STATE OF NEW MEXICO



BRUCE KING GOVERNOR

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

November 30, 1994

WFX-621 PDEV0020600621

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

Attn: Ms. Darlene de Aragao

RE: Injection Pressure Increase West Dollarhide Drinkard Unit Waterflood Project, Lea County, New Mexico

Dear Ms. de Aragao:

Reference is made to your request dated October 14, 1994 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on October 4, 1994. 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 Dollarhide Drinkard Well No.68 Unit Letter M, Section 32, Township 24 South, Range 38 East	1310 PSIG				
This well located in 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. LeMa

Director

WJL/BES

cc: Oil Conservation Division - Høbbs

Files: WFX-621; PSI-X 4th QTR 94

ma



Texaco E & P

PO Box 730 Hobbs NM 88241-0730 505 393 7191 OIL CONSERVATION DIVISION

RECEIVED

194 OCT 26 AM 8 52

October 14, 1994

New Mexico Oil Conservation Division PO Box 2088 Santa Fe NM 87504

Attn: Mr. David Catanach

Engineer, New Mexico Oil Conservation Division

Re: PRESSURE INCREASE

West Dollarhide Drinkard Unit # 68 M·32-24.34

T-24-S, R-38-E SEC 32 Lea County, New Mexico

Dear David:

Texaco Exploration and Production Inc. requests an increase in the maximum allowable pressure on West Dollarhide Drinkard Unit #68 from 1271 psi to 1393 psi. A step rate injection test was run on October 4, 1994. Results of the test are attached.

If you have any questions concerning this request, please contact me at 397-0424. Thank you for your assistance in this matter.

Yours very truly,

Dal de liraged

Darlene de Aragao Production Engineer

/ddd Chrono Attachments Wfx. 621

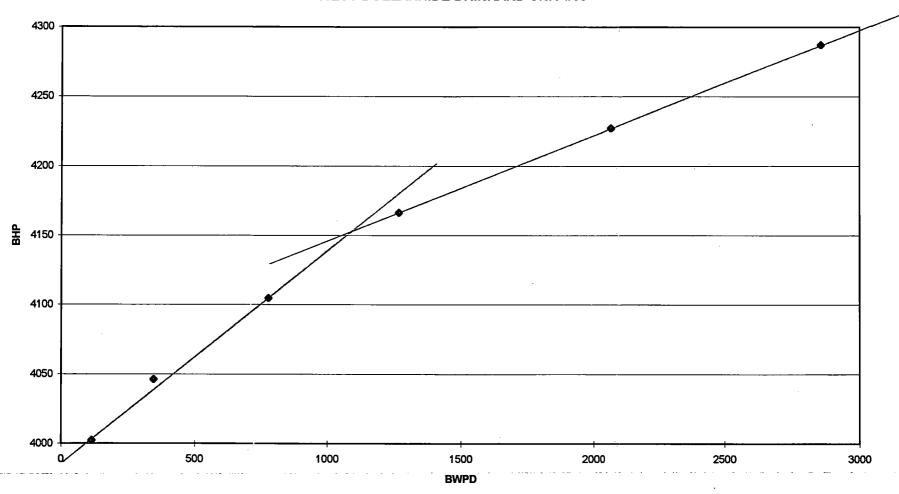
WELL NAME	PRESENT MAXIMUM ALLOWABLE SURFACE PRESSURE	BHFP	STFP	FRICTION *	REQUESTED MAXIMUM ALLOWABLE SURFACE PRESSURE
WDDU 68	1271	4150	1360	33	1393

BHFP=BOTTOM HOLE FRAC PRESSURE STFP=SURFACE TREATING FRAC PRESSURE FLUID GRADIENT=.450 DBG=DEPTH OF BOTTOM HOLE GAGE

STFP=BHFP-(.450xDBG)

*FRICTION PRESSURE CALCULATED
@ 500 BWPD

WEST DOLLARHIDE DRINKARD UNIT #68



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT:

