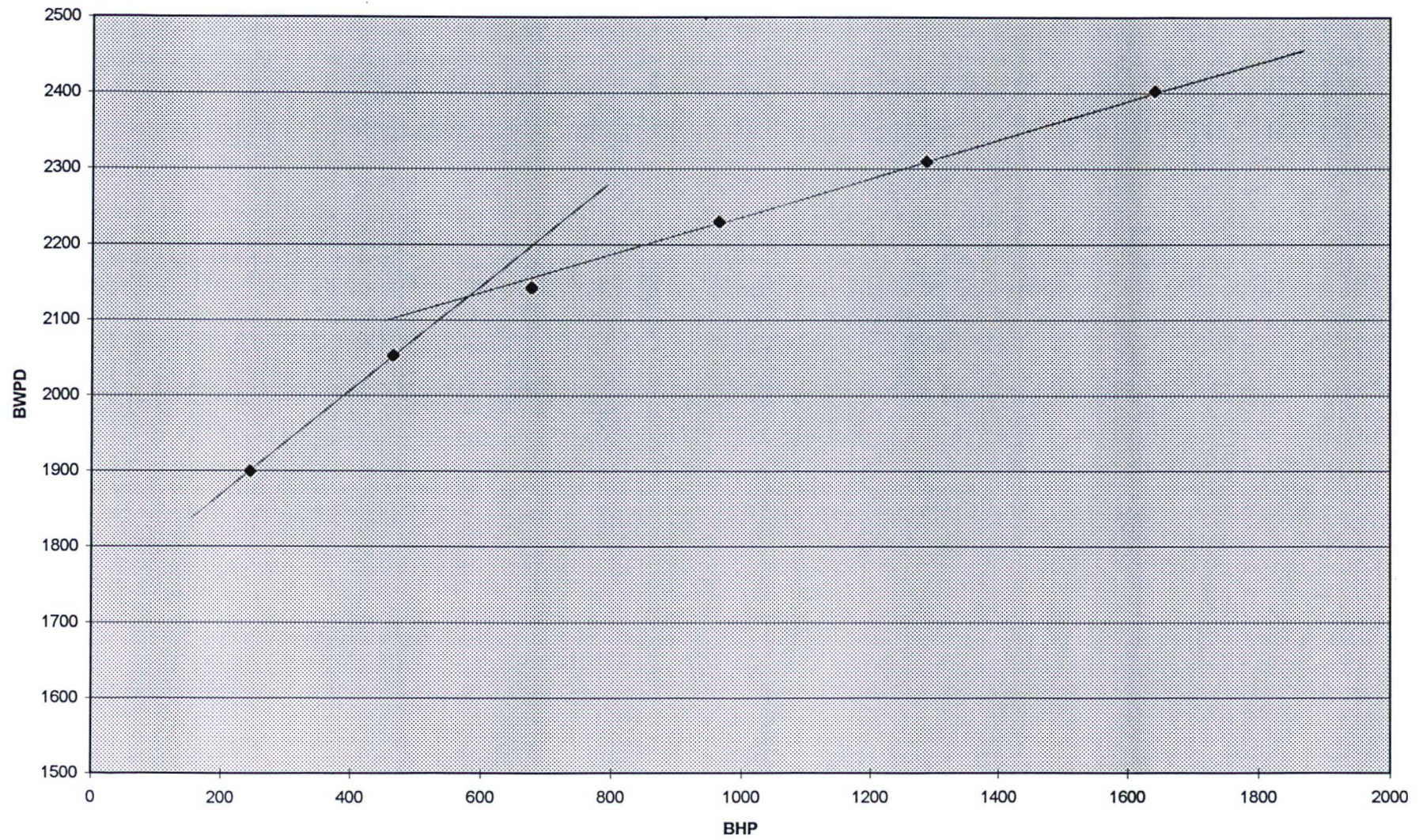
PACKER DEPTH = 3113

BHP GAUGE DEPTH = 3050

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbis)	(3) INJECTION RATE (bbis/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	9:05	59.1				59.1		1485.5
	9:10	309.2	0.9	259.2	2.165	307.0	7.56	1745.8
	9:15	372.9	1.8	259.2	2.165	370.7	7.56	1821.8
	9:20	419.1	2.7	259.2	2.165	416.9	7.56	1850.1
	9:25	452.7	3.5	230.4	1.741	451.0	6.72	1872.3
	9:30	421.6	4.3	230.4	1.741	419.9	6.72	1890.0
	9:35	439.2	5.1	230.4	1.741	437.5	6.72	1899.7
				244.8				
	9:40	510.2	6.8	489.6	7.020	503.2	14.28	1998.8
	9:45	552.7	8.5	489.6	7.020	545.7	14.28	2015.6
2	9:50	540.2	10.1	460.8	6.275	533.9	13.44	2025.9
	9:55	571.4	11.7	460.8	6.275	565.1	13.44	2034.5
	10:00	586.4	13.3	460.8	6.275	580.1	13.44	2044.6
	10:05	551.5	14.8	432.0	5.569	545.9	12.60	2053.0
				465.6				
	10:10	618.8	17.1	662.4	12.281	606.5	19.32	2104.0
	10:15	651.2	19.5	691.2	13.287	637.9	20.16	2123.9
	10:20	637.5	21.8	662.4	12.281	625.2	19.32	2131.4
	10:25	648.7	24.2	691.2	13.287	635.4	20.16	2138.4
	10:30	645.0	26.5	662.4	12.281	632.7	19.32	2140.6
3	10:35	647.5	28.9	691.2	13.287	634.2	20.16	2142.5
				676.8				
	10:40	723.5	32.3	979.2	25.308	698.2	28.56	2197.9
	10:45	737.2	35.7	979.2	25.308	711.9	28.56	2209.7
	10:50	759.7	39.0	950.4	23.948	735.8	27.72	2208.3
	10:55	764.6	42.3	950.4	23.948	740.7	27.72	2219.3
	11:00	800.8	45.8	1008.0	26.702	774.1	29.40	2225.2
	11:05	794.6	49.0	921.6	22.623	772.0	26.88	2229.7
				964.8				

