

OIL CONSERVATION DIVISION

CF 4134
R-3768

WFX-608

August 17, 1995

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

Attn: Ms. Darlene de Aragao

PDEV0020600608

621

PDEV0020600621

646

PDEV0020600646

654

PDEV0020600654

669

PDEV0020600669

**RE: Injection Pressure Increase West Dollarhide Drinkard
Unit Waterflood Project, Lea County, New Mexico**

Dear Ms. de Aragao:

Reference is made to your request dated July 27, 1995 to increase the surface injection pressure on 12 wells in the above referenced project. This request is based on step rate tests conducted on these wells between December 5, 1994 and July 18, 1995. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on several wells is justified at this time.

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

Well and Location	Maximum Surface Injection Pressure
West Dollarhide Drinkard Unit Well No.36 Unit Letter O, Section 29, Township 24 South, Range 38 East	1435 PSIG
West Dollarhide Drinkard Unit Well No.130 Unit Letter G, Section 32, Township 24 South, Range 38 East	1730 PSIG
West Dollarhide Drinkard Unit Well No.139 Unit Letter C, Section 30, Township 24 South, Range 38 East	1395 PSIG
West Dollarhide Drinkard Unit Well No.140 Unit Letter J, Section 32, Township 24 South, Range 38 East	1595 PSIG
West Dollarhide Drinkard Unit Well No.146 Unit Letter C, Section 32, Township 24 South, Range 38 East	1378 PSIG
West Dollarhide Drinkard Unit Well No.151 Unit Letter B, Section 5, Township 25 South, Range 38 East	1409 PSIG
West Dollarhide Drinkard Unit Well No.152 Unit Letter M, Section 29, Township 24 South, Range 38 East	1325 PSIG

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.

One well included in your request is on record for a maximum permitted surface injection pressure in excess of the requested increase. This well, along with the currently permitted pressure is as follows:

Well and Location	Maximum Surface Injection Pressure
West Dollarhide Drinkard Unit Well No.46 Unit Letter A, Section 31, Township 24 South, Range 38 East	1666 PSIG

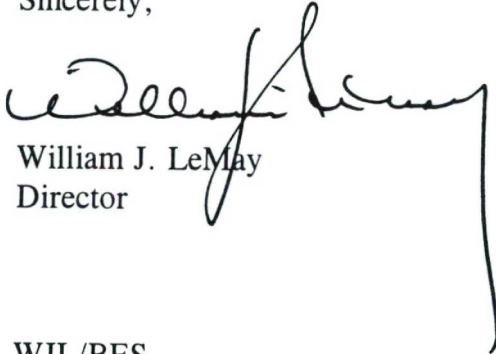
Based on the data provided with your request, the following wells do not qualify for an injection pressure increase at this time:

Well and Location	Maximum Surface Injection Pressure
West Dollarhide Drinkard Unit Well No.15 Unit Letter A, Section 30, Township 24 South, Range 38 East	1300 PSIG
West Dollarhide Drinkard Unit Well No.88 Unit Letter A, Section 5, Township 25 South, Range 38 East	1413 PSIG* (Current permitted Injection Pressure on record is greater than indicated in this request.)
West Dollarhide Drinkard Unit Well No.120 Unit Letter F, Section 32, Township 24 South, Range 38 East	1550 PSIG
West Dollarhide Drinkard Unit Well No.150 Unit Letter P, Section 31, Township 24 South, Range 38 East	1300 PSIG
All wells located in Lea County, New Mexico.	

Injection Pressure Increase
Texaco Exploration & Production, Inc.
August 17, 1995
Page 3

If additional data is provided which may justify an injection pressure increase on these wells, a subsequent request for such can be considered at that time.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', with a long vertical line extending downwards from the end of the signature.

William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Hobbs
Files: WFXs-608, 621, 646, 654, 669; PSI-X 3rd QTR 95; Case File No.4134

1st



PS) x N/R

OIL CONSERVATION DIVISION
RECEIVED

JUL 27 1995

July 27, 1995

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

Attn: Mr. Benjamin Stone
Engineering Tech II, New Mexico Oil Conservation Division

Re: PRESSURE INCREASE ON INJECTION WELLS
West Dollarhide Drinkard Unit
T-24-S & T-25-S, Rg-38-E
Lea County, New Mexico

Dear Benjamin Stone:

Texaco Exploration and Production Inc. requests an increase in the maximum allowable pressure on ten wells on the West Dollarhide Drinkard unit. 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.

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,

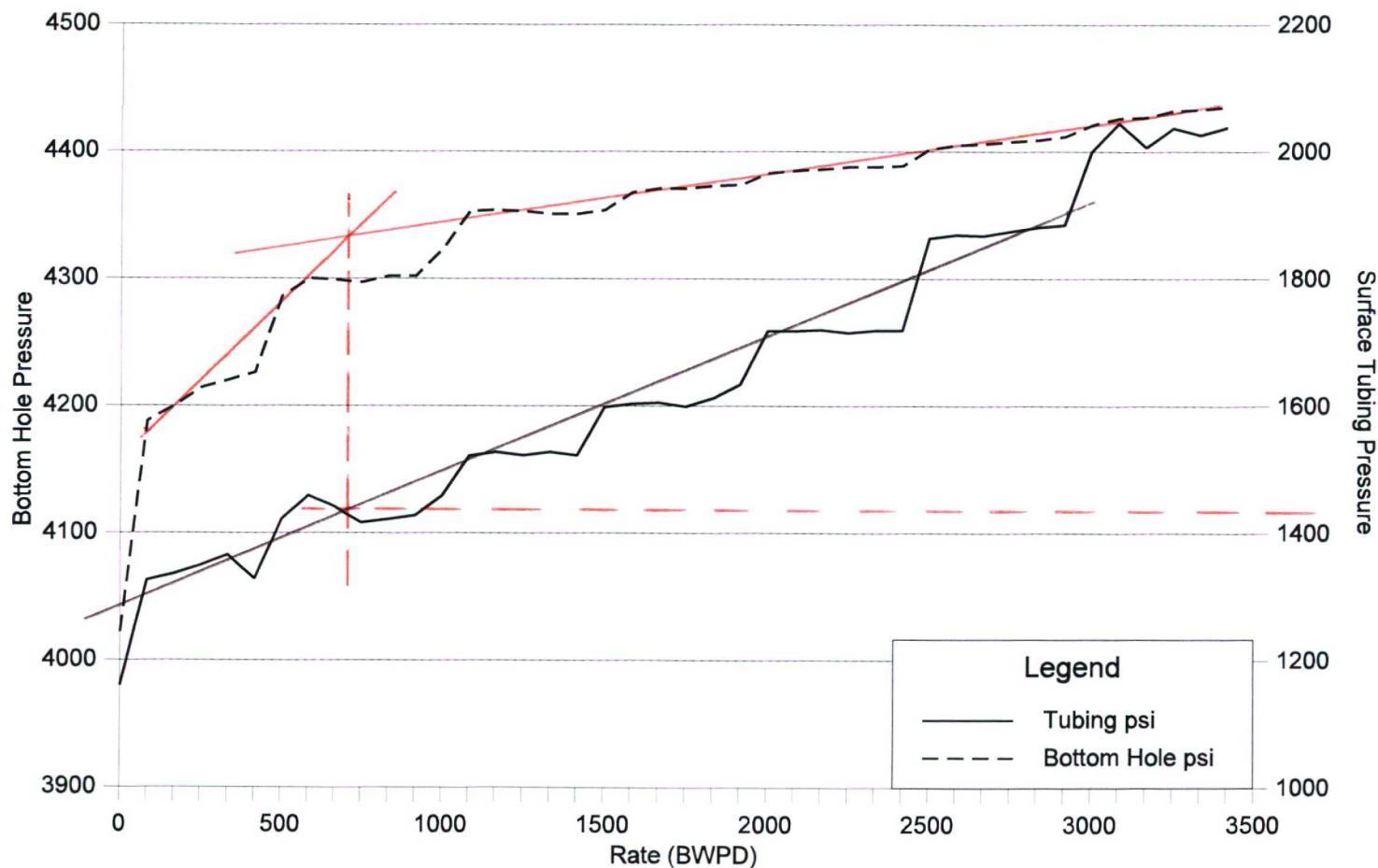
Darlene de Aragao
Production Engineer

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

REplot of
Ternco's DATA
8-14-95 *BS*

Step Rate Test

WDDU Well No.146



DATA AND/OR PRESENTATION OF DATA IS QUESTIONABLE. NOT SURE OF APPLICANT'S FLUID GRADIENT OF .45/FT BUT IT DEFINITELY DOES NOT APPLY ACROSS THE BOARD ON THESE 10 WELLS.

15
120
140

WELL NAME	PRESENT MAXIMUM ALLOWABLE SURFACE PRESSURE	BHFP	REQUESTED MAXIMUM ALLOWABLE SURFACE PRESSURE
A 30 24 38 WDDU 15	1300	4180	1445 ? NO INCREASE
O 29 24 38 WDDU 36	1300	4275	1485 ✓ 1435
A 31 24 38 WDDU 46 1666	1383	4310	1475 ✓ ALLOW 1970 GO w/ REQUEST
A 5 25 38 WDDU 88 1413	1299	4315	1527 - 1410
F 32 24 38 WDDU 120	1550	4640	1872 - NO INCREASE
G 32 24 38 WDDU 130	1580	4640	1760 - 1730
C 30 24 38 WDDU 139	1300	4420	1620 - 1395
J 32 24 38 WDDU 140	1570	4740	1810 - 1595
C 32 24 38 WDDU 146	1350	4330	1450 - 1378
P 31 24 38 WDDU 150	1300	4190	1400 - NO INCREASE
B 5 25 38 WDDU 151	1300	4220	1430 - 1409
M 29 24 38 WDDU 152	1300	4290	1455 - 1325

