



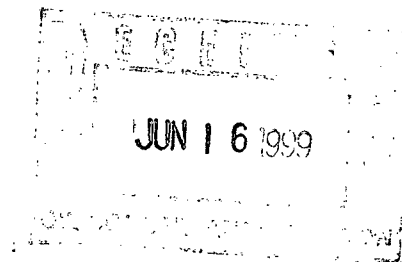
Texaco E & P

205 E. Bender Blvd.
Hobbs NM 88240
505 393 7191

1 P1-2 N/R

June 14, 1999

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505



Attn: Mr. Ben Stone

Re: Request for increase in injection pressure on the Vacuum Glorieta West Unit S25, 26, 35 & 36 T17S R34E and S30 T17S R35E, Lea County, New Mexico.

Dear Mr. Stone:

Texaco Exploration and Production, Inc. respectfully requests an increase in injection pressure for the following wells in the Vacuum Glorieta West Unit:

Well	Maximum Surface Pressure During Step Rate Test	Requested Permitted Injection Pressure
✓VGWU #38	2366	2000
✓VGWU #39	2256	2000
✓VGWU #40	2361	2000
✓VGWU #41	2367	2000
✓VGWU #42	2489	2000
✓VGWU #50	2265	2000
✓VGWU #51	2254	2000
VGWU #52	2217	2000
✓VGWU #53	2310	2000
23 VGWU #54	2275	2000
WELLS VGWU #55	2307	2000
VGWU #63-	2363	2000
VGWU #64	2261	2000
✓VGWU #65	1959*	2000
VGWU #66	2799	2000
✓VGWU #67	2311	2000
VGWU #68 -	2373	2000
VGWU #77	2204	2000
✓VGWU #78	2245	2000
✓VGWU #79	2289	2000
✓VGWU #80	2301	2000
VGWU #81	2281	2000
✓VGWU #82	2253	2000

*This test was halted due to a flowline rupture. Due to the proximity of this well to the others, it can be inferred that the parting pressure is above 2000 psi (see attached map.)



Texaco E & P

205 E. Bender Blvd.
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505 393 7191

Due to limitations on the surface equipment, we were unable to determine the actual parting pressure. However, the step rate tests confirm that the fracturing pressure is above the requested injection pressure. In addition, the three southernmost rows of injectors have been injecting at 2000 psi since 1997 with no communication with higher or lower zones.

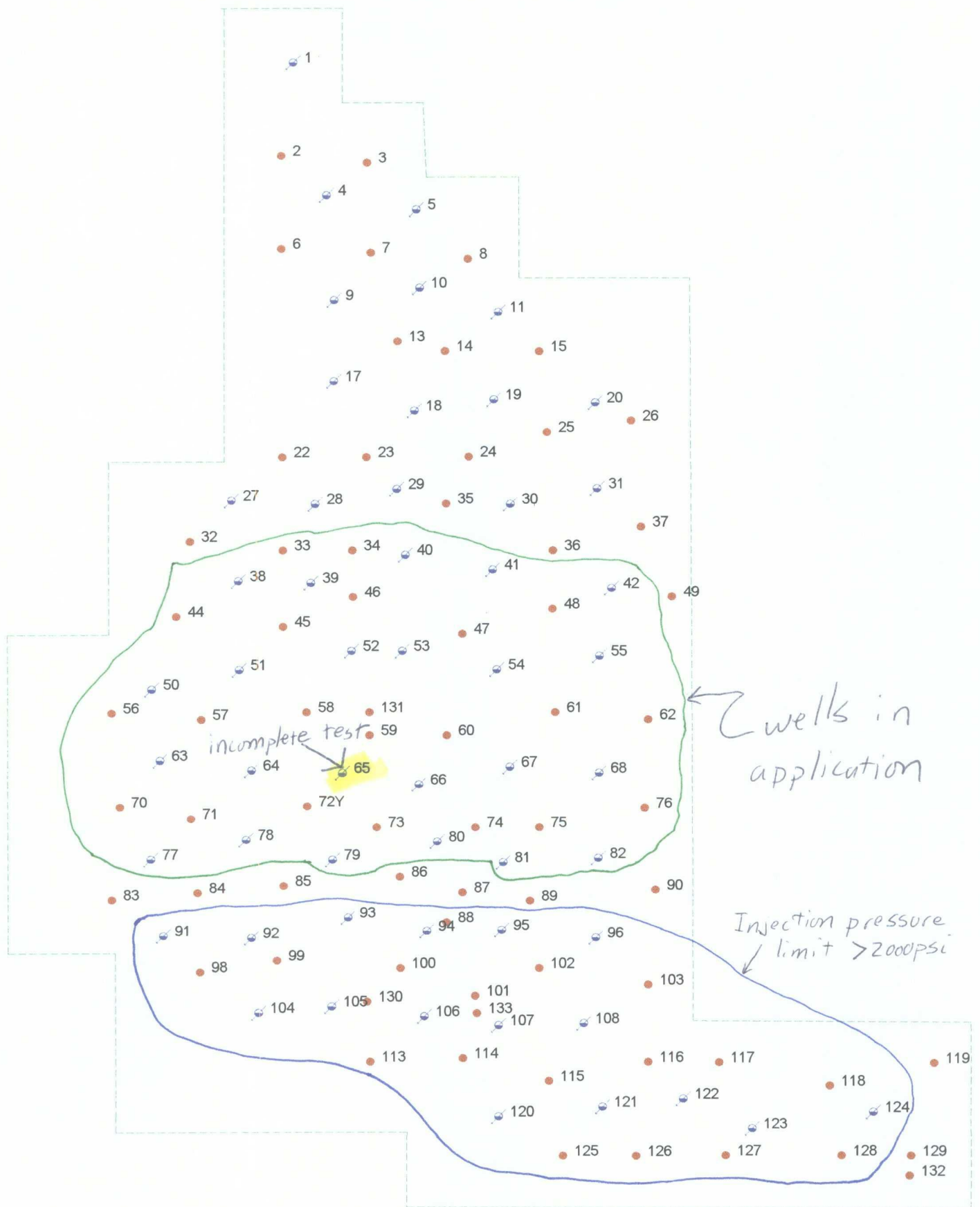
If you have any questions or concerns with this application, please call Britton McQuien at (505) 397-0427.

Sincerely,

Britton McQuien
Production Engineer

Enc

CC: Mr. Chris Williams



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 21, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #38
LEA COUNTY, NEW MEXICO

WO#: 99-14-0416

PERFS = 5958-6127

PACKER DEPTH = 5892

BHP GAUGE DEPTH = SURFACE ONLY

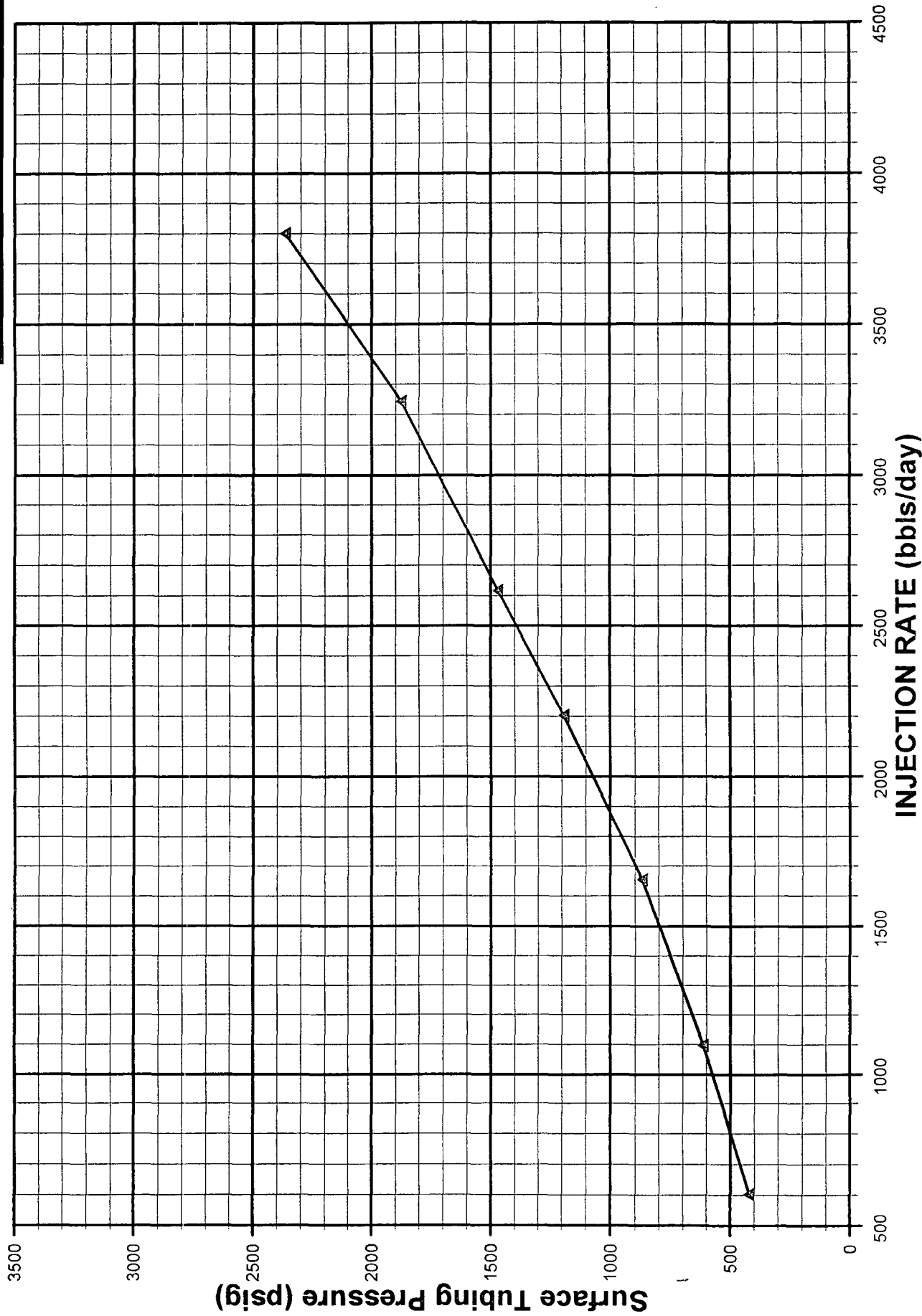
STEP NO & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	9:30	200.7				200.7		
	9:35	309.9	2.0	576.0	18.788	291.1	16.80	
	9:40	340.3	4.1	604.8	20.563	319.7	17.64	
	9:45	397.4	6.2	604.8	20.563	376.8	17.64	
	9:50	406.2	8.4	633.6	22.411	383.8	18.48	
	9:55	426.5	10.5	604.8	20.563	405.9	17.64	
	10:00	422.6	12.6	604.8	20.563	402.0	17.64	
				604.8				
	10:05	607.8	16.3	1065.6	58.634	549.2	31.08	
	10:10	611.5	20.2	1123.2	64.631	546.9	32.76	
2	10:15	615.2	24.0	1094.4	61.599	553.6	31.92	
	10:20	610.0	27.9	1123.2	64.631	545.4	32.76	
	10:25	606.1	31.7	1094.4	61.599	544.5	31.92	
	10:30	612.4	35.5	1094.4	61.599	550.8	31.92	
				1099.2				
	10:35	871.2	41.1	1612.8	126.218	745.0	47.04	
	10:40	852.1	46.9	1670.4	134.684	717.4	48.72	
	10:45	881.2	52.7	1670.4	134.684	746.5	48.72	
	10:50	864.6	58.4	1641.6	130.419	734.2	47.88	
	10:55	887.5	64.2	1670.4	134.684	752.8	48.72	
3	11:00	868.4	70.0	1670.4	134.684	733.7	48.72	
				1656.0				
	11:05	1183.8	77.5	2160.0	216.689	967.1	63.00	
	11:10	1185.5	85.2	2217.6	227.500	958.0	64.68	
	11:15	1180.4	92.9	2217.6	227.500	952.9	64.68	
	11:20	1205.7	100.5	2188.8	222.064	983.6	63.84	
	11:25	1199.3	108.2	2217.6	227.500	971.8	64.68	
	11:30	1191.6	115.9	2217.6	227.500	964.1	64.68	
				2203.2				

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	11:35	1475.9	125.1	2649.6	316.214	1159.7	77.28	
	11:40	1486.0	134.3	2649.6	316.214	1169.8	77.28	
	11:45	1474.6	143.4	2620.8	309.885	1164.7	76.44	
	11:50	1475.8	152.4	2592.0	303.614	1172.2	75.60	
	11:55	1485.9	161.4	2592.0	303.614	1182.3	75.60	
	12:00	1470.7	170.4	2592.0	303.614	1167.1	75.60	
				2616.0				
	12:05	1871.7	181.5	3196.8	447.529	1424.2	93.24	
	12:10	1888.2	193.1	3340.8	485.535	1402.7	97.44	
	12:15	1865.5	204.1	3168.0	440.099	1425.4	92.40	
6	12:20	1870.6	215.4	3254.4	462.561	1408.0	94.92	
	12:25	1877.0	226.7	3254.4	462.561	1414.4	94.92	
	12:30	1878.2	238.0	3254.4	462.561	1415.6	94.92	
				3244.8				
	12:35	2342.2	250.7	3657.6	574.130	1768.1	106.68	
7	12:40	2349.8	263.9	3801.6	616.645	1733.2	110.88	
	12:45	2370.1	277.1	3801.6	616.645	1753.5	110.88	
	12:50	2357.3	290.3	3801.6	616.645	1740.7	110.88	
	12:55	2366.1	303.5	3801.6	616.645	1749.5	110.88	
	1:00		316.7	3772.8				

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #38
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 24, 1999

WELL NAME: V.G.W.U. SATELLITE #1, WELL #39
LEA COUNTY, NEW MEXICO

WO#: 99-14-0417

PERFS = 5980-6154

PACKER DEPTH = 5908

BHP GAUGE DEPTH = SURFACE ONLY

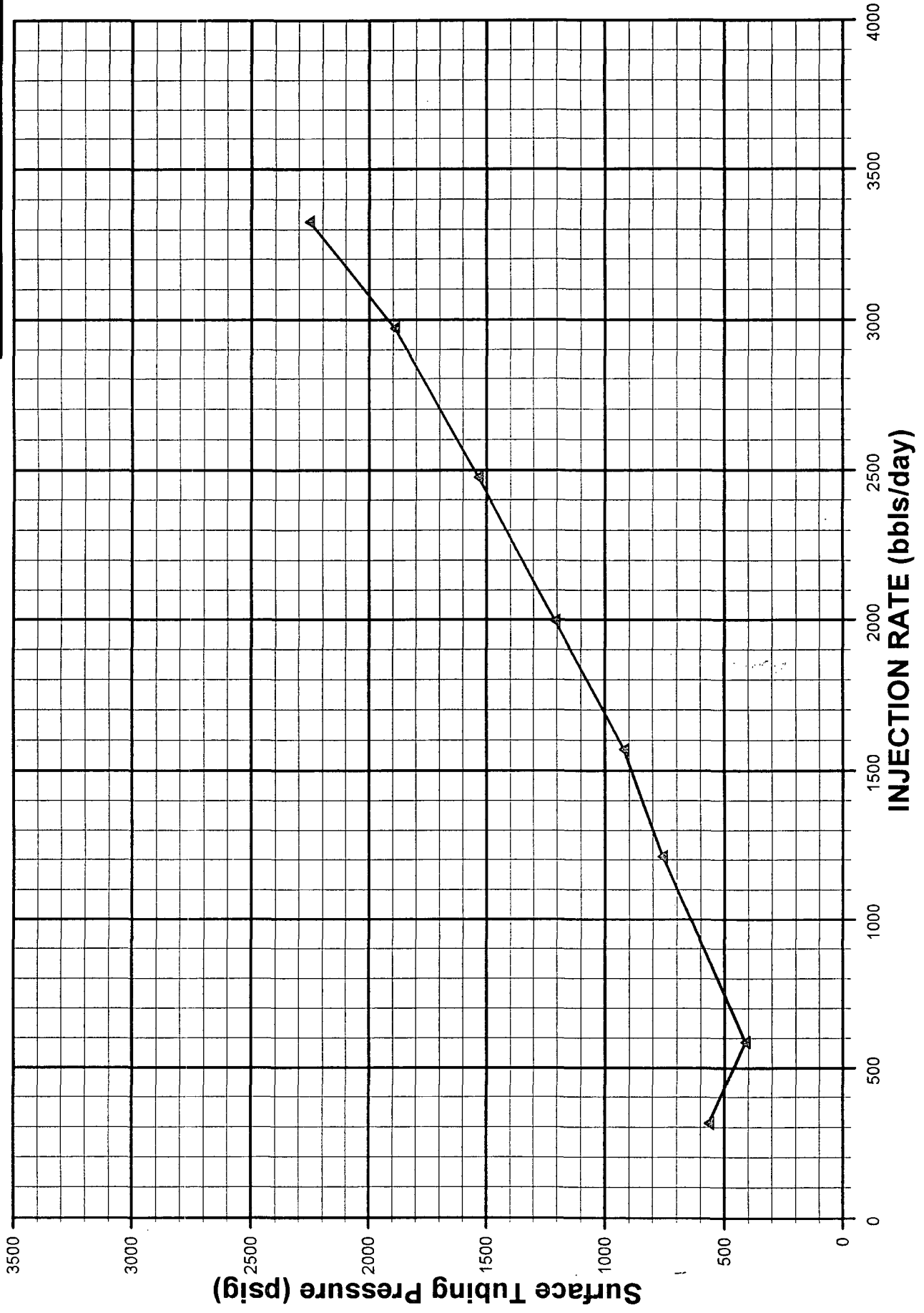
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:00	258.5				258.5		
	8:05	414.6	0.9	259.2	4.306	410.3	7.56	
	8:10	291.5	2.1	345.6	7.331	284.2	10.08	
	8:15	177.3	3.2	316.8	6.241	171.1	9.24	
	8:20	225.5	4.3	316.8	6.241	219.3	9.24	
	8:25	447.7	5.5	345.6	7.331	440.4	10.08	
	8:30	564.5	6.6	316.8	6.241	558.3	9.24	
				316.8				
	8:35	436.2	8.8	633.6	22.500	413.7	18.48	
	8:40	429.9	10.6	518.4	15.522	414.4	15.12	
2	8:45	414.6	12.7	604.8	20.644	394.0	17.64	
	8:50	408.3	14.7	576.0	18.863	389.4	16.80	
	8:55	412.0	16.8	604.8	20.644	391.4	17.64	
	9:00		18.8					
				587.52				
	9:05	747.0	22.8	1152.0	68.000	679.0	33.60	
	9:10	728.0	27.1	1238.4	77.734	650.3	36.12	
	9:15	748.6	31.3	1209.6	74.423	674.2	35.28	
	9:20	754.3	35.6	1238.4	77.734	676.6	36.12	
	9:25	760.6	39.8	1209.6	74.423	686.2	35.28	
3	9:30	760.5	44.1	1238.4	77.734	682.8	36.12	
				1214.4				
	9:35	922.8	49.5	1555.2	118.474	804.3	45.36	
	9:40	929.1	54.9	1555.2	118.474	810.6	45.36	
	9:45	935.4	60.4	1584.0	122.565	812.8	46.20	
	9:50	935.3	65.8	1555.2	118.474	816.8	45.36	
	9:55	920.0	71.3	1584.0	122.565	797.4	46.20	
	10:00	919.8	76.8	1584.0	122.565	797.2	46.20	
				1569.6				

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	10:05	1196.1	83.4	1900.8	171.732	1024.4	55.44	
	10:10	1194.7	90.4	2016.0	191.481	1003.2	58.80	
	10:15	1201.0	97.4	2016.0	191.481	1009.5	58.80	
	10:20	1189.4	104.4	2016.0	191.481	997.9	58.80	
	10:25	1202.0	111.4	2016.0	191.481	1010.5	58.80	
	10:30	1208.1	118.4	2016.0	191.481	1016.6	58.80	
				1996.8				
	10:35	1514.9	126.8	2419.2	268.294	1246.6	70.56	
	10:40	1531.3	135.4	2476.8	280.232	1251.1	72.24	
	10:45	1535.0	144.1	2505.6	286.290	1248.7	73.08	
6	10:50	1524.8	152.7	2476.8	280.232	1244.6	72.24	
	10:55	1526.1	161.3	2476.8	280.232	1245.9	72.24	
	11:00	1534.9	170.0	2505.6	286.290	1248.6	73.08	
				2476.8				
	11:05	1928.1	180.3	2966.4	391.241	1536.9	86.52	
	11:10	1910.3	190.6	2966.4	391.241	1519.1	86.52	
	11:15	1892.5	200.9	2966.4	391.241	1501.3	86.52	
	11:20	1891.2	211.3	2995.2	398.297	1492.9	87.36	
	11:25	1893.7	221.6	2966.4	391.241	1502.5	86.52	
	11:30		231.9	2966.4	391.241	-391.2	86.52	
7				2971.2				
	11:35	2192.3	243.0	3196.8	449.306	1743.0	93.24	
	11:40	2198.6	254.6	3340.8	487.464	1711.1	97.44	
	11:45	2226.6	266.2	3340.8	487.464	1739.1	97.44	
	11:50	2169.2	277.7	3312.0	479.718	1689.5	96.60	
	11:55	2244.2	289.4	3369.6	495.266	1748.9	98.28	
	12:00	2255.6	301.2	3398.4	503.126	1752.5	99.12	
				3326.4				
	12:01	576.0				576.0		
	12:02	549.3				549.3		
8	12:03	535.3				535.3		
	12:04	523.9				523.9		
	12:05	516.3				516.3		
	12:10	492.1				492.1		
	12:15	476.9				476.9		
FALLOFF								

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #39
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 24, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #40
LEA COUNTY, NEW MEXICO

