

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



OIL CONSERVATION DIVISION



February 1, 1995

PMX-86
PDEV0020700086

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

Attn: Robert McNaughton

**RE: Injection Pressure Increase
 Central Vacuum Unit No. 142
 Central Vacuum Unit Waterflood Project
 Lea County, New Mexico**

Dear Mr. McNaughton:

Reference is made to your request dated January 11, 1995, to increase the surface injection pressure on the Central Vacuum Unit Well No. 142. This request is based on a step rate test conducted on the well on December 29, 1994. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

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

Well and Location	Maximum Injection Surface Pressure
Central Vacuum Unit No. 142 Unit I, Section 6, Township 18 South, Range 35 East, NMPM Lea County, New Mexico	1285 PSIG

VILLAGRA BUILDING - 408 Galisteo

Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830

Park and Recreation Division
P.O. Box 1147 87504-1147
827-7485

2040 South Pacheco

Office of the Secretary
827-5950

Administrative Services
827-5925

Energy Conservation & Management
827-5900

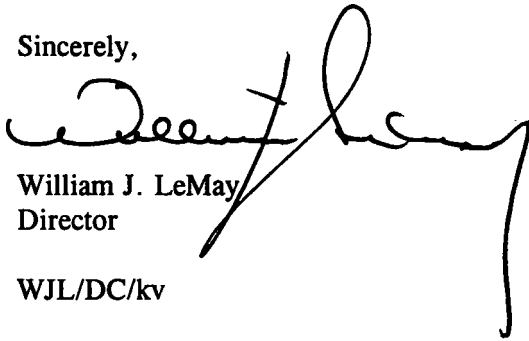
Mining and Minerals
827-5970

Oil Conservation
827-7131

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', written over the typed name and title.

William J. LeMay
Director

WJL/DC/kv

cc: Oil Conservation Division - Hobbs
File: PMX-86
R. Brown
D. Catanach

NO WAITING PERIOD

COMPANY: Texaco Exploration and Production Inc.
ADDRESS: P.O. Box 730
CITY, STATE, ZIP: Hobbs, New Mexico 88241-0730
ATTENTION: Robert McNaughton

Re: Injection Pressure Increase

Central Vacuum Unit No. 142
Central Vacuum Alt. Waterflood Project
Lea County, New Mexico

Dear Sir:

Reference is made to your request dated January 11, 1995, to increase the surface injection pressure on the Central Vacuum Unit Well No. 142. This request is based on a step rate test conducted on the well on December 28, 1994. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

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

<u>Well & Location</u>	<u>Maximum Injection Surface Pressure</u>
<u>Central Vacuum Unit No. 142</u>	<u>1285 PSIG</u>
<u>Unit I, Section 6, T-18 South, R-35 East, Nman</u>	
<u>Lea County, New Mexico</u>	

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.

R. Brown
XC: T-GALLEGOS
D. CATANACH
FILE- AMX-26
OCD- Hobbs



OIL CONSERVATION DIVISION
RECEIVED

N/R

Texaco E & P 95 JAN 12 AM 8 52
PO Box 730
Hobbs NM 88241-0730
505 393 7191

January 11, 1995

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

Attention: David R. Catanach

Re: Request for Increase in Surface Injection Pressure Limits
Texaco Exploration and Production Inc.
Central Vacuum Unit, Well No. 142
Unit I, Section 6, T-18-S, R-35-E, Lea County, New Mexico

Dear Mr. Catanach

Texaco Exploration and Production Inc. requests that the surface injection pressure limit be increased for the subject well. A step rate test was recently run and the results are attached. A summary is given below:

<u>Well No.</u>	<u>Present Injection Rate & Pressure</u>	<u>Observed Surface Parting Pressure</u>	<u>Requested Injection Pressure Limit</u>
142	0 bw @ 922 psi	1335 psi	1285 psi

If additional information is needed, please contact Robert McNaughton at 505-397-0428.