BHFP=BOTTOM HOLE FRAC PRESSURE
STFP=SURFACE TREATING FRAC PRESSURE
DBG=DEPTH OF BOTTOM HOLE GAGE
FLUID GRADIENT=.450

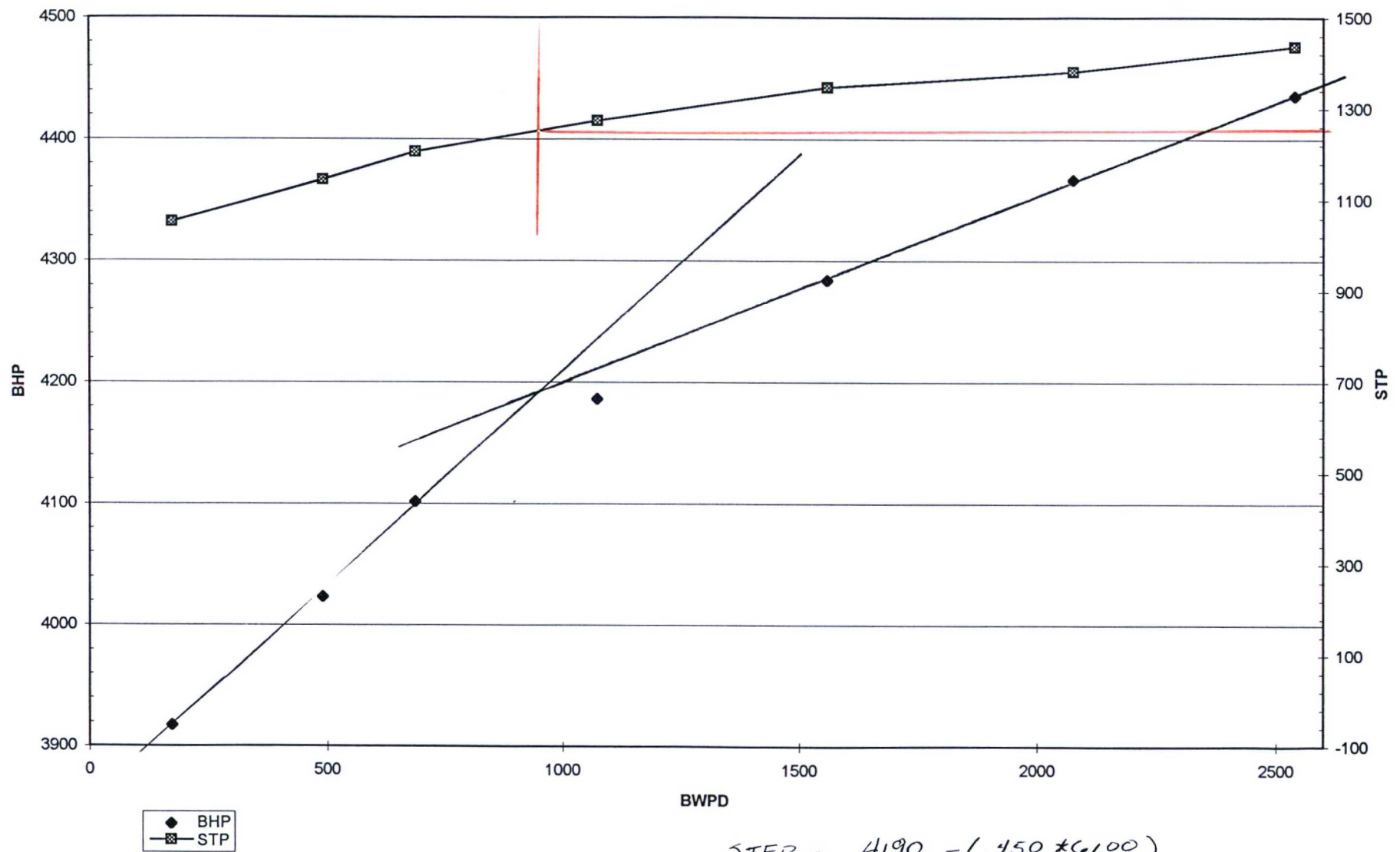
$$STFP=BHFP-(.45 \times DBG)$$

608
~~621~~
646
669

608
621
646
654
669
CC wfx

R 3768 cs 4134

WEST DOLLARHIDE DRINKARD UNIT #15



$$STFP = 4190 - (.450 * 6100)$$

$$= 1445$$

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

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 5, 1994

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO 15
LEA COUNTY, NEW MEXICO

WO#: 94-14-2073

PERFS = 6607-6675

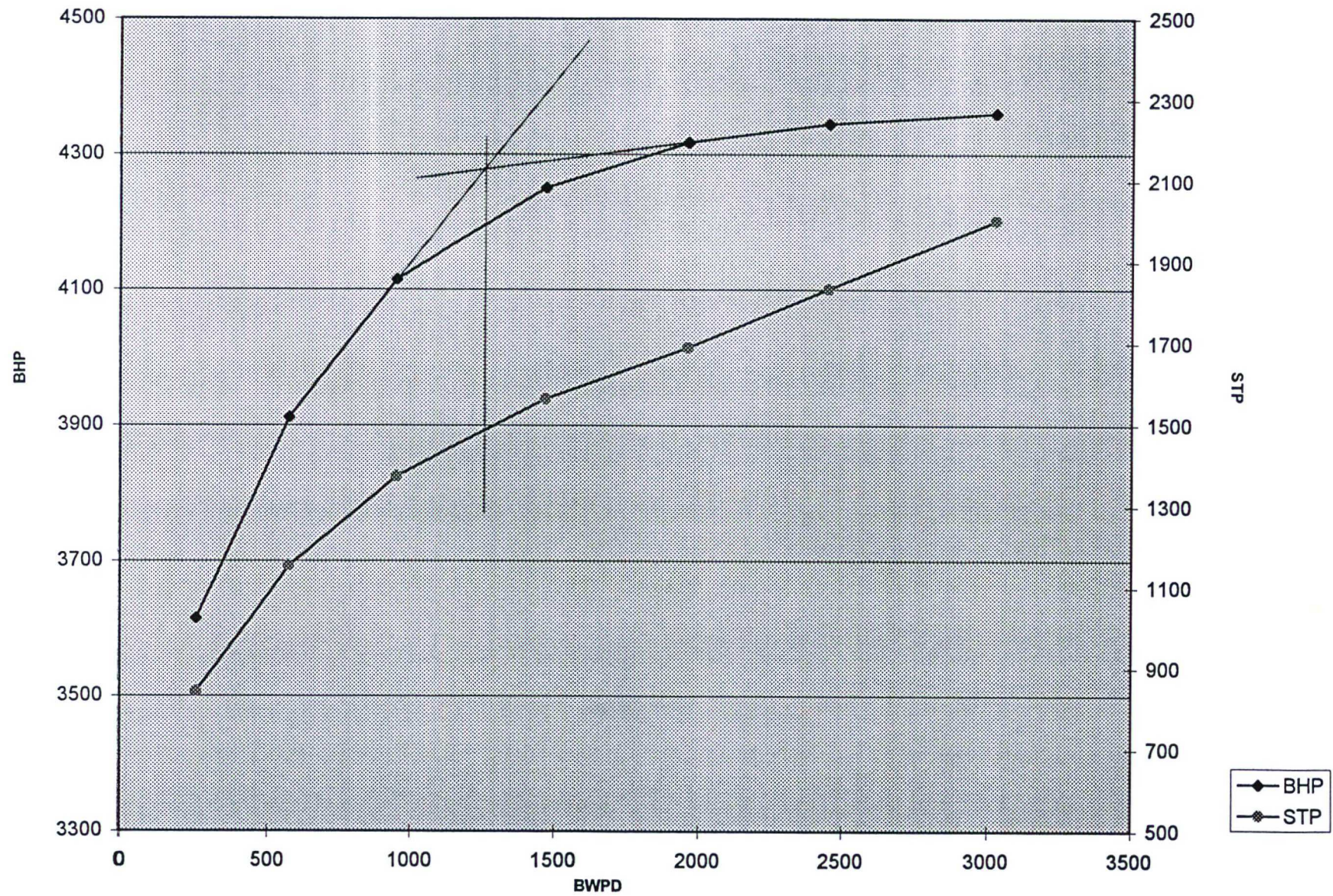
PACKER DEPTH = 6500

BHP GAUGE DEPTH = 6100

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	10:30	980.1				980.1		3842.9
	10:35	1002.9	0.7	201.6	2.719	1000.2	5.88	3864.2
	10:40	1016.8	1.3	172.8	2.045	1014.8	5.04	3875.7
	10:45	1034.6	1.8	144.0	1.459	1033.1	4.20	3890.6
	10:50	1040.8	2.4	172.8	2.045	1038.8	5.04	3897.3
	10:55	1047.0	3.0	172.8	2.045	1045.0	5.04	3905.8
	11:00	1053.3	3.6	172.8	2.045	1051.3	5.04	3917.5
				172.8				
	11:05	1090.3	5.3	489.6	14.040	1076.3	14.28	3945.6
	11:10	1113.2	7.1	518.4	15.606	1097.6	15.12	3960.1
2	11:15	1110.0	8.7	460.8	12.551	1097.4	13.44	3984.3
	11:20	1138.7	10.4	489.6	14.040	1124.7	14.28	3992.7
	11:25	1132.3	12.2	518.4	15.606	1116.7	15.12	4012.6
	11:30	1155.4	13.8	460.8	12.551	1142.8	13.44	4023.4
				489.6				
	11:35	1182.3	16.2	691.2	26.573	1155.7	20.16	4033.6
	11:40	1195.1	18.6	691.2	26.573	1168.5	20.16	4050.6
	11:45	1198.9	20.9	662.4	24.561	1174.3	19.32	4075.3
	11:50	1222.0	23.3	691.2	26.573	1195.4	20.16	4075.5
	11:55	1227.1	25.8	720.0	28.658	1198.4	21.00	4089.2
3	12:00	1229.7	28.1	662.4	24.561	1205.1	19.32	4101.4
				686.4				
	12:05	1289.9	31.9	1094.4	62.180	1227.7	31.92	4119.5
	12:10	1300.1	35.5	1036.8	56.261	1243.8	30.24	4136.7
	12:15	1314.2	39.3	1094.4	62.180	1252.0	31.92	4154.1
	12:20	1320.5	43.0	1065.6	59.187	1261.3	31.08	4161.2
	12:25	1321.7	46.7	1065.6	59.187	1262.5	31.08	4177.8
	12:30	1331.9	50.4	1065.6	59.187	1272.7	31.08	4186.2
				1070.4				

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	12:35	1418.9	55.8	1555.2	119.119	1299.8	45.36	4210.1
	12:40	1430.4	61.3	1584.0	123.232	1307.2	46.20	4232.1
	12:45	1445.7	66.7	1555.2	119.119	1326.6	45.36	4245.6
	12:50	1454.8	72.2	1584.0	123.232	1331.6	46.20	4259.4
	12:55	1458.7	77.6	1555.2	119.119	1339.6	45.36	4269.8
	1:00	1465.2	83.0	1555.2	119.119	1346.1	45.36	4283.9
				1564.8				
	1:05	1562.6	90.2	2073.6	202.822	1359.8	60.48	4307.8
	1:10	1557.6	97.3	2044.8	197.642	1360.0	59.64	4321.4
	1:15	1569.2	104.5	2073.6	202.822	1366.4	60.48	4335.0
6	1:20	1571.9	111.7	2073.6	202.822	1369.1	60.48	4346.4
	1:25	1578.3	118.9	2073.6	202.822	1375.5	60.48	4355.2
	1:30	1583.5	126.1	2073.6	202.822	1380.7	60.48	4366.8
				2068.8				
	1:35	1696.2	134.9	2534.4	293.998	1402.2	73.92	4390.1
	1:40	1706.5	143.8	2563.2	300.208	1406.3	74.76	4402.7
	1:45	1709.1	152.5	2505.6	287.847	1421.3	73.08	4411.6
	1:50	1719.4	161.3	2534.4	293.998	1425.4	73.92	4421.6
	1:55	1731.0	170.2	2563.2	300.208	1430.8	74.76	4429.5
	2:00	1729.7	179.0	2534.4	293.998	1435.7	73.92	4435.4
FALLOFF				2539.2				
	2:01	1354.5				1354.5		4401.1
	2:02	1375.0				1375.0		4402.3
	2:03	1373.7				1373.7		4399.7
	2:04	1372.5				1372.5		4395.6
	2:05	1369.9				1369.9		4392.6
	2:10	1363.6				1363.6		4380.0
	2:15	1358.5				1358.5		4367.1

WEST DOLLARHIDE DRINKARD UNIT # 36



$$STFP = 4275 - (.450 \times 6200)$$

$$= 1485$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JUNE 19, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 36
LEA COUNTY, NEW MEXICO

WO#: 95-14-0965

PERFS = 6570-6656

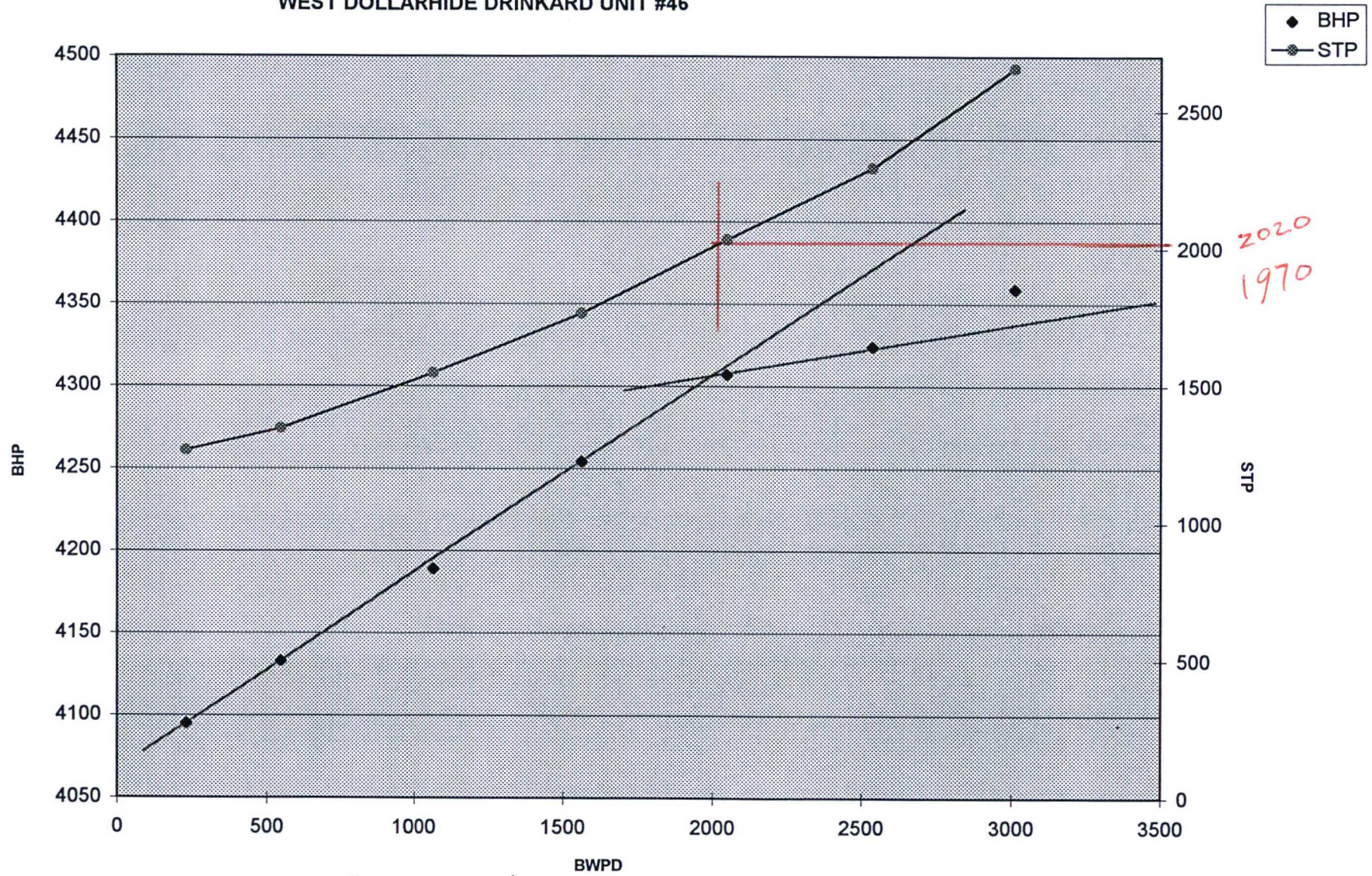
PACKER DEPTH = 6264

BHP GAUGE DEPTH = 6200

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	9:45	509.6				509.6		3308.3
	9:50	624.3	0.9	259.2	4.400	619.9	7.56	3412.6
	9:55	676.7	1.8	259.2	4.400	672.3	7.56	3473.1
	10:00	731.5	2.7	259.2	4.400	727.1	7.56	3515.5
	10:05	761.5	3.6	259.2	4.400	757.1	7.56	3553.3
	10:10	802.7	4.5	259.2	4.400	798.3	7.56	3588.1
	10:15	845.1	5.4	259.2	4.400	840.7	7.56	3615.4
				259.2				
	10:20	938.5	7.4	576.0	19.276	919.2	16.80	3712.2
	10:25	997.1	9.4	576.0	19.276	977.8	16.80	3771.2
2	10:30	1045.8	11.3	547.2	17.531	1028.3	15.96	3815.2
	10:35	1087.0	13.3	576.0	19.276	1067.7	16.80	3856.0
	10:40	1119.5	15.3	576.0	19.276	1100.2	16.80	3887.8
	10:45	1154.5	17.3	576.0	19.276	1135.2	16.80	3912.0
				571.2				
	10:50	1250.7	20.6	950.4	48.681	1202.0	27.72	3987.7
	10:55	1292.0	23.9	950.4	48.681	1243.3	27.72	4025.6
	11:00	1331.9	27.2	950.4	48.681	1283.2	27.72	4060.6
	11:05	1341.9	30.5	950.4	48.681	1293.2	27.72	4080.4
	11:10	1366.9	33.8	950.4	48.681	1318.2	27.72	4097.1
3	11:15	1374.4	37.1	950.4	48.681	1325.7	27.72	4115.4
				950.4				
	11:20	1495.6	42.2	1468.8	108.922	1386.7	42.84	4167.1
	11:25	1516.8	47.3	1468.8	108.922	1407.9	42.84	4188.4
	11:30	1530.5	52.4	1468.8	108.922	1421.6	42.84	4209.7
	11:35	1541.8	57.5	1468.8	108.922	1432.9	42.84	4226.5
	11:40	1559.3	62.6	1468.8	108.922	1450.4	42.84	4237.2
	11:45	1564.2	67.7	1468.8	108.922	1455.3	42.84	4250.9
				1468.8				
				1468.8				