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	11:10	843.1	53.5	1296.0	42.507	800.6	37.80	2265.5
	11:15	845.6	58.0	1296.0	42.507	803.1	37.80	2277.8
	11:20	844.4	62.4	1267.2	40.776	803.6	36.96	2286.6
	11:25	846.9	66.8	1267.2	40.776	806.1	36.96	2295.2
	11:30	855.6	71.3	1296.0	42.507	813.1	37.80	2302.6
	11:35	861.8	75.8	1296.0	42.507	819.3	37.80	2309.8
				1286.4				
	11:40	920.3	81.4	1612.8	63.704	856.6	47.04	2345.0
	11:45	932.8	87.1	1641.6	65.825	867.0	47.88	2361.1
	11:50	956.4	92.9	1670.4	67.977	888.4	48.72	2372.6
6	11:55	982.6	98.6	1641.6	65.825	916.8	47.88	2384.1
	12:00	996.3	104.3	1641.6	65.825	930.5	47.88	2394.2
	12:05	1013.7	110.0	1641.6	65.825	947.9	47.88	2402.7
				1641.6				
FALLOFF	12:06	890.5				890.5		2351.1
	12:07	871.8				871.8		2332.4
	12:08	856.9				856.9		2316.5
	12:09	844.4				844.4		2302.5
	12:10	833.2				833.2		2291.3
	12:15	784.7				784.7		2239.6
	12:20	744.8				744.8		2197.2

W.H. RHODES B NCT-2 #6



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 20, 1994

WELL NAME: RHODES B NCT 2 NO. 5
LEA COUNTY, NEW MEXICO

WO#: 94-14-1821

PERFS = 3007-3304

PACKER DEPTH = 2980

BHP GAUGE DEPTH = 2900

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)
1	9:05	20.2				20.2		1388.4
	9:10	158.2	1.3	374.4	4.064	154.1	10.92	1526.2
	9:15	200.4	2.5	345.6	3.504	196.9	10.08	1575.0
	9:20	227.8	3.8	374.4	4.064	223.7	10.92	1610.6
	9:25	290.1	5.1	374.4	4.064	286.0	10.92	1647.9
	9:30	281.4	6.3	345.6	3.504	277.9	10.08	1669.9
	9:35	305.1	7.5	345.6	3.504	301.6	10.08	1685.8
				360.0				
	9:40	413.6	9.8	662.4	11.677	401.9	19.32	1797.3
	9:45	451.0	12.1	662.4	11.677	439.3	19.32	1845.4
2	9:50	468.5	14.4	662.4	11.677	456.8	19.32	1871.5
	9:55	503.4	16.6	633.6	10.755	492.6	18.48	1892.8
	10:00	542.1	18.9	662.4	11.677	530.4	19.32	1918.6
	10:05	547.2	21.2	662.4	11.677	535.5	19.32	1933.2
				657.6				
	10:10	635.7	24.5	950.4	22.770	612.9	27.72	1998.4
	10:15	674.5	27.8	950.4	22.770	651.7	27.72	2035.3
	10:20	695.6	31.1	950.4	22.770	672.8	27.72	2050.0
	10:25	718.1	34.5	979.2	24.063	694.0	28.56	2070.8
	10:30	731.8	37.8	950.4	22.770	709.0	27.72	2083.5
3	10:35	737.0	41.1	950.4	22.770	714.2	27.72	2099.2
				955.2				
	10:40	773.2	45.5	1267.2	38.771	734.4	36.96	2143.3
	10:45	780.8	49.8	1238.4	37.157	743.6	36.12	2163.5
	10:50	799.5	54.1	1238.4	37.157	762.3	36.12	2171.1
	10:55	813.2	58.5	1267.2	38.771	774.4	36.96	2181.5
	11:00	805.7	62.9	1267.2	38.771	766.9	36.96	2195.0
	11:05	809.5	67.3	1267.2	38.771	770.7	36.96	2202.3
				1257.6				

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	11:10	894.1	73.0	1641.6	62.587	831.5	47.88	2243.8
	11:15	925.3	78.8	1670.4	64.634	860.7	48.72	2263.1
	11:20	944.0	84.7	1699.2	66.711	877.3	49.56	2269.9
	11:25	958.9	90.4	1641.6	62.587	896.3	47.88	2287.7
	11:30	980.1	96.1	1641.6	62.587	917.5	47.88	2294.5
	11:35	1000.0	101.8	1641.6	62.587	937.4	47.88	2305.0
				1656.0				
	11:40	1053.6	109.0	2073.6	96.424	957.2	60.48	2338.8
	11:45	1047.4	116.2	2073.6	96.424	951.0	60.48	2352.5
	11:50	1041.2	123.5	2102.4	98.916	942.3	61.32	2357.9
6	11:55	1051.1	130.5	2016.0	91.527	959.6	58.80	2363.5
	12:00	1052.4	137.7	2073.6	96.424	956.0	60.48	2372.3
	12:05	1058.6	144.8	2044.8	93.961	964.6	59.64	2382.4
				2064.0				
	FALLOFF 12:06	891.7				891.7		2308.7
	12:07	868.1				868.1		2299.3
	12:08	850.6				850.6		2280.4
	12:09	837.0				837.0		2266.3
	12:10	824.5				824.5		2253.8
	12:15	775.9				775.9		2202.3
	12:20	737.4				737.4		2161.6

W.H. RHODES B NCT-2 #5