TEXACO EXPLORATION AND PRODUCTION

DATE: OCTOBER 4, 1994

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 68

WO#: 94-14-1741

LEA COUNTY, NEW MEXICO

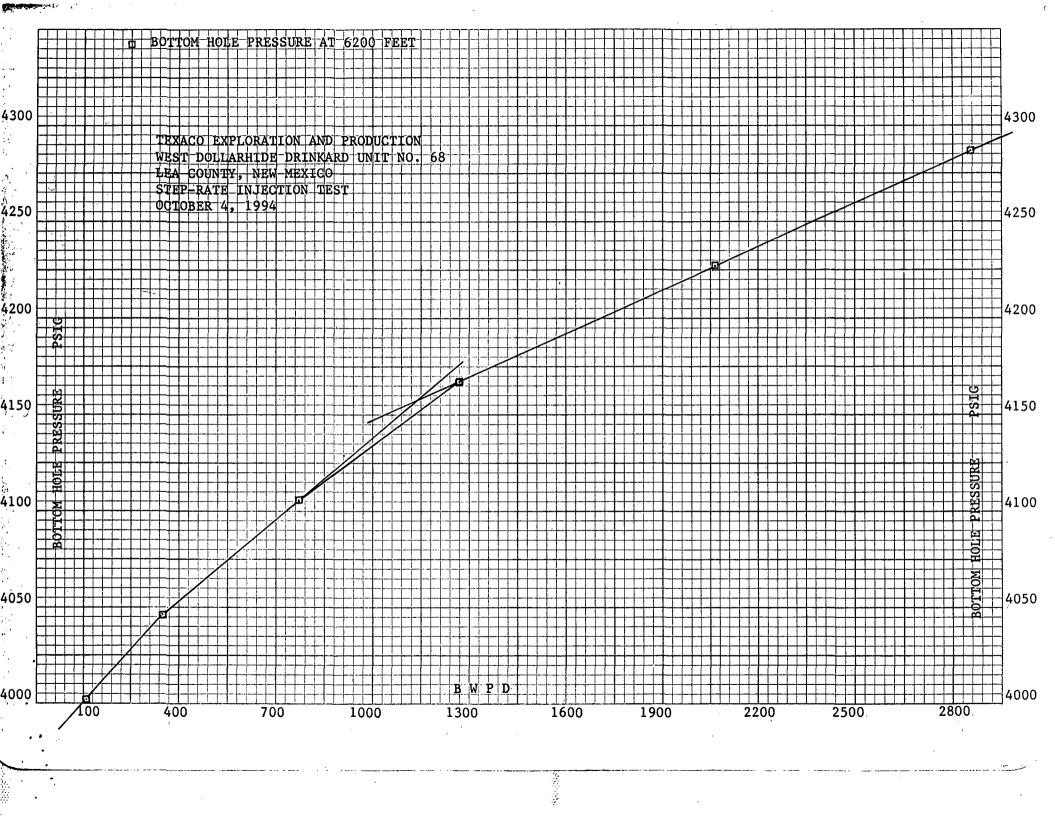
PERFS = 6357-6424 PACKER DEPTH = 6337

BHP GAUGE DEPTH = 6200

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
STEP NO.		SURFACE	CUMMULATIVE	INJECTION	FRICTION	COORCETES.	INJECTION	MEASURED
&		TUBING PRESS.	VOL INJECTED		HEAD LOSS	CORRECTED		BHP
	T-18.8C			RATE		TUBING PRESS.	RATE (gpm)	
REMARKS	TIME	(psig)	(aldd)	(bbls/day)	(baj)	(psi) (1)(4)	(3)/34.2857	(psi)
	8:50	1175.6		ı.		1175.6		3985.1
	8:5Ś	1183.1	0.4	115.2	0.864	1182.2	3.36	3987.5
	9:00	1185.6	0.7	86.4	0.507	1185.1	2.52	3993.3
	9:05	1186.8	1.1	115.2	0.864	1185.9	3.36	3996.
	9:10	1188.2	1.5	115.2	0.864	1187.3	3.36	3996.9
	9:15	1190.8	1.9	115.2	0.864	1189.9	3.36	3997.2
	9:20	1192.0	2.3	115.2	0.864	1191.1	3.36	3998.
	9:25	1193.2	2.7	115.2	0.864	1192.3	3.36	4000.
	9:30	1193.3	3.0	86.4	0.507	1192.8	2.52	4000.
	9:35	1 195.7	3.4	115.2	0.864	1194.8	3.36	4001.
	9:40	1197.0	3.8	115.2	0.864	1196.1	3.36	4001.
	9:45	1197.0	4.2	115.2	0.864	1196.1	3.36	4002.
1	9:50	1:197.0	4.6	115.2	0.864	1196.1	3.36	4002.
				110.4				
	9:55	1232.0	1.2	345.6	6.594	1225.4	10.08	4018.
	10:00	1224.7	2.4	345.6	6,594	1218.1	10.08	4023.
	10:05	1238.4	3.7	374.4	7.647	1230.8	10.92	4026.
	10:10	1237.2	4.9	345.6	6.594	1230.6	10.08	4028.
	10:15	1242.1	6.1	345.6	6.594	1235.5	10.08	4030.
	10:20	1238.4	7.3	345.6	6.594	1231.8	10.08	4033.
	10:25	1232.1	8.6	374.4	7.647	1224.5	10.92	4035.
	10:30	1238.4	9.8	345.6	6.594	1231.8	10.08	4037.
	10:35	1237.1	11.0	345.6	6.594	1230.5	10.08	4038.
	10:40	1235.9	12.2	345.6	6.594	1229.3	10.08	4040.
	10:45	1,238.4	13.4	345.6	6.594	1231.8	10.08	4044.
2	10:50	1238.4	14.6	345.6	6.594	1231.8	10.08	4046.
			Ì	350.4				