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	11:50	1677.9	74.4	1929.6	180.448	1497.5	56.28	4276.7
	11:55	1682.9	81.2	1958.4	185.462	1497.4	57.12	4287.4
	12:00	1689.1	88.1	1987.2	190.539	1498.6	57.96	4298.1
	12:05	1689.1	94.9	1958.4	185.462	1503.6	57.12	4302.7
	12:10	1689.1	101.7	1958.4	185.462	1503.6	57.12	4308.8
	12:15	1690.4	108.5	1958.4	185.462	1504.9	57.12	4317.9
				1958.4				
	12:20	1810.2	117.0	2448.0	280.245	1530.0	71.40	4330.1
	12:25	1817.7	125.5	2448.0	280.245	1537.5	71.40	4334.7
	12:30	1821.5	134.0	2448.0	280.245	1541.3	71.40	4339.3
6	12:35	1827.7	142.4	2419.2	274.176	1553.5	70.56	4343.8
	12:40	1821.5	150.9	2448.0	280.245	1541.3	71.40	4343.9
	12:45	1835.2	159.4	2448.0	280.245	1555.0	71.40	4345.4
				2443.2				
	12:50	2003.8	169.9	3024.0	414.298	1589.5	88.20	4360.6
	12:55	2006.2	180.6	3081.6	429.015	1577.2	89.88	4363.6
	1:00	2002.5	191.1	3024.0	414.298	1588.2	88.20	4365.2
	1:05	2000.0	201.7	3052.8	421.627	1578.4	89.04	4363.7
	1:10	1998.7	212.2	3024.0	414.298	1584.4	88.20	4362.1
	1:15	2003.7	222.8	3052.8	421.627	1582.1	89.04	4360.6
FALLOFF				3043.2				
	1:16	1491.8				1491.8		4324.1
	1:17	1481.8				1481.8		4310.5
	1:18	1469.3				1469.3		4299.8
	1:19	1461.8				1461.8		4292.2
	1:20	1455.6				1455.6		4284.6
	1:25	1428.1				1428.1		4257.1
	1:30	1408.2				1408.2		4237.3

WEST DOLLARHIDE DRINKARD UNIT #46



$$STP = 4310 - (.45 * 6300) = 1475$$

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

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JULY 18, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 46
LEA COUNTY, NEW MEXICO

WO#: 95-14-0972

PERFS = 5418-6499

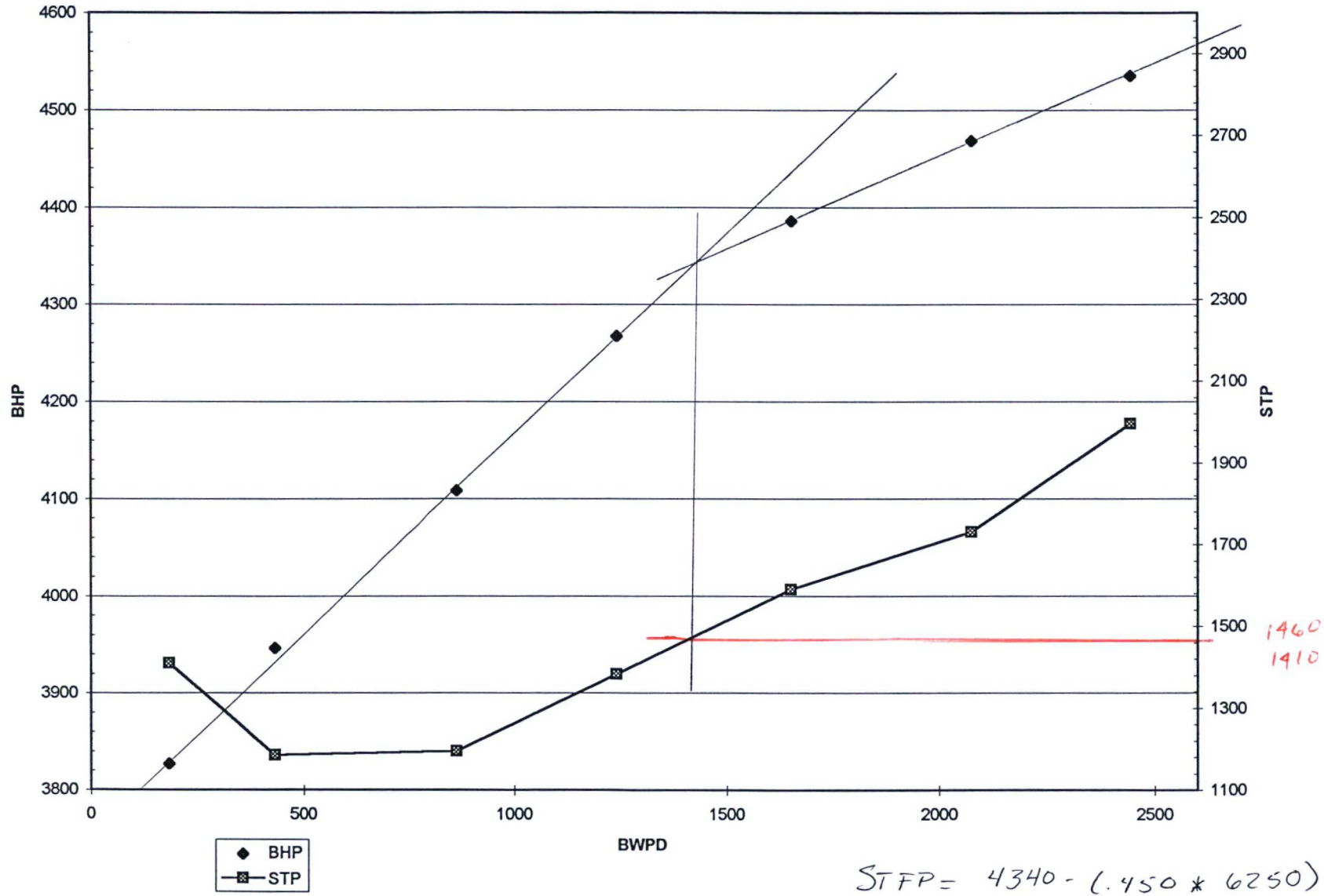
PACKER DEPTH = 6378

BHP GAUGE DEPTH = 6300

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	9:40	1224.5				1224.5		4058.7
	9:45	1248.2	0.8	230.4	3.596	1244.6	6.72	4072.4
	9:50	1255.7	1.7	259.2	4.471	1251.2	7.56	4080.0
	9:55	1250.7	2.5	230.4	3.596	1247.1	6.72	4084.6
	10:00	1258.2	3.3	230.4	3.596	1254.6	6.72	4089.1
	10:05	1258.2	4.1	230.4	3.596	1254.6	6.72	4092.2
	10:10	1269.5	5.0	259.2	4.471	1265.0	7.56	4095.2
				240.0				
	10:15	1323.7	6.9	547.2	17.814	1305.9	15.96	4107.4
	10:20	1334.5	8.8	547.2	17.814	1316.7	15.96	4113.6
2	10:25	1344.5	10.8	576.0	19.587	1324.9	16.80	4122.7
	10:30	1348.2	12.7	547.2	17.814	1330.4	15.96	4127.3
	10:35	1351.9	14.6	547.2	17.814	1334.1	15.96	4131.9
	10:40	1363.2	16.5	547.2	17.814	1345.4	15.96	4133.5
				552.0				
	10:45	1556.7	20.2	1065.6	61.127	1495.6	31.08	4154.8
	10:50	1571.7	24.0	1094.4	64.219	1507.5	31.92	4162.5
	10:55	1585.5	27.7	1065.6	61.127	1524.4	31.08	4170.0
	11:00	1596.7	31.5	1094.4	64.219	1532.5	31.92	4177.8
	11:05	1595.4	35.2	1065.6	61.127	1534.3	31.08	4182.4
3	11:10	1609.2	38.9	1065.6	61.127	1548.1	31.08	4188.5
				1075.2				
	11:15	1872.6	44.3	1555.2	123.024	1749.6	45.36	4209.8
	11:20	1867.6	49.7	1555.2	123.024	1744.6	45.36	4217.5
	11:25	1877.6	55.2	1584.0	127.272	1750.3	46.20	4225.1
	11:30	1881.3	60.6	1555.2	123.024	1758.3	45.36	4231.2
	11:35	1875.1	66.0	1555.2	123.024	1752.1	45.36	4234.2
	11:40	1887.6	71.4	1555.2	123.024	1764.6	45.36	4254.0
				1560.0				

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	11:45	2223.0	78.5	2044.8	204.122	2018.9	59.64	4260.1
	11:50	2228.2	85.7	2073.6	209.472	2018.7	60.48	4267.7
	11:55	2224.9	92.8	2044.8	204.122	2020.8	59.64	4270.7
	12:00	2227.4	99.9	2044.8	204.122	2023.3	59.64	4275.3
	12:05	2224.9	107.0	2044.8	204.122	2020.8	59.64	4281.4
	12:10	2237.4	114.1	2044.8	204.122	2033.3	59.64	4307.2
				2049.6				
	12:15	2631.4	122.8	2505.6	297.284	2334.1	73.08	4305.7
	12:20	2608.8	131.6	2534.4	303.637	2305.2	73.92	4310.2
	12:25	2603.8	140.6	2592.0	316.527	2287.3	75.60	4313.3
6	12:30	2597.5	149.2	2476.8	290.994	2306.5	72.24	4317.8
	12:35	2597.5	158.0	2534.4	303.637	2293.9	73.92	4322.4
	12:40	2596.3	166.8	2534.4	303.637	2292.7	73.92	4323.9
				2529.6				
	12:45	3091.4	177.1	2966.4	406.266	2685.1	86.52	4345.2
	12:50	3081.4	187.6	3024.0	420.980	2660.4	88.20	4349.7
	12:55	3071.3	198.1	3024.0	420.980	2650.3	88.20	4351.2
	1:00	3076.4	208.5	2995.2	413.593	2662.8	87.36	4354.2
	1:05	3081.4	218.9	2995.2	413.593	2667.8	87.36	4358.8
	1:10	3085.2	229.5	3052.8	428.428	2656.8	89.04	4361.8
FALLOFF				3009.6				
	1:11	1478.1				1478.1		4307.1
	1:12	1484.3				1484.3		4305.6
	1:13	1483.1				1483.1		4302.5
	1:14	1481.8				1481.8		4301.0
	1:15	1480.6				1480.6		4301.0
	1:20	1475.6				1475.6		4296.3
	1:25	1471.8				1471.8		4293.2