WO#: 99-14-0418

PERFS = 6002-6040

PACKER DEPTH = 5928

BHP GAUGE DEPTH = SURFACE ONLY

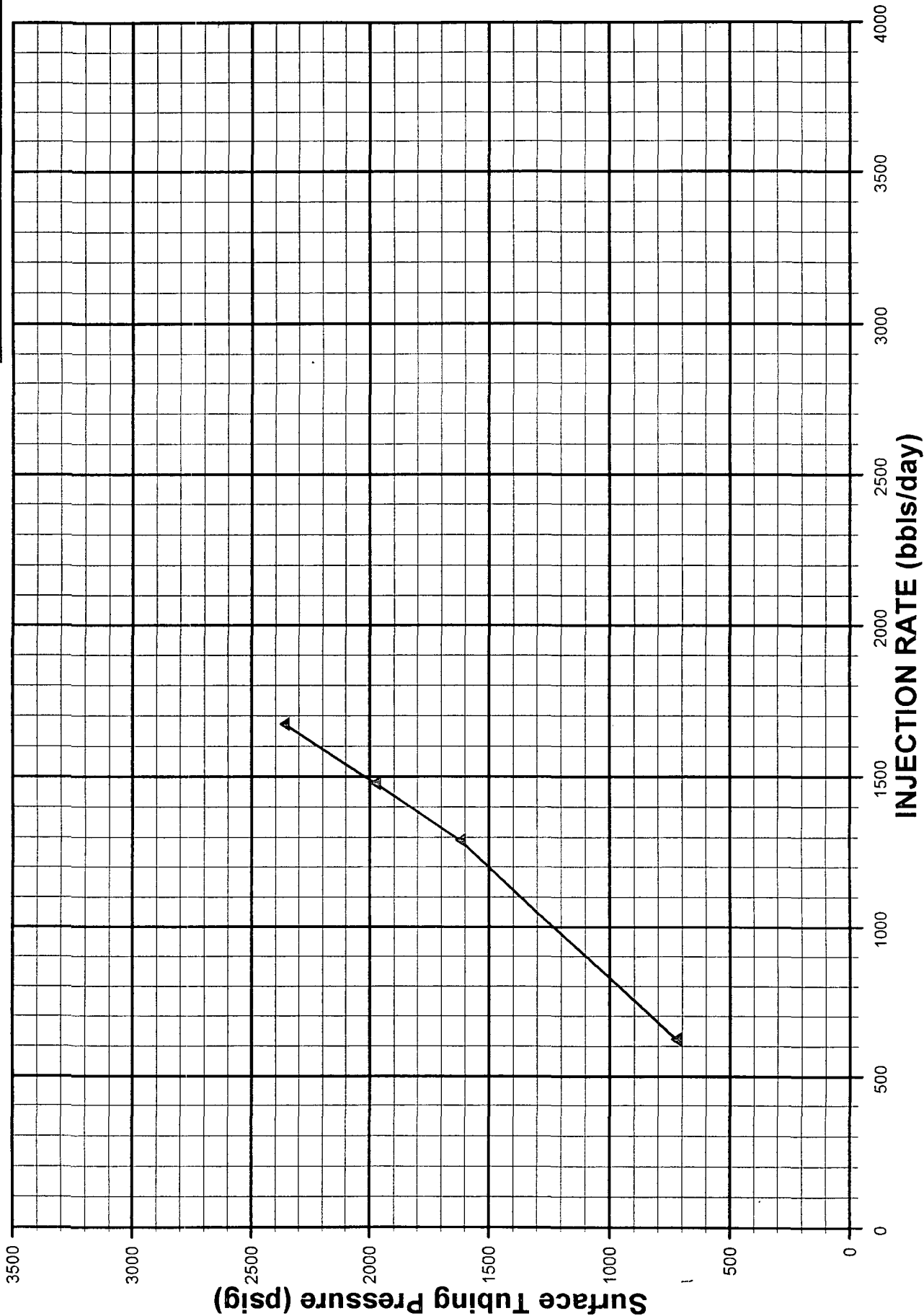
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
STEP NO.		SURFACE	CUMMULATIVE	INJECTION	FRICTION	CORRECTED	INJECTION	MEASURED
&		TUBING PRESS.	VOL. INJECTED	RATE	HEAD LOSS	TUBING PRESS.	RATE (gpm)	BHP
REMARKS	TIME	(psig)	(bbls)	(bbls/day)	(psi)	(psi) (1)-(4)	(3)/34.2857	(psi)
1	1:00	229.1				229.1		
	1:05	552.7	2.1	604.8	20.488	532.2	17.64	
	1:10	614.8	4.3	633.6	22.329	592.5	18.48	
	1:15	630.0	6.5	633.6	22.329	607.7	18.48	
	1:20	676.9	8.7	633.6	22.329	654.6	18.48	
	1:25	690.7	10.8	604.8	20.488	670.2	17.64	
	1:30	724.9	13.0	633.6	22.329	702.6	18.48	
				624.0				
	1:35	1455.8	17.4	1267.2	80.497	1375.3	36.96	
	1:40	1506.5	21.9	1296.0	83.914	1422.6	37.80	
2	1:45	1572.4	26.4	1296.0	83.914	1488.5	37.80	
	1:50	1599.0	31.0	1324.8	87.396	1511.6	38.64	
	1:55	1614.1	35.4	1267.2	80.497	1533.6	36.96	
	2:00	1620.4	39.9	1296.0	83.914	1536.5	37.80	
				1291.2				
	2:05	1898.0	45.0	1468.8	105.778	1792.2	42.84	
	2:10	1928.6	50.1	1468.8	105.778	1822.8	42.84	
	2:15	1952.7	55.3	1497.6	109.647	1843.1	43.68	
	2:20	1954.0	60.4	1468.8	105.778	1848.2	42.84	
	2:25	1978.1	65.6	1497.6	109.647	1868.5	43.68	
3	2:30	1976.8	70.7	1468.8	105.778	1871.0	42.84	
				1478.4				
	2:35	2232.4	76.4	1641.6	129.945	2102.5	47.88	
	2:40	2287.1	82.1	1641.6	129.945	2157.2	47.88	
	2:45	2295.3	88.0	1699.2	138.505	2156.8	49.56	
	2:50	2275.6	93.9	1699.2	138.505	2137.1	49.56	
	2:55	2307.4	99.7	1670.4	134.193	2173.2	48.72	
	3:00	2361.0	105.6	1699.2	138.505	2222.5	49.56	
				1675.2				

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
STEP NO. & REMARKS	TIME	SURFACE TUBING PRESS. (psig)	CUMMULATIVE VOL. INJECTED (bbls)	INJECTION RATE (bbls/day)	FRICTION HEAD LOSS (psi)	CORRECTED TUBING PRESS. (psi) (1) - (4)	INJECTION RATE (gpm) (3)/34.2857	MEASURED BHP (psi)
FALLOFF	3:01	1155.9				1155.9		
	3:02	942.7				942.7		
	3:03	827.2				827.2		
	3:04	757.4				757.4		
	3:05	710.4				710.4		
	3:10	606.3				606.3		
	3:15	561.8				561.8		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #40
Lea County, New Mexico



WEST - TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 25, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #41
LEA COUNTY, NEW MEXICO

WO#: 99-14-0419

PERFS = 5921

PACKER DEPTH = 6008-6290

BHP GAUGE DEPTH = SURFACE ONLY

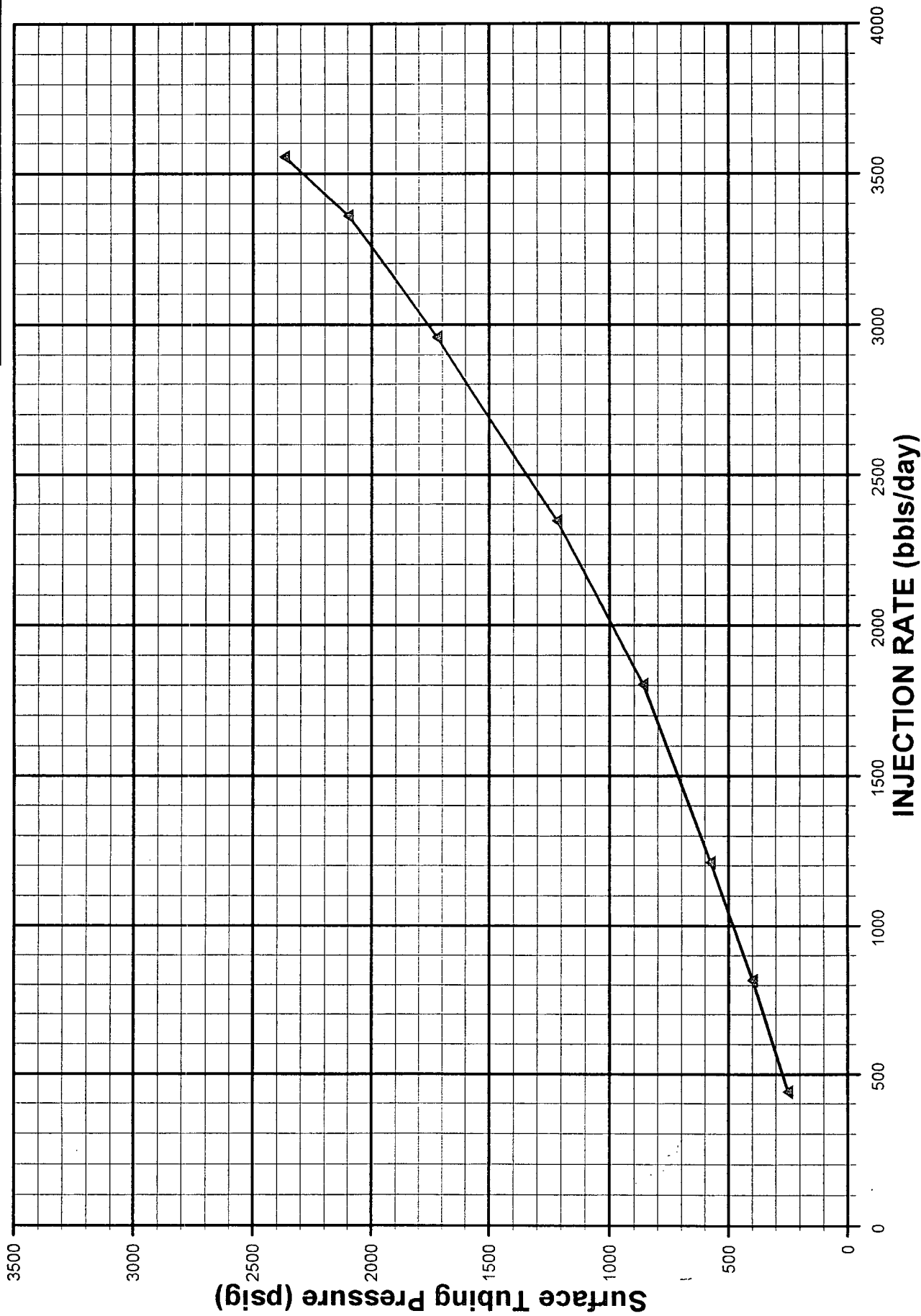
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	7:45	75.6				75.6		
	7:50	156.6	1.4	403.2	9.882	146.7	11.76	
	7:55	179.4	3.0	460.8	12.652	166.7	13.44	
	8:00	199.7	4.5	432.0	11.228	188.5	12.60	
	8:05	216.1	6.1	460.8	12.652	203.4	13.44	
	8:10	232.6	7.6	432.0	11.228	221.4	12.60	
	8:15	249.0	9.2	460.8	12.652	236.3	13.44	
				441.6				
	8:20	350.5	12.0	806.4	35.626	314.9	23.52	
	8:25	365.7	14.8	806.4	35.626	330.1	23.52	
2	8:30	411.4	17.7	835.2	38.016	373.4	24.36	
	8:35	396.1	20.5	806.4	35.626	360.5	23.52	
	8:40	403.7	23.3	806.4	35.626	368.1	23.52	
	8:45	399.8	26.2	835.2	38.016	361.8	24.36	
				816.0				
	8:50	538.1	30.2	1152.0	68.919	469.2	33.60	
	8:55	535.6	34.5	1238.4	78.785	456.8	36.12	
	9:00	543.2	38.8	1238.4	78.785	464.4	36.12	
	9:05	568.5	43.1	1238.4	78.785	489.7	36.12	
	9:10	577.4	47.3	1209.6	75.429	502.0	35.28	
3	9:15	576.1	51.5	1209.6	75.429	500.7	35.28	
				1214.4				
	9:20	833.7	57.6	1756.8	150.448	683.3	51.24	
	9:25	852.6	63.9	1814.4	159.700	692.9	52.92	
	9:30	858.9	70.2	1814.4	159.700	699.2	52.92	
	9:35	853.8	76.5	1814.4	159.700	694.1	52.92	
	9:40	852.5	82.8	1814.4	159.700	692.8	52.92	
	9:45	862.5	89.1	1814.4	159.700	702.8	52.92	
				1804.8				

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	9:50	1185.9	97.1	2304.0	248.452	937.4	67.20	
	9:55	1188.4	105.3	2361.6	260.065	928.3	68.88	
	10:00	1204.9	113.5	2361.6	260.065	944.8	68.88	
	10:05	1206.1	121.6	2332.8	254.228	951.9	68.04	
	10:10	1202.3	129.8	2361.6	260.065	942.2	68.88	
	10:15	1217.6	138.0	2361.6	260.065	957.5	68.88	
				2347.2				
	10:20	1656.2	148.2	2937.6	389.436	1266.8	85.68	
	10:25	1694.3	158.5	2966.4	396.528	1297.8	86.52	
	10:30	1685.4	168.7	2937.6	389.436	1296.0	85.68	
6	10:35	1712.1	179.0	2966.4	396.528	1315.6	86.52	
	10:40	1708.3	189.3	2966.4	396.528	1311.8	86.52	
	10:45	1723.5	199.6	2966.4	396.528	1327.0	86.52	
				2956.8				
	10:50	2074.8	211.2	3340.8	494.052	1580.7	97.44	
	10:55	2072.2	222.9	3369.6	501.960	1570.2	98.28	
	11:00	2088.7	234.6	3369.6	501.960	1586.7	98.28	
	11:05	2086.1	246.2	3340.8	494.052	1592.0	97.44	
	11:10	2079.7	257.9	3369.6	501.960	1577.7	98.28	
	11:15	2098.7	269.6	3369.6	501.960	1596.7	98.28	
7				3360.0				
	11:20	2270.4	281.9	3542.4	550.617	1719.8	103.32	
	11:25	2294.5	294.3	3571.2	558.928	1735.6	104.16	
	11:30	2313.5	306.6	3542.4	550.617	1762.9	103.32	
	11:35	2345.2	318.9	3542.4	550.617	1794.6	103.32	
	11:40	2360.5	331.3	3571.2	558.928	1801.6	104.16	
	11:45	2366.8	343.7	3571.2	558.928	1807.9	104.16	
				3556.8				
	11:46	608.6				608.6		
	11:47	523.6				523.6		
8	11:48	476.6				476.6		
	11:49	446.1				446.1		
	11:50	423.2				423.2		
	11:55	369.8				369.8		
	12:00	344.4				344.4		
FALLOFF								

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #41
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 25, 1999

WELL NAME: V.G.W.U. INJECTION STAELLITE #1, WELL #42
LEA COUNTY, NEW MEXICO

WO#: 99-14-0420

PERFS = 6024-6292

PACKER DEPTH = 5946

BHP GAUGE DEPTH = SURFACE ONLY

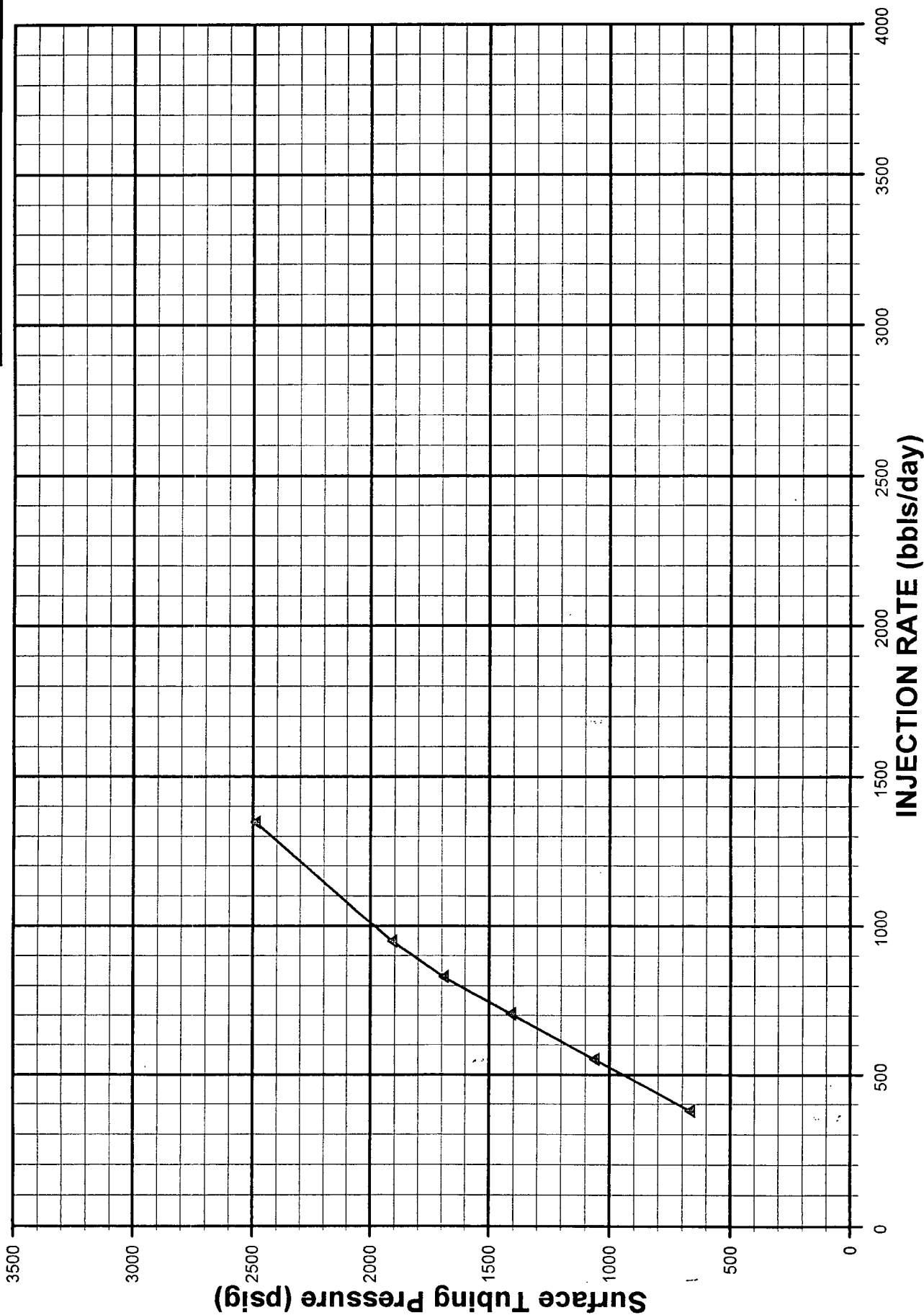
STEP NO & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	1:00	140.7				140.7		
	1:05	426.1	1.3	374.4	8.629	417.5	10.92	
	1:10	481.7	2.6	374.4	8.629	473.1	10.92	
	1:15	571.7	3.9	374.4	8.629	563.1	10.92	
	1:20	614.7	5.2	374.4	8.629	606.1	10.92	
	1:25	628.6	6.6	403.2	9.897	618.7	11.76	
	1:30	667.8	7.9	374.4	8.629	659.2	10.92	
				379.2				
	1:35	861.9	9.8	547.2	17.412	844.5	15.96	
	1:40	932.9	11.7	547.2	17.412	915.5	15.96	
2	1:45	974.7	13.6	547.2	17.412	957.3	15.96	
	1:50	1003.8	15.6	576.0	19.145	984.7	16.80	
	1:55	1073.6	17.5	547.2	17.412	1056.2	15.96	
	2:00	1064.6	19.4	547.2	17.412	1047.2	15.96	
				552.0				
	2:05	1220.7	21.9	720.0	28.930	1191.8	21.00	
	2:10	1294.2	24.3	691.2	26.826	1267.4	20.16	
	2:15	1305.6	26.8	720.0	28.930	1276.7	21.00	
	2:20	1353.8	29.2	691.2	26.826	1327.0	20.16	
	2:25	1383.0	31.7	720.0	28.930	1354.1	21.00	
3	2:30	1409.6	34.1	691.2	26.826	1382.8	20.16	
				705.6				
	2:35	1542.8	37.0	835.2	38.071	1504.7	24.36	
	2:40	1602.4	39.9	835.2	38.071	1564.3	24.36	
	2:45	1620.1	42.7	806.4	35.678	1584.4	23.52	
	2:50	1672.2	45.6	835.2	38.071	1634.1	24.36	
	2:55	1657.0	48.5	835.2	38.071	1618.9	24.36	
	3:00	1692.5	51.4	835.2	38.071	1654.4	24.36	
				830.4				

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)
5	3:05	1821.9	54.7	950.4	48.352	1773.5	27.72	
	3:10	1894.2	58.0	950.4	48.352	1845.8	27.72	
	3:15	1915.8	61.3	950.4	48.352	1867.4	27.72	
	3:20	1924.7	64.6	950.4	48.352	1876.3	27.72	
	3:25	1969.1	67.9	950.4	48.352	1920.7	27.72	
	3:30	1909.5	71.2	950.4	48.352	1861.1	27.72	
				950.4				
	3:35	2320.1	75.8	1324.8	89.385	2230.7	38.64	
	3:40	2372.2	80.5	1353.6	93.013	2279.2	39.48	
	3:45	2418.0	85.2	1353.6	93.013	2325.0	39.48	
6	3:50	2439.6	89.9	1353.6	93.013	2346.6	39.48	
	3:55	2481.6	94.6	1353.6	93.013	2388.6	39.48	
	4:00	2489.2	99.3	1353.6	93.013	2396.2	39.48	
				1348.8				
FALLOFF	4:01	1777.4				1777.4		
	4:02	1617.5				1617.5		
	4:03	1495.7				1495.7		
	4:04	1400.6				1400.6		
	4:05	1320.6				1320.6		
	4:10	1051.7				1051.7		
	4:15	898.1				898.1		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #42
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 26, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #50
LEA COUNTY, NEW MEXICO

