OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

January 21, 1997

CF 3345

R-3008

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

Attn: Mr. James Anderson

RE: Injection Pressure Increase,

West Vacuum Unit Well No.56 Lea County, New Mexico

Dear Mr. Anderson:

Reference is made to your request dated December 11, 1996 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on December 3, 1996. The results of the test 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 well:

Well and Location	Maximum Surface Injection Pressure			
West Vacuum Unit Well No.56	1806 PSIG	l:		
Located in Township 17 South, Range 34 East, Lea County, New Mexico.				

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

Sincerely,

William J. LeMay Director

WJL/BES

cc: Oil Conservation Division - Hobbs

Files: Case No.3345; PSI-X 2nd QTR-97

319

P51-X





Texaco E & P

205 E Bender Bivo Hobbs NM 88240 505 393 7191 196 DE 73 AM 8 52

GNSER. UN DIVISION

December 11, 1996

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Attention: Mr. David R. Catanach

Re: Request for Increase in Surface Injection Pressure Limits

Texaco Exploration and Production Inc.

West Vacuum Unit

T-17/18-S, R-34-E, Lea County, New Mexico

Dear Mr. Catanach

Texaco requests that the surface injection pressure limit be increased for the following well:

Well No.
West Vacuum Unit No. 56

Observed Surface
Parting Pressure
1856 psig

Requested Permitted Injection Pressure
1800 psig

The step rate test and the results of the teste is attached.

The higher injection limit is requested to obtain more injection and better sweep efficiency in the pattern. If additional information is needed, please contact me at (505) 397-0420.

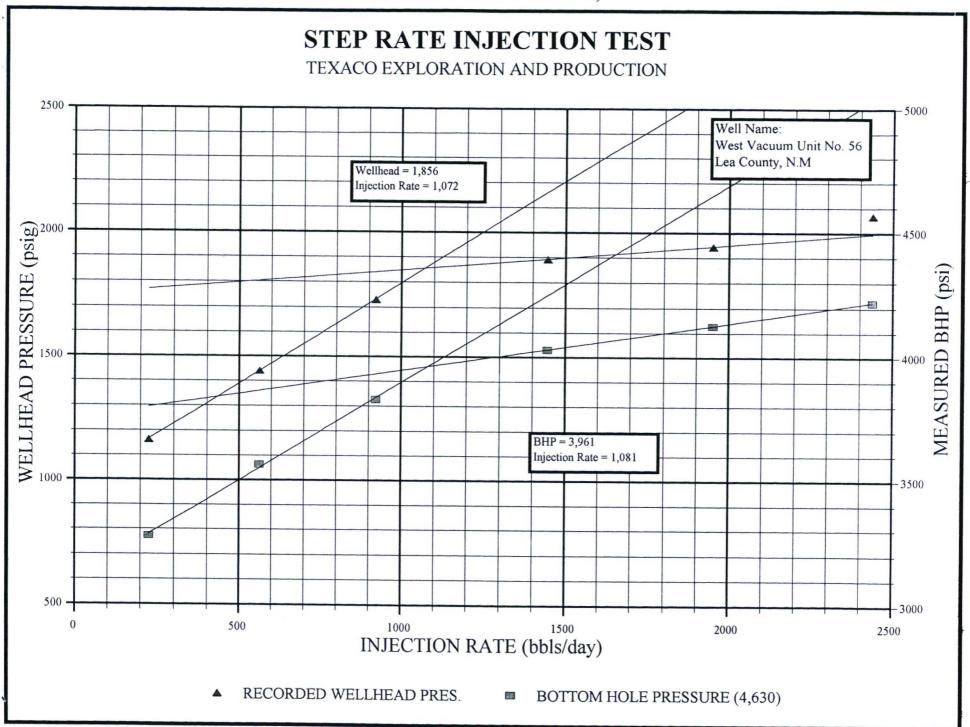
Yours very truly,

James Anderson

Production Engineer

attachments

cc: Mr. Jerry Sexton Hobbs NMOCD R. 434 3345



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT:

