

April 28, 1998

New Mexico Oil Conservation Division of Hobbs, New Mexico
1000 West Broadway
Hobbs, NM 88240
Attention: Mr. Chris Williams

Re: Request for Increase in Surface Injection Pressure Limits
Texaco Exploration and Production Inc.
West Dollarhide Drinkard Unit
T-24/25-S, R-38-E, Lea County, New Mexico

Dear Mr. Williams:

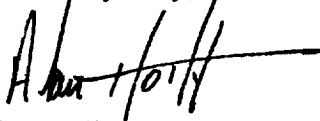
Texaco requests that the surface injection pressure limit be increased for the following wells:

<u>Well No.</u>	<u>Observed Surface Parting Pressure</u>	<u>Requested Permitted Injection Pressure</u>
West Dollarhide Drinkard Unit #146	1573 psig	1520 psig
West Dollarhide Drinkard Unit #151	1665 psig	1615 psig

The step rate tests and the results are 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)397-0424.

Yours very truly,



Alan Holly
Production Engineer

Attachments

Cc: Mr. David Catanach
NMOCD

WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: TEXACO EXPLORATION & PRODUCTION, INC.

DATE: APRIL 15, 1998

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

WO#: 98-14-0629

PERFS = 6365-6514

PACKER DEPTH = 6302

BHP GAUGE DEPTH = 6440

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	9:50	631.2				631.2		3542.9
	9:55	1008.5	1.6	460.8	13.250	995.2	13.44	3890.8
	10:00	1069.7	3.3	489.6	14.823	1054.9	14.28	3977.0
	10:05	1117.1	5.0	489.6	14.823	1102.3	14.28	4030.0
	10:10	1169.6	6.6	460.8	13.250	1156.3	13.44	4069.4
	10:15	1193.3	8.4	518.4	16.476	1176.8	15.12	4101.3
	10:20	1230.8	10.1	489.6	14.823	1216.0	14.28	4130.2
				484.8				
	10:25	1410.6	13.0	835.2	39.815	1370.8	24.36	4266.8
	10:30	1441.9	15.7	777.6	34.884	1407.0	22.68	4294.1
2	10:35	1430.6	18.6	835.2	39.815	1390.8	24.36	4306.2
	10:40	1454.3	21.5	835.2	39.815	1414.5	24.36	4313.8
	10:45	1451.8	24.4	835.2	39.815	1412.0	24.36	4326.0
	10:50	1500.6	27.3	835.2	39.815	1460.8	24.36	4335.1
				825.6				
	10:55	1630.5	31.7	1267.2	86.098	1544.4	36.96	4415.6
	11:00	1650.5	36.2	1296.0	89.753	1560.7	37.80	4426.2
	11:05	1619.2	40.6	1267.2	86.098	1533.1	36.96	4421.6
	11:10	1614.2	45.0	1267.2	86.098	1528.1	36.96	4420.1
	11:15	1616.7	49.4	1267.2	86.098	1530.6	36.96	4418.6
3	11:20	1620.5	53.9	1296.0	89.753	1530.7	37.80	4417.1
				1276.8				
	11:25	1746.6	59.6	1641.6	138.987	1607.6	47.88	4488.5
	11:30	1759.1	65.1	1584.0	130.100	1629.0	46.20	4477.8
	11:35	1744.1	70.9	1670.4	143.532	1600.6	48.72	4476.3
	11:40	1744.1	76.6	1641.6	138.987	1605.1	47.88	4473.3
	11:45	1736.6	82.3	1641.6	138.987	1597.6	47.88	4471.8
	11:50	1734.1	88.0	1641.6	138.987	1595.1	47.88	4465.7
				1636.8				

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
5	11:55	1889.0	94.8	1958.4	192.641	1696.4	57.12	4523.4
	12:00	1885.3	101.6	1958.4	192.641	1692.7	57.12	4520.4
	12:05	1897.0	108.4	1958.4	192.641	1704.4	57.12	4515.9
	12:10	1804.1	115.2	1958.4	192.641	1611.5	57.12	4447.6
	12:15	1799.1	122.0	1958.4	192.641	1606.5	57.12	4440.0
	12:20	1805.4	128.8	1958.4	192.641	1612.8	57.12	4438.4
				1958.4				
	12:25	1930.3	137.3	2448.0	291.093	1639.2	71.40	4465.8
	12:30	1934.0	145.8	2448.0	291.093	1642.9	71.40	4464.2
	12:35	1931.5	154.3	2448.0	291.093	1640.4	71.40	4462.7
6	12:40	1906.5	162.8	2448.0	291.093	1615.4	71.40	4459.7
	12:45	1922.8	171.3	2448.0	291.093	1631.7	71.40	4459.8
	12:50	1907.8	179.8	2448.0	291.093	1616.7	71.40	4456.9
				2448.0				
	12:55	2061.4	189.8	2880.0	393.194	1668.2	84.00	4487.3
	1:00	2065.2	199.8	2880.0	393.194	1672.0	84.00	4485.7
	1:05	2072.7	209.7	2851.2	385.951	1686.7	83.16	4484.2
	1:10	2057.7	219.7	2880.0	393.194	1664.5	84.00	4479.6
	1:15	2053.9	229.8	2908.8	400.499	1653.4	84.84	4478.1
	1:20	2046.4	239.8	2880.0	393.194	1653.2	84.00	4475.0
FALLOFF				2880.0				
	1:21	1434.4				1434.4		4341.4
	1:22	1420.6				1420.6		4330.8
	1:23	1411.9				1411.9		4324.7
	1:24	1406.9				1406.9		4318.6
	1:25	1401.9				1401.9		4314.1
	1:30	1389.4				1389.4		4301.9
	1:35	1381.9				1381.9		4294.3

STEP RATE INJECTION TEST

TEXACO EXPLORATION & PRODUCTION, INC.

Well Name:
West Dollartide Drinkard Unit No. 151
Lea County, New Mexico