WEST DOLLARHIDE DRINKARD UNIT #88



$$STFP = 4340 - (.450 * 6250)$$

$$= 1527$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 9, 1994

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 88
LEA COUNTY, NEW MEXICO

WO#: 94-14-2077

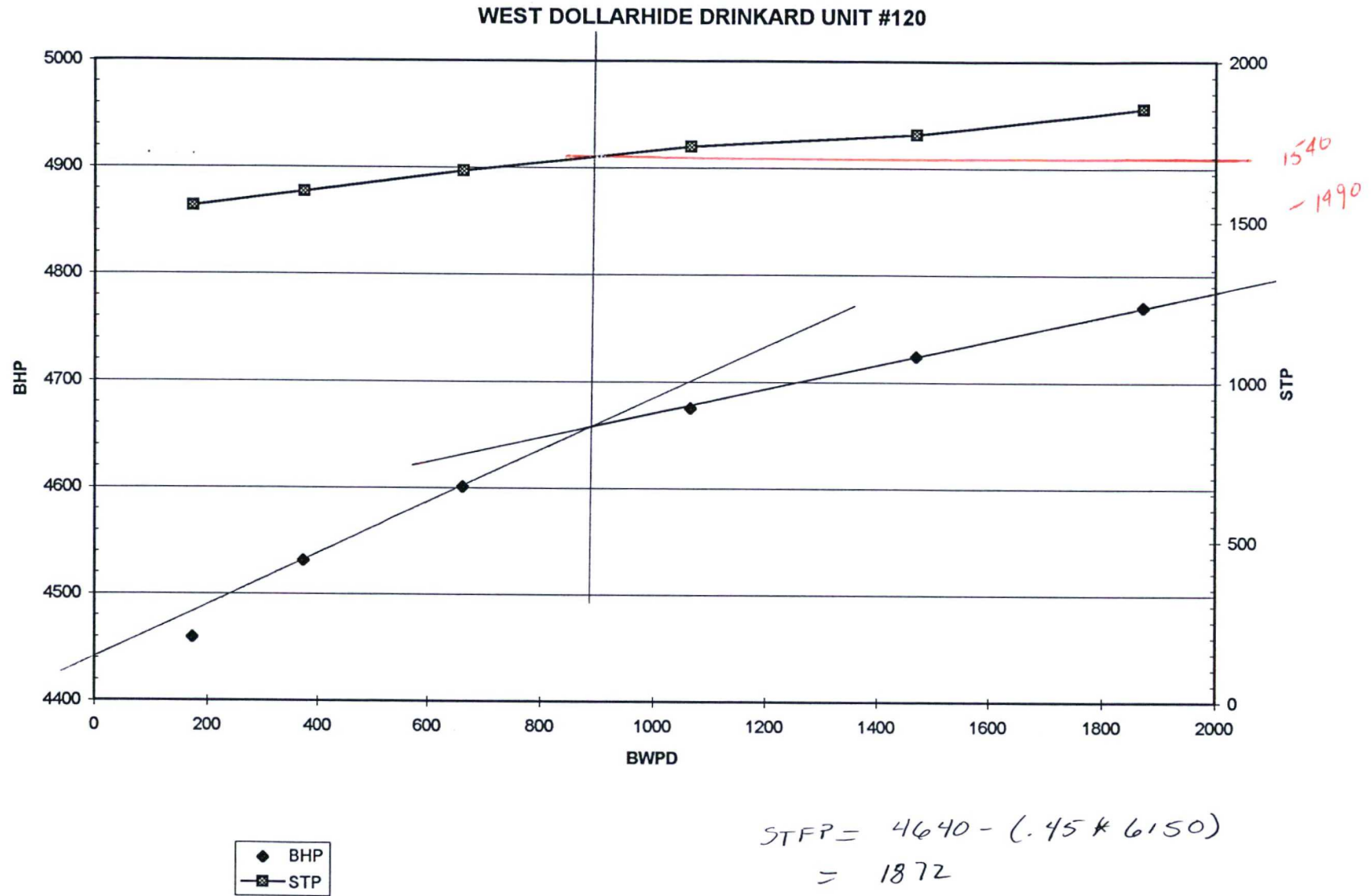
PERFS = 6397-6502

PACKER DEPTH = 6340

BHP GAUGE DEPTH = 6250

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)/24.2957	(7) MEASURED BHP (psi)
1	10:45	1566.6				1566.6		3746.9
	10:50	1507.7	0.6	172.8	2.095	1505.6	5.04	3775.2
	10:55	1483.2	1.4	230.4	3.567	1479.6	6.72	3794.1
	11:00	1471.6	2.1	201.6	2.786	1468.8	5.88	3805.2
	11:05	1452.3	2.6	144.0	1.495	1450.8	4.20	3813.1
	11:10	1441.9	3.2	172.8	2.095	1439.8	5.04	3821.5
	11:15	1413.6	3.8	172.8	2.095	1411.5	5.04	3827.2
				182.9				
	11:20	1410.9	5.1	374.4	8.758	1402.1	10.92	3858.1
	11:25	1376.2	6.5	403.2	10.045	1366.2	11.76	3880.6
2	11:30	1342.8	8.0	432.0	11.412	1331.4	12.60	3897.3
	11:35	1287.6	9.6	460.8	12.859	1274.7	13.44	3919.8
	11:40	1247.7	11.2	460.8	12.859	1234.8	13.44	3933.2
	11:45	1197.6	12.8	460.8	12.859	1184.7	13.44	3946.3
				432.0				
	11:50	1207.7	15.8	864.0	41.141	1166.6	25.20	4000.1
	11:55	1196.5	18.8	864.0	41.141	1155.4	25.20	4022.9
	12:00	1194.7	21.9	892.8	43.714	1151.0	26.04	4045.8
	12:05	1192.0	24.9	864.0	41.141	1150.9	25.20	4069.1
	12:10	1212.3	27.8	835.2	38.640	1173.7	24.36	4091.4
3	12:15	1236.5	30.8	864.0	41.141	1195.4	25.20	4108.0
				864.0				
	12:20	1379.8	35.1	1238.4	80.079	1299.7	36.12	4157.6
	12:25	1406.6	39.4	1238.4	80.079	1326.5	36.12	4186.8
	12:30	1425.8	43.7	1238.4	80.079	1345.7	36.12	4210.8
	12:35	1432.1	48.0	1238.4	80.079	1352.0	36.12	4227.4
	12:40	1452.5	52.3	1238.4	80.079	1372.4	36.12	4247.9
	12:45	1464.0	56.6	1238.4	80.079	1383.9	36.12	4267.7
				1238.4				
				1238.4				

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	12:50	1671.4	62.3	1756.8	152.919	1518.5	51.24	4303.2
	12:55	1680.4	68.1	1670.4	139.297	1541.1	48.72	4326.9
	1:00	1690.7	73.9	1670.4	139.297	1551.4	48.72	4344.7
	1:05	1704.8	79.6	1641.6	134.887	1569.9	47.88	4361.1
	1:10	1711.3	85.3	1641.6	134.887	1576.4	47.88	4372.1
	1:15	1725.4	91.0	1641.6	134.887	1590.5	47.88	4385.6
				1651.2				
	1:20	1975.1	98.2	2073.6	207.810	1767.3	60.48	4414.5
	1:25	1979.0	105.4	2073.6	207.810	1771.2	60.48	4429.2
	1:30	1990.6	112.6	2073.6	207.810	1782.8	60.48	4444.1
6	1:35	1936.8	119.8	2073.6	207.810	1729.0	60.48	4448.3
	1:40	1934.3	127.0	2073.6	207.810	1726.5	60.48	4457.7
	1:45	1938.3	134.2	2073.6	207.810	1730.5	60.48	4468.0
				2073.6				
	1:50	2252.3	142.6	2419.2	276.387	1975.9	70.56	4490.6
	1:55	2257.6	151.1	2448.0	282.505	1975.1	71.40	4503.0
	2:00	2265.3	159.6	2448.0	282.505	1982.8	71.40	4510.0
	2:05	2262.8	168.1	2448.0	282.505	1980.3	71.40	4520.3
	2:10	2265.4	176.6	2448.0	282.505	1982.9	71.40	4525.6
	2:15	2278.2	185.1	2448.0	282.505	1995.7	71.40	4535.2
FALLOFF				2443.2				
	2:16	1409.8				1409.8		4494.7
	2:17	1411.1				1411.1		4490.6
	2:18	1411.1				1411.1		4486.9
	2:19	1408.5				1408.5		4481.3
	2:20	1407.2				1407.2		4476.6
	2:25	1399.6				1399.6		4454.4
	2:30	1393.3				1393.3		4437.8



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

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 6, 1994

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 120
LEA COUNTY, NEW MEXICO

WO#: 94-14-2074

PERFS = 6512-6627

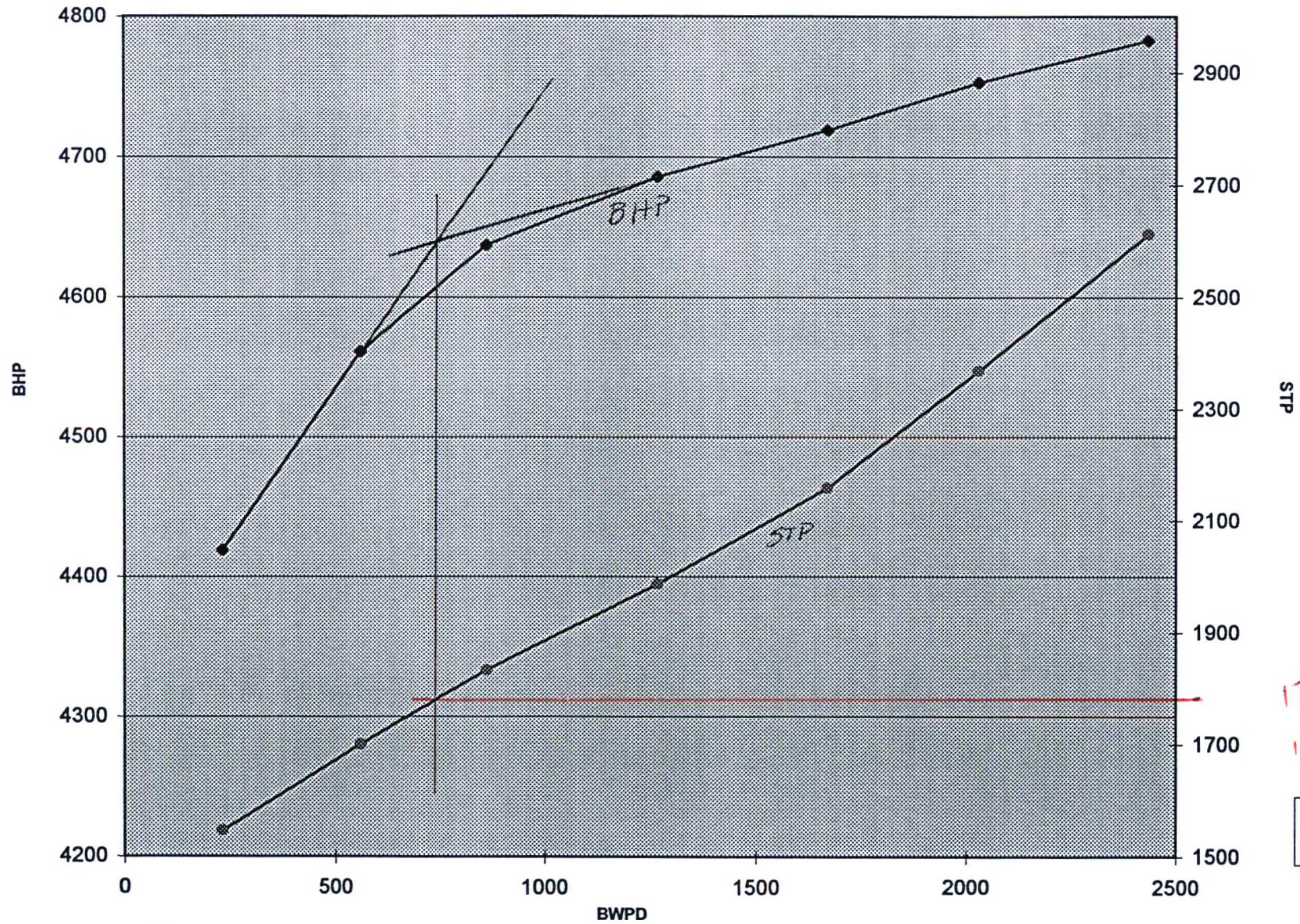
PACKER DEPTH = 6437

BHP GAUGE DEPTH = 6150

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	9:30	1489.4				1489.4		4396.8
	9:35	1512.4	0.5	144.0	3.115	1509.3	4.20	4421.0
	9:40	1534.1	1.1	172.8	4.364	1529.7	5.04	4432.7
	9:45	1536.6	1.8	201.6	5.804	1530.8	5.88	4443.1
	9:50	1535.3	2.4	172.8	4.364	1530.9	5.04	4446.0
	9:55	1544.2	3.0	172.8	4.364	1539.8	5.04	4450.5
	10:00	1549.4	3.6	172.8	4.364	1545.0	5.04	4459.6
				172.8				
	10:05	1595.4	5.0	403.2	20.925	1574.5	11.76	4487.3
	10:10	1587.7	6.3	374.4	18.244	1569.5	10.92	4495.4
2	10:15	1597.9	7.6	374.4	18.244	1579.7	10.92	4505.8
	10:20	1593.9	8.9	374.4	18.244	1575.7	10.92	4516.2
	10:25	1610.5	10.2	374.4	18.244	1592.3	10.92	4525.3
	10:30	1610.4	11.6	403.2	20.925	1589.5	11.76	4531.2
				384.0				
	10:35	1682.1	13.9	662.4	52.423	1629.7	19.32	4559.0
	10:40	1684.5	16.3	691.2	56.717	1627.8	20.16	4572.3
	10:45	1685.7	18.6	662.4	52.423	1633.3	19.32	4577.3
	10:50	1695.8	21.0	691.2	56.717	1639.1	20.16	4586.2
	10:55	1704.7	23.3	662.4	52.423	1652.3	19.32	4593.7
3	11:00	1708.4	25.6	662.4	52.423	1656.0	19.32	4600.7
				672.0				
	11:05	1838.9	29.3	1065.6	126.328	1712.6	31.08	4628.6
	11:10	1850.4	33.0	1065.6	126.328	1724.1	31.08	4639.6
	11:15	1851.6	36.7	1065.6	126.328	1725.3	31.08	4652.6
	11:20	1851.5	40.5	1094.4	132.717	1718.8	31.92	4658.0
	11:25	1847.6	44.2	1065.6	126.328	1721.3	31.08	4667.8
	11:30	1859.0	47.9	1065.6	126.328	1732.7	31.08	4674.9
				1070.4				

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	11:35	2016.4	53.0	1468.8	228.734	1787.7	42.84	4692.9
	11:40	2015.1	58.0	1440.0	220.506	1794.6	42.00	4706.4
	11:45	2007.3	63.1	1468.8	228.734	1778.6	42.84	4712.7
	11:50	2013.7	68.2	1468.8	228.734	1785.0	42.84	4719.0
	11:55	2012.4	73.3	1468.8	228.734	1783.7	42.84	4721.1
	12:00	2008.6	78.5	1497.6	237.100	1771.5	43.68	4723.7
				1468.8				
	12:05	2206.0	84.9	1843.2	348.144	1857.9	53.76	4746.5
	12:10	2207.3	91.4	1872.0	358.274	1849.0	54.60	4755.2
	12:15	2199.7	97.9	1872.0	358.274	1841.4	54.60	4759.2
6	12:20	2204.8	104.3	1843.2	348.144	1856.7	53.76	4764.9
	12:25	2201.0	110.8	1872.0	358.274	1842.7	54.60	4767.1
	12:30	2210.0	117.3	1872.0	358.274	1851.7	54.60	4770.2
				1862.4				
	FALLOFF 12:31	1651.4				1651.4		4720.0
	12:32	1655.3				1655.3		4712.9
	12:33	1650.1				1650.1		4706.1
	12:34	1646.3				1646.3		4698.4
	12:35	1642.2				1642.2		4691.6
	12:40	1629.6				1629.6		4661.9
	12:45	1619.3				1619.3		4640.1

WEST DOLLARHIDE DRINKARD UNIT # 130



$$STFP = 4640 - (.450 * 6400)$$

$$= 1760$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JUNE 20, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 130
LEA COUNTY, NEW MEXICO