		(1)	(2)	(3)	(4)	(5)	(6)	(A)
STEP NO.		SURFACE	CUMMULATIVE	INJECTION	FRICTION	CORRECTED	INJECTION	MEASURED
8		TUBING PRESS.	VOL INJECTED	FATE	HEAD LOSS	TUBING PRESS.	RATE (gpm)	внР
REMARKS	TIME	(psig)	(bbls)	(bbis/day)	(psi)	(psi) (1)-(4)	(3)/34.2857	(PBI)
]							
	10:55	1338.2	17.3	777.6	29.560	1308.6	22.68	4060.9
	11:00	1347.0	20.0	777.6	29.560	1317.4	22.68	4069.5
	11:05	1340.7	22.7	777.6	29.560	1311.1	22.68	4074.7
	11:10	1349.5	25.4	777.6	29.560	1319.9	22.68	4080.5
	11:15	1368.2	28.0	748.8	27.566	1340.6	21.84	4082.9
	11:20	1355.7	30.7	777.6	29.560	1326.1	22.68	4086.9
	11:25	1358.2	33.4	777.6	29.560	1328.6	22.68	4089.9
	11:30	1365.7	36.1	777.6	29.560	1336.1	22.68	4092.8
	11:35	1380.6	38.8	777.6	29.560	1351.0	22.68	4095.7
	11:40	1356.9	41.5	777.6	29.560	1327.3	22.68	4099.4
3	11:45	1381.9 1376.9	44.1 46.8	748.8	27.566	1354.3	21.84	4099.7
3	11.30	1370.9	40.6	777.6 772.8	29.560	1347.3	22.68	4104.8
	11:55	1531.7	51.4	1324.8	79.210	1452.5	38.64	4125.1
	12:00	1561.6	55.6	1209.6	66.941	1494.7	35.28	4133.6
	12:05	1555.4	60.0	1267.2	72.957	1482.4	36.96	4138.6
	12:10	1560.3	64.4	1267.2	72.957	1487.3	36.96	4142.4
	12:15	1577.8	68.8	1267.2	72.957	1504.8	36.96	4147.8
	12:20	1571.6	73.2	1267.2	72.957	1498.6	36.96	4150.5
	12:25	1576.6	77.7	1296.0	76.054	1500.5	37.80	4153.9
	12:30	1590.3	82.1	1267.2	72.957	1517.3	36.96	4155.7
	12:35	1579.1	86.5	1267.2	72.957	1506.1	36.96	4159.9
	12:40	1576.6	90.9	1267.2	72.957	1503.6	36.96	4160.7
	12:45	1586.5	95.3	1267.2	72.957	1513.5	36.96	4162.4
4	12:50	1591.5	99.7	1267.2	72.957	1518.5	36.96	4166.5
			ŀ	1269.6				
	12:55	1965.9	106.9	2073.6	181.445	1784.5	60.48	4186.9
	1:00	1967.1	114.0	2044.8	176.811	1790.3	59.64	4194.0
	1:05	1978.4	121.2	2073.6	181.445	1797.0	60.48	4198.8