WO#: 99-14-0421

PERFS = 5945-6100

PACKER DEPTH = 5876

BHP GAUGE DEPTH = SURFACE ONLY

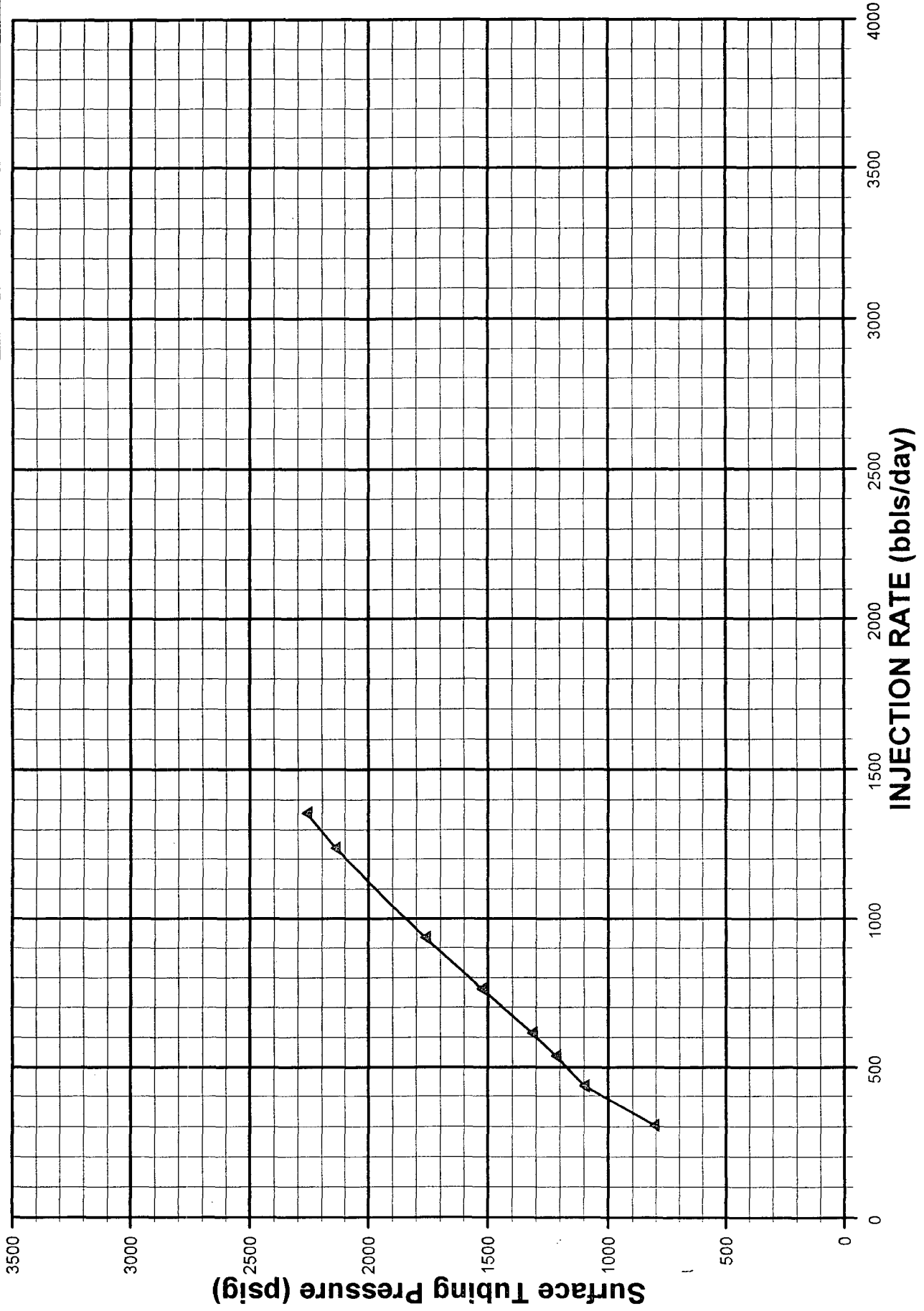
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:00	466.7				466.7		
	8:05	686.2	1.0	288.0	5.194	681.0	8.40	
	8:10	737.0	2.0	288.0	5.194	731.8	8.40	
	8:15	753.4	3.1	316.8	6.196	747.2	9.24	
	8:20	776.2	4.2	316.8	6.196	770.0	9.24	
	8:25	791.4	5.3	316.8	6.196	785.2	9.24	
	8:30	806.6	6.4	316.8	6.196	800.4	9.24	
				307.2				
	8:35	933.5	7.8	403.2	9.680	923.8	11.76	
	8:40	966.4	9.4	460.8	12.392	954.0	13.44	
2	8:45	994.2	10.9	432.0	10.998	983.2	12.60	
	8:50		12.4	432.0	10.998	-11.0	12.60	
	8:55	1039.7	13.9	432.0	10.998	1028.7	12.60	
	9:00	1100.0	15.5	460.8	12.392	1087.6	13.44	
				436.8				
	9:05	1167.6	17.4	547.2	17.031	1150.6	15.96	
	9:10	1176.4	19.2	518.4	15.409	1161.0	15.12	
	9:15	1185.1	21.1	547.2	17.031	1168.1	15.96	
	9:20	1195.2	23.0	547.2	17.031	1178.2	15.96	
	9:25	1182.6	24.8	518.4	15.409	1167.2	15.12	
3	9:30	1218.0	26.7	547.2	17.031	1201.0	15.96	
				537.6				
	9:35	1276.2	28.9	633.6	22.337	1253.9	18.48	
	9:40	1296.5	31.0	604.8	20.495	1276.0	17.64	
	9:45	1311.6	33.1	604.8	20.495	1291.1	17.64	
	9:50	1314.0	35.2	604.8	20.495	1293.5	17.64	
	9:55	1306.3	37.4	633.6	22.337	1284.0	18.48	
	10:00	1315.1	39.5	604.8	20.495	1294.6	17.64	
				614.4				

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	10:05	1477.3	42.1	748.8	30.425	1446.9	21.84	
	10:10	1507.7	44.8	777.6	32.625	1475.1	22.68	
	10:15	1517.9	47.4	748.8	30.425	1487.5	21.84	
	10:20	1526.7	50.1	777.6	32.625	1494.1	22.68	
	10:25	1526.7	52.7	748.8	30.425	1496.3	21.84	
	10:30	1526.7	55.4	777.6	32.625	1494.1	22.68	
				763.2				
	10:35	1686.4	58.6	921.6	44.675	1641.7	26.88	
	10:40	1720.6	61.8	921.6	44.675	1675.9	26.88	
	10:45	1723.1	65.1	950.4	47.292	1675.8	27.72	
6	10:50	1718.0	68.4	950.4	47.292	1670.7	27.72	
	10:55	1743.3	71.6	926.6	45.124	1698.2	27.03	
	11:00	1764.8	74.9	950.4	47.292	1717.5	27.72	
				936.0				
	11:05	2046.4	79.1	1209.6	73.883	1972.5	35.28	
	11:10	2084.6	83.4	1238.4	77.170	2007.4	36.12	
	11:15	2107.4	87.8	1267.2	80.523	2026.9	36.96	
	11:20	2106.2	92.1	1238.4	77.170	2029.0	36.12	
	11:25	2116.3	96.4	1238.4	77.170	2039.1	36.12	
	11:30	2141.8	100.7	1238.4	77.170	2064.6	36.12	
7				1238.4				
	11:35	2235.9	105.4	1353.6	90.973	2144.9	39.48	
	11:40	2242.3	110.2	1382.4	94.587	2147.7	40.32	
	11:45	2248.7	114.9	1353.6	90.973	2157.7	39.48	
	11:50	2255.0	119.6	1353.6	90.973	2164.0	39.48	
	11:55	2265.2	124.3	1353.6	90.973	2174.2	39.48	
	12:00	2263.3	129.0	1353.6	90.973	2172.3	39.48	
				1358.4				
	12:01	1381.6				1381.6		
	12:02							
8	12:03	1103.9				1103.9		
	12:04	1039.2				1039.2		
	12:05	994.7				994.7		
	12:10	895.7				895.7		
	12:15	857.4				857.4		
FALLOFF	12:01	1381.6				1381.6		
	12:02							
	12:03	1103.9				1103.9		
	12:04	1039.2				1039.2		
	12:05	994.7				994.7		
	12:10	895.7				895.7		
	12:15	857.4				857.4		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #50
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 26, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #51
LEA COUNTY, NEW MEXICO

WO#: 99-14-0422

PERFS = 5980-6142

PACKER DEPTH = 5939

BHP GAUGE DEPTH = SURFACE ONLY

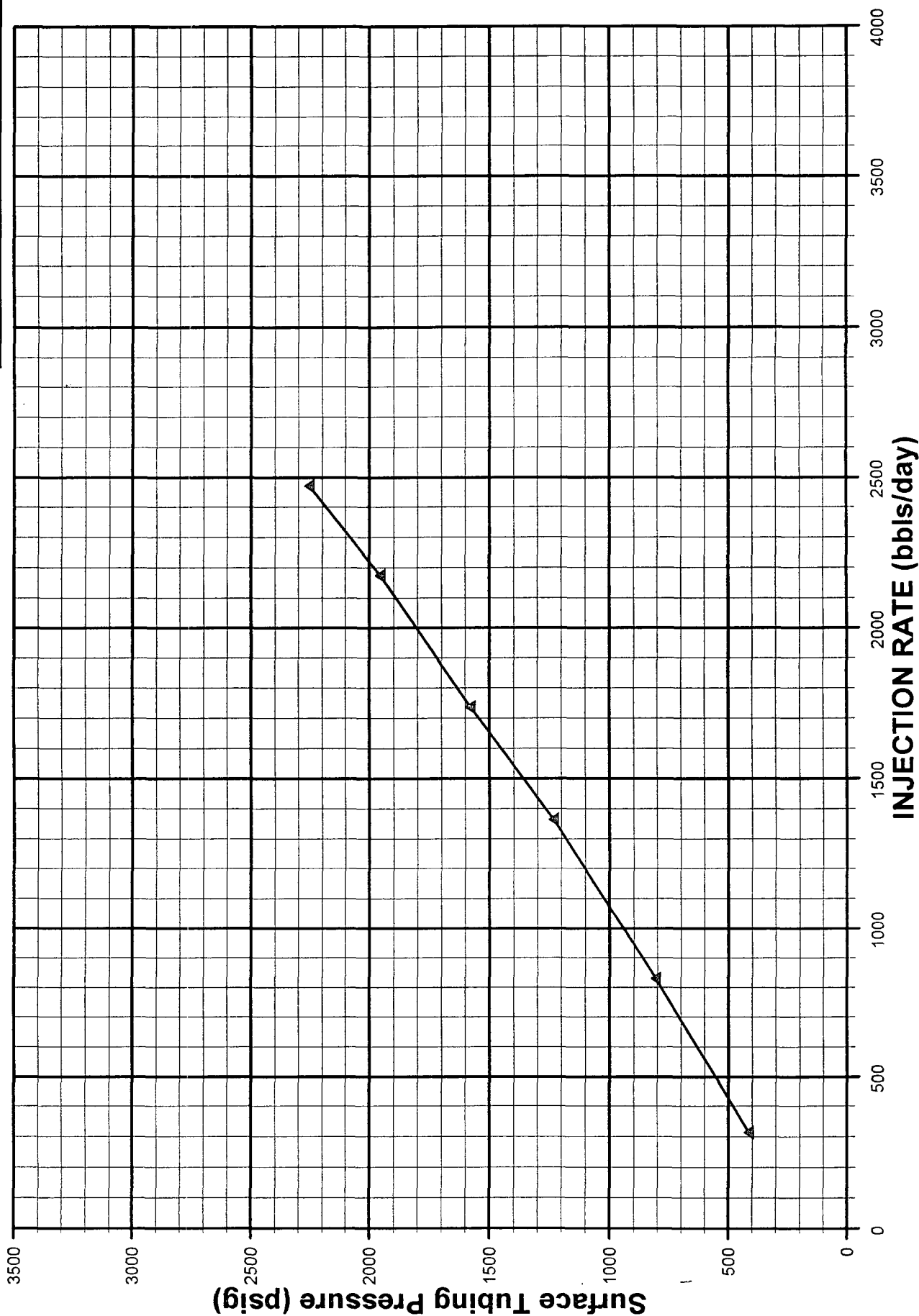
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	1:00	332.2				332.2		
	1:05	342.3	1.1	316.8	6.235	336.1	9.24	
	1:10	357.5	2.2	316.8	6.235	351.3	9.24	
	1:15	378.9	3.3	316.8	6.235	372.7	9.24	
	1:20	392.7	4.4	316.8	6.235	386.5	9.24	
	1:25	409.1	5.5	316.8	6.235	402.9	9.24	
	1:30	414.1	6.6	316.8	6.235	407.9	9.24	
				316.8				
	1:35	709.9	9.3	777.6	32.831	677.1	22.68	
	1:40	749.2	12.2	835.2	37.472	711.7	24.36	
2	1:45	820.3	15.1	835.2	37.472	782.8	24.36	
	1:50	798.7	18.0	835.2	37.472	761.2	24.36	
	1:55	850.7	20.9	835.2	37.472	813.2	24.36	
	2:00	807.4	23.9	864.0	39.897	767.5	25.20	
				830.4				
	2:05	1142.5	28.5	1324.8	87.977	1054.5	38.64	
	2:10	1183.3	33.3	1382.4	95.183	1088.1	40.32	
	2:15	1198.7	38.0	1353.6	91.547	1107.2	39.48	
	2:20	1222.9	42.8	1382.4	95.183	1127.7	40.32	
	2:25	1225.5	47.6	1382.4	95.183	1130.3	40.32	
3	2:30	1232.0	52.3	1353.6	91.547	1140.5	39.48	
				1363.2				
	2:35	1514.9	58.2	1699.2	139.425	1375.5	49.56	
	2:40	1526.3	64.3	1756.8	148.295	1378.0	51.24	
	2:45	1558.0	70.3	1728.0	143.829	1414.2	50.40	
	2:50	1565.6	76.4	1756.8	148.295	1417.3	51.24	
	2:55	1561.7	82.5	1756.8	148.295	1413.4	51.24	
	3:00	1579.5	88.5	1728.0	143.829	1435.7	50.40	
				1737.6				

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	3:05	1924.4	96.1	2188.8	222.726	1701.7	63.84	
	3:10	1937.1	103.6	2160.0	217.334	1719.8	63.00	
	3:15	1929.5	111.2	2188.8	222.726	1706.8	63.84	
	3:20	1957.5	118.8	2188.8	222.726	1734.8	63.84	
	3:25	1956.2	126.2	2131.2	212.004	1744.2	62.16	
	3:30	1954.9	133.8	2188.8	222.726	1732.2	63.84	
				2174.4				
	3:35	2209.2	142.3	2448.0	273.962	1935.2	71.40	
	3:40	2225.7	150.8	2448.0	273.962	1951.7	71.40	
	3:45	2238.5	159.4	2476.8	279.954	1958.5	72.24	
6	3:50	2222.0	168.0	2476.8	279.954	1942.0	72.24	
	3:55	2241.2	176.7	2505.6	286.006	1955.2	73.08	
	4:00	2254.0	185.3	2476.8	279.954	1974.0	72.24	
				2472.0				
FALLOFF	4:01	1017.0				1017.0		
	4:02	887.6				887.6		
	4:03	817.8				817.8		
	4:04	772.1				772.1		
	4:05	737.9				737.9		
	4:10	646.7				646.7		
	4:15	600.0				600.0		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #51
Lea County, New Mexico



WEST - TEST, INC.
A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 5, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL 52
LEA COUNTY, NEW MEXICO

WO#: 99-14-0423

PERFS = 6002-6159

PACKER DEPTH = 5926

BHP GAUGE DEPTH = SURFACE ONLY

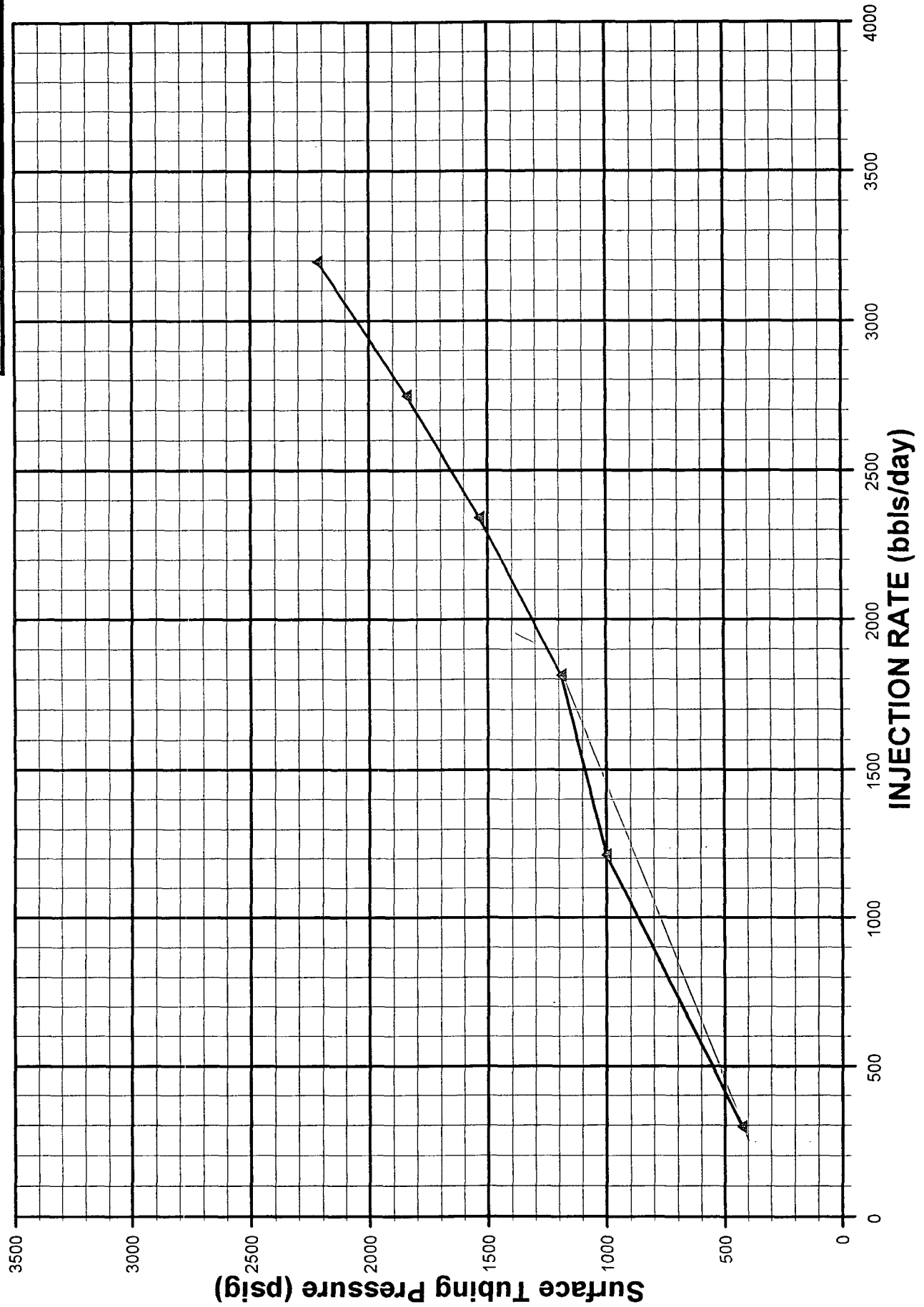
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbis)	(3) INJECTION RATE (bbis/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:45	284.2				284.2		
	8:50	360.3	1.0	288.0	5.244	355.1	8.40	
	8:55	374.2	2.0	288.0	5.244	369.0	8.40	
	9:00	370.3	3.1	316.8	6.256	364.0	9.24	
	9:05	400.7	4.1	288.0	5.244	395.5	8.40	
	9:10	415.8	5.1	288.0	5.244	410.6	8.40	
	9:15	425.9	6.2	316.8	6.256	419.6	9.24	
				297.6				
	9:20	788.8	10.2	1152.0	68.156	720.6	33.60	
	9:25	840.7	14.4	1209.6	74.595	766.1	35.28	
2	9:30	845.8	18.7	1238.4	77.913	767.9	36.12	
	9:35	839.4	23.0	1238.4	77.913	761.5	36.12	
	9:40	871.1	27.2	1209.6	74.595	796.5	35.28	
	9:45	1001.7	31.5	1238.4	77.913	923.8	36.12	
				1214.4				
	9:50	1141.2	37.7	1785.6	153.328	987.9	52.08	
	9:55	1152.6	44.0	1814.4	157.934	994.7	52.92	
	10:00	1171.6	50.3	1814.4	157.934	1013.7	52.92	
	10:05	1181.8	56.6	1814.4	157.934	1023.9	52.92	
	10:10	1172.9	62.9	1814.4	157.934	1015.0	52.92	
3	10:15	1188.1	69.3	1843.2	162.603	1025.5	53.76	
				1814.4				
	10:20	1512.6	77.2	2275.2	240.052	1272.5	66.36	
	10:25	1525.2	85.4	2361.6	257.189	1268.0	68.88	
	10:30	1514.9	93.6	2361.6	257.189	1257.7	68.88	
	10:35	1527.6	101.7	2332.8	251.416	1276.2	68.04	
	10:40	1518.7	109.9	2361.6	257.189	1261.5	68.88	
	10:45	1536.4	118.1	2361.6	257.189	1279.2	68.88	
				2342.4				

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	10:50	1809.1	127.5	2707.2	331.118	1478.0	78.96	
	10:55	1829.3	137.0	2736.0	337.664	1491.6	79.80	
	11:00	1840.7	146.7	2793.6	350.933	1489.8	81.48	
	11:05	1835.7	156.3	2764.8	344.269	1491.4	80.64	
	11:10	1848.4	165.9	2764.8	344.269	1504.1	80.64	
	11:15	1842.1	175.4	2736.0	337.664	1504.4	79.80	
				2750.4				
	11:20	2205.4	186.5	3196.8	450.343	1755.1	93.24	
	11:25	2216.9	197.6	3196.8	450.343	1766.6	93.24	
	11:30	2201.6	208.7	3196.8	450.343	1751.3	93.24	
	11:35	2218.1	219.8	3196.8	450.343	1767.8	93.24	
	11:40	2210.4	230.9	3196.8	450.343	1760.1	93.24	
	11:45	2216.8	242.0	3196.8	450.343	1766.5	93.24	
				3196.8				
FALLOFF	11:46	735.8				735.8		
	11:47	680.0				680.0		
	11:48	650.8				650.8		
	11:49	633.0				633.0		
	11:50	619.1				619.1		
	11:55	582.2				582.2		
	12:00	561.9				561.9		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #52
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 27, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #53
LEA COUNTY, NEW MEXICO

