



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

August 24, 1994

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Texaco Exploration and Production, Inc.
P.O. Box 730
Hobbs, NM 88241

CF 6008
R-5530

Attention: Robert McNaughton

RE: Injection Pressure Increase, Central Vacuum Unit Well No. 7, Unit B of Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico

Dear Mr. McNaughton:

Reference is made to your request dated August 11, 1994 to increase the surface injection pressure on the above-referenced well. This request is based on a step rate tests conducted on August 10, 1994. The results of the test has been reviewed by my staff and we feel an increase in injection pressure on this 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 Well No. 7 1310' FNL - 1330' FEL Unit B, Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico.	1535 PSIG

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

Sincerely,

William J. LeMay
Director

WJL/BES/amg

cc: Oil Conservation Division - Hobbs
File: Case No. 6008
D. Catanach

NO WAITING PERIOD

COMPANY: **TEXACO EXPLORATION & PRODUCTION, INC.**
ADDRESS: **P.O. Box 730**
CITY, STATE, ZIP: **Hobbs, New Mexico 88241**
ATTENTION: **Mr. Robert McNaughton**

*RE: Injection Pressure Increase
Central Vacuum Unit Well No.7
UL "B" Sec.30-T17S-R35E
Lea County, New Mexico*

Dear Sir:

Reference is made to your request dated **August 11, 1994**, to increase the surface injection pressure on **the above referenced well**. This request is based on a step rate test conducted on this well **August 10, 1993**. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

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

<u>Well & Location</u>	<u>Maximum Injection Surface Pressure</u>
Central Vacuum Unit Well No.7 1310' FNL & 1330' FEL Unit Letter "B", Section 30-T17S-R35E Lea County, New Mexico	1535 psig

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

Sincerely,

William J. LeMay
Director

WJL/BES/

xc: D. Catanach FILE - Case File No.6008 OCD - Hobbs



TEXACO

FAX TRANSMITTAL COVER SHEET

NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 8/11 ☐ URGENT ☐ ROUTINE NO. OF PAGES 4

MESSAGE TO: David R. Catanach

TELEPHONE NO. FAX MACHINE NO. 827-5741

DEPT./DIV./SUBS.

LOCATION ROOM NO.

MESSAGE FROM: Robert McNaughton

TELEPHONE NO. 505-397-0428 FAX MACHINE NO. 397-3450

DEPT./DIV./SUBS. Texaco GTP

LOCATION Hobbs ROOM NO.

SENDING DEPT. APPROVAL TIME TRANSMITTED

☐ RETURN ORIGINAL VIA INTER-OFFICE MAIL ☐ RETURN ORIGINAL CALL SENDER TO PICK UP

ADDITIONAL COMMENTS:

I called J. Sexton in Hobbs and he had no
problem with increasing the pressure limit.
Hard copy to follow in the mail.



Texaco E & P

PO Box 740
Hobbs NM 88241-0740
505 397 7191

August 11, 1994

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 88240

Attention: David R. Catanach

Re: Request for Increase in Surface Injection Pressure Limits
Texaco Exploration and Production Inc.
Central Vacuum Unit, Well No. 7
Unit B, Section 30, T-17-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>
7	0 bw @ 919 psi	1585 psi	1525 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: AUGUST 10, 1994