Yours very truly,

Robert McNaughton
Production Engineer

RTM/

attachments

cc: Mr. Jerry Sexton
Hobbs NMOCD

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

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 29, 1994

WELL NAME: CENTRAL VACUUM UNIT NO. 142
LEA COUNTY, NEW MEXICO

WO#: 94-14-2191

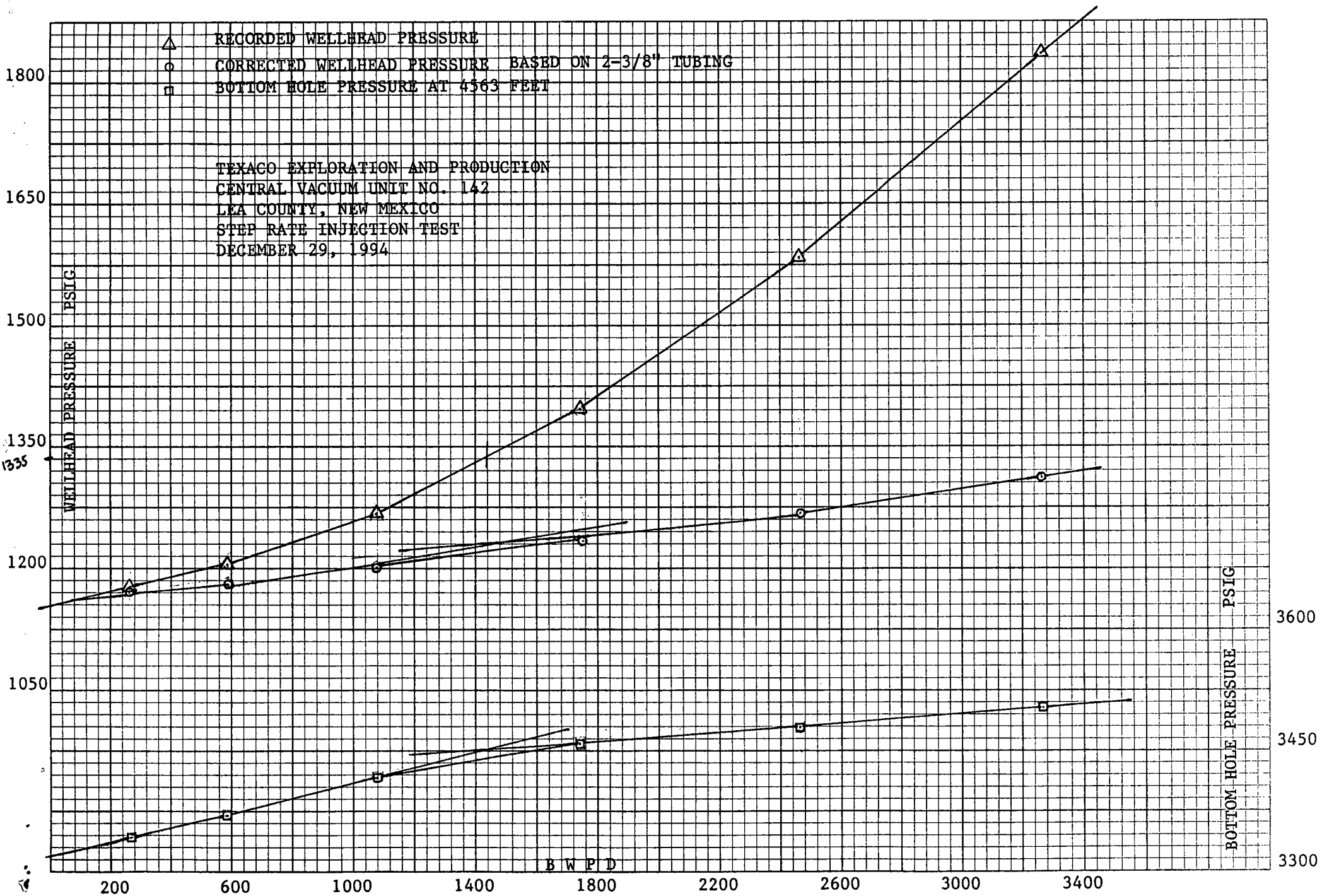
PERFS = 4468-4658

PACKER DEPTH =

BHP GAUGE DEPTH = 4583

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)/34.2057	(7) MEASURED BHP (psi)
1	9:00	1160.0				1160.0		3340.2
	9:05	1166.8	0.9	259.2	4.800	1162.0	7.56	3338.3
	9:10	1165.4	1.8	259.2	4.800	1160.6	7.56	3336.0
	9:15	1171.8	2.7	259.2	4.800	1167.0	7.56	3336.0
	9:20	1165.4	3.7	288.0	5.833	1159.6	8.40	3338.4
	9:25	1166.6	4.6	259.2	4.800	1161.8	7.56	3340.8
	9:30	1167.8	5.6	288.0	5.833	1162.0	8.40	3343.7
				268.8				
	9:35	1188.3	7.7	604.8	23.013	1165.3	17.64	3347.7
	9:40	1190.8	9.7	576.0	21.027	1169.8	16.80	3353.2
2	9:45	1193.4	11.7	576.0	21.027	1172.4	16.80	3358.3
	9:50	1198.5	13.7	576.0	21.027	1177.5	16.80	3364.3
	9:55	1199.7	15.8	604.0	22.957	1176.7	17.62	3368.8
	10:00	1202.2	17.9	604.8	23.013	1179.2	17.64	3371.6
				590.4				
	10:05	1249.6	21.7	1094.4	68.940	1180.7	31.92	3379.2
	10:10	1262.3	25.4	1065.6	65.621	1196.7	31.08	3388.6
	10:15	1263.6	29.1	1065.6	65.621	1198.0	31.08	3397.1
	10:20	1262.3	32.8	1065.6	65.621	1196.7	31.08	3405.0
	10:25	1266.1	36.6	1094.4	68.940	1197.2	31.92	3411.4
3	10:30	1268.6	40.4	1094.4	68.940	1199.7	31.92	3417.1
				1080.0				
	10:35	1385.1	46.4	1728.0	160.492	1224.6	50.40	3427.9
	10:40	1388.8	52.5	1756.8	165.475	1223.3	51.24	3438.2