WO#: 95-14-0966

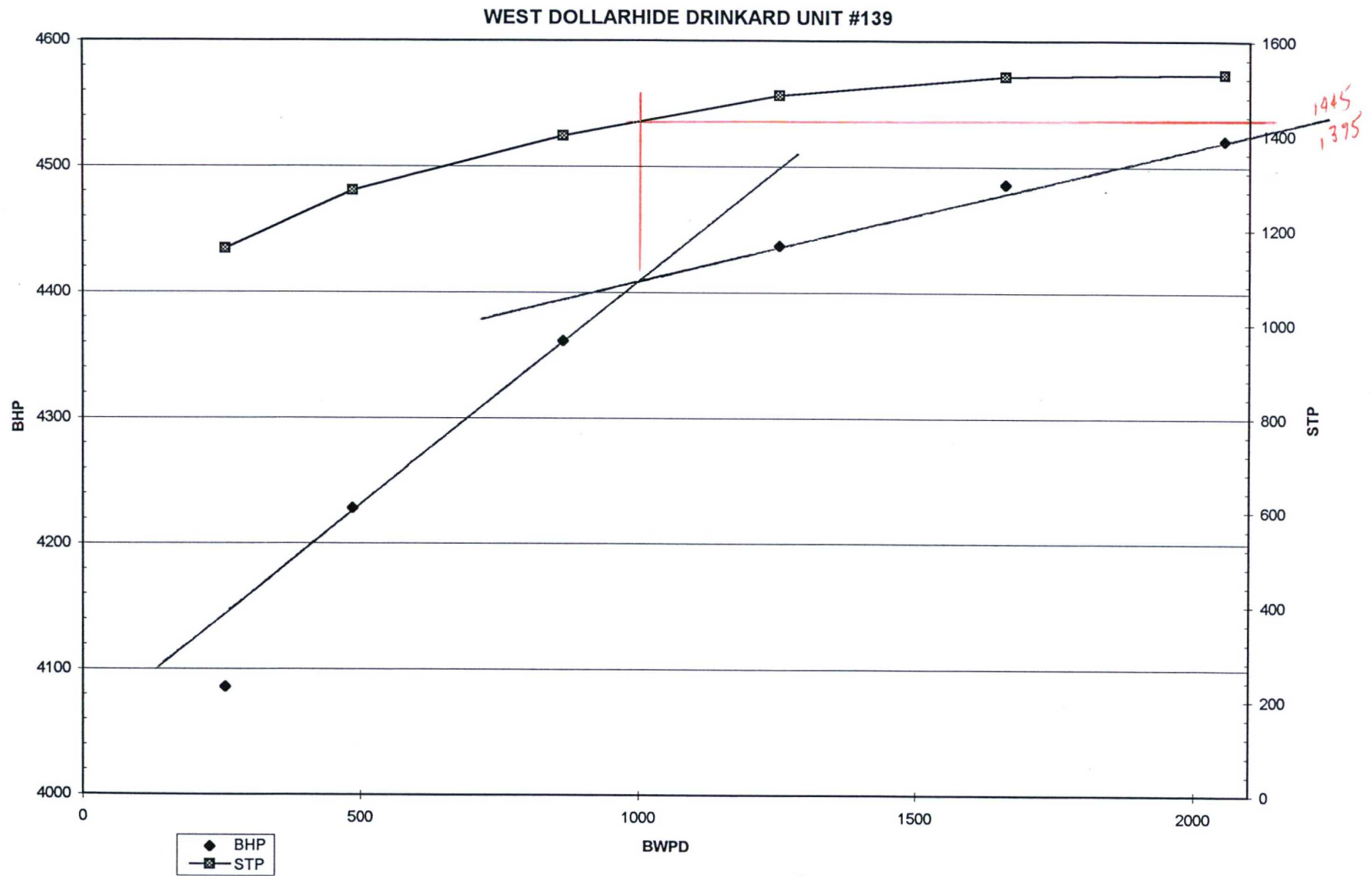
PERFS = 6548-6655

PACKER DEPTH = 6483

BHP GAUGE DEPTH = 6400

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	9:30	1424.4				1424.4		4285.3
	9:35	1475.6	0.7	201.6	2.853	1472.7	5.88	4343.0
	9:40	1503.1	1.5	230.4	3.653	1499.4	6.72	4362.7
	9:45	1500.6	2.3	230.4	3.653	1496.9	6.72	4384.0
	9:50	1530.5	3.2	259.2	4.542	1526.0	7.56	4399.2
	9:55	1554.3	4.0	230.4	3.653	1550.6	6.72	4406.9
	10:00	1546.8	4.8	230.4	3.653	1543.1	6.72	4419.0
				230.4				
	10:05	1637.9	6.8	576.0	19.898	1618.0	16.80	4480.0
	10:10	1654.2	8.7	547.2	18.097	1636.1	15.96	4502.7
2	10:15	1669.1	10.6	547.2	18.097	1651.0	15.96	4518.0
	10:20	1677.9	12.6	576.0	19.898	1658.0	16.80	4533.2
	10:25	1689.1	14.6	576.0	19.898	1669.2	16.80	4551.5
	10:30	1701.6	16.5	547.2	18.097	1683.5	15.96	4560.7
				561.6				
	10:35	1795.2	19.5	864.0	42.128	1753.1	25.20	4604.9
	10:40	1817.7	22.5	864.0	42.128	1775.6	25.20	4623.2
	10:45	1826.4	25.5	864.0	42.128	1784.3	25.20	4632.4
	10:50	1822.6	28.5	864.0	42.128	1780.5	25.20	4633.9
	10:55	1825.1	31.5	864.0	42.128	1783.0	25.20	4637.0
3	11:00	1833.9	34.5	864.0	42.128	1791.8	25.20	4637.0
				864.0				
	11:05	1975.0	38.8	1238.4	82.001	1893.0	36.12	4675.1
	11:10	1982.4	43.2	1267.2	85.563	1896.8	36.96	4678.2
	11:15	1981.2	47.6	1267.2	85.563	1895.6	36.96	4679.7
	11:20	1982.4	52.0	1267.2	85.563	1896.8	36.96	4682.8
	11:25	1974.9	56.4	1267.2	85.563	1889.3	36.96	4682.8
	11:30	1986.1	60.8	1267.2	85.563	1900.5	36.96	4685.9
				1262.4				

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	11:35	2168.6	66.5	1641.6	138.124	2030.5	47.88	4717.8
	11:40	2166.1	72.3	1670.4	142.640	2023.5	48.72	4716.3
	11:45	2166.1	78.1	1670.4	142.640	2023.5	48.72	4719.4
	11:50	2169.8	83.9	1670.4	142.640	2027.2	48.72	4719.4
	11:55	2167.4	89.7	1670.4	142.640	2024.8	48.72	4717.9
	12:00	2158.6	95.5	1670.4	142.640	2016.0	48.72	4719.4
				1665.6				
	12:05	2364.9	102.5	2016.0	201.991	2162.9	58.80	4743.7
	12:10	2364.9	109.6	2044.8	207.362	2157.5	59.64	4746.8
	12:15	2353.6	116.7	2044.8	207.362	2146.2	59.64	4746.8
6	12:20	2357.4	123.7	2016.0	201.991	2155.4	58.80	4751.4
	12:25	2367.4	130.8	2044.8	207.362	2160.0	59.64	4751.4
	12:30	2368.7	137.8	2016.0	201.991	2166.7	58.80	4752.9
				2030.4				
	12:35	2613.9	146.3	2448.0	289.285	2324.6	71.40	4778.7
	12:40	2615.1	154.7	2419.2	283.020	2332.1	70.56	4780.3
	12:45	2611.4	163.1	2419.2	283.020	2328.4	70.56	4783.3
	12:50	2605.1	171.6	2448.0	289.285	2315.8	71.40	4781.7
	12:55	2606.4	180.0	2419.2	283.020	2323.4	70.56	4781.7
	1:00	2612.6	188.5	2448.0	289.285	2323.3	71.40	4783.2
FALLOFF				2433.6				
	1:01	1792.7				1792.7		4682.8
	1:02	1787.7				1787.7		4673.7
	1:03	1779.0				1779.0		4664.6
	1:04	1772.7				1772.7		4656.9
	1:05	1766.5				1766.5		4650.8
	1:10	1741.5				1741.5		4626.4
	1:15	1722.8				1722.8		4606.5



$$STFP = 4410 - (.450 \times 6200) = 1620$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 7, 1994

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 139
LEA COUNTY, NEW MEXICO

WO#: 94-14-2075

PERFS = 6306-6477

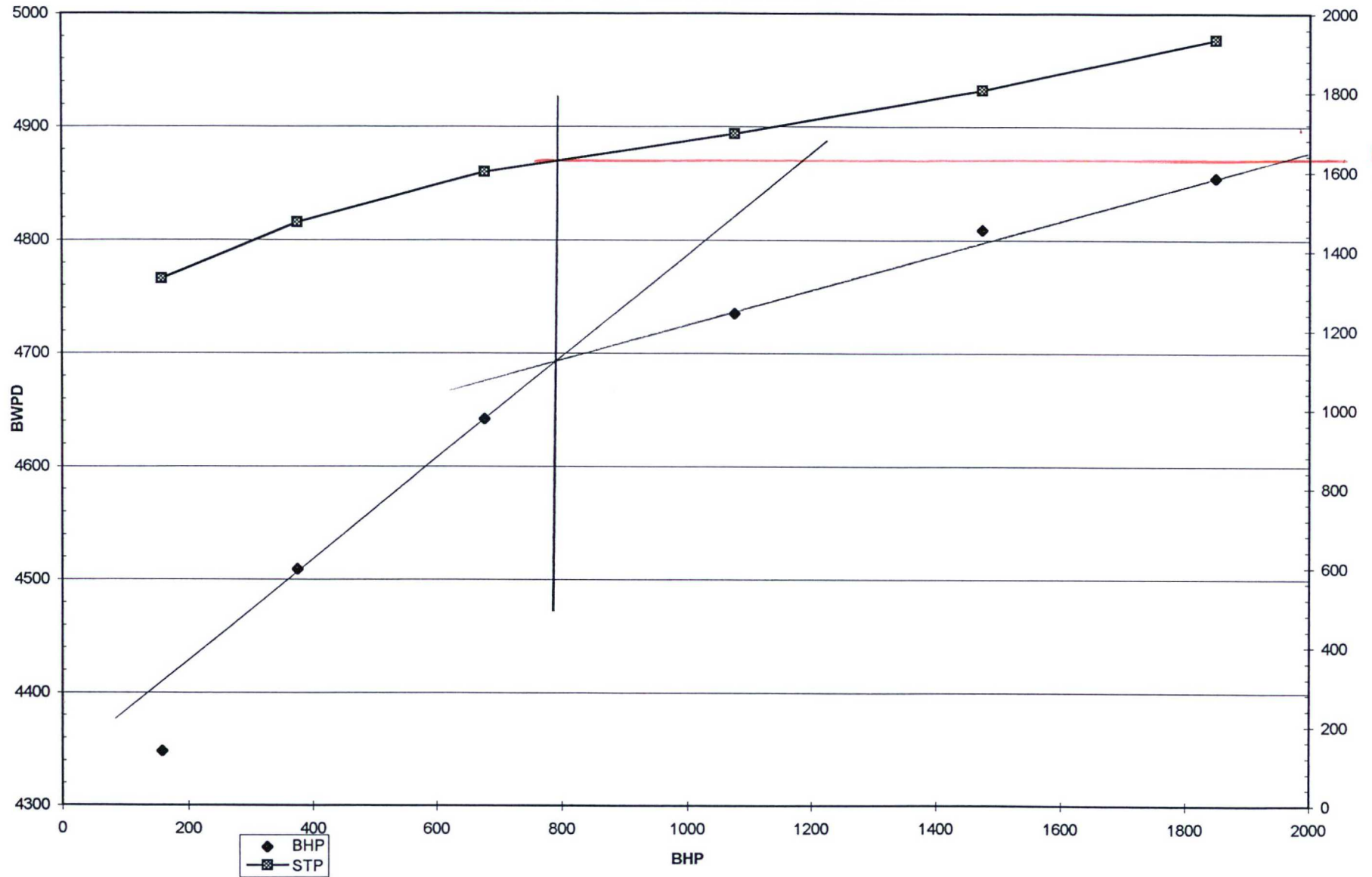
PACKER DEPTH = 6269

BHP GAUGE DEPTH = 6200

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)/24.2857	(7) MEASURED BHP (psi)
1	9:15	998.9				998.9		3926.1
	9:20	1097.2	0.9	259.2	4.400	1092.8	7.56	4006.2
	9:25	1112.3	1.8	259.2	4.400	1107.9	7.56	4031.2
	9:30	1131.2	2.7	259.2	4.400	1126.8	7.56	4049.3
	9:35	1154.0	3.5	230.4	3.539	1150.5	6.72	4063.0
	9:40	1138.3	4.4	259.2	4.400	1133.9	7.56	4075.3
	9:45	1162.3	5.3	259.2	4.400	1157.9	7.56	4086.0
				254.4				
	9:50	1228.4	7.0	489.6	14.271	1214.1	14.28	4140.3
	9:55	1260.0	8.7	489.6	14.271	1245.7	14.28	4167.4
2	10:00	1262.1	10.4	489.6	14.271	1247.8	14.28	4185.4
	10:05	1271.9	12.0	460.8	12.757	1259.1	13.44	4200.0
	10:10	1288.1	13.7	489.6	14.271	1273.8	14.28	4214.2
	10:15	1295.4	15.4	489.6	14.271	1281.1	14.28	4228.1
				484.8				
	10:20	1389.8	18.4	864.0	40.812	1349.0	25.20	4285.7
	10:25	1399.7	21.4	864.0	40.812	1358.9	25.20	4309.6
	10:30	1409.6	24.4	864.0	40.812	1368.8	25.20	4327.9
	10:35	1424.8	27.4	864.0	40.812	1384.0	25.20	4337.8
	10:40	1434.8	30.4	864.0	40.812	1394.0	25.20	4352.1
3	10:45	1438.6	33.4	864.0	40.812	1397.8	25.20	4361.3
				864.0				
	10:50	1537.1	37.7	1238.4	79.438	1457.7	36.12	4398.5
	10:55	1546.1	42.1	1267.2	82.890	1463.2	36.96	4413.7
	11:00	1540.9	46.4	1238.4	79.438	1461.5	36.12	4422.1
	11:05	1547.2	50.8	1267.2	82.890	1464.3	36.96	4423.9
	11:10	1562.6	55.2	1267.2	82.890	1479.7	36.96	4431.2
	11:15	1563.9	59.5	1238.4	79.438	1484.5	36.12	4437.0
				1252.8				