WO#: 99-14-0424

PERFS = 6012-6170

PACKER DEPTH = 5919

BHP GAUGE DEPTH = SURFACE ONLY

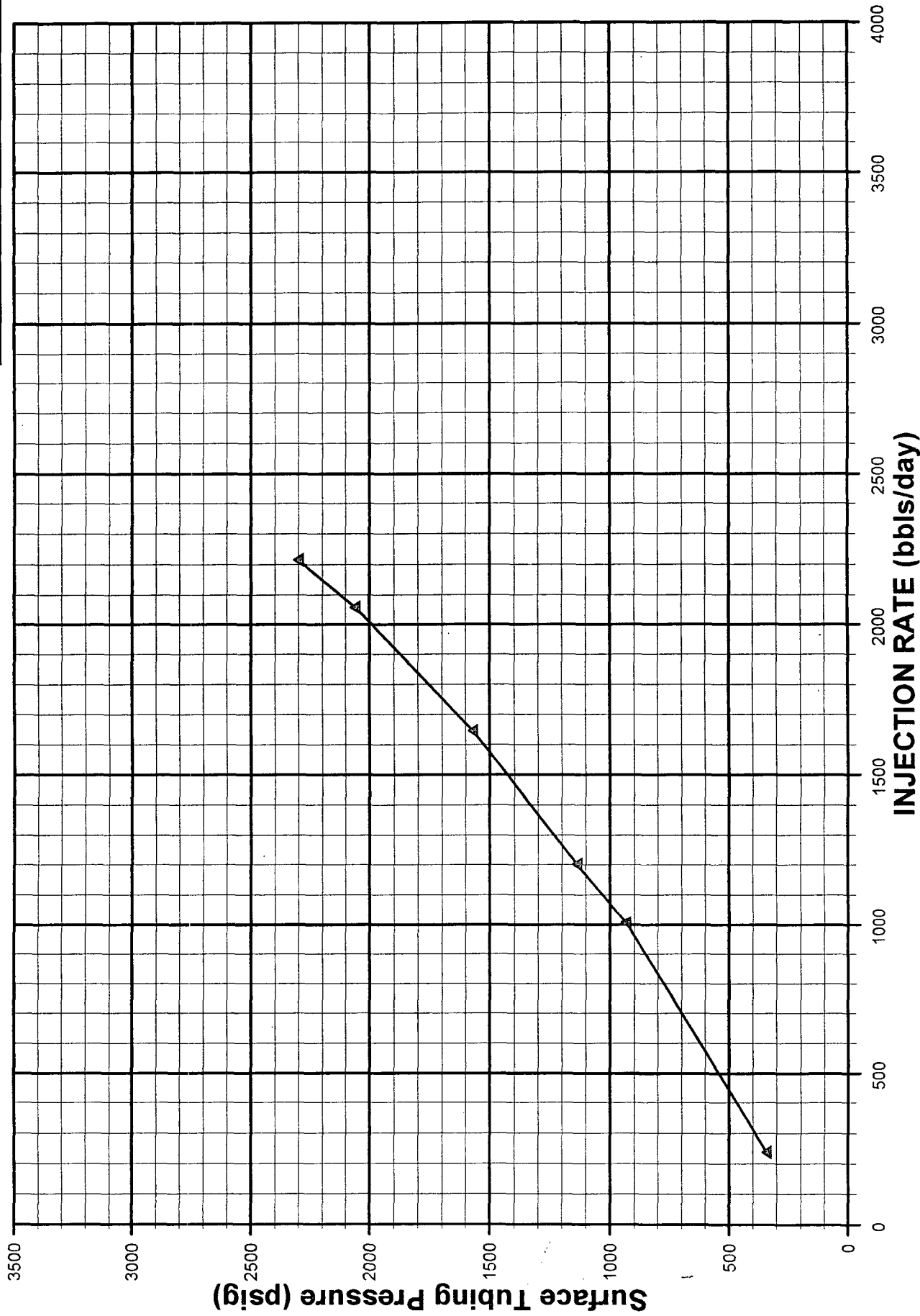
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	11:00	204.6				204.6		
	11:05	283.2	0.8	230.4	3.476	279.7	6.72	
	11:10	308.5	1.6	230.4	3.476	305.0	6.72	
	11:15	314.8	2.5	259.2	4.323	310.5	7.56	
	11:20	338.9	3.3	230.4	3.476	335.4	6.72	
	11:25	314.7	4.2	259.2	4.323	310.4	7.56	
	11:30	342.6	5.0	230.4	3.476	339.1	6.72	
				240.0				
	11:35	818.6	9.0	1152.0	68.269	750.3	33.60	
	11:40	868.0	12.4	979.2	50.541	817.5	28.56	
2	11:45	913.7	15.8	979.2	50.541	863.2	28.56	
	11:50	926.4	19.2	979.2	50.541	875.9	28.56	
	11:55	926.4	22.6	979.2	50.541	875.9	28.56	
	12:00	936.5	26.0	979.2	50.541	886.0	28.56	
				1008.0				
	12:05	1074.7	30.3	1238.4	78.042	996.7	36.12	
	12:10	1092.3	34.4	1180.8	71.459	1020.8	34.44	
	12:15	1116.3	38.5	1180.8	71.459	1044.8	34.44	
	12:20	1136.6	42.7	1209.6	74.717	1061.9	35.28	
	12:25	1160.6	46.9	1209.6	74.717	1085.9	35.28	
3	12:30	1137.7	51.1	1209.6	74.717	1063.0	35.28	
				1204.8				
	12:35	1562.3	57.3	1785.6	153.580	1408.7	52.08	
	12:40	1553.3	62.9	1612.8	127.221	1426.1	47.04	
	12:45	1558.3	68.6	1641.6	131.455	1426.8	47.88	
	12:50	1568.4	74.2	1612.8	127.221	1441.2	47.04	
	12:55	1568.4	79.8	1612.8	127.221	1441.2	47.04	
	1:00	1569.7	85.4	1612.8	127.221	1442.5	47.04	
				1646.4				

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	1:05	2012.2	92.3	1987.2	187.189	1825.0	57.96	
	1:10	2014.7	99.6	2102.4	207.758	1806.9	61.32	
	1:15	2008.2	106.8	2073.6	202.523	1805.7	60.48	
	1:20	2047.6	114.0	2073.6	202.523	1845.1	60.48	
	1:25	2047.6	121.1	2044.8	197.350	1850.2	59.64	
	1:30	2061.6	128.3	2073.6	202.523	1859.1	60.48	
				2059.2				
	1:35	2247.3	136.0	2217.6	229.307	2018.0	64.68	
	1:40	2275.2	143.7	2217.6	229.307	2045.9	64.68	
	1:45	2285.4	151.4	2217.6	229.307	2056.1	64.68	
6	1:50	2299.4	159.1	2217.6	229.307	2070.1	64.68	
	1:55	2309.5	166.8	2217.6	229.307	2080.2	64.68	
	2:00	2300.6	174.5	2217.6	229.307	2071.3	64.68	
				2217.6				
FALLOFF	2:01	1183.4				1183.4		
	2:02	920.7				920.7		
	2:03	839.4				839.4		
	2:04	754.4				754.4		
	2:05	717.6				717.6		
	2:10	607.2				607.2		
	2:15	562.9				562.9		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #53
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 28, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #54
LEA COUNTY, NEW MEXICO

WO#: 99-14-0425

PERFS = 6030-6197

PACKER DEPTH = 5962

BHP GAUGE DEPTH = SURFACE ONLY

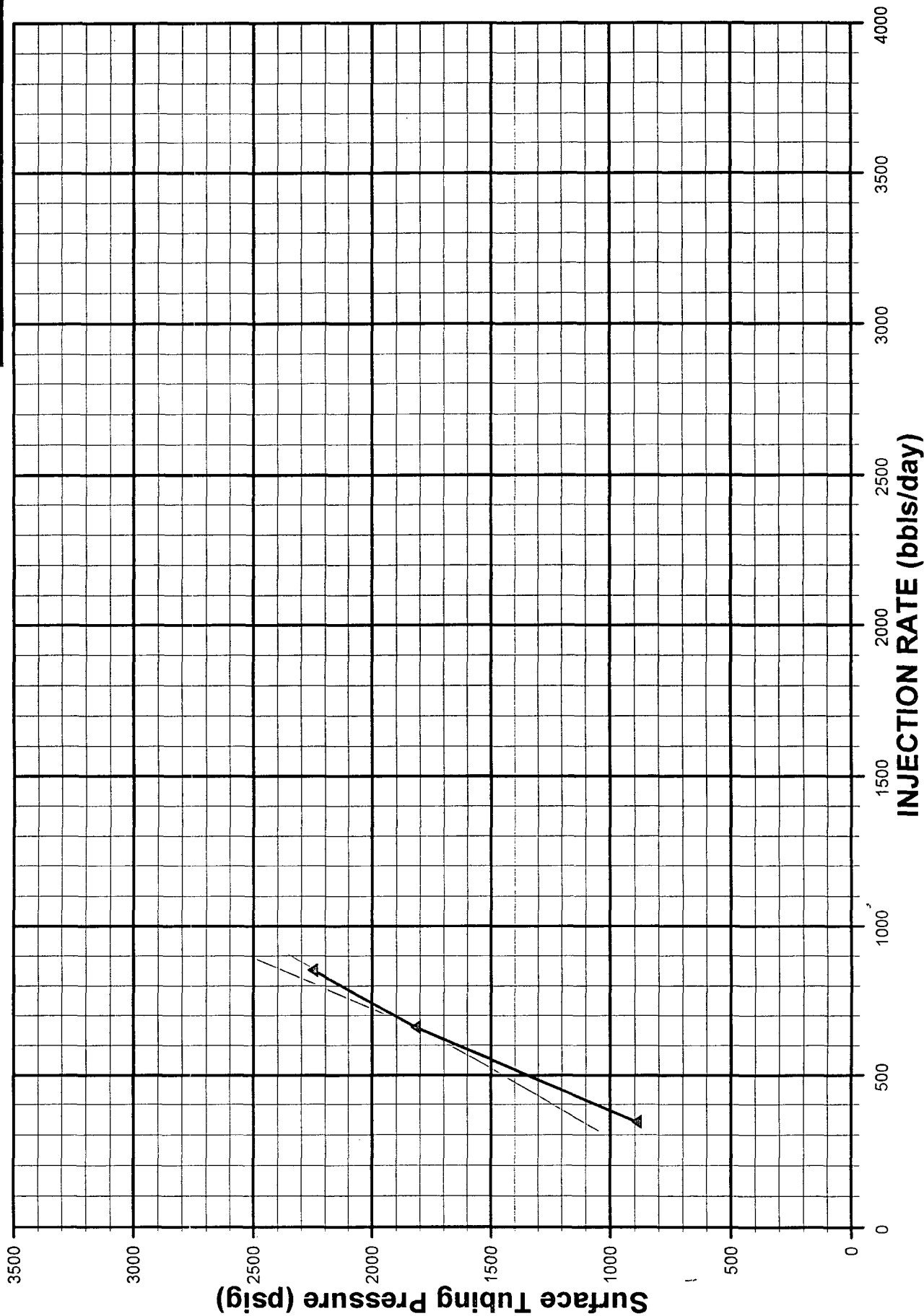
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:30	23.1				23.1		
	8:35	478.4	1.7	489.6	14.073	464.3	14.28	
	8:40	595.2	2.8	316.8	6.290	588.9	9.24	
	8:45	681.5	3.9	316.8	6.290	675.2	9.24	
	8:50	775.4	5.0	316.8	6.290	769.1	9.24	
	8:55	842.6	6.1	316.8	6.290	836.3	9.24	
	9:00	892.1	7.2	316.8	6.290	885.8	9.24	
				345.6				
	9:05	1320.8	9.5	662.4	24.617	1296.2	19.32	
	9:10	1508.6	11.8	662.4	24.617	1484.0	19.32	
2	9:15	1612.4	14.1	662.4	24.617	1587.8	19.32	
	9:20	1704.9	16.4	662.4	24.617	1680.3	19.32	
	9:25	1764.5	18.7	662.4	24.617	1739.9	19.32	
	9:30	1817.7	21.0	662.0	24.590	1793.1	19.31	
				662.4				
	9:35	2067.6	23.9	835.2	37.799	2029.8	24.36	
	9:40	2104.5	26.9	864.0	40.246	2064.3	25.20	
	9:45	2151.6	29.9	864.0	40.246	2111.4	25.20	
	9:50	2231.7	32.8	835.2	37.799	2193.9	24.36	
	9:55	2274.9	35.8	864.0	40.246	2234.7	25.20	
3	10:00	2251.9	38.8	864.0	40.246	2211.7	25.20	
				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)
FALLOFF	10:01	1920.2				1920.2		
	10:02	1784.6				1784.6		
	10:03	1684.4				1684.4		
	10:04	1603.2				1603.2		
	10:05	1532.2				1532.2		
	10:10	1268.5				1268.5		
	10:15	1089.7				1089.7		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #54
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 1, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #55
LEA COUNTY, NEW MEXICO

WO#: 99-14-0426

PERFS = 6002-6276

PACKER DEPTH = 5939

BHP GAUGE DEPTH = SURFACE ONLY

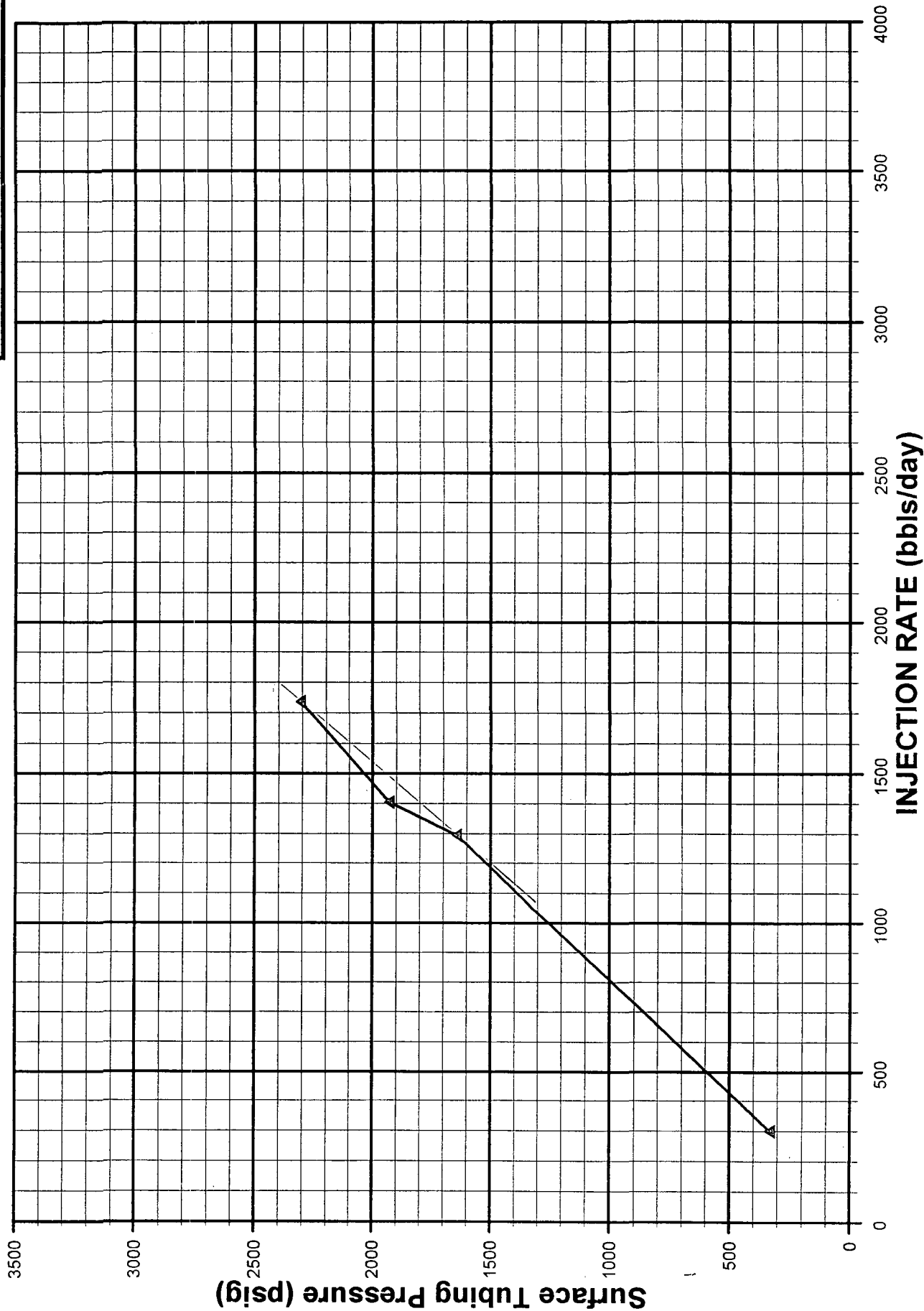
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	9:00							
	9:05	40.5	1.0	288.0	5.294	35.2	8.40	
	9:10	132.9	2.0	288.0	5.294	127.6	8.40	
	9:15	210.3	3.0	288.0	5.294	205.0	8.40	
	9:20	240.8	4.1	316.8	6.315	234.5	9.24	
	9:25	283.9	5.2	316.8	6.315	277.6	9.24	
	9:30	332.1	6.3	316.8	6.315	325.8	9.24	
				302.4				
	9:35	1096.1	10.5	1209.6	75.306	1020.8	35.28	
	9:40	1216.5	14.7	1209.6	75.306	1141.2	35.28	
2	9:45	1430.6	19.0	1238.4	78.657	1351.9	36.12	
	9:50	1529.4	23.4	1267.2	82.074	1447.3	36.96	
	9:55	1587.7	27.9	1296.0	85.558	1502.1	37.80	
	10:00	1642.1	32.5	1324.8	89.109	1553.0	38.64	
				1296.0				
	10:05	1781.5	37.2	1353.6	92.726	1688.8	39.48	
	10:10	1830.9	42.2	1440.0	103.971	1726.9	42.00	
	10:15	1860.0	47.1	1411.2	100.157	1759.8	41.16	
	10:20	1881.5	52.0	1411.2	100.157	1781.3	41.16	
	10:25	1920.8	56.9	1411.2	100.157	1820.6	41.16	
3	10:30	1929.6	61.8	1411.2	100.157	1829.4	41.16	
				1406.4				
	10:35	2204.1	67.9	1756.8	150.203	2053.9	51.24	
	10:40	2243.6	73.9	1728.0	145.679	2097.9	50.40	
	10:45	2258.8	79.9	1728.0	145.679	2113.1	50.40	
	10:50	2286.8	85.9	1728.0	145.679	2141.1	50.40	
	10:55	2307.1	92.0	1756.8	150.203	2156.9	51.24	
	11:00	2305.8	98.0	1728.0	145.679	2160.1	50.40	
				1737.6				

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)
FALLOFF	11:01	1633.9				1633.9		
	11:02	1485.2				1485.2		
	11:03	1376.4				1376.4		
	11:04	1290.1				1290.1		
	11:05	1217.8				1217.8		
	11:10	974.1				974.1		
	11:15	824.3				824.3		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #55
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 1, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #63
LEA COUNTY, NEW MEXICO

WO#: 99-14-0427

PERFS = 5901-6004

PACKER DEPTH = 5843

BHP GAUGE DEPTH = SURFACE ONLY

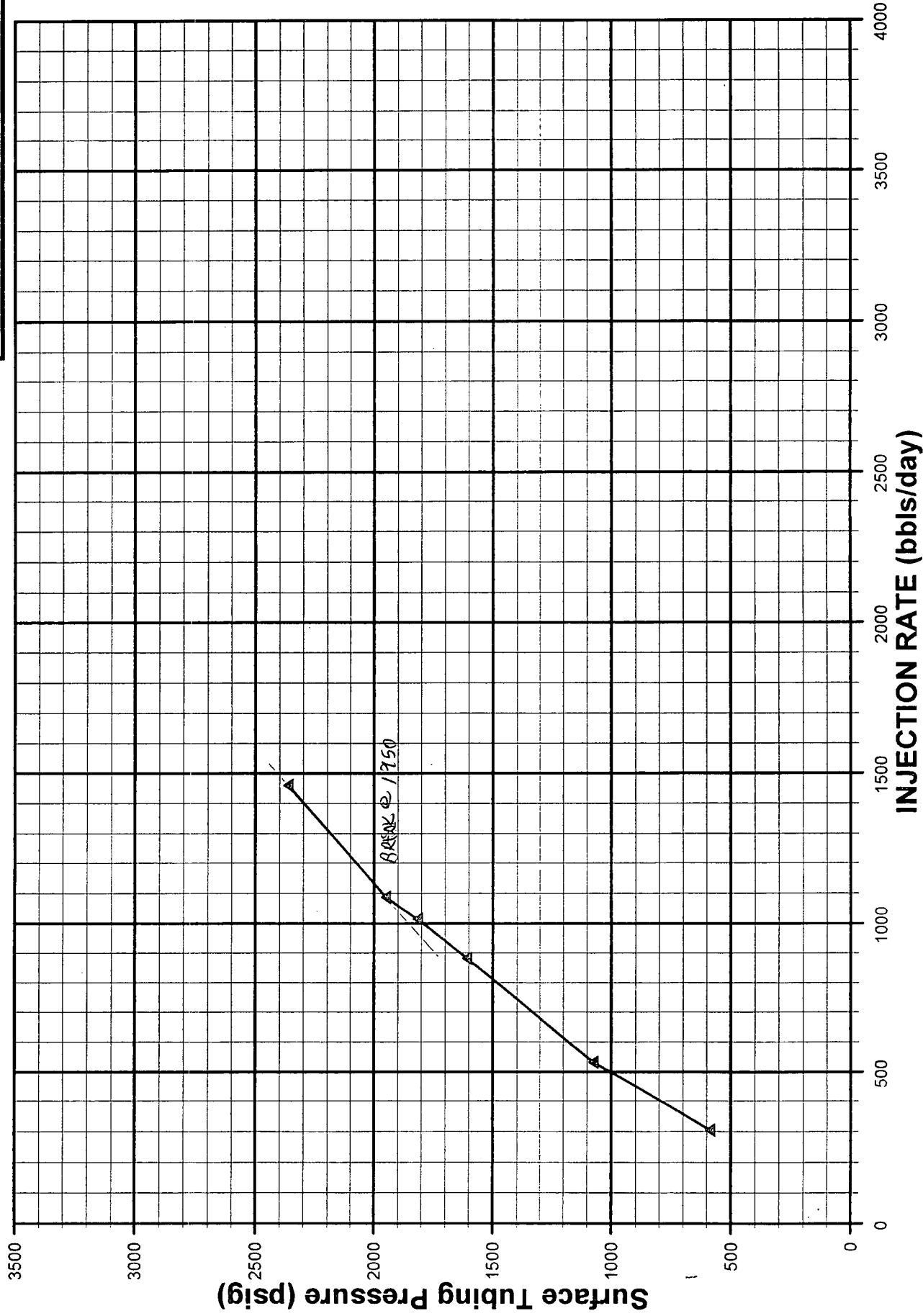
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	12:30	94.3				94.3		
	12:35	354.1	1.0	288.0	5.134	349.0	8.40	
	12:40	428.9	2.1	316.8	6.124	422.8	9.24	
	12:45	480.8	3.2	316.8	6.124	474.7	9.24	
	12:50	516.3	4.3	316.8	6.124	510.2	9.24	
	12:55	550.6	5.3	288.0	5.134	545.5	8.40	
	1:00	586.1	6.4	316.8	6.124	580.0	9.24	
				307.2				
	1:05	851.3	8.2	518.4	15.230	836.1	15.12	
	1:10	903.2	10.1	547.2	16.833	886.4	15.96	
2	1:15	941.2	12.0	547.2	16.833	924.4	15.96	
	1:20	1014.8	13.8	518.4	15.230	999.6	15.12	
	1:25	1007.2	15.7	547.2	16.833	990.4	15.96	
	1:30	1075.7	17.5	518.4	15.230	1060.5	15.12	
				532.8				
	1:35	1414.3	20.6	892.8	41.637	1372.7	26.04	
	1:40	1462.5	23.6	864.0	39.186	1423.3	25.20	
	1:45	1486.6	26.7	892.8	41.637	1445.0	26.04	
	1:50	1534.7	29.8	892.8	41.637	1493.1	26.04	
	1:55	1556.2	32.9	892.8	41.637	1514.6	26.04	
3	2:00	1606.9	35.9	864.0	39.186	1567.7	25.20	
				883.2				
	2:05	1737.4	39.5	1036.8	54.906	1682.5	30.24	
	2:10	1750.6	43.0	1008.0	52.117	1698.5	29.40	
	2:15	1767.3	46.5	1008.0	52.117	1715.2	29.40	
	2:20	1785.7	50.1	1036.8	54.906	1730.8	30.24	
	2:25	1803.5	53.6	1008.0	52.117	1751.4	29.40	
	2:30	1816.2	57.1	1008.0	52.117	1764.1	29.40	
				1017.6				