TEXACO EXPLORATION AND PRODUCTION

DATE: DECEMBER 3, 1996

WELL NAME: WEST VACUUM UNIT NO. 56

LEA COUNTY, NEW MEXICO

WO#: 96-14-1580

PERFS. = 4560-4698 PACKER DEPTH = 4514

BHP GAUGE DEPTH = 4630

		(1)	(2)	(3)	(4)	(9)	(6)	(7)
STEP NO.		SURFACE	CUMMULATIVE	INJECTION	FRICTION	CORRECTED	INJECTION	MEASURED
8		TUBING PRESS.	VOL INJECTED	RATE	HEAD LOSS	TUBING PRESS.	PATE (gpm)	ВИР
REMARKS	TIME	(psig)	(bbls)	(bbis/day)	(psi)	(psi) (1)(4)	(3)/34.2857	(pai)
	10:05	975.9				975.9		3084.6
	10:10	1069.7	0.9	259.2	1.231	1068.5	7.56	3176.9
	10:15	1102.7	1.7	230.4	0.990	1101.7	6.72	3207.1
	10:20	1116.6	2.5	230.4	0.990	1115.6	6.72	3229.8
	10:25	1131.8	3.2	201.6	0.773	1131.0	5.88	3247.9
	10:30	1148.2	4.0	230.4	0.990	1147.2	6.72	3261.5
1	10:35	1164.7	4.7	201.6	0.773	1163.9	5.88	3275.1
				225.6				
	10:40	1277.5	6.7	576.0	5.393	1272.1	16.80	3385.6
	10:45	1311.7	8.6	547.2	4.905	1306.8	15.96	3432.5
	10:50	1354.7	10.5	547.2	4.905	1349.8	15.96	3467.3
	10:55	1389.0	12.4	547.2	4.905	1384.1	15.96	3506.7
	11:00	1415.6	14.4	576.0	5.393	1410.2	16.80	3538.5
2	11:05	1443.4	16.4	576.0	5.393	1438.0	16.80	3564.2
				561.6				
	11:10	1552.4	19.4	864.0	11.419	1541.0	25.20	3661.1
	11:15	1596.8	22.5	892.8	12.133	1584.7	26.04	3706.5
	11:20	1641.1	25.8	950.4	13.621	1627.5	27.72	3747.4
	11:25	1681.7	29.0	921.6	12.867	1668.8	26.88	3779.2
	11:30	1705.7	32.3	950.4	13.621	1692.1	27.72	3804.9
3	11:35	1732.3	35.6	950.4	13.621	1718.7	27.72	3827.6
				921.6				
	11:40	1826.1	40.6	1440.0	29.380	1796.7	42.00	3912.4
	11:45	1861.6	45.7	1468.8	30.477	1831.1	42.84	3951.8
	11:50	1875.6	50.8	1468.8	30.477	1845.1	42.84	3974.6
	11:55	1902.2	55.7	1411.2	28.303	1873.9	41.16	3997.3
	12:00	1898.3	60.7	1440.0	29.380	1868.9	42.00	4014.0
4	12:05	1894.5	65.7	1440.0	29.380	1865.1	42.00	4030.7
				1444.8		1		

		(1)	(2)	(3)	(4)	(5)	(8)	(7)
STEP NO.		SURFACE	CUMMULATIVE	INJECTION	FRICTION	CORRECTED	INJECTION	MEASURED
8.		TUBING PRESS.	VOL. INJECTED	PATE	HEAD LOSS	TUBING PRESS.	RATE (gpm)	BHP
REMARKS	TIME	(psig)	(eldd)	(bbls/day)	(baj)	(psi) (1)-(4)	(3)/34.2857	(psi)
	12:10	1940.1	72.3	1900.8	49.104	1891.0	55.44	4079.4
	12:15	1935.1	79.1	1958.4	51.892	1883.2	57.12	4096.2
	12:20	1940.1	86.0	1987.2	53.313	1886.8	57.96	4102.3
	12:25	1943.9	92.7	1929.6	50.490	1893.4	56.28	4111.5
-	12:30	1942.6	99.5	1958.4	51.892	1890.7	57.12	4120.6
5	12:35	1946.4	106.3	1958.4	51.892	1894.5	57.12	4129.8
	10:10	0010.1		1948.8				
1 1	12:40	2012.4	114.7	2419.2	76.715	1935.7	70.56	4164.7
	12:45	2025.1	123.3	2476.8	80.128	1945.0	72.24	4183.1
	12:50 12:55	2040.3	131.7	2419.2	76.715	1963.6	70.56	4195.2
		2049.2	140.1	2419.2	76.715	1972.5	70.56	4205.9
6	1:00	2059.4	148.6	2448.0	78.413	1981.0	71.40	4215.1
	1.05	2069.6	157.1	2448.0	78.413	1991.2	71.40	4222.7
FALLOFF	1:06	1923.6		2438.4				
I ALLOIT	1:07	1923.6				1923.6		4192.3
	1:08	1912.2				1927.4		4175.6
	1:09	1900.7	1			1912.2		4161.9
	1:10	1890.6				1900.7		4149.7
	1:15	1843.7				1890.6		4137.6
	1:20	1807.0				1843.7		4088.9
	1.20	1007.0				1807.0		4050.8
	1							
				1				
1								
								1