	10:45	1393.9	58.6	1756.8	165.475	1228.4	51.24	3446.8
	10:50	1400.2	64.7	1756.8	165.475	1234.7	51.24	3452.0
	10:55	1395.1	70.8	1756.8	165.475	1229.6	51.24	3455.0
	11:00	1396.3	76.8	1728.0	160.492	1235.8	50.40	3458.4
				1747.2				

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	11:05	1608.8	85.3	2448.0	305.701	1303.1	71.40	3464.3
	11:10	1565.2	93.9	2476.8	312.388	1252.8	72.24	3468.7
	11:15	1572.8	102.5	2476.8	312.388	1260.4	72.24	3470.8
	11:20	1575.3	111.1	2476.8	312.388	1262.9	72.24	3473.5
	11:25	1582.9	119.7	2476.8	312.388	1270.5	72.24	3476.7
	11:30	1581.6	128.3	2476.8	312.388	1269.2	72.24	3479.4
				2472.0				
	11:35	1821.0	139.6	3254.4	517.687	1303.3	94.92	3483.3
	11:40	1819.6	151.0	3283.2	526.195	1293.4	95.76	3485.8
	11:45	1827.2	162.4	3283.2	526.195	1301.0	95.76	3488.3
6	11:50	1828.3	173.7	3254.4	517.687	1310.6	94.92	3489.8
	11:55	1832.1	185.2	3312.0	534.766	1297.3	96.60	3492.2
	12:00	1832.0	196.5	3254.4	517.687	1314.3	94.92	3494.8
				3273.6				
FALLOFF	12:01	1269.9				1269.9		3489.9
	12:02	1264.7				1264.7		3489.3
	12:03	1264.7				1264.7		3487.5
	12:04	1263.4				1263.4		3485.6
	12:05	1263.4				1263.4		3484.8
	12:10	1259.4				1259.4		3479.7
	12:15	1256.7				1256.7		3475.3





GARY JOHNSON
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
January 17, 1995

OIL CONSERVATION DIVISION
RECEIVED

'95 JAN 20 AM 8 52

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

Texaco Exploration & Production Co.	Central Vacuum Unit #142-I	6-18-35
Operator	Lease & Well No.	Unit S-T-R

and my recommendations are as follows:

OR

Very truly yours

Jerry Sexton
Supervisor, District I

/bp