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	2:35	1906.1	60.9	1094.4	60.682	1845.4	31.92	
	2:40	1918.7	64.7	1094.4	60.682	1858.0	31.92	
	2:45	1930.0	68.5	1094.4	60.682	1869.3	31.92	
	2:50	1938.8	72.2	1065.6	57.760	1881.0	31.08	
	2:55	1951.3	76.0	1094.4	60.682	1890.6	31.92	
	3:00	1952.3	79.8	1094.4	60.682	1891.6	31.92	
				1089.6				
	3:05	2282.4	84.7	1411.2	97.122	2185.3	41.16	
	3:10	2312.4	89.9	1497.6	108.408	2204.0	43.68	
	3:15	2330.2	95.0	1468.8	104.583	2225.6	42.84	
6	3:20	2346.7	100.0	1440.0	100.821	2245.9	42.00	
	3:25	2342.9	105.1	1468.8	104.583	2238.3	42.84	
	3:30	2363.2	110.1	1468.8	104.583	2258.6	42.84	
				1459.2				
FALLOFF	3:31	1501.1				1501.1		
	3:32	1362.9				1362.9		
	3:33	1283.0				1283.0		
	3:34	1223.4				1223.4		
	3:35	1175.2				1175.2		
	3:40	1028.1				1028.1		
	3:45	943.1				943.1		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #63
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 2, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #64
LEA COUNTY, NEW MEXICO

WO#: 99-14-0428

PERFS = 5951-6109

PACKER DEPTH = 5858

BHP GAUGE DEPTH = SURFACE ONLY

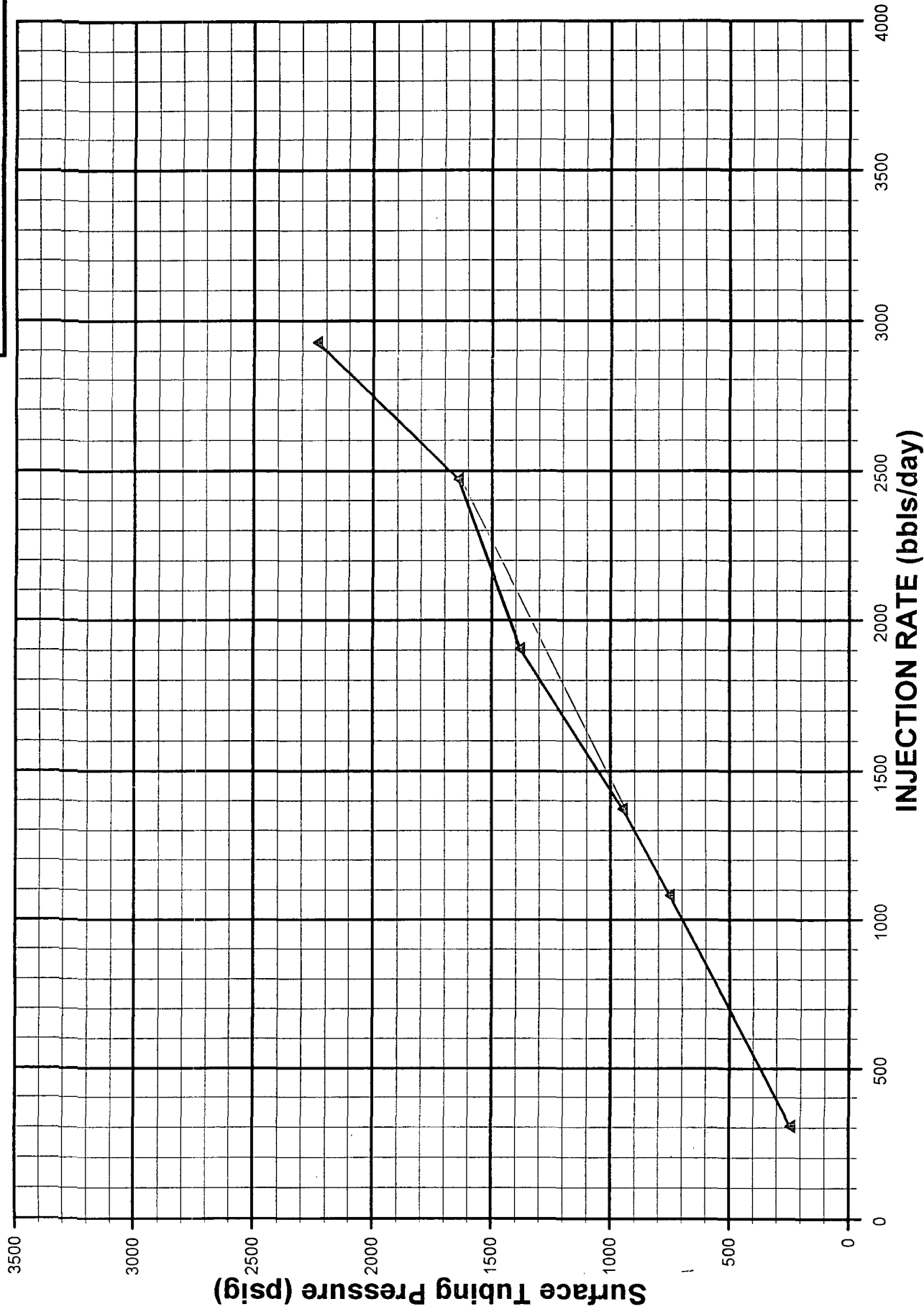
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:00	86.3				86.3		
	8:05	175.0	1.0	288.0	5.200	169.8	8.40	
	8:10	196.4	2.0	288.0	5.200	191.2	8.40	
	8:15	225.4	3.1	316.8	6.203	219.2	9.24	
	8:20	230.4	4.2	316.8	6.203	224.2	9.24	
	8:25	236.7	5.3	316.8	6.203	230.5	9.24	
	8:30	242.9	6.4	316.8	6.203	236.7	9.24	
				307.2				
	8:35	628.7	9.9	1008.0	52.792	575.9	29.40	
	8:40	689.5	13.8	1123.2	64.492	625.0	32.76	
2	8:45	717.3	17.6	1094.4	61.466	655.8	31.92	
	8:50	727.4	21.4	1094.4	61.466	665.9	31.92	
	8:55	740.1	25.2	1094.4	61.466	678.6	31.92	
	9:00	752.7	29.0	1094.4	61.466	691.2	31.92	
				1084.8				
	9:05	911.3	33.8	1382.4	94.697	816.6	40.32	
	9:10	939.1	38.5	1353.6	91.079	848.0	39.48	
	9:15	942.9	43.3	1382.4	94.697	848.2	40.32	
	9:20	961.8	48.1	1382.4	94.697	867.1	40.32	
	9:25	954.1	52.8	1353.6	91.079	863.0	39.48	
3	9:30	951.5	57.6	1382.4	94.697	856.8	40.32	
				1372.8				
	9:35	1316.7	64.1	1872.0	165.931	1150.8	54.60	
	9:40	1330.6	70.7	1900.8	170.685	1159.9	55.44	
	9:45	1349.6	77.3	1900.8	170.685	1178.9	55.44	
	9:50	1367.2	84.0	1929.6	175.500	1191.7	56.28	
	9:55	1374.7	90.6	1900.8	170.685	1204.0	55.44	
	10:00	1381.0	97.3	1929.6	175.500	1205.5	56.28	
				1905.6				

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	10:05	1816.2	105.6	2390.4	260.815	1555.4	69.72	
	10:10	1818.8	114.3	2505.6	284.544	1534.3	73.08	
	10:15	1835.3	122.9	2476.8	278.523	1556.8	72.24	
	10:20	1832.7	131.5	2476.8	278.523	1554.2	72.24	
	10:25	1827.7	140.1	2476.8	278.523	1549.2	72.24	
	10:30	1841.6	148.8	2505.6	284.544	1557.1	73.08	
				2472.0				
	10:35	2213.8	158.8	2880.0	368.161	1845.6	84.00	
	10:40	2240.4	169.0	2937.6	381.899	1858.5	85.68	
	10:45	2236.5	179.2	2937.6	381.899	1854.6	85.68	
6	10:50	2238.9	189.5	2966.4	388.855	1850.0	86.52	
	10:55	2260.5	199.6	2908.8	375.001	1885.5	84.84	
	11:00	2236.3	209.8	2937.6	381.899	1854.4	85.68	
				2928.0				
FALLOFF	11:01	806.9				806.9		
	11:02	674.9				674.9		
	11:03	601.2				601.2		
	11:04	553.0				553.0		
	11:05	521.3				521.3		
	11:10	440.0				440.0		
	11:15	405.7				405.7		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #64
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 2, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #65
LEA COUNTY, NEW MEXICO

WO#: 99-14-0429

PERFS = 5960-6138

PACKER DEPTH = 5892

BHP GAUGE DEPTH = SURFACE ONLY

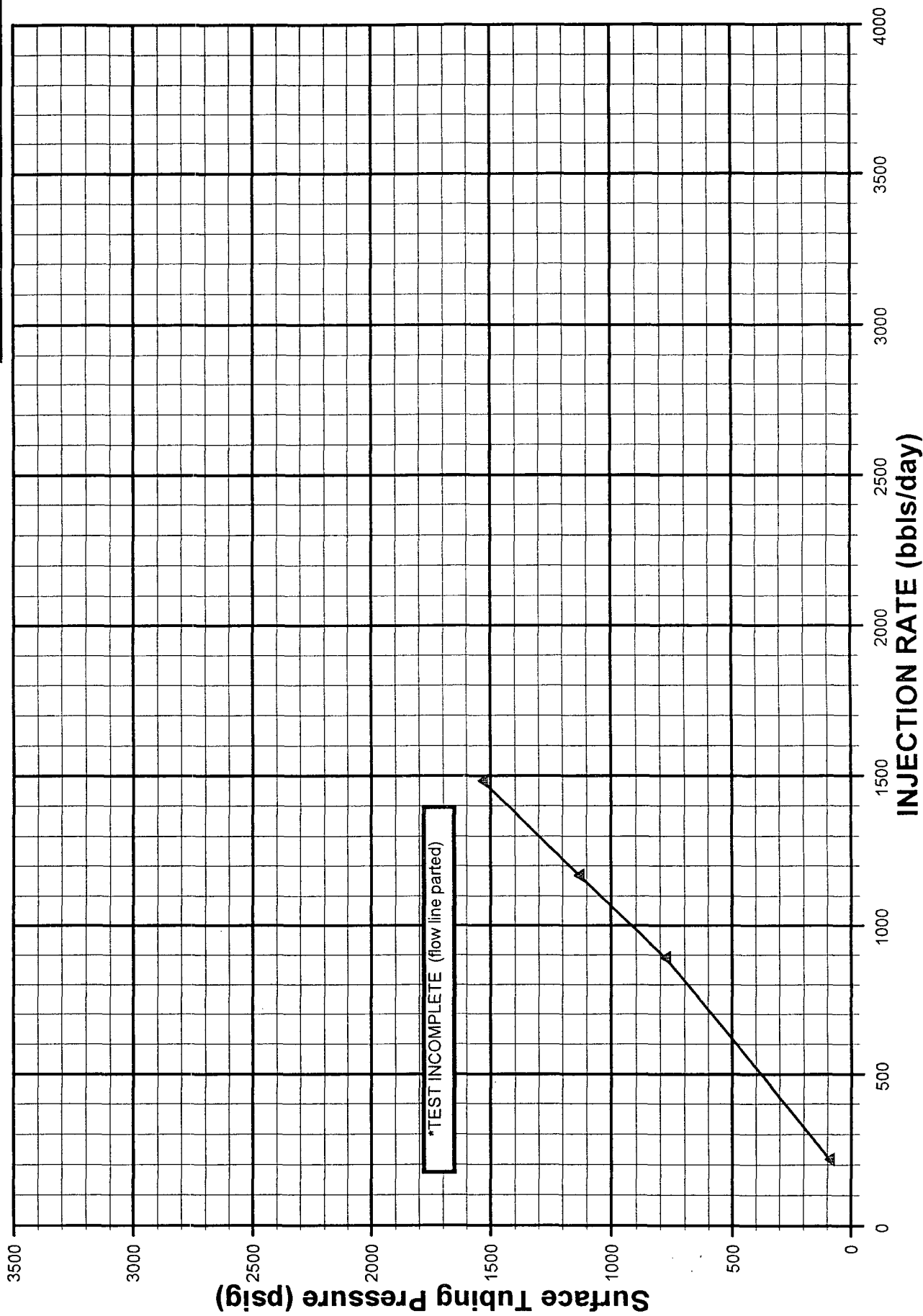
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	12:30	15.4				15.4		
	12:35	16.5	0.4	115.2	0.958	15.5	3.36	
	12:40	21.4	1.0	172.8	2.028	19.4	5.04	
	12:45	31.3	1.7	201.6	2.697	28.6	5.88	
	12:50	50.0	2.7	288.0	5.217	44.8	8.40	
	12:55	70.0	3.6	259.2	4.293	65.7	7.56	
	1:00	92.5	4.6	288.0	5.217	87.3	8.40	
				220.8				
	1:05	513.6	7.7	892.8	42.308	471.3	26.04	
	1:10	620.2	10.8	892.8	42.308	577.9	26.04	
2	1:15	682.3	13.9	892.8	42.308	640.0	26.04	
	1:20	748.3	17.1	921.6	44.868	703.4	26.88	
	1:25	739.4	20.1	864.0	39.818	699.6	25.20	
	1:30	778.7	23.2	892.8	42.308	736.4	26.04	
				892.8				
	1:35	990.7	27.3	1180.8	70.967	919.7	34.44	
	1:40	1045.2	31.4	1180.8	70.967	974.2	34.44	
	1:45	1074.4	35.4	1152.0	67.798	1006.6	33.60	
	1:50	1084.6	39.5	1180.8	70.967	1013.6	34.44	
	1:55	1110.0	43.6	1180.8	70.967	1039.0	34.44	
3	2:00	1131.6	47.6	1152.0	67.798	1063.8	33.60	
				1171.2				
	2:05	1392.9	52.8	1497.6	110.157	1282.7	43.68	
	2:10	1446.2	57.9	1468.8	106.270	1339.9	42.84	
	2:15	1474.1	63.1	1497.6	110.157	1363.9	43.68	
	2:20	1489.3	68.2	1468.8	106.270	1383.0	42.84	
	2:25	1496.9	73.3	1468.8	106.270	1390.6	42.84	
	2:30	1532.4	78.5	1497.6	110.157	1422.2	43.68	
				1483.2				

STEP NO. & REMARKS		(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)
	2:35	1958.7	85.1	1900.8	171.222	1787.5	55.44	
	TEST INCOMPLETE - FLOW LINE PARTED							

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #65
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: MAY 20, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #66
LEA COUNTY, NEW MEXICO

WO#: 99-14-0430

PERFS = 6008-6184

PACKER DEPTH = 5952

BHP GAUGE DEPTH = SURFACE ONLY

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	10:00	439.1				439.1		
	10:05	485.8	9.9	921.6	45.216	440.6	26.88	
	10:10	535.1	13.2	950.4	47.865	487.2	27.72	
	10:15	553.9	16.5	950.4	47.865	506.0	27.72	
	10:20	557.6	19.8	950.4	47.865	509.7	27.72	
	10:25	558.1	23.0	921.6	45.216	512.9	26.88	
	10:30	559.8	26.3	950.4	47.865	511.9	27.72	
				940.8				
	10:35	660.0	30.6	1238.4	78.106	581.9	36.12	
	10:40	686.5	35.0	1267.2	81.499	605.0	36.96	
2	10:45	677.5	39.4	1267.2	81.499	596.0	36.96	
	10:50	662.2	43.7	1238.4	78.106	584.1	36.12	
	10:55	676.1	48.1	1267.2	81.499	594.6	36.96	
	11:00	704.0	52.5	1267.2	81.499	622.5	36.96	
				1257.6				
	11:05	795.3	57.7	1497.6	111.013	684.3	43.68	
	11:10	776.2	63.0	1526.4	114.994	661.2	44.52	
	11:15	818.0	68.4	1555.2	119.040	699.0	45.36	
	11:20	799.0	73.7	1526.4	114.994	684.0	44.52	
	11:25	785.0	79.0	1526.4	114.994	670.0	44.52	
3	11:30	806.5	84.4	1555.2	119.040	687.5	45.36	
				1531.2				
	11:35	995.6	91.1	1929.6	177.421	818.2	56.28	
	11:40	1005.7	98.0	1987.2	187.343	818.4	57.96	
	11:45	1005.6	104.8	1958.4	182.351	823.2	57.12	
	11:50	1006.5	111.6	1958.4	182.351	824.1	57.12	
	11:55	1008.0	118.5	1987.2	187.343	820.7	57.96	
	12:00	1008.0	125.3	1958.4	182.351	825.6	57.12	
				1963.2				

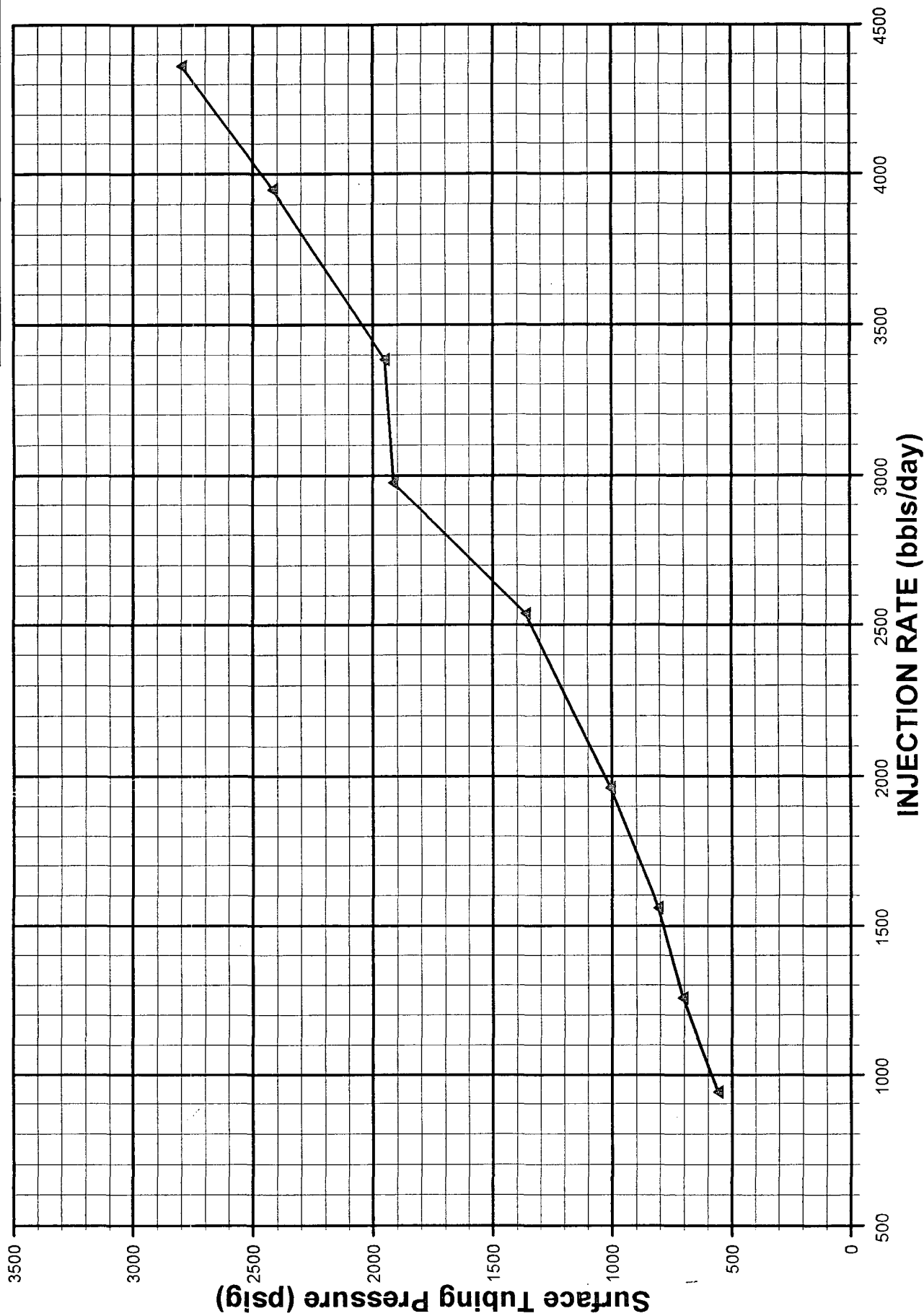
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
5	12:05	1327.5	134.1	2534.4	293.805	1033.7	73.92	
	12:10	1326.2	142.9	2534.4	293.805	1032.4	73.92	
	12:15	1331.3	151.7	2534.4	293.805	1037.5	73.92	
	12:20	1345.2	160.5	2534.4	293.805	1051.4	73.92	
	12:25	1326.1	169.3	2534.4	293.805	1032.3	73.92	
	12:30	1364.1	178.2	2563.2	300.011	1064.1	74.76	
				2539.2	294.835	-294.8	74.06	
	12:35	1596.1	188.4	2937.6	386.079	1210.0	85.68	
	12:40	1603.6	198.7	2966.4	393.111	1210.5	86.52	
	12:45	1630.2	209.0	2966.4	393.111	1237.1	86.52	
	12:50	1642.9	219.4	2995.2	400.200	1242.7	87.36	
	12:55	1642.9	229.7	2966.4	393.111	1249.8	86.52	
6	1:00	1916.7	240.2	3024.0	407.349	1509.4	88.20	
				2976.0				
	1:05	1926.8	251.9	3369.6	497.634	1429.2	98.28	
	1:10	1911.5	263.7	3398.4	505.531	1406.0	99.12	
	1:15	1938.1	275.4	3369.6	497.634	1440.5	98.28	
	1:20	1934.2	287.2	3398.4	505.531	1428.7	99.12	
	1:25	1955.7	299.0	3398.4	505.531	1450.2	99.12	
	1:30	1950.7	310.7	3369.6	497.634	1453.1	98.28	
				3384.0				
	1:35	2377.9	324.4	3945.6	666.345	1711.6	115.08	
	1:40	2386.8	338.1	3945.6	666.345	1720.5	115.08	
	1:45	2407.1	351.8	3945.6	666.345	1740.8	115.08	
7	1:50	2414.8	365.5	3945.6	666.345	1748.5	115.08	
	1:55	2423.8	379.3	3974.4	675.371	1748.4	115.92	
	2:00	2417.5	393.0	3945.6	666.345	1751.2	115.08	
				3950.4				
	2:05	2775.1	408.2	4406.4	817.420	1957.7	128.52	
	2:10	2770.1	423.4	4377.6	807.563	1962.5	127.68	
	2:15		438.6	4377.6	807.563	-807.6	127.68	
	2:20	2781.4	453.7	4348.8	797.762	1983.6	126.84	
	2:25		468.9	4377.6	807.563	-807.6	127.68	
	2:30	2799.1	484.2	4406.4	817.420	1981.7	128.52	
				4382.4				
8								
9								