	1:10	1975.9	128.4	2073.6	181.445	1794.5	60.48	4203.5
	1:15	1983.4	135.7	2102.4	186.135	1797.3	61.32	4208.2
	1:20	1990.8	142.8	2044.8	176.811	1814.0	59.64	4215.3
	1:25	1990.8	150.0	2073.6	181.445	1809.4	60.48	4217.7
	1:30	1985.8	157.2	2073.6	181.445	1804.4	60.48	4220.1
	1:35	1990.8	164.4	2073.6	181.445	1809.4	60.48	4222.4
	1:40	1989.6	171.6	2073.6	181.445	1808.2	60.48	4224.8
	1:45	1984.6	178.7	2044.8	176.811	1807.8	59.64	4226.1
5	1:50	1994.6	185.8	2044.8	176.811	1817.8	59.64	4227.2
				2066.4				

		(1)	(2)	(3)	(4)	(5)	(6)	M
STEP NO.		SURFACE	CUMMULATIVE	INJECTION	FRICTION	CORRECTED	INJECTION	MEASURED
8 .			VOL INJECTED	RATE	HEAD LOSS	TUBING PRESS.	RATE (gpm)	BHP
REMARKS.	TIME	(paig)	(bbis)	(bbls/day)	(ba)	(psi) (1)-(4)	(3)/34.2857	(jed)
	1:55	2523.3	195.6	2822.4	320.959	2202.3	82.32	4238.6
	2:00	2534.6	205.5	2851.2	327.044	2207.6	83.16	4246.3
	2:05	2548.4	215.5	2880.0	333.181	2215.2	84.00	4255.2
·	2:10 2:15	2529.6 2532.1	225.4 235.3	2851.2 2851.2	327.044 327.044	2202.6 2205.1	83.16 83.16	4261.3 4267.5
	2:10	2525.8	245.2	2851.2 2851.2	327.044	2198.8	83.16	4207.3
	2:25	2525.8	255.1	2851.2	327.044	2198.8	83.16	4274.5
	2:30	2530.8	265.0		327.044	2203.8	83.16	4278.0
	2:35	2544.6	275.0	2880.0	333.181	2211.4	84.00	4280.3
	2:40	2547.1	284.9	2851.2	327.044	2220.1	83.16	4282.3
	2:45	2535.8	294.8	2851.2	327.044	2208.8	83.16	4284.7
6	2:50	2547.1	304.8	2880.0	333.181	2213.9	84.00	4287.3
1.				2856.0				
FALLOFF	2:51	1419.3				1419.3		4256.7
[2:52	1 405.6				1405.6		4250.9
	2:53	1401.8				1401.8		4246.7
	2:54	1.399.3				1399.3		4243.7
	2:55	1,396.8				1396.8		4241.2
	3:00	1386.8				1386.8		4231.9
	3:05	1379.3	,			1379.3		4223.4
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Energy, Minerals and Natural Resources Department Out-of-State Travel Request