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	11:20	1667.7	65.3	1670.4	138.183	1529.5	48.72	4460.8
	11:25	1666.5	71.0	1641.6	133.808	1532.7	47.88	4470.6
	11:30	1670.3	76.8	1670.4	138.183	1532.1	48.72	4476.6
	11:35	1662.6	82.4	1612.8	129.497	1533.1	47.04	4477.3
	11:40	1662.6	88.3	1699.2	142.623	1520.0	49.56	4478.8
	11:45	1662.5	94.1	1670.4	138.183	1524.3	48.72	4485.8
				1660.8				
	11:50	1752.1	101.2	2044.8	200.882	1551.2	59.64	4497.3
	11:55	1740.6	108.3	2044.8	200.882	1539.7	59.64	4504.9
	12:00	1747.0	115.5	2073.6	206.147	1540.9	60.48	4510.2
6	12:05	1739.3	122.7	2073.6	206.147	1533.2	60.48	4516.3
	12:10	1720.1	129.8	2044.8	200.882	1519.2	59.64	4515.6
	12:15	1730.3	136.9	2044.8	200.882	1529.4	59.64	4520.7
				2054.4				
	FALLOFF 12:16	1430.7				1430.7		4483.6
	12:17	1429.5				1429.5		4475.4
	12:18	1423.1				1423.1		4469.7
	12:19	1419.3				1419.3		4465.1
	12:20	1416.7				1416.7		4460.3
	12:25	1405.3				1405.3		4439.2
	12:30	1397.7				1397.7		4423.2

WEST DOLLARHIDE DRINKARD UNIT #140



$$STFP = 4690 - (0.450 \times 6400)$$

$$STFP = 1810$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 8, 1994

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 140
LEA COUNTY, NEW MEXICO

WO#: 94-14-2076

PERFS = 6496-6612

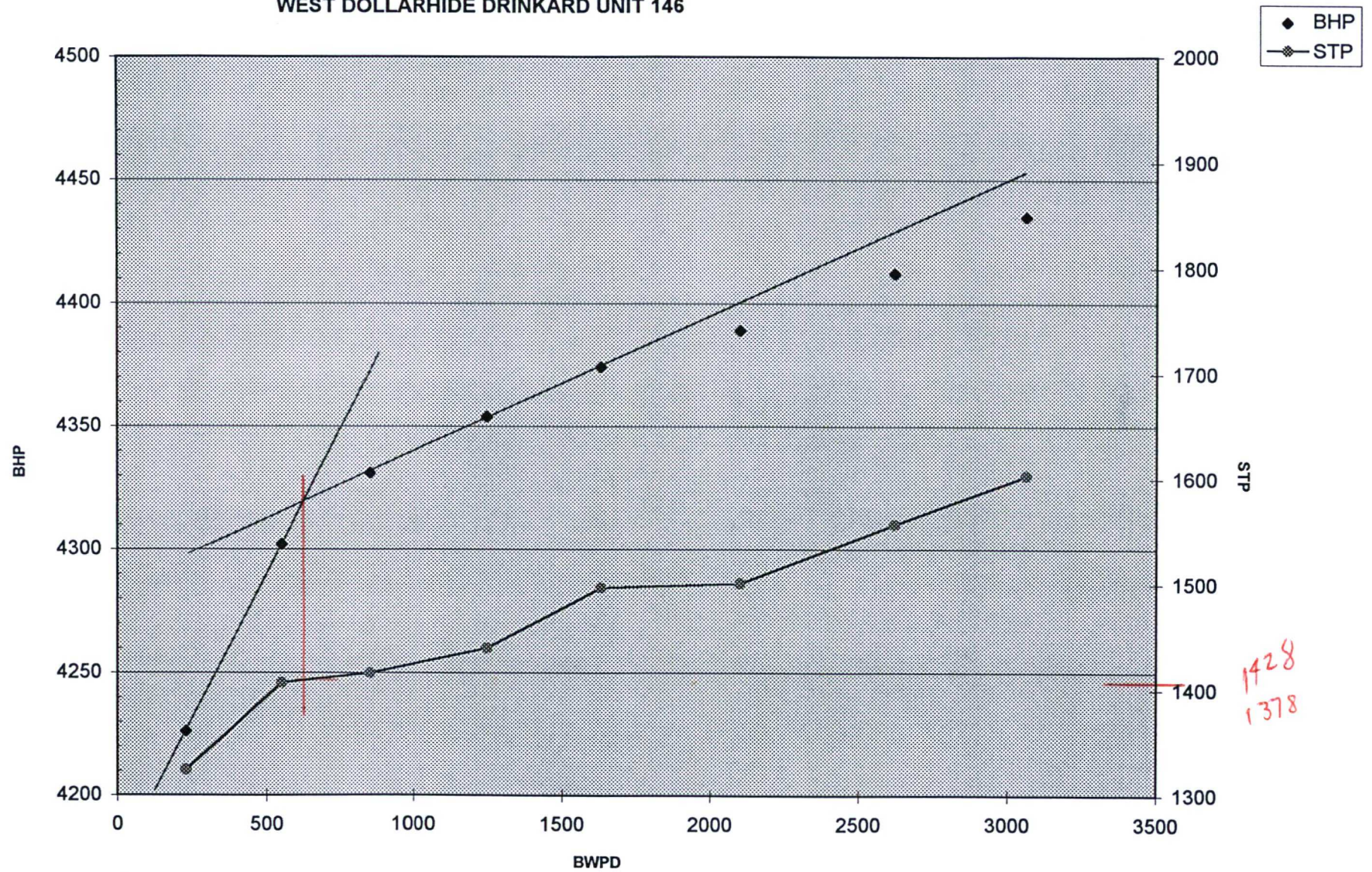
PACKER DEPTH = 6457

BHP GAUGE DEPTH = 6400

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	9:35	1156.5				1156.5		4175.7
	9:40	1260.0	0.6	172.8	2.145	1257.9	5.04	4273.2
	9:45	1286.8	1.1	144.0	1.531	1285.3	4.20	4298.4
	9:50	1304.6	1.7	172.8	2.145	1302.5	5.04	4315.1
	9:55	1316.0	2.2	144.0	1.531	1314.5	4.20	4329.0
	10:00	1324.9	2.7	144.0	1.531	1323.4	4.20	4341.2
	10:05	1332.6	3.3	172.8	2.145	1330.5	5.04	4348.0
				158.4				
	10:10	1419.6	4.7	403.2	10.286	1409.3	11.76	4424.5
	10:15	1433.6	5.9	345.6	7.734	1425.9	10.08	4451.3
2	10:20	1447.7	7.2	374.4	8.968	1438.7	10.92	4470.6
	10:25	1466.8	8.5	374.4	8.968	1457.8	10.92	4486.7
	10:30	1478.3	9.8	374.4	8.968	1469.3	10.92	4498.8
	10:35	1480.8	11.1	374.4	8.968	1471.8	10.92	4509.0
				374.4				
	10:40	1572.9	13.4	662.4	25.769	1547.1	19.32	4565.0
	10:45	1593.4	15.8	691.2	27.880	1565.5	20.16	4586.9
	10:50	1604.9	18.1	662.4	25.769	1579.1	19.32	4606.9
	10:55	1615.1	20.5	691.2	27.880	1587.2	20.16	4621.3
	11:00	1620.2	22.8	662.4	25.769	1594.4	19.32	4633.4
3	11:05	1627.8	25.2	691.2	27.880	1599.9	20.16	4642.0
				676.8				
	11:10	1755.8	28.9	1065.6	62.098	1693.7	31.08	4678.7
	11:15	1754.5	32.6	1065.6	62.098	1692.4	31.08	4695.3
	11:20	1767.2	36.4	1094.4	65.238	1702.0	31.92	4710.8
	11:25	1771.1	40.1	1065.6	62.098	1709.0	31.08	4722.1
	11:30	1764.6	43.8	1065.6	62.098	1702.5	31.08	4726.9
	11:35	1762.0	47.6	1094.4	65.238	1696.8	31.92	4735.3
				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)/34.2657	(7) MEASURED BHP (psi)
5	11:40	1907.9	52.7	1468.8	112.436	1795.5	42.84	4764.9
	11:45	1916.8	57.8	1468.8	112.436	1804.4	42.84	4778.9
	11:50	1921.8	63.0	1497.6	116.549	1805.3	43.68	4790.3
	11:55	1916.6	68.1	1468.8	112.436	1804.2	42.84	4800.2
	12:00	1919.0	73.2	1468.8	112.436	1806.6	42.84	4803.9
	12:05	1918.9	78.3	1468.8	112.436	1806.5	42.84	4808.9
				1473.6				
	12:10	2084.1	84.7	1843.2	171.133	1913.0	53.76	4832.5
	12:15	2109.7	91.2	1872.0	176.113	1933.6	54.60	4840.0
	12:20	2109.7	97.6	1843.2	171.133	1938.6	53.76	4846.1
	12:25	2110.9	104.0	1843.2	171.133	1939.8	53.76	4849.5
	12:30	2107.0	110.4	1843.2	171.133	1935.9	53.76	4852.5
	12:35	2105.6	116.8	1843.2	171.133	1934.5	53.76	4854.7
				1848.0				
FALLOFF	12:36	1640.7				1640.7		4818.7
	12:37	1633.0				1633.0		4808.9
	12:38	1627.8				1627.8		4799.2
	12:39	1621.4				1621.4		4790.7
	12:40	1616.3				1616.3		4783.1
	12:45	1595.7				1595.7		4745.7

WEST DOLLARHIDE DRINKARD UNIT 146



$$STP = 4330 - (.45 * 6400)$$

$$= 1450$$

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

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JULY 11, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 146
LEA COUNTY, NEW MEXICO