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
STEP NO. & REMARKS	TIME	SURFACE TUBING PRESS. (psig)	CUMMULATIVE VOL. INJECTED (bbls)	INJECTION RATE (bbls/day)	FRICTION HEAD LOSS (psi)	CORRECTED TUBING PRESS. (psi) (1) - (4)	INJECTION RATE (gpm) (3)/34.2857	MEASURED BHP (psi)
FALLOFF	2:31	899.2				899.2		
	2:32	756.3				756.3		
	2:33	711.9				711.9		
	2:34	686.5				686.5		
	2:35	668.7				668.7		
	2:40	619.2				619.2		
	2:45	592.6				592.6		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #66
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 3, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #67
LEA COUNTY, NEW MEXICO

WO#: 99-14-0431

PERFS = 6011-6190

PACKER DEPTH = 5960

BHP GAUGE DEPTH = SURFACE ONLY

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	8:15	12.3				12.3		
	8:20	87.8	0.6	172.8	2.045	85.8	5.04	
	8:25	270.5	1.6	288.0	5.262	265.2	8.40	
	8:30	356.7	2.6	288.0	5.262	351.4	8.40	
	8:35	404.8	3.6	288.0	5.262	399.5	8.40	
	8:40	428.9	4.6	288.0	5.262	423.6	8.40	
	8:45	444.1	5.7	316.8	6.276	437.8	9.24	
				273.6				
	8:50	920.0	8.0	662.4	24.565	895.4	19.32	
	8:55	1046.7	10.3	662.4	24.565	1022.1	19.32	
2	9:00	1116.3	12.7	691.2	26.577	1089.7	20.16	
	9:05	1174.5	15.1	691.2	26.577	1147.9	20.16	
	9:10	1193.4	17.5	691.2	26.577	1166.8	20.16	
	9:15	1219.9	19.9	691.2	26.577	1193.3	20.16	
				681.6				
	9:20	1404.9	22.9	864.0	40.160	1364.7	25.20	
	9:25	1389.6	25.8	835.2	37.719	1351.9	24.36	
	9:30	1459.2	28.7	835.2	37.719	1421.5	24.36	
	9:35	1463.0	31.6	835.2	37.719	1425.3	24.36	
	9:40	1440.1	34.5	835.2	37.719	1402.4	24.36	
3	9:45	1464.1	37.4	835.2	37.719	1426.4	24.36	
				840.0				
	9:50	1765.8	41.1	1065.6	59.196	1706.6	31.08	
	9:55	1814.0	44.8	1065.6	59.196	1754.8	31.08	
	10:00	1825.3	48.5	1065.6	59.196	1766.1	31.08	
	10:05	1834.1	52.2	1065.6	59.196	1774.9	31.08	
	10:10	1831.5	55.9	1065.6	59.196	1772.3	31.08	
	10:15	1834.0	59.6	1065.6	59.196	1774.8	31.08	
				1065.6				

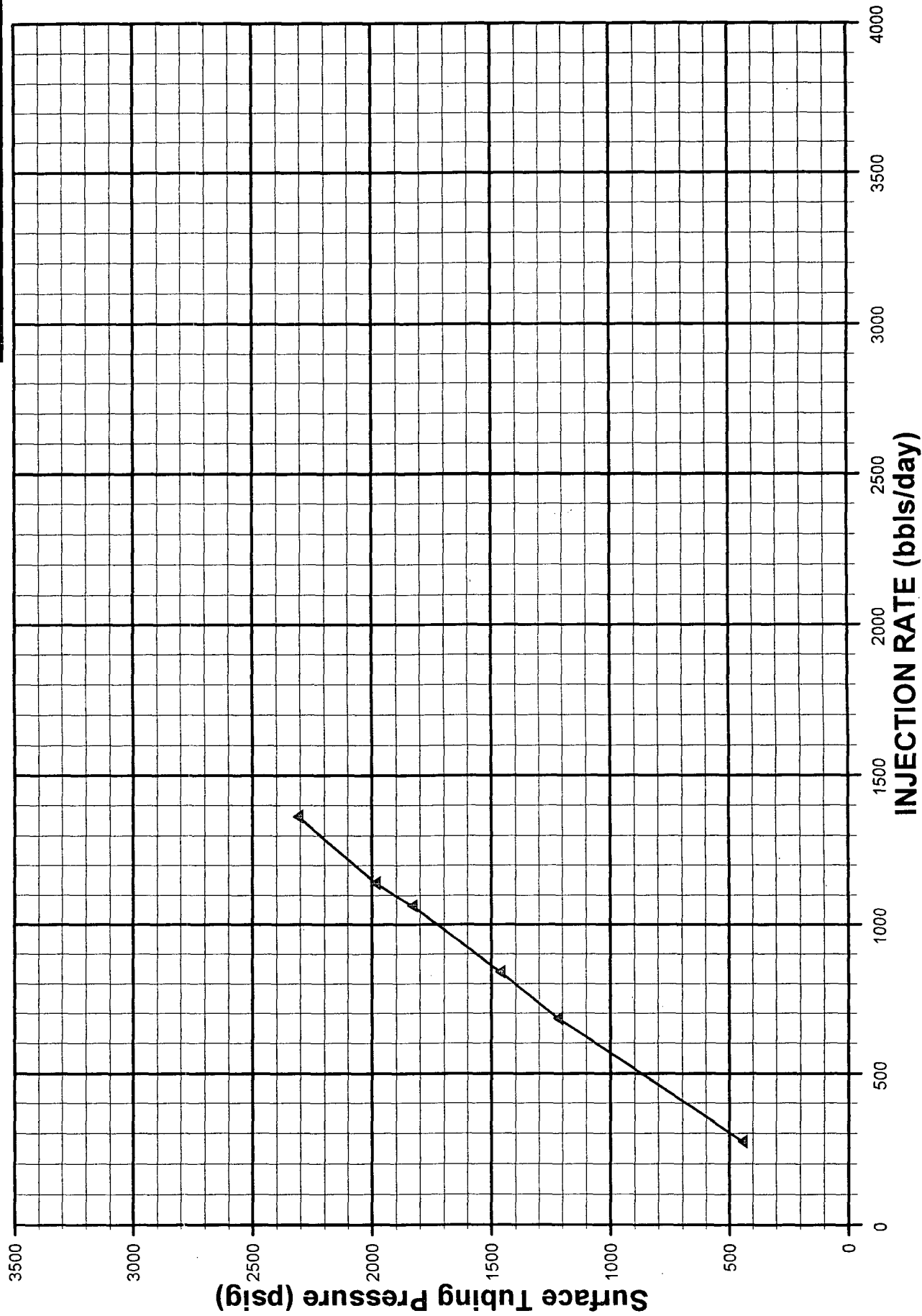
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
5	10:20	1949.4	63.6	1152.0	68.381	1881.0	33.60	
	10:25	1979.8	67.6	1152.0	68.381	1911.4	33.60	
	10:30	2003.0	71.5	1123.2	65.252	1937.7	32.76	
	10:35	1996.2	75.5	1152.0	68.381	1927.8	33.60	
	10:40	1995.0	79.4	1123.2	65.252	1929.7	32.76	
	10:45	1986.1	83.4	1152.0	68.381	1917.7	33.60	
				1142.4				
	10:50	2283.6	88.1	1353.6	92.152	2191.4	39.48	
	10:55	2310.3	92.9	1382.4	95.812	2214.5	40.32	
	11:00	2307.7	97.6	1353.6	92.152	2215.5	39.48	
6	11:05	2311.4	102.4	1382.4	95.812	2215.6	40.32	
	11:10	2299.9	107.1	1353.6	92.152	2207.7	39.48	
	11:15	2308.8	111.8	1353.6	92.152	2216.6	39.48	
				1363.2				
FALLOFF	11:16	1407.1				1407.1		
	11:17	1140.7				1140.7		
	11:18	971.9				971.9		
	11:19	851.3				851.3		
	11:20	761.2				761.2		
	11:25	516.2				516.2		
	11:30	409.5				409.5		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:

V.G.W.U. Injection Satellite #1, Well #67
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 3, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #68
LEA COUNTY, NEW MEXICO

WO#: 99-14-0432

PERFS = 6038-6102

PACKER DEPTH = 5950

BHP GAUGE DEPTH = SURFACE ONLY

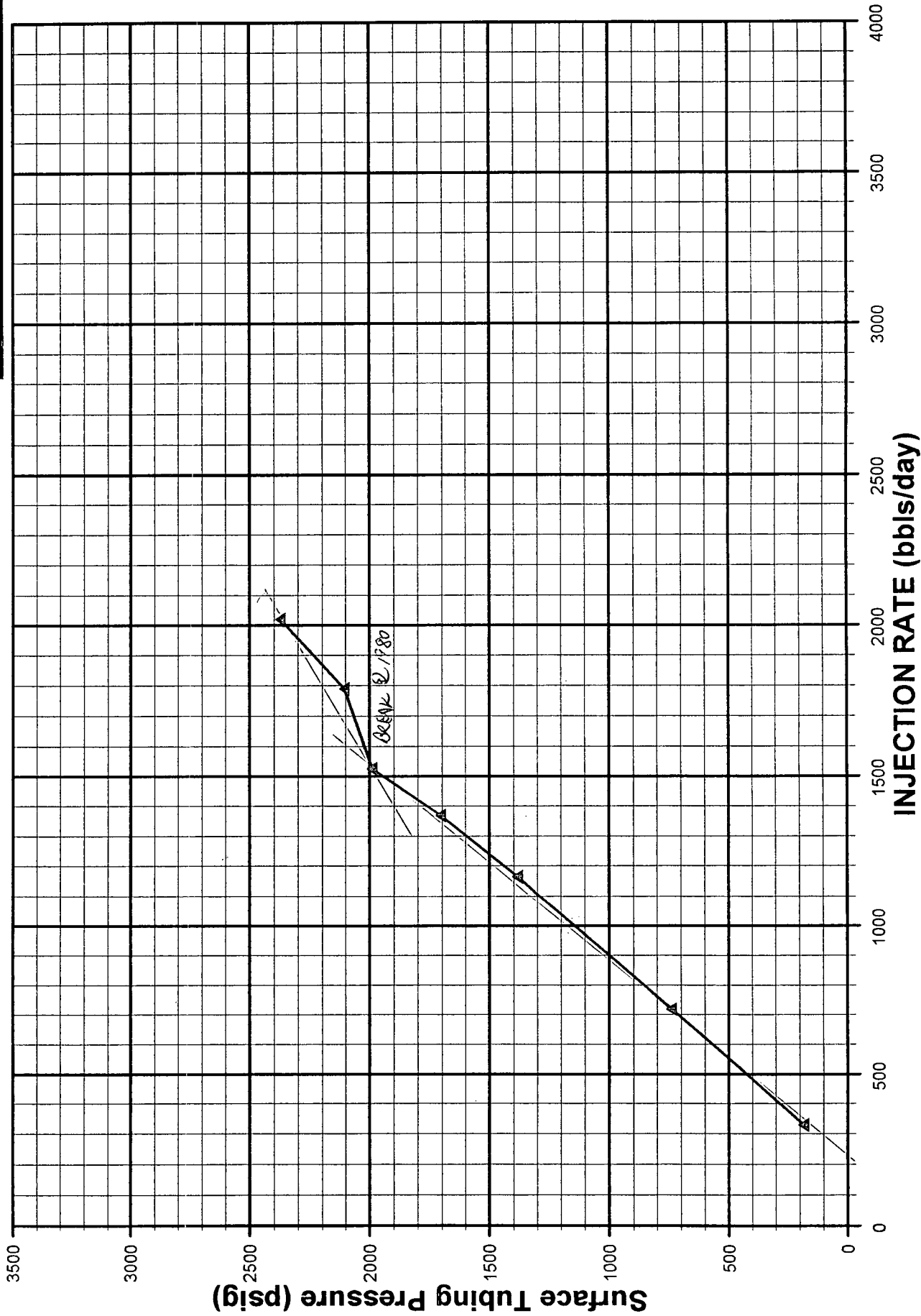
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbbls)	(3) INJECTION RATE (bbbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	12:30	13.9				13.9		
	12:35	16.3	0.7	201.6	2.706	13.6	5.88	
	12:40	105.0	1.8	316.8	6.244	98.8	9.24	
	12:45	151.8	3.0	345.6	7.335	144.5	10.08	
	12:50	162.0	4.3	374.4	8.506	153.5	10.92	
	12:55	187.3	5.6	374.4	8.506	178.8	10.92	
	1:00	183.5	6.9	374.4	8.506	175.0	10.92	
				331.2				
	1:05	569.3	8.7	518.4	15.530	553.8	15.12	
	1:10	689.9	11.4	777.6	32.880	657.0	22.68	
2	1:15	708.9	14.0	748.8	30.663	678.2	21.84	
	1:20	726.7	16.6	748.8	30.663	696.0	21.84	
	1:25	735.6	19.3	777.6	32.880	702.7	22.68	
	1:30	739.4	21.9	748.8	30.663	708.7	21.84	
				720.0				
	1:35	1233.0	25.8	1123.2	64.920	1168.1	32.76	
	1:40	1305.3	29.9	1180.8	71.213	1234.1	34.44	
	1:45	1321.8	34.0	1180.8	71.213	1250.6	34.44	
	1:50	1351.0	38.0	1152.0	68.033	1283.0	33.60	
	1:55	1356.1	42.1	1180.8	71.213	1284.9	34.44	
3	2:00	1382.7	46.2	1180.8	71.213	1311.5	34.44	
				1166.4				
	2:05	1633.9	51.0	1382.4	95.325	1538.6	40.32	
	2:10	1661.8	55.7	1353.6	91.683	1570.1	39.48	
	2:15	1683.4	60.5	1382.4	95.325	1588.1	40.32	
	2:20	1698.6	65.2	1353.6	91.683	1606.9	39.48	
	2:25	1688.5	69.9	1353.6	91.683	1596.8	39.48	
	2:30	1706.2	74.7	1382.4	95.325	1610.9	40.32	
				1368.0				

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	2:35	1932.1	80.0	1526.4	114.504	1817.6	44.52	
	2:40	1935.9	85.3	1526.4	114.504	1821.4	44.52	
	2:45	1962.4	90.6	1526.4	114.504	1847.9	44.52	
	2:50	1951.0	95.9	1526.4	114.504	1836.5	44.52	
	2:55	1992.8	101.2	1526.4	114.504	1878.3	44.52	
	3:00	1990.2	106.5	1526.4	114.504	1875.7	44.52	
				1526.4				
	3:05	2121.2	112.7	1785.6	153.050	1968.1	52.08	
	3:10	2090.6	119.0	1814.4	157.648	1933.0	52.92	
	3:15	2067.7	125.2	1785.6	153.050	1914.6	52.08	
6	3:20	2099.6	131.4	1785.6	153.050	1946.5	52.08	
	3:25	2097.1	137.6	1785.6	153.050	1944.0	52.08	
	3:30	2106.0	143.8	1785.6	153.050	1952.9	52.08	
				1790.4				
	3:35	2312.1	150.7	1987.2	186.544	2125.6	57.96	
	3:40	2324.9	157.8	2044.8	196.670	2128.2	59.64	
	3:45	2338.8	164.8	2016.0	191.576	2147.2	58.80	
	3:50	2363.0	171.8	2016.0	191.576	2171.4	58.80	
	3:55	2369.3	178.9	2044.8	196.670	2172.6	59.64	
	4:00	2373.1	185.9	2016.0	191.576	2181.5	58.80	
FALLOFF				2020.8				
	4:01	1560.2				1560.2		
	4:02	1197.4				1197.4		
	4:03	840.9				840.9		
	4:04	599.7				599.7		
	4:05	441.0				441.0		
	4:10	168.1				168.1		
	4:15	98.5				98.5		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #68
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 4, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #77
LEA COUNTY, NEW MEXICO

WO#: 99-14-0433

PERFS = 5911-6020

PACKER DEPTH = 5848

BHP GAUGE DEPTH = SURFACE ONLY

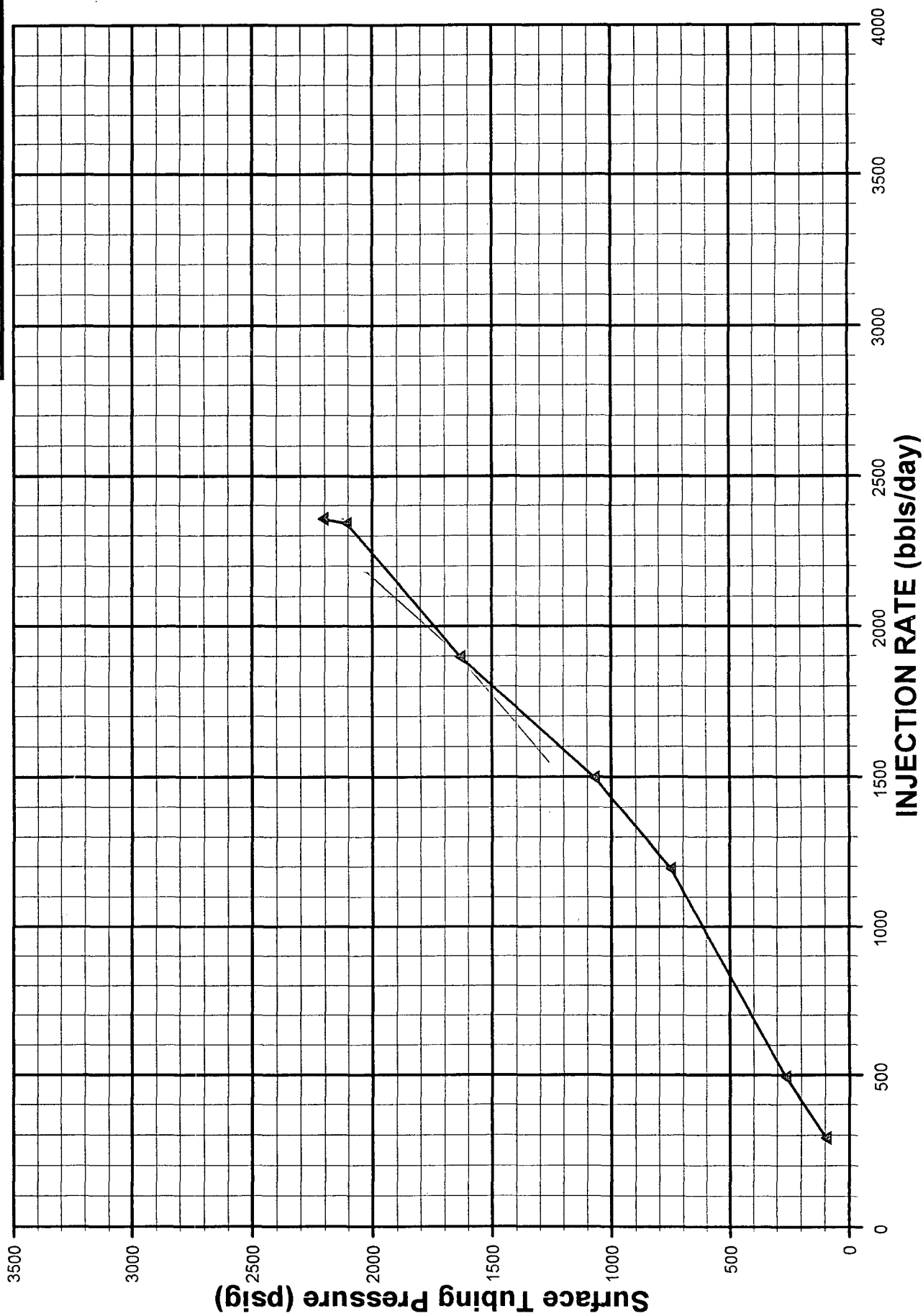
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	9:00	13.4				13.4		
	9:05	23.4	0.7	201.6	2.660	20.7	5.88	
	9:10	51.0	1.7	288.0	5.145	45.9	8.40	
	9:15	67.3	2.8	316.8	6.137	61.2	9.24	
	9:20	83.5	3.9	316.8	6.137	77.4	9.24	
	9:25	89.8	5.0	316.8	6.137	83.7	9.24	
	9:30	97.2	6.1	316.8	6.137	91.1	9.24	
				292.8				
	9:35	159.2	7.9	518.4	15.264	143.9	15.12	
	9:40	199.8	9.6	489.6	13.732	186.1	14.28	
2	9:45	195.9	11.3	489.6	13.732	182.2	14.28	
	9:50	203.9	13.1	518.4	15.264	188.6	15.12	
	9:55	230.0	14.8	489.6	13.732	216.3	14.28	
	10:00	265.5	16.4	460.8	12.275	253.2	13.44	
				494.4				
	10:05	624.8	20.5	1180.8	69.993	554.8	34.44	
	10:10	634.7	24.9	1267.2	79.761	554.9	36.96	
	10:15	670.2	28.9	1152.0	66.868	603.3	33.60	
	10:20	680.3	33.1	1209.6	73.184	607.1	35.28	
	10:25	712.4	37.2	1180.8	69.993	642.4	34.44	
3	10:30	750.0	41.3	1180.8	69.993	680.0	34.44	
				1195.2				
	10:35	979.7	46.5	1497.6	108.645	871.1	43.68	
	10:40	1016.5	51.7	1497.6	108.645	907.9	43.68	
	10:45	1050.7	56.9	1497.6	108.645	942.1	43.68	
	10:50	1069.7	62.1	1497.6	108.645	961.1	43.68	
	10:55	1074.7	67.3	1497.6	108.645	966.1	43.68	
	11:00	1070.9	72.5	1497.6	108.645	962.3	43.68	
				1497.6				

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
STEP NO. & REMARKS	TIME	SURFACE TUBING PRESS. (psig)	CUMMULATIVE VOL. INJECTED (bbls)	INJECTION RATE (bbls/day)	FRICTION HEAD LOSS (psi)	CORRECTED TUBING PRESS. (psi) (1) - (4)	INJECTION RATE (gpm) (3)/34.2857	MEASURED BHP (psi)
5	11:05	1479.5	79.1	1900.8	168.873	1310.6	55.44	
	11:10	1522.6	85.7	1900.8	168.873	1353.7	55.44	
	11:15	1551.7	92.3	1900.8	168.873	1382.8	55.44	
	11:20	1563.1	98.9	1900.8	168.873	1394.2	55.44	
	11:25	1603.7	105.5	1900.8	168.873	1434.8	55.44	
6	11:30	1632.8	112.1	1900.8	168.873	1463.9	55.44	
	11:35	1957.6	120.3	2361.6	252.325	1705.3	68.88	
	11:40	2014.7	128.5	2361.6	252.325	1762.4	68.88	
	11:45	2032.6	136.7	2361.6	252.325	1780.3	68.88	
	11:50	2069.4	144.8	2332.8	246.662	1822.7	68.04	
	11:55	2079.6	152.8	2304.0	241.058	1838.5	67.20	
	12:00	2106.3	160.9	2332.8	246.662	1859.6	68.04	
	12:05	2180.1	169.1	2361.6	252.325	1927.8	68.88	
	12:10	2201.7	177.2	2332.8	246.662	1955.0	68.04	
	12:15	2189.0	185.4	2361.6	252.325	1936.7	68.88	
7	12:20	2192.0	193.6	2361.6	252.325	1939.7	68.88	
	12:25	2199.1	201.8	2361.6	252.325	1946.8	68.88	
	12:30	2204.2	210.0	2361.6	252.325	1951.9	68.88	
	12:31	1020.0		2356.8		1020.0		
	12:32	894.3				894.3		
FALLOFF	12:33	813.1				813.1		
	12:34	759.8				759.8		
	12:35	719.2				719.2		
	12:40	611.3				611.3		
	12:45	554.1				554.1		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #77
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC

DATE: JUNE 4, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #78
LEA COUNTY, NEW MEXICO

WO#: 99-14-0434

PERFS = 5922-6118

PACKER DEPTH = 5934

BHP GAUGE DEPTH = SURFACE ONLY

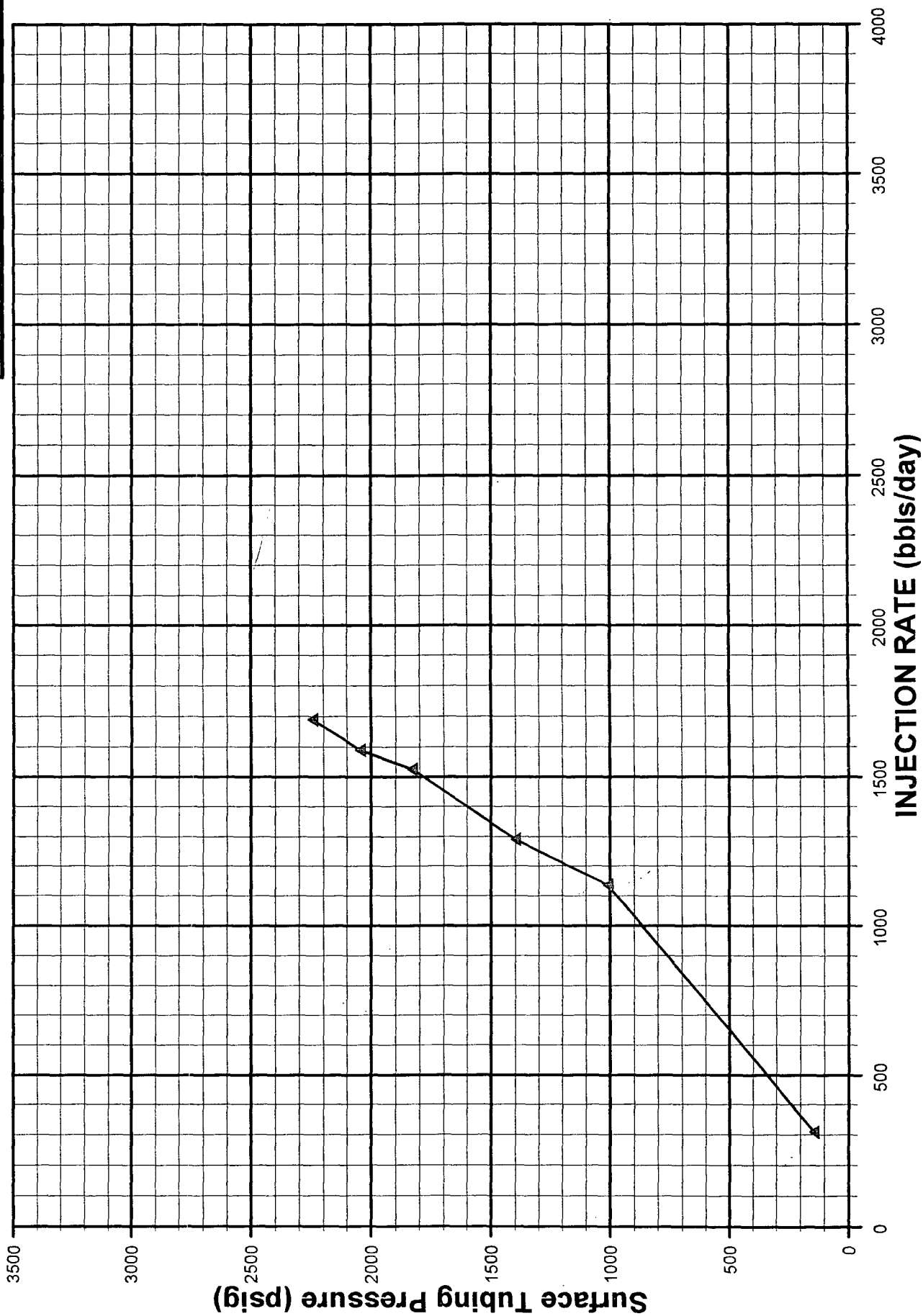
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
STEP NO. & REMARKS	TIME	SURFACE TUBING PRESS. (psig)	CUMMULATIVE VOL. INJECTED (bbls)	INJECTION RATE (bbls/day)	FRICTION HEAD LOSS (psi)	CORRECTED TUBING PRESS. (psi) (1) - (4)	INJECTION RATE (gpm) (3)/34.2857	MEASURED BHP (psi)
1	1:30	13.7				13.7		
	1:35	23.6	1.0	288.0	5.192	18.4	8.40	
	1:40	33.6	2.1	316.8	6.193	27.4	9.24	
	1:45	63.6	3.2	316.8	6.193	57.4	9.24	
	1:50	91.0	4.3	316.8	6.193	84.8	9.24	
	1:55	121.2	5.4	316.8	6.193	115.0	9.24	
	2:00	142.7	6.5	316.8	6.193	136.5	9.24	
				312.0				
	2:05	617.5	10.5	1152.0	67.473	550.0	33.60	
	2:10	767.2	14.2	1209.6	73.846	693.4	35.28	
2	2:15	835.8	18.2	1152.0	67.473	768.3	33.60	
	2:20	904.3	22.2	1152.0	67.473	836.8	33.60	
	2:25	961.4	26.2	1152.0	67.473	893.9	33.60	
	2:30	1011.0	30.2	1152.0	67.473	943.5	33.60	
				1137.6				
	2:35	1170.8	34.7	1296.0	83.900	1086.9	37.80	
	2:40	1250.7	39.2	1296.0	83.900	1166.8	37.80	
	2:45	1293.8	43.6	1267.2	80.483	1213.3	36.96	
	2:50	1333.1	48.1	1296.0	83.900	1249.2	37.80	
	2:55	1366.1	52.6	1296.0	83.900	1282.2	37.80	
3	3:00	1399.1	57.1	1296.0	83.900	1315.2	37.80	
				1291.2				
	3:05	1619.7	62.4	1526.4	113.561	1506.1	44.52	
	3:10	1665.4	67.7	1526.4	113.561	1551.8	44.52	
	3:15	1732.6	73.0	1526.4	113.561	1619.0	44.52	
	3:20	1761.8	78.2	1497.6	109.629	1652.2	43.68	
	3:25	1778.3	83.5	1526.4	113.561	1664.7	44.52	
	3:30	1832.8	88.9	1555.2	117.556	1715.2	45.36	
				1526.4				

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMULATIVE 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	3:35	1914.0	94.5	1612.8	125.738	1788.3	47.04	
	3:40	1953.3	100.0	1584.0	121.615	1831.7	46.20	
	3:45	1950.7	105.5	1584.0	121.615	1829.1	46.20	
	3:50	2005.3	111.0	1584.0	121.615	1883.7	46.20	
	3:55	2000.2	116.5	1584.0	121.615	1878.6	46.20	
	4:00	2046.0	122.0	1584.0	121.615	1924.4	46.20	
				1588.8				
	4:05	2149.0	127.9	1699.2	138.482	2010.5	49.56	
	4:10	2185.9	133.8	1699.2	138.482	2047.4	49.56	
	4:15	2185.9	139.6	1670.4	134.171	2051.7	48.72	
6	4:20	2202.5	145.4	1670.4	134.171	2068.3	48.72	
	4:25	2231.7	151.3	1699.2	138.482	2093.2	49.56	
	4:30	2244.5	157.2	1699.2	138.482	2106.0	49.56	
				1689.6				
	FALLOFF							
	4:31	1553.8				1553.8		
	4:32	1447.2				1447.2		
	4:33	1366.1				1366.1		
	4:34	1297.6				1297.6		
	4:35	1239.2				1239.2		
	4:40	1038.8				1038.8		
	4:45	915.7				915.7		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #78
Lea County, New Mexico



WEST-TEST, INC.
A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION
Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 5, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #79
LEA COUNTY, NEW MEXICO

WO#: 99-14-0435

PERFS = 5902-6124

PACKER DEPTH = 5812

BHP GAUGE DEPTH = SURFACE ONLY

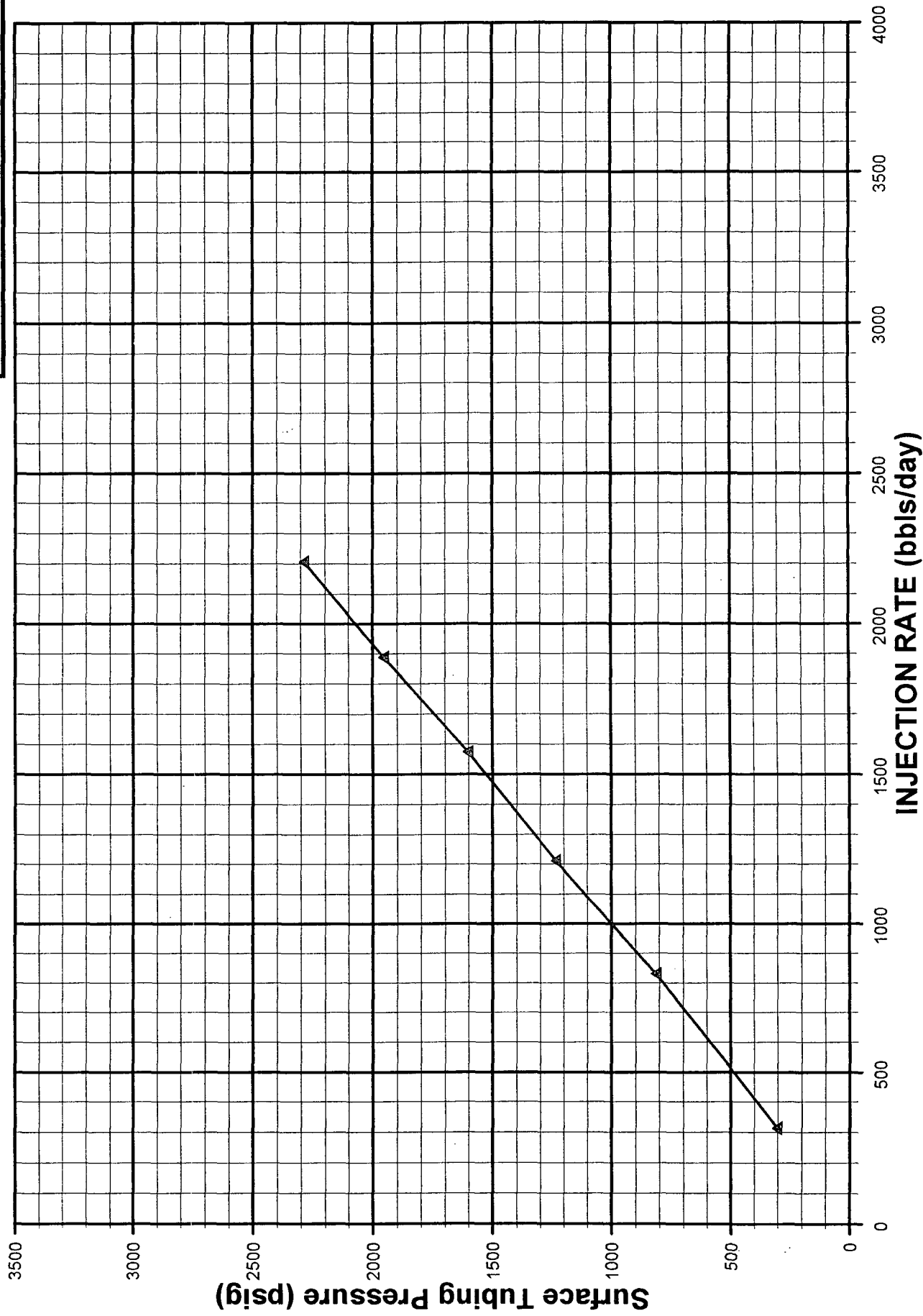
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	12:30	32.2				32.2		
	12:35	179.9	0.9	259.2	4.267	175.6	7.56	
	12:40	205.1	2.0	316.8	6.186	198.9	9.24	
	12:45	237.9	3.0	288.0	5.186	232.7	8.40	
	12:50	264.5	4.1	316.8	6.186	258.3	9.24	
	12:55	277.1	5.1	288.0	5.186	271.9	8.40	
	1:00	303.7	6.2	316.8	6.186	297.5	9.24	
	1:05	615.9	9.0	806.4	34.838	581.1	23.52	
	1:10	694.7	12.0	864.0	39.581	655.1	25.20	
	1:15	765.7	14.8	806.4	34.838	730.9	23.52	
2	1:20	783.4	17.7	835.2	37.175	746.2	24.36	
	1:25	832.8	20.6	835.2	37.175	795.6	24.36	
	1:30	813.7	23.5	835.2	37.175	776.5	24.36	
				830.4				
	1:35	1094.1	27.5	1152.0	67.394	1026.7	33.60	
	1:40	1141.0	31.7	1209.6	73.760	1067.2	35.28	
	1:45	1153.7	36.0	1238.4	77.042	1076.7	36.12	
	1:50	1166.4	40.3	1238.4	77.042	1089.4	36.12	
	1:55	1205.8	44.5	1209.6	73.760	1132.0	35.28	
	2:00	1233.9	48.8	1238.4	77.042	1156.9	36.12	
3				1214.4				
	2:05	1475.0	54.3	1584.0	121.474	1353.5	46.20	
	2:10	1504.3	59.8	1584.0	121.474	1382.8	46.20	
	2:15	1522.1	65.2	1555.2	117.420	1404.7	45.36	
	2:20	1537.4	70.7	1584.0	121.474	1415.9	46.20	
	2:25	1560.3	76.2	1584.0	121.474	1438.8	46.20	
	2:30	1603.4	81.6	1555.2	117.420	1486.0	45.36	
				1574.4				
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	2:35	1855.9	88.1	1872.0	165.463	1690.4	54.60	
	2:40	1876.2	94.7	1900.8	170.203	1706.0	55.44	
	2:45	1899.0	101.3	1900.8	170.203	1728.8	55.44	
	2:50	1914.2	107.9	1900.8	170.203	1744.0	55.44	
	2:55	1934.5	114.5	1900.8	170.203	1764.3	55.44	
	3:00	1956.1	121.0	1872.0	165.463	1790.6	54.60	
				1891.2				
	3:05	2202.7	128.7	2217.6	226.371	1976.3	64.68	
	3:10	2214.1	136.4	2217.6	226.371	1987.7	64.68	
	3:15	2231.9	144.0	2188.8	220.962	2010.9	63.84	
6	3:20	2252.3	151.7	2217.6	226.371	2025.9	64.68	
	3:25	2289.2	159.3	2188.8	220.962	2068.2	63.84	
	3:30	2284.1	167.0	2217.6	226.371	2057.7	64.68	
				2208.0				
	FALLOFF							
	3:31	1324.3				1324.3		
	3:32	1206.4				1206.4		
	3:33	1129.0				1129.0		
	3:34	1070.7				1070.7		
	3:35	1023.7				1023.7		
	3:40	874.0				874.0		
	3:45	783.8				783.8		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #79
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 7, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #80
LEA COUNTY, NEW MEXICO

WO#: 99-14-0436

PERFS = 5959-6159

PACKER DEPTH = 5882

BHP GAUGE DEPTH = SURFACE ONLY

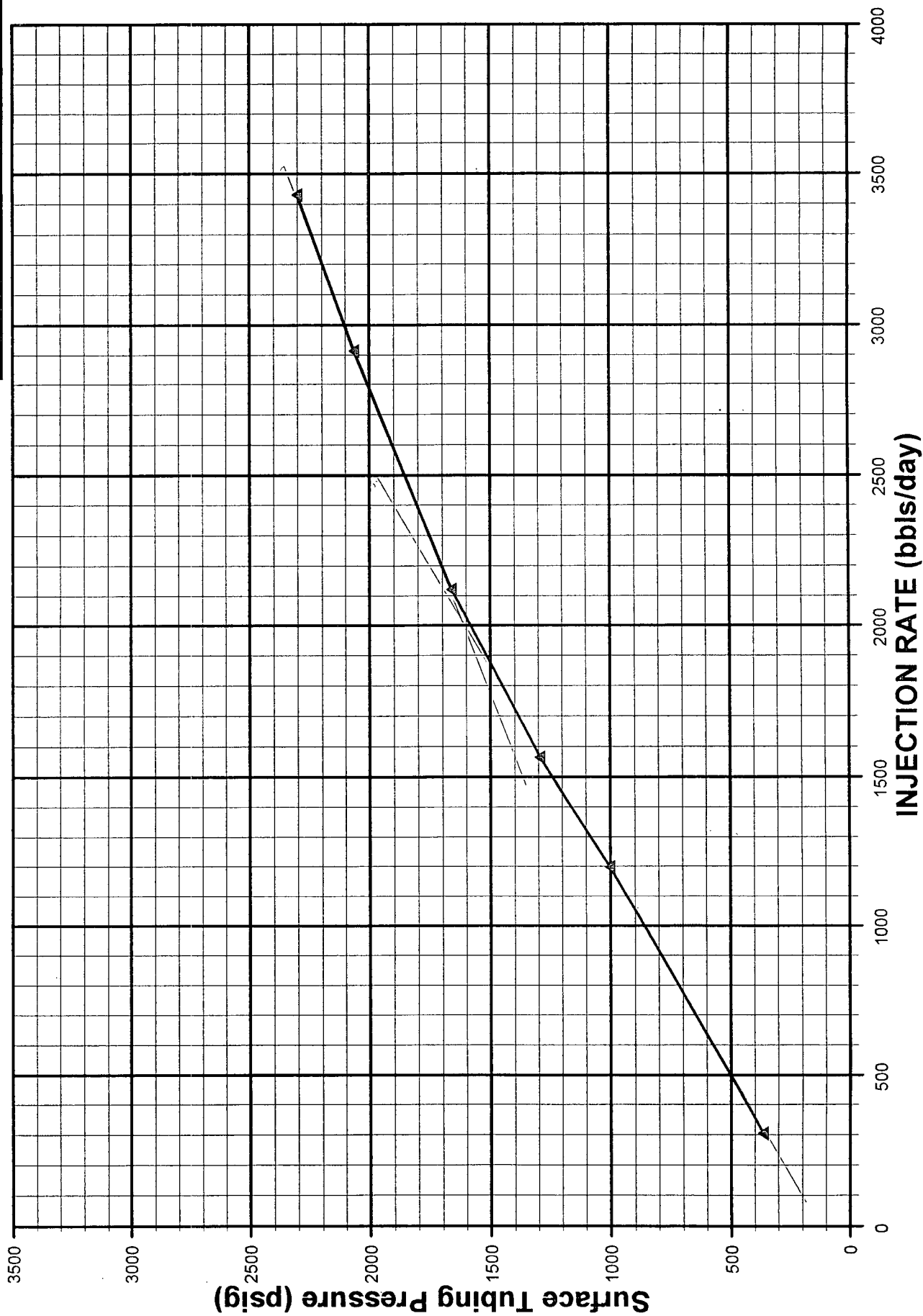
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:30	188.2				188.2		
	8:35	299.9	0.9	259.2	4.300	295.6	7.56	
	8:40	315.1	2.0	316.8	6.233	308.9	9.24	
	8:45	331.5	3.1	316.8	6.233	325.3	9.24	
	8:50	342.9	4.2	316.8	6.233	336.7	9.24	
	8:55	353.0	5.3	316.8	6.233	346.8	9.24	
	9:00	365.7	6.4	316.8	6.233	359.5	9.24	
				307.2				
	9:05	731.2	10.3	1123.2	64.802	666.4	32.76	
	9:10	850.5	14.6	1238.4	77.632	772.9	36.12	
2	9:15	915.2	18.8	1209.6	74.325	840.9	35.28	
	9:20	988.7	23.0	1209.6	74.325	914.4	35.28	
	9:25	1006.5	27.2	1209.6	74.325	932.2	35.28	
	9:30	1002.6	31.4	1209.6	74.325	928.3	35.28	
				1200.0				
	9:35	1190.2	36.8	1555.2	118.318	1071.9	45.36	
	9:40	1223.1	42.3	1584.0	122.403	1100.7	46.20	
	9:45	1269.9	47.7	1555.2	118.318	1151.6	45.36	
	9:50	1278.6	53.1	1555.2	118.318	1160.3	45.36	
	9:55	1279.4	58.6	1584.0	122.403	1157.0	46.20	
3	10:00	1292.4	64.0	1555.2	118.318	1174.1	45.36	
				1564.8				
	10:05	1557.3	71.2	2073.6	201.459	1355.8	60.48	
	10:10	1587.6	78.6	2131.2	211.934	1375.7	62.16	
	10:15	1626.8	86.0	2131.2	211.934	1414.9	62.16	
	10:20	1631.9	93.4	2131.2	211.934	1420.0	62.16	
	10:25	1650.8	100.8	2131.2	211.934	1438.9	62.16	
	10:30	1662.2	108.2	2131.2	211.934	1450.3	62.16	
				2121.6				

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	10:35	1981.7	118.1	2851.2	363.117	1618.6	83.16	
	10:40	2012.1	128.2	2908.8	376.805	1635.3	84.84	
	10:45	2031.2	138.4	2937.6	383.736	1647.5	85.68	
	10:50	2036.2	148.6	2937.6	383.736	1652.5	85.68	
	10:55	2056.6	158.8	2937.6	383.736	1672.9	85.68	
	11:00	2065.6	168.9	2908.8	376.805	1688.8	84.84	
				2913.6				
	11:05	2261.3	180.4	3312.0	479.085	1782.2	96.60	
	11:10	2271.5	192.4	3456.0	518.331	1753.2	100.80	
	11:15	2206.7	204.4	3456.0	518.331	1688.4	100.80	
6	11:20	2300.6	216.4	3456.0	518.331	1782.3	100.80	
	11:25	2286.5	228.4	3456.0	518.331	1768.2	100.80	
	11:30	2300.4	240.4	3456.0	518.331	1782.1	100.80	
				3432.0				
	FALLOFF							
	11:31	1412.8				1412.8		
	11:32	1199.6				1199.6		
	11:33	1063.8				1063.8		
	11:34	966.1				966.1		
	11:35	889.9				889.9		
	11:40	671.4				671.4		
	11:45	565.9				565.9		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #80
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 8, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #81
LEA COUNTY, NEW MEXICO