WELL NAME: CENTRAL VACUUM UNIT NO. 7
LEA COUNTY, NEW MEXICO

WO#: 94-14-1388

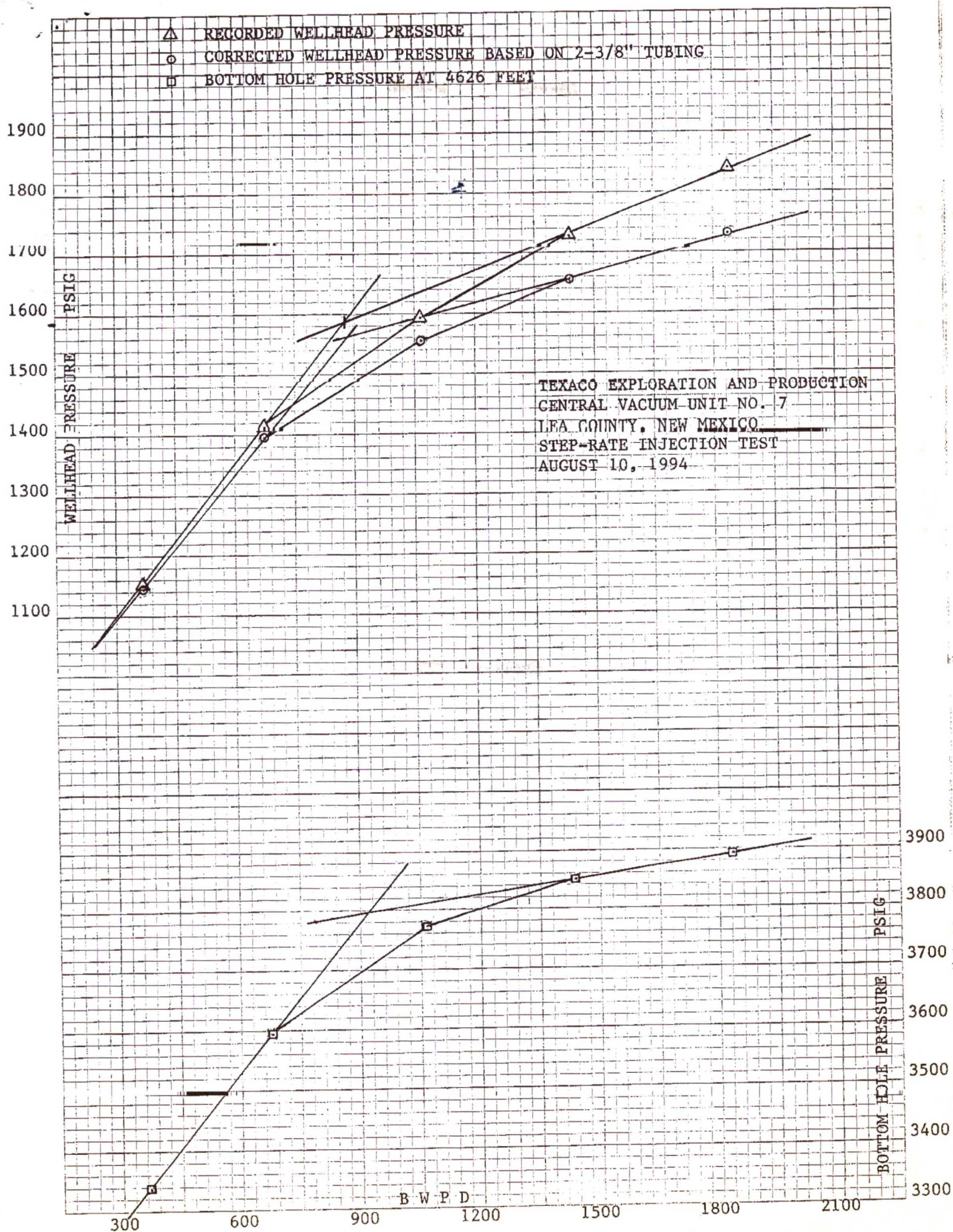
PERFS - 4595-4657

PACKER DEPTH = 4461

BHP GAUGE DEPTH = 4626

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	10:45	879.8				879.8		3063.9
	10:50	975.0	1.3	374.4	5.705	969.3	10.92	3155.0
	10:55	1040.4	2.6	374.4	5.705	1034.7	10.92	3204.2
	11:00	1078.7	3.9	374.4	5.705	1073.0	10.92	3246.2
	11:05	1117.1	5.2	374.4	5.705	1111.4	10.92	3281.0
	11:10	1125.7	6.4	345.6	4.920	1120.8	10.08	3310.5
	11:15	1152.8	7.6	345.6	4.920	1147.9	10.08	3339.1
				364.8				
	11:20	1245.3	10.3	777.6	22.056	1223.2	22.68	3413.9
	11:25	1293.6	12.4	604.8	13.855	1279.7	17.64	3462.3
2	11:30	1330.5	14.7	662.4	16.394	1314.1	19.32	3501.6
	11:35	1350.4	17.0	662.4	16.394	1334.0	19.32	3537.7
	11:40	1377.4	19.3	662.4	16.394	1361.0	19.32	3569.5
	11:45	1414.4	21.7	691.2	17.737	1396.7	20.16	3595.9
				676.8				
	11:50	1492.6	25.4	1065.6	39.506	1453.1	31.08	3658.5
	11:55	1535.2	29.1	1065.6	39.506	1495.7	31.08	3695.8
	12:00	1559.5	32.8	1065.6	39.506	1520.0	31.08	3723.8
	12:05	1568.1	36.5	1065.6	39.506	1528.6	31.08	3744.2
	12:10	1583.7	40.2	1065.6	39.506	1544.2	31.08	3758.6
3	12:15	1595.1	43.9	1065.6	39.506	1555.6	31.08	3772.1
				1065.6				
	12:20	1671.9	48.9	1440.0	68.959	1602.9	42.00	3805.0
	12:25	1701.8	53.9	1440.0	68.959	1632.8	42.00	3821.0
	12:30	1700.4	58.9	1440.0	68.959	1631.4	42.00	3833.7
	12:35	1708.9	63.9	1440.0	68.959	1639.9	42.00	3840.4
	12:40	1720.3	68.9	1440.0	68.959	1651.3	42.00	3846.0
	12:45	1726.1	73.9	1440.0	68.959	1657.1	42.00	3851.2
				1440.0				

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 FALLOFF	12:50	1814.2	80.3	1843.2	108.875	1705.3	53.76	3870.2