WO#: 95-14-0967

PERFS = 6495-6659

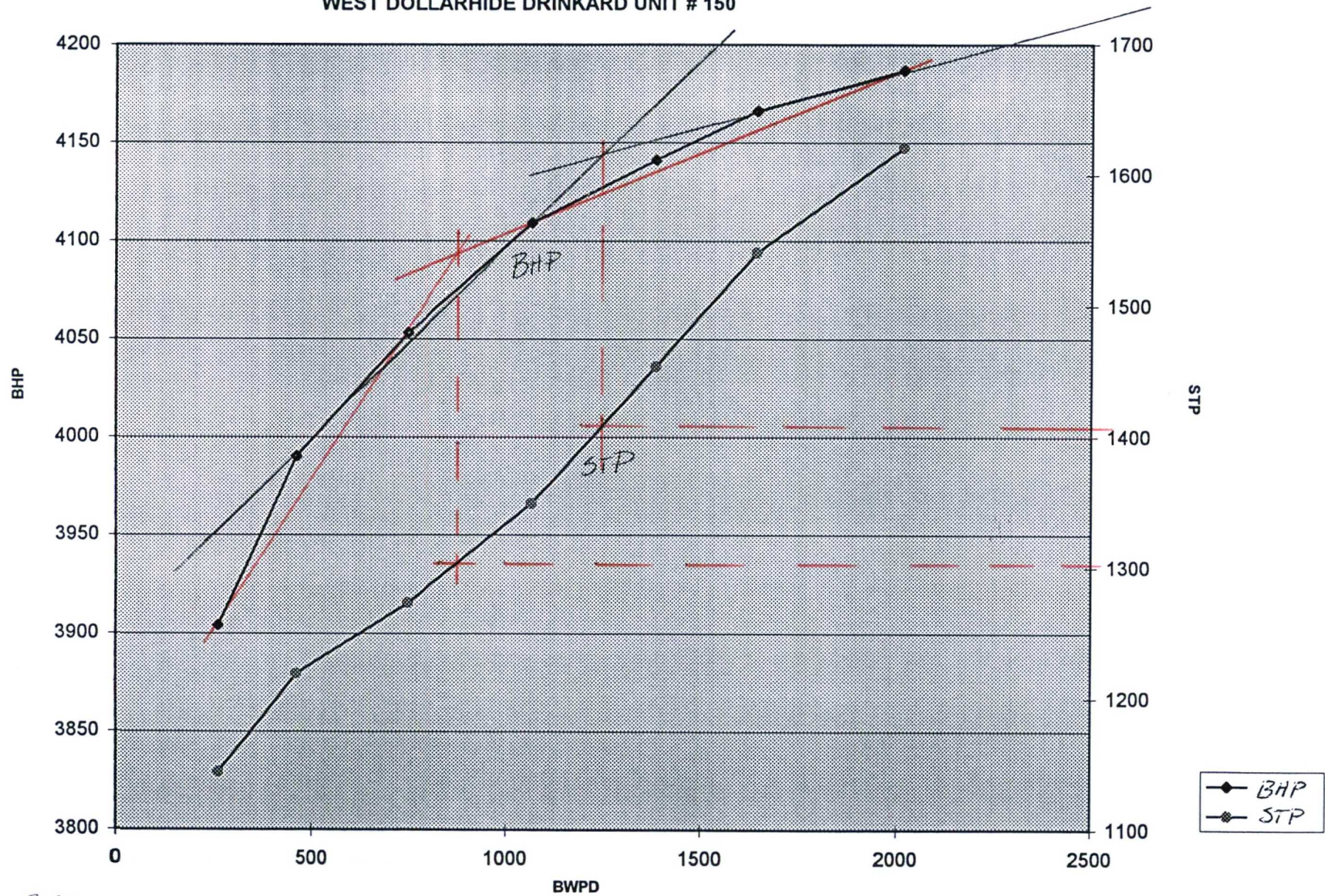
PACKER DEPTH = 6452

BHP GAUGE DEPTH = 6400

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	10:10	1159.5				1159.5		4022.2
	10:15	1298.2	0.9	259.2	4.542	1293.7	7.56	4162.0
	10:20	1325.7	1.7	230.4	3.653	1322.0	6.72	4187.8
	10:25	1335.7	2.5	230.4	3.653	1332.0	6.72	4200.0
	10:30	1349.4	3.4	259.2	4.542	1344.9	7.56	4213.7
	10:35	1365.7	4.2	230.4	3.653	1362.0	6.72	4219.8
	10:40	1328.2	5.0	230.4	3.653	1324.5	6.72	4225.9
				240.0				
	10:45	1420.6	6.8	518.4	16.374	1404.2	15.12	4286.7
	10:50	1459.3	8.7	547.2	18.097	1441.2	15.96	4300.4
2	10:55	1440.6	10.6	547.2	18.097	1422.5	15.96	4298.9
	11:00	1415.6	12.6	576.0	19.898	1395.7	16.80	4297.4
	11:05	1420.6	14.5	547.2	18.097	1402.5	15.96	4302.0
	11:10	1426.9	16.5	576.0	19.898	1407.0	16.80	4302.0
				552.0				
	11:15	1458.1	19.4	835.2	39.567	1418.5	24.36	4323.3
	11:20	1463.1	22.4	864.0	42.128	1421.0	25.20	4323.4
	11:25	1465.6	25.5	892.8	44.763	1420.8	26.04	4324.9
	11:30	1445.6	28.6	892.8	44.763	1400.8	26.04	4323.4
	11:35	1461.8	31.4	806.4	37.080	1424.7	23.52	4331.1
3	11:40	1455.6	34.3	835.2	39.567	1416.0	24.36	4331.1
				854.4				
	11:45	1528.0	38.7	1267.2	85.563	1442.4	36.96	4349.4
	11:50	1525.5	43.1	1267.2	85.563	1439.9	36.96	4350.9
	11:55	1519.3	47.3	1209.6	78.508	1440.8	35.28	4352.5
	12:00	1521.8	51.7	1267.2	85.563	1436.2	36.96	4354.1
	12:05	1526.7	56.0	1238.4	82.001	1444.7	36.12	4351.0
	12:10	1521.8	60.3	1238.4	82.001	1439.8	36.12	4354.1
				1248.0				

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	12:15	1597.9	66.0	1641.6	138.124	1459.8	47.88	4367.8
	12:20	1602.9	71.6	1612.8	133.675	1469.2	47.04	4370.9
	12:25	1605.4	77.3	1641.6	138.124	1467.3	47.88	4370.9
	12:30	1599.1	83.0	1641.6	138.124	1461.0	47.88	4371.0
	12:35	1611.6	88.7	1641.6	138.124	1473.5	47.88	4372.5
	12:40	1630.4	94.3	1612.8	133.675	1496.7	47.04	4374.1
				1632.0				
	12:45	1717.7	101.7	2131.2	223.862	1493.8	62.16	4383.2
	12:50	1717.7	109.0	2102.4	218.297	1499.4	61.32	4384.7
	12:55	1720.2	116.3	2102.4	218.297	1501.9	61.32	4386.3
6	1:00	1715.2	123.6	2102.4	218.297	1496.9	61.32	4387.8
	1:05	1719.0	130.9	2102.4	218.297	1500.7	61.32	4387.8
	1:10	1719.0	138.2	2102.4	218.297	1500.7	61.32	4389.3
				2107.2				
	1:15	1863.8	147.3	2620.8	328.192	1535.6	76.44	4401.5
	1:20	1868.7	156.4	2620.8	328.192	1540.5	76.44	4404.6
	1:25	1867.5	165.5	2620.8	328.192	1539.3	76.44	4406.1
	1:30	1875.0	174.6	2620.8	328.192	1546.8	76.44	4407.6
	1:35	1881.2	183.8	2649.6	334.895	1546.3	77.28	4409.1
	1:40	1884.9	192.9	2620.8	328.192	1556.7	76.44	4412.2
7				2625.6				
	1:45	1999.8	203.6	3081.6	442.854	1556.9	89.88	4421.3
	1:50	2044.7	214.2	3052.8	435.228	1609.5	89.04	4425.8
	1:55	2007.2	224.7	3024.0	427.662	1579.5	88.20	4427.3
	2:00	2037.2	235.4	3081.6	442.854	1594.3	89.88	4431.9
	2:05	2026.0	246.1	3081.6	442.854	1583.1	89.88	4433.4
	2:10	2038.4	256.7	3052.8	435.228	1603.2	89.04	4434.9
				3062.4				
	2:11	1514.2				1514.2		4404.5
	2:12	1521.7				1521.7		4403.0
8	2:13	1520.5				1520.5		4401.5
	2:14	1518.0				1518.0		4399.9
	2:15	1516.7				1516.7		4398.4
	2:20	1511.8				1511.8		4392.3
	2:25	1508.0				1508.0		4389.2
FALLOFF								

WEST DOLLARHIDE DRINKARD UNIT # 150



$$STFP = 4140 - (.450 * 6200)$$

$$= 1400$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JUNE 14, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 150
LEA COUNTY, NEW MEXICO

WO#: 95-14-0962

PERFS = 6334-6530

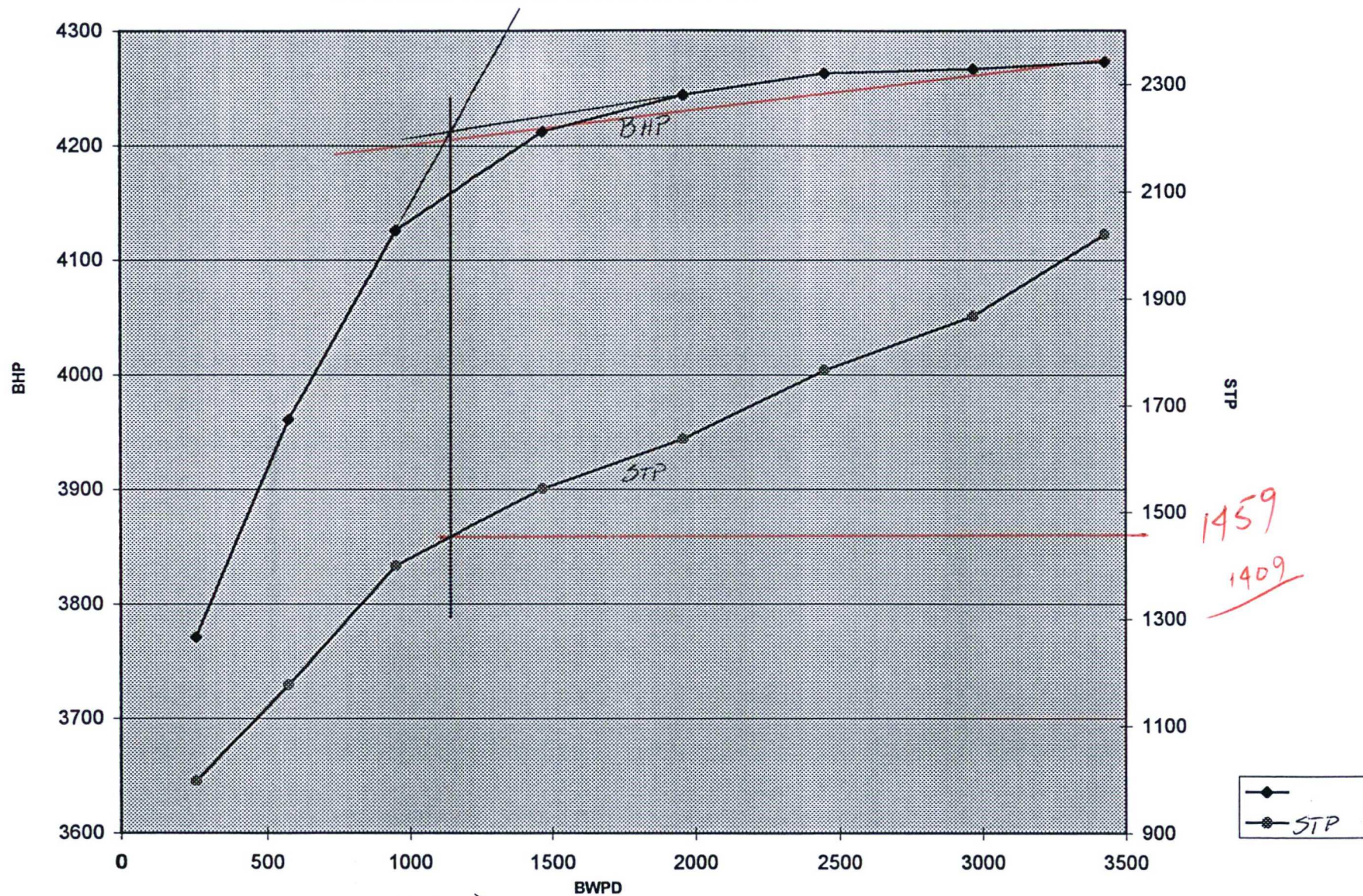
PACKER DEPTH = 6281

BHP GAUGE DEPTH = 6200

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	9:40	922.3				922.3		3689.5
	9:45	1028.3	0.7	201.6	2.764	1025.5	5.88	3789.3
	9:50	1064.5	1.5	230.4	3.539	1061.0	6.72	3834.7
	9:55	1102.0	2.4	259.2	4.400	1097.6	7.56	3858.9
	10:00	1088.3	3.1	201.6	2.764	1085.5	5.88	3869.5
	10:05	1137.0	4.0	259.2	4.400	1132.6	7.56	3892.2
	10:10	1144.5	4.9	259.2	4.400	1140.1	7.56	3904.3
				235.2				
	10:15	1167.0	6.5	460.8	12.757	1154.2	13.44	3937.6
	10:20	1195.7	7.9	403.2	9.964	1185.7	11.76	3955.8
2	10:25	1202.0	9.5	460.8	12.757	1189.2	13.44	3964.9
	10:30	1194.5	11.0	432.0	11.321	1183.2	12.60	3972.5
	10:35	1202.0	12.6	460.8	12.757	1189.2	13.44	3980.1
	10:40	1219.5	14.2	460.8	12.757	1206.7	13.44	3990.7
				446.4				
	10:45	1257.0	16.8	748.8	31.319	1225.7	21.84	4010.3
	10:50	1274.5	19.4	748.8	31.319	1243.2	21.84	4019.5
	10:55	1272.0	22.1	777.6	33.584	1238.4	22.68	4028.6
	11:00	1268.3	24.7	748.8	31.319	1237.0	21.84	4039.3
	11:05	1278.2	27.3	748.8	31.319	1246.9	21.84	4046.9
3	11:10	1273.3	29.9	748.8	31.319	1242.0	21.84	4053.0
				753.6				
	11:15	1330.7	33.6	1065.6	60.157	1270.5	31.08	4071.3
	11:20	1343.2	37.1	1008.0	54.280	1288.9	29.40	4077.4
	11:25	1369.4	40.8	1065.6	60.157	1309.2	31.08	4082.0
	11:30	1353.2	44.6	1094.4	63.199	1290.0	31.92	4091.1
	11:35	1358.2	48.4	1094.4	63.199	1295.0	31.92	4101.8
	11:40	1349.5	52.1	1065.6	60.157	1289.3	31.08	4109.4
				1065.6				

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	11:45	1416.9	56.9	1382.4	97.366	1319.5	40.32	4115.5
	11:50	1439.4	61.5	1324.8	89.994	1349.4	38.64	4121.6
	11:55	1438.1	66.3	1382.4	97.366	1340.7	40.32	4129.3
	12:00	1403.2	71.0	1353.6	93.647	1309.6	39.48	4136.9
	12:05	1455.6	75.8	1382.4	97.366	1358.2	40.32	4138.4
	12:10	1454.9	80.6	1382.4	97.366	1357.5	40.32	4141.5
				1368.0				
	12:15	1498.1	86.3	1641.6	133.808	1364.3	47.88	4146.1
	12:20	1501.8	92.1	1670.4	138.183	1363.6	48.72	4153.7
	12:25	1523.0	97.8	1641.6	133.808	1389.2	47.88	4158.3
6	12:30	1509.3	103.6	1670.4	138.183	1371.1	48.72	4167.4
	12:35	1514.3	109.2	1612.8	129.497	1384.8	47.04	4168.9
	12:40	1541.7	114.8	1612.8	129.497	1412.2	47.04	4165.9
				1641.6				
	12:45	1617.9	121.7	1987.2	190.539	1427.4	57.96	4176.6
	12:50	1599.2	128.7	2016.0	195.679	1403.5	58.80	4178.1
	12:55	1606.7	135.7	2016.0	195.679	1411.0	58.80	4176.6
	1:00	1615.4	142.7	2016.0	195.679	1419.7	58.80	4184.2
	1:05	1601.7	149.7	2016.0	195.679	1406.0	58.80	4184.2
	1:10	1621.6	156.7	2016.0	195.679	1425.9	58.80	4187.2
FALLOFF				2011.2				
	1:11	1364.5				1364.5		4173.6
	1:12	1359.5				1359.5		4172.0
	1:13	1362.0				1362.0		4169.0
	1:14	1360.7				1360.7		4165.9
	1:15	1359.5				1359.5		4165.9
	1:20	1354.5				1354.5		4159.7
	1:25	1350.7				1350.7		4155.0

WEST DOLLARHIDE DRINKARD UNIT # 151



$$\begin{aligned} \text{STFP} &= 4220 - (.450 \times 6200) \\ &= 1430 \end{aligned}$$

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

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JUNE 15, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 151
LEA COUNTY, NEW MEXICO