WO#: 99-14-0437

PERFS = 5994-6192

PACKER DEPTH = 5942

BHP GAUGE DEPTH = SURFACE ONLY

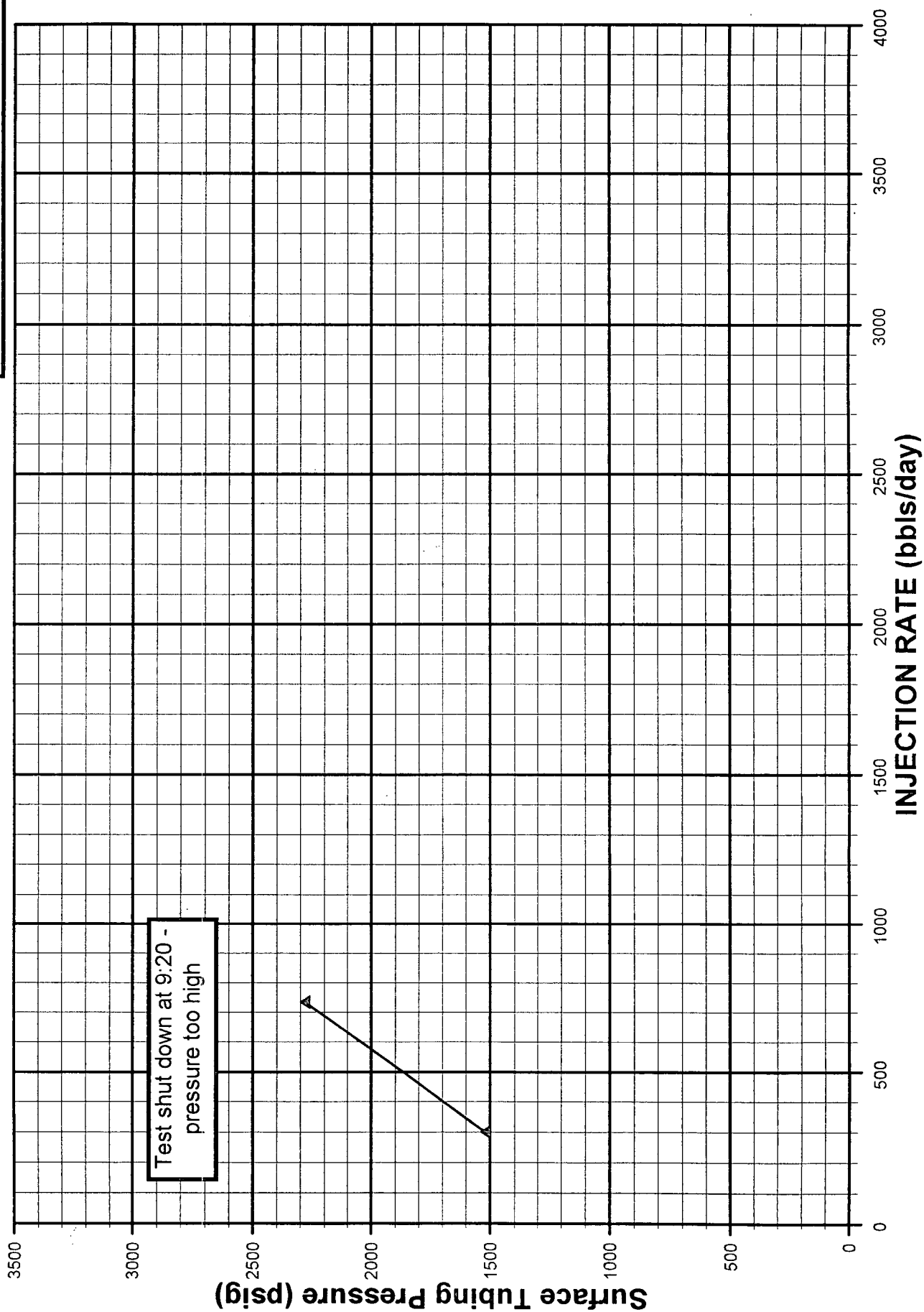
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	8:30	997.2				997.2		
	8:35	1163.2	1.0	288.0	5.255	1157.9	8.40	
	8:40	1263.2	2.0	288.0	5.255	1257.9	8.40	
	8:45	1326.6	3.1	316.8	6.268	1320.3	9.24	
	8:50	1394.9	4.2	316.8	6.268	1388.6	9.24	
	8:55	1443.0	5.2	288.0	5.255	1437.7	8.40	
	9:00	1519.0	6.3	316.8	6.268	1512.7	9.24	
				302.4				
	9:05	1813.1	8.8	720.0	28.625	1784.5	21.00	
	9:10	2002.0	11.3	720.0	28.625	1973.4	21.00	
2	9:15	2159.7	13.9	748.8	30.779	2128.9	21.84	
	9:20	2281.0	16.5	748.8	30.779	2250.2	21.84	
FALLOFF				734.4				
	9:21							
	9:22							
	9:23							
	9:24							
	9:25							
	9:30							
	9:35							

Well was blown down into truck for 2 hours on 6-7-99
due to high pressure.
Test shut down at 9:20 - pressure too high.

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #81
Lea County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF WEST CONSOLIDATED CORPORATION

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO E & P, INC.

DATE: JUNE 8, 1999

WELL NAME: V.G.W.U. INJECTION SATELLITE #1, WELL #82
LEA COUNTY, NEW MEXICO

WO#: 99-14-0438

PERFS = 5962-6085

PACKER DEPTH = 5903

BHP GAUGE DEPTH = SURFACE ONLY

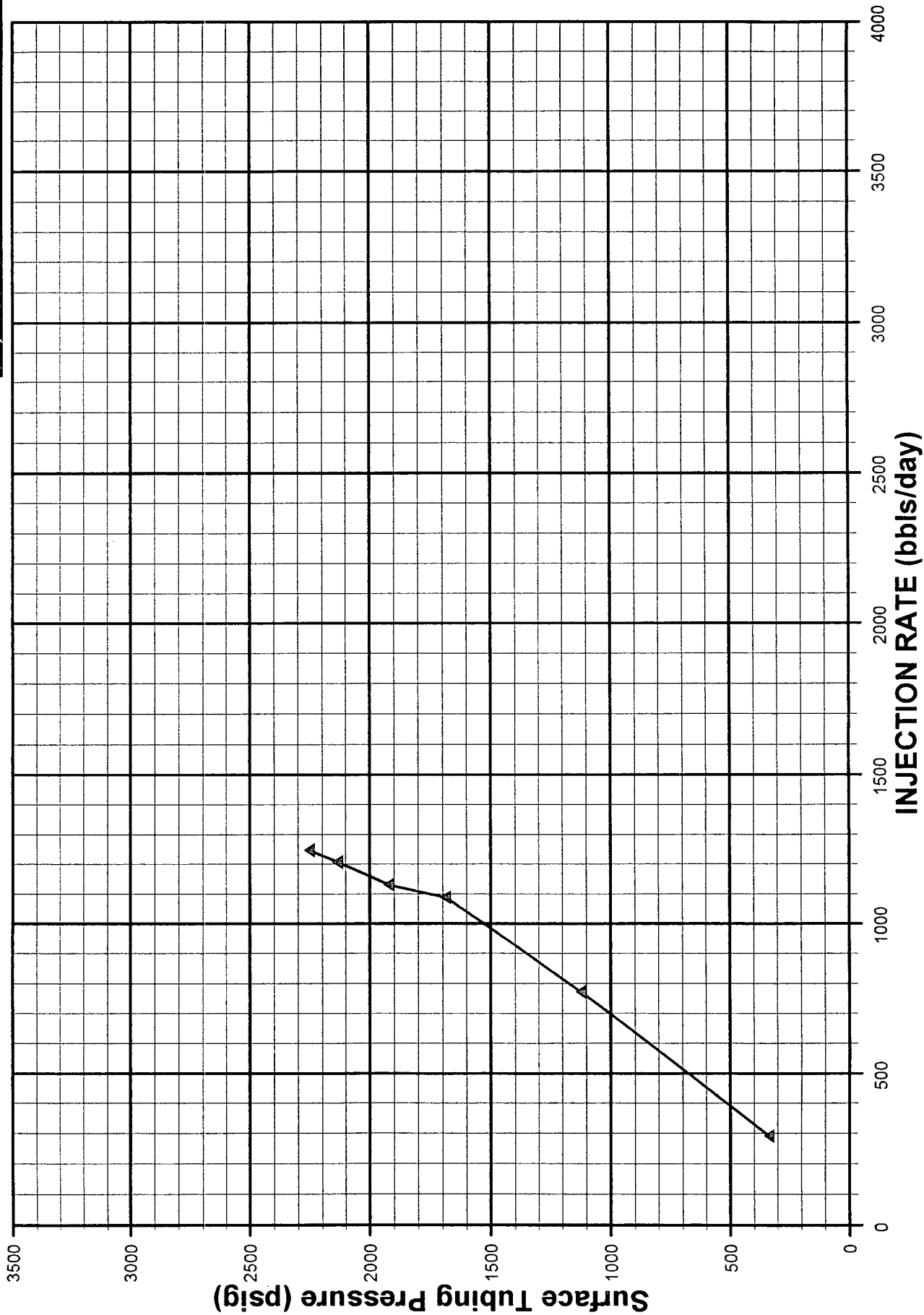
STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
1	11:00	13.0				13.0		
	11:05	116.7	0.8	230.4	3.438	113.3	6.72	
	11:10	183.8	1.9	316.8	6.197	177.6	9.24	
	11:15	219.2	2.9	288.0	5.195	214.0	8.40	
	11:20	283.9	4.0	316.8	6.197	277.7	9.24	
	11:25	314.3	5.0	288.0	5.195	309.1	8.40	
	11:30	335.8	6.1	316.8	6.197	329.6	9.24	
				292.8				
	11:35	678.5	8.7	748.8	30.430	648.1	21.84	
	11:40	810.5	11.4	777.6	32.631	777.9	22.68	
2	11:45	920.9	14.1	777.6	32.631	888.3	22.68	
	11:50	1007.2	16.8	777.6	32.631	974.6	22.68	
	11:55	1097.2	19.5	777.6	32.631	1064.6	22.68	
	12:00	1122.6	22.2	777.6	32.631	1090.0	22.68	
				772.8				
	12:05	1388.9	25.9	1065.6	58.449	1330.5	31.08	
	12:10	1487.7	29.7	1094.4	61.405	1426.3	31.92	
	12:15	1514.4	33.5	1094.4	61.405	1453.0	31.92	
	12:20	1543.7	37.3	1094.4	61.405	1482.3	31.92	
	12:25	1648.8	41.1	1094.4	61.405	1587.4	31.92	
3	12:30	1688.1	44.9	1094.4	61.405	1626.7	31.92	
				1089.6				
	12:35	1792.1	48.9	1152.0	67.518	1724.6	33.60	
	12:40	1827.6	52.8	1123.2	64.428	1763.2	32.76	
	12:45	1858.0	56.7	1123.2	64.428	1793.6	32.76	
	12:50	1880.7	60.6	1123.2	64.428	1816.3	32.76	
	12:55	1902.3	64.6	1152.0	67.518	1834.8	33.60	
	1:00	1921.3	68.5	1123.2	64.428	1856.9	32.76	
				1132.8				

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	1:05	1982.1	72.7	1209.6	73.895	1908.2	35.28	
	1:10	2031.6	76.9	1209.6	73.895	1957.7	35.28	
	1:15	2064.7	81.1	1209.6	73.895	1990.8	35.28	
	1:20	2094.0	85.3	1209.6	73.895	2020.1	35.28	
	1:25	2107.9	89.5	1209.6	73.895	2034.0	35.28	
	1:30	2134.6	93.7	1209.6	73.895	2060.7	35.28	
				1209.6				
	1:35	2170.2	98.1	1267.2	80.537	2089.7	36.96	
	1:40	2193.1	102.4	1238.4	77.183	2115.9	36.12	
	1:45	2184.2	106.7	1238.4	77.183	2107.0	36.12	
	1:50	2219.8	111.0	1238.4	77.183	2142.6	36.12	
	1:55	2233.8	115.3	1238.4	77.183	2156.6	36.12	
6	2:00	2252.9	119.7	1267.2	80.537	2172.4	36.96	
				1248.0				
FALLOFF	2:01	1837.4				1837.4		
	2:02	1746.2				1746.2		
	2:03	1675.1				1675.1		
	2:04	1615.6				1615.6		
	2:05	1562.3				1562.3		
	2:10	1356.9				1356.9		
	2:15	1233.9				1233.9		

STEP RATE INJECTION TEST

TEXACO E&P, INC.

Well Name:
V.G.W.U. Injection Satellite #1, Well #82
Lea County, New Mexico



**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:**

**Case No. 10516
Order No. R-9714**

**APPLICATION OF TEXACO EXPLORATION AND
PRODUCTION INC. FOR A WATERFLOOD PROJECT,
LEA COUNTY, NEW MEXICO.**

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on July 23, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 3rd day of September, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

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

(2) The applicant, Texaco Exploration and Production Inc. (Texaco), seeks authority to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum Glorieta Pool, Lea County, New Mexico, through the gross perforated and/or open hole interval from approximately 5,950 feet to 6,230 feet in one existing and fifty-nine wells to be drilled at orthodox and unorthodox locations as shown on Exhibit "A" attached hereto.

(3) By Order No. R-9710 issued in Case No. 10515 on August 25, 1992, the Division, upon application of Texaco, approved the Vacuum Glorieta West Unit which comprises some 2778.86 acres, more or less, in Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico.

(4) The vast majority of wells located within the applicant's Vacuum Glorieta West Unit Area are in an advanced state of depletion and should properly be classified as "stripper wells".

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

(6) The applicant should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(7) The injection of water into each of the wells shown on Exhibit "A" should be accomplished through internally cement-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus should be filled with an inert fluid and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing or packer.

(8) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well should be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(9) The injection wells or pressurization system should be initially equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 1200 psi.

(10) The Division Director should have the authority to administratively authorize a pressure limitation in excess of the pressure limitation described in Finding No. (9) above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(11) The operator should give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure tests in order that the same may be witnessed.

(12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Well Nos. 21, 43, 69, 97, 109 and 110, the applicant should be required to submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.

(13) The application should be approved and the project should be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

(14) At the time of the hearing, the applicant requested that the subject waterflood be certified by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(15) The evidence presented indicates that the subject waterflood meets all the criteria for certification.

(16) The certified "project area" should initially comprise the area approved for statutory unitization by Division Order No. R-9710, and described as follows, provided however, the "project area" and/or the producing wells eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW/4, SW/4 NW/4, SW/4 SE/4

Section 25: All

Section 26: E/2 SE/4

Section 35: NE/4, N/2 SE/4, SE/4 SE/4

Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1, 2, 3, 4 (W/2 W/2)

Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM

Section 1: Lots 1, 2, 3, 4 (N/2 N/2), S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4, (N/2)

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Texaco Exploration and Production Inc. (Texaco), is hereby authorized to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum-Glorieta Pool, Lea County, New Mexico, through the gross perforated and/or open hole interval from approximately 5,950 feet to 6,230 feet in one existing and fifty-nine wells to be drilled at orthodox and unorthodox locations as shown on Exhibit "A" attached hereto.

(2) The applicant shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(3) Injection into the wells shown on Exhibit "A" shall be accomplished through cement-lined tubing installed in a packer set approximately within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus shall be filled with an inert fluid and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing or packer.

(4) The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 1200 psi.

(5) The Division Director shall have the authority to administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(6) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well shall be pressure-tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.

(7) The operator shall give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure tests, in order that the same may be witnessed.

(8) The applicant shall immediately notify the supervisor of the Hobbs District Office of the Division of the failure of the tubing, casing or packer in any of the injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area, and shall take such steps as may be timely and necessary to correct such failure or leakage.

(9) The subject waterflood is hereby designated the Vacuum Glorieta West Unit Waterflood Project and shall be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

(10) Monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rule Nos. 706 and 1115 of the Division Rules and Regulations.

(11) The applicant shall be required to obtain Division approval, subsequent to the entry of this order, to drill any injection well located at an unorthodox location closer than 330 feet from the outer boundary of the Vacuum Glorieta West Unit.

(12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Well Nos. 21, 43, 69, 97, 109 and 110, the applicant shall submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.

(13) The subject waterflood is a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(14) To be eligible for the EOR credit, the operator must advise the Division when injection operations will commence and request the Division certify the project to the Taxation and Revenue Department.

(15) The certified "project area" shall initially comprise the area approved for statutory unitization by Division Order No. R-9710, and described as follows, provided however, the "project area" and/or the producing wells eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW/4, SW/4 NW/4, SW/4 SE/4
Section 25: All
Section 26: E/2 SE/4
Section 35: NE/4, N/2 SE/4, SE/4 SE/4
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1, 2, 3, 4 (W/2 W/2)
Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

CASE NO. 10516

Order No. R-9714

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TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM

Section 1: Lots 1, 2, 3, 4 (N/2 N/2), S/2 NE/4

Section 2: Lot 1 (NE/4 NE/4)

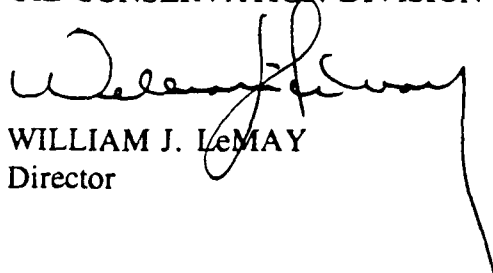
TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4, (N/2)

(16) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LeMAY
Director

S E A L

EXHIBIT "A"
DIVISION ORDER NO. R-9714
VACUUM GLORIETA WEST UNIT
APPROVED NEWLY DRILLED INJECTION WELLS

<u>LEASE NAME</u>	<u>LOCATION</u>	<u>ULSTR</u>	<u>VGWJ WELL NO.</u>
Bridges State	1360' FSL & 1300' FWL	M-24-17S-34E	4
Bridges State	1209' FSL & 2582' FWL	N-24-17S-34E	5
Bridges State	73' FNL & 1411' FWL	C-25-17S-34E	9
Yucca State	100' FSL & 2628' FWL	O-24-17S-34E	10
Bridges State	246' FNL & 1554' FEL	B-25-17S-34E	11
Bridges State	1328' FNL & 1399' FWL	F-25-17S-34E	17
Bridges State	1651' FNL & 2543' FWL	F-25-17S-34E	18
Bridges State	1502' FNL & 1520' FEL	G-25-17S-34E	19
NM T State NCT-1	1541' FNL & 181' FEL	H-25-17S-34E	20
NM N State	1330' FNL & 1283' FWL	E-30-17S-35E	21
Bridges State	1171' FSL & 34' FEL	I-26-17S-34E	27
McAllister State	2304' FSL & 1127' FWL	L-25-17S-34E	28
McAllister State	2522' FSL & 2283' FWL	K-25-17S-34E	29
NM Q State	2305' FSL & 1391' FEL	J-25-17S-34E	30
Swiggart	2520' FSL & 128' FEL	I-25-17S-34E	31
McAllister State	2387' FSL & 51' FEL	M-25-17S-34E	38
McAllister State	1194' FSL & 1055' FWL	M-25-17S-34E	39
McAllister State	1570' FSL & 2404' FWL	K-25-17S-34E	40
NM Q State	1437' FSL & 1646' FEL	J-25-17S-34E	41
NM N State	1250' FSL & 8 FWL	M-30-17S-35E	42
NM N State	1453' FSL & 1247' FWL	L-30-17S-35E	43
State H-35	112' FNL & 1214' FEL	A-35-17S-34E	50
State H-35	24' FNL & 31' FEL	A-35-17S-34E	51
McAllister State	65' FSL & 1587' FWL	N-25-17S-34E	52
McAllister State	65' FSL & 2350' FWL	N-25-17S-34E	53
NM Q State	7' FSL & 1693' FEL	O-25-17S-34E	54
NM N State	177' FSL & 52' FWL	M-30-17S-35E	55
State H-35	1370' FNL & 1135' FEL	A-35-17S-34E	63
NM O State NCT-1	1484' FNL & 204' FWL	E-36-17S-34E	64
NM O State NCT-1	1472' FNL & 1492' FWL	F-36-17S-34E	65

<u>LEASE NAME</u>	<u>LOCATION</u>	<u>ULSTR</u>	<u>VGWU WELL NO.</u>
NM O State NCT-1	1690' FNL & 2577' FWL	F-36-17S-34E	66
NM O State NCT-1	1435' FNL & 1408' FEL	G-36-17S-34E	67
NM O State NCT-1	1491' FNL & 280' FEL	H-36-17S-34E	68
Santa Fe Battery 2	1502' FNL & 1203' FWL	E-31-17S-35E	69
State H-35	2569' FSL & 1326' FEL	H-35-17S-34E	77
NM O State NCT-1	2491' FNL & 127' FWL	E-36-17S-34E	78
State VB	2461' FSL & 1351' FWL	K-36-17S-34E	79
NM O State NCT-1	2552' FNL & 2504' FEL	G-36-17S-34E	80
NM O State NCT-1	2466' FSL & 1505' FEL	J-36-17S-34E	81
NM O State NCT-1	2576' FSL & 82' FEL	I-36-17S-34E	82
M.E. Hale	1459' FSL & 1148' FEL	I-35-17S-34E	91
State I	1451' FSL & 149' FWL	L-36-17S-34E	92
State VB	1723' FSL & 1575' FWL	K-36-17S-35E	93
NM O State NCT-1	1525' FSL & 2591' FEL	J-36-17S-34E	94
NM O State NCT-1	1519' FSL & 1548' FEL	J-36-17S-34E	95
NM O State NCT-1	142' FSL & 214' FEL	I-36-17S-34E	96
Santa Fe Battery 2	1419' FSL & 1225' FWL	L-31-17S-35E	97
NM O State NCT-1	361' FSL & 300' FWL	M-36-17S-34E	104
NM O State NCT-1	403' FSL & 1340' FWL	N-36-17S-34E	105
NM O State NCT-1	310' FSL & 2542' FEL	O-36-17S-34E	106
NM O State NCT-1	184' FSL & 1382' FEL	O-36-17S-34E	107
NM O State NCT-1	213' FSL & 301' FEL	P-36-17S-34E	108
Warn State AC 2	96' FNL & 2498' FWL	C-6-18S-35E	109
NM R State NCT-1	74' FNL & 56' FEL	A-6-18S-35E	110
NM L State	1102' FNL & 1575' FEL	B-1-18S-34E	120
NM L State	1014' FNL & 140' FEL	A-1-18S-34E	121
Warn State AC 2	1000' FNL & 1136' FWL	D-6-18S-35E	122
Warn State AC 2	1080' FNL & 2344' FWL	C-6-18S-35E	123
NM R State NCT-1	1020' FNL & 1419' FEL	B-6-18S-35E	124

EXISTING WELL TO BE CONVERTED TO INJECTION

Bridges State No. 113 30' FNL & 830' FWL E-24-17S-34E 1