1.	Actuals Requestedxx	2.	Date of Request	11-30-94
3.	Name of Person Making Trip <u>william</u>	J. LeMa	iy	
4.	Division Centers	· .		·
5.	Detailed reason for travel To attend	d IOGCC	Meeting (see Att	cached)
				<u> </u>
6.	Starting Point and DestinationSanta			
7.	Date Leaving 12-15-94 Time of De	eparture:	Estimated: 1:30	pm Actual:
8.	Date Return 12-16-94 Time of Ar	rrival:	Estimated: 6:31	pm Actual:
9.	Travel Expenses:	10.	Speedometer Revehicles:	ading for Personal
	a. Plane. \$ b. Rental \$ c. Limousing/Parking/Misc. \$ d. Registration. \$ e. Other \$ f. Personal Car. \$ g. State Car. \$		x	<pre>inning Mileage _ = \$ expenses paid by</pre>
1,1.	Per Diem:			
	Amount	\$	= Rate	No. of days
	Amount	\$ <u>27.50</u>	22.50 Rate	No. of days
12.	Total	. \$	37.25	
13.	Traveler	Ti	tle <u>Division</u> Dire	ector, OCD
14.	Approved	<u> </u>	Approved	·
	Supervisor		Su	pervisor
	Date	_	Date 11-30-94	

Leave SE 11:30 pm 12/15 8:30 pm

PACT COMMISSION

27 ■ Phone: 405/525-3556 ■ Fax: 405/525-3592

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Lands Project

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Ohio

Second Vice Chairman: Charles Nesbitt Oklahoma

RE:

December 16th Meeting

MEMBER STATES: ALABAMA, ALASKA ARIZONA, ARKANSAS. CALIFORNIA, COLORADO, ILLINOIS, INDIANA, KANSAS. KENTUCKY, LOUISIANA, MARYLAND, MICHIGAN, MISSISSIPPI. MONTANA, NEBRASKA NEVADA, NEW MEXICO. NEW YORK, NORTH DAKOTA, OHIO, OKLAHOMA. PENNSYL VANIA SOUTH DAKOTA, TEXAS. UTAH, VIRGINIA, WEST VIRGINIA. WYOMING

ASSOCIATES:

ASSOCIATES:
GEORGIA, IDAHO.
NORTH CAROLINA,
OREGON, SOUTH
CAROLINA, WASHINGTON

Final approval has been received from the Department of Energy for funding of the Public Lands Project. Therefore, the Friday, December 16th meeting in Denver, Colorado, at the Holiday Inn-(Denver Central) Stapleton located at 4040 Quebec Street, will definitely be held from 8:00 a.m. to 5:00 p.m.

There are courtesy phones in the baggage area of the airport to ring for a Holiday Inn shuttle to take you to the hotel. There will be a Continental Breakfast served from 7:00 a.m. to 8:00 a.m. at the meeting room. Lunch will be in the Blue Moose Lounge from noon to 1:00 p.m., with two breaks at the meeting room at 10:15 a.m. and 2:45 p.m.

Please contact Gidget Bullington of the IOGCC staff by no later than December 1, 1994, with your hotel reservation information, as she will make them for you. You will each make your own flight and/or travel arrangements. For airline reservations, please directly contact Jo Twibell of TransWorld Travel, Inc. of Oklahoma City at (405) 755-0906.

A binder of pertinent information will be prepared for you in advance, which you will receive at the December 16th meeting. If you have any graphs, clippings, studies, or any other information you would like to share or discuss with our Core Working Group, please send to Gidget by December 9th to include in the binder or bring 30 copies of the item