WO#: 95-14-0963

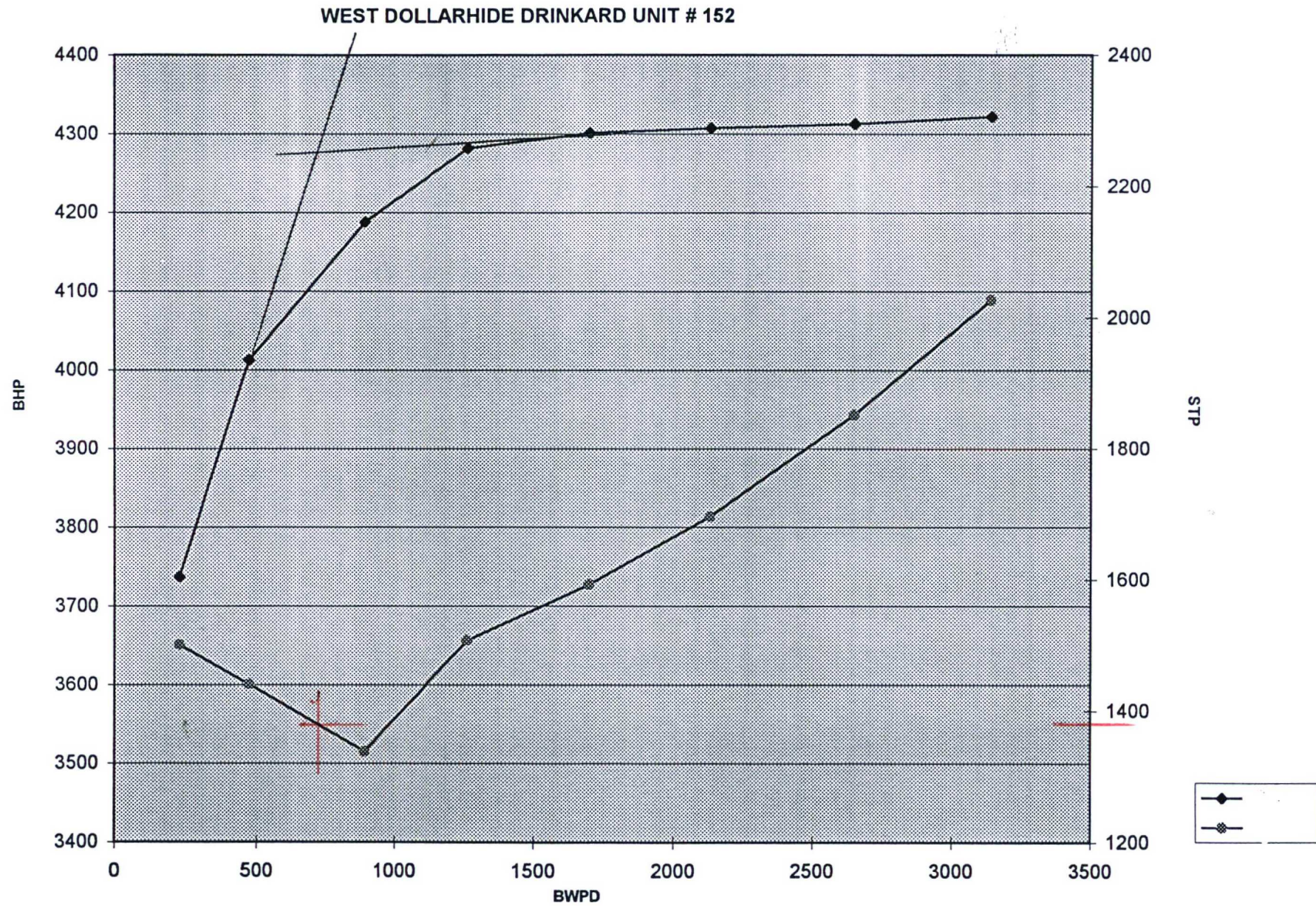
PERFS = 6365-6514

PACKER DEPTH = 6302

BHP GAUGE DEPTH = 6200

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	9:30	834.9				834.9		3603.2
	9:35	909.7	0.9	259.2	4.400	905.3	7.56	3681.8
	9:40	934.7	1.8	259.2	4.400	930.3	7.56	3712.1
	9:45	947.2	2.7	259.2	4.400	942.8	7.56	3730.2
	9:50	987.1	3.5	230.4	3.539	983.6	6.72	3746.9
	9:55	978.4	4.5	288.0	5.347	973.1	8.40	3765.1
	10:00	997.1	5.3	230.4	3.539	993.6	6.72	3771.1
				254.4				
	10:05	1103.2	7.4	604.8	21.097	1082.1	17.64	3863.4
	10:10	1124.5	9.4	576.0	19.276	1105.2	16.80	3901.3
2	10:15	1142.0	11.4	576.0	19.276	1122.7	16.80	3918.0
	10:20	1173.2	13.3	547.2	17.531	1155.7	15.96	3939.2
	10:25	1188.2	15.3	576.0	19.276	1168.9	16.80	3954.3
	10:30	1177.0	17.1	518.4	15.862	1161.1	15.12	3961.9
				566.4				
	10:35	1295.7	20.4	950.4	48.681	1247.0	27.72	4034.6
	10:40	1333.2	23.8	979.2	51.446	1281.8	28.56	4060.5
	10:45	1338.2	27.1	950.4	48.681	1289.5	27.72	4084.9
	10:50	1369.4	30.4	950.4	48.681	1320.7	27.72	4098.6
	10:55	1369.4	33.7	950.4	48.681	1320.7	27.72	4113.8
3	11:00	1400.6	37.1	979.2	51.446	1349.2	28.56	4126.0
				960.0				
	11:05	1498.1	42.1	1440.0	105.004	1393.1	42.00	4162.5
	11:10	1505.6	47.2	1468.8	108.922	1396.7	42.84	4180.8
	11:15	1523.1	52.3	1468.8	108.922	1414.2	42.84	4194.5
	11:20	1529.3	57.4	1468.8	108.922	1420.4	42.84	4199.1
	11:25	1539.3	62.5	1468.8	108.922	1430.4	42.84	4206.7
	11:30	1544.3	67.6	1468.8	108.922	1435.4	42.84	4212.8
				1463.4				

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	11:35	1667.9	74.1	1872.0	170.609	1497.3	54.60	4237.2
	11:40	1676.7	80.9	1958.4	185.462	1491.2	57.12	4241.8
	11:45	1679.2	87.6	1929.6	180.448	1498.8	56.28	4244.9
	11:50	1669.2	94.3	1944.0	182.947	1486.3	56.70	4249.5
	11:55	1639.2	101.1	1958.4	185.462	1453.7	57.12	4244.9
	12:00	1637.9	107.9	1958.4	185.462	1452.4	57.12	4244.9
				1934.4				
	12:05	1756.6	116.6	2505.6	292.566	1464.0	73.08	4257.1
	12:10	1756.6	124.9	2390.4	268.168	1488.4	69.72	4257.1
	12:15	1762.8	133.3	2419.2	274.176	1488.6	70.56	4260.2
6	12:20	1759.1	141.8	2448.0	280.245	1478.9	71.40	4258.7
	12:25	1761.6	150.3	2448.0	280.245	1481.4	71.40	4257.2
	12:30	1765.3	158.8	2448.0	280.245	1485.1	71.40	4263.2
				2443.2				
	12:35	1905.2	169.2	2995.2	407.028	1498.2	87.36	4269.3
	12:40	1891.4	179.3	2908.8	385.574	1505.8	84.84	4270.9
	12:45	1883.9	189.5	2937.6	392.666	1491.2	85.68	4270.9
	12:50	1875.2	199.8	2966.4	399.817	1475.4	86.52	4270.9
	12:55	1876.5	210.1	2966.4	399.817	1476.7	86.52	4267.8
	1:00	1867.7	220.4	2966.4	399.817	1467.9	86.52	4267.8
7				2956.8				
	1:05	2046.3	232.3	3427.2	522.245	1524.1	99.96	4278.5
	1:10	2048.8	244.2	3427.2	522.245	1526.6	99.96	4278.5
	1:15	2028.8	256.2	3456.0	530.393	1498.4	100.80	4275.4
	1:20	2040.0	268.1	3427.2	522.245	1517.8	99.96	4278.5
	1:25	2021.3	280.0	3427.2	522.245	1499.1	99.96	4275.4
	1:30	2020.1	292.0	3456.0	530.393	1489.7	100.80	4273.9
				3436.8				
	1:31	1393.2				1393.2		4237.4
	1:32	1394.4				1394.4		4228.3
FALLOFF	1:33	1391.9				1391.9		4222.2
	1:34	1388.2				1388.2		4217.6
	1:35	1384.4				1384.4		4213.1
	1:40	1374.4				1374.4		4203.9
	1:45	1368.2				1368.2		4196.2



$$STFP = 4290 - (.450 \times 6300) = 1455$$

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: JUNE 16, 1995

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 152
LEA COUNTY, NEW MEXICO

WO#: 95-14-0964

PERFS = 6464-6620

PACKER DEPTH = 6416

BHP GAUGE DEPTH = 6300

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	1284.2				1284.2		3321.8
	9:30	1416.7	0.7	201.6	2.809	1413.9	5.88	3495.7
	9:35	1470.5	1.5	230.4	3.596	1466.9	6.72	3591.0
	9:40	1496.8	2.4	259.2	4.471	1492.3	7.56	3633.4
	9:45	1503.1	3.1	201.6	2.809	1500.3	5.88	3663.6
	9:50	1530.6	3.9	230.4	3.596	1527.0	6.72	3706.0
	9:55	1501.8	4.8	259.2	4.471	1497.3	7.56	3737.8
				230.4				
	10:00	1585.6	6.5	489.6	14.501	1571.1	14.28	3855.8
	10:05	1579.3	8.2	489.6	14.501	1564.8	14.28	3908.7
2	10:10	1566.8	9.9	489.6	14.501	1552.3	14.28	3945.1
	10:15	1536.8	11.5	460.8	12.962	1523.8	13.44	3973.8
	10:20	1499.3	13.1	460.8	12.962	1486.3	13.44	3995.0
	10:25	1441.8	14.7	460.8	12.962	1428.8	13.44	4013.2
				475.2				
	10:30	1479.3	17.8	892.8	44.064	1435.2	26.04	4102.8
	10:35	1406.9	20.9	892.8	44.064	1362.8	26.04	4134.7
	10:40	1361.9	24.0	892.8	44.064	1317.8	26.04	4147.0
	10:45	1343.1	27.0	864.0	41.470	1301.6	25.20	4154.6
	10:50	1384.4	30.0	864.0	41.470	1342.9	25.20	4174.5
3	10:55	1388.1	33.1	892.8	44.064	1344.0	26.04	4188.2
				883.2				
	11:00	1488.1	37.5	1267.2	84.227	1403.9	36.96	4232.3
	11:05	1495.6	41.8	1238.4	80.719	1414.9	36.12	4255.2
	11:10	1510.6	46.2	1267.2	84.227	1426.4	36.96	4267.6
	11:15	1508.1	50.6	1267.2	84.227	1423.9	36.96	4276.5
	11:20	1508.1	54.9	1238.4	80.719	1427.4	36.12	4281.1
	11:25	1508.1	59.4	1296.0	87.802	1420.3	37.80	4282.7
				1262.4				

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	11:30	1598.0	65.2	1670.4	140.412	1457.6	48.72	4301.0
	11:35	1603.0	71.1	1699.2	144.923	1458.1	49.56	4308.6
	11:40	1599.2	76.9	1670.4	140.412	1458.8	48.72	4307.1
	11:45	1600.5	82.8	1699.2	144.923	1455.6	49.56	4310.2
	11:50	1595.5	88.7	1699.2	144.923	1450.6	49.56	4307.2
	11:55	1593.0	94.6	1699.2	144.923	1448.1	49.56	4301.1
				1689.6				
	12:00	1697.9	102.0	2131.2	220.364	1477.5	62.16	4313.3
	12:05	1701.7	109.4	2131.2	220.364	1481.3	62.16	4314.9
	12:10	1700.4	116.9	2160.0	225.904	1474.5	63.00	4308.8
6	12:15	1696.7	124.3	2131.2	220.364	1476.3	62.16	4310.3
	12:20	1697.9	131.7	2131.2	220.364	1477.5	62.16	4308.8
	12:25	1696.7	139.2	2160.0	225.904	1470.8	63.00	4307.3
				2140.8				
	12:30	1847.8	148.4	2649.6	329.662	1518.1	77.28	4319.5
	12:35	1851.6	157.8	2707.2	343.043	1508.6	78.96	4318.0
	12:40	1845.3	167.0	2649.6	329.662	1515.6	77.28	4318.0
	12:45	1844.1	176.2	2649.6	329.662	1514.4	77.28	4318.0
	12:50	1845.3	185.3	2620.8	323.064	1522.2	76.44	4315.0
	12:55	1852.8	194.5	2649.6	329.662	1523.1	77.28	4313.4
7				2654.4				
	1:00	2003.9	205.4	3139.2	451.129	1552.8	91.56	4324.1
	1:05	2005.2	216.3	3139.2	451.129	1554.1	91.56	4324.1
	1:10	2010.2	227.2	3139.2	451.129	1559.1	91.56	4322.6
	1:15	2011.4	238.1	3139.2	451.129	1560.3	91.56	4322.6
	1:20	2027.6	249.0	3139.2	451.129	1576.5	91.56	4322.6
	1:25	2027.6	260.0	3168.0	458.815	1568.8	92.40	4322.6
				3144.0				
	1:26	1465.6				1465.6		4287.6
	1:27	1458.1				1458.1		4281.5
FALLOFF	1:28	1451.8				1451.8		4276.9
	1:29	1449.4				1449.4		4273.9
	1:30	1445.6				1445.6		4270.8
	1:35	1436.9				1436.9		4261.6
	1:40	1429.4				1429.4		4253.9