	12:55	1819.9	86.6	1814.4	105.749	1714.2	52.92	3880.1
	1:00	1821.3	92.9	1814.4	105.749	1715.6	52.92	3885.0
	1:05	1834.1	99.3	1843.2	108.875	1725.2	53.76	3889.2
	1:10	1834.1	105.7	1843.2	108.875	1725.2	53.76	3891.3
	1:15	1839.9	112.1	1843.2	108.875	1731.0	53.76	3893.7
				1833.6				
	1:16	1608.0				1608.0		3861.2
	1:17	1605.2				1605.2		3846.7
	1:18	1595.2				1595.2		3835.6
	1:19	1586.7				1586.7		3826.1
	1:20	1579.6				1579.6		3819.7
	1:25	1556.7				1556.7		3795.4
	1:30	1528.3				1528.3		3762.9





OIL CONSERVATION DIVISION
RECEIVED

Texaco E & P

P.O. Box 2088

Hobbs NM 88240

505 404 2141

'94 AUG 15 AM 9:50
August 11, 1994

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 88240

Attention: David R. Catanach

Re: Request for Increase in Surface Injection Pressure Limits
Texaco Exploration and Production Inc.
Central Vacuum Unit, Well No. 7
Unit B, Section 30, T-17-S, R-35-E, Lea County, New Mexico

Dear Mr. Catanach

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7	0 bw @ 919 psi	1585 psi	1525 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: AUGUST 10, 1994

WELL NAME: CENTRAL VACUUM UNIT NO. 7
LEA COUNTY, NEW MEXICO

WO#: 94-14-1388

PERFS = 4595-4657

PACKER DEPTH = 4461

BHP GAUGE DEPTH = 4626

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)
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	1:15	1839.9	112.1	1843.2	108.875	1731.0	53.76	3893.7
				1833.6				
	1:16	1608.0				1608.0		3861.2
	1:17	1605.2				1605.2		3846.7
	1:18	1595.2				1595.2		3835.6
	1:19	1586.7				1586.7		3826.1
	1:20	1579.6				1579.6		3819.7
	1:25	1556.7				1556.7		3795.4
	1:30	1528.3				1528.3		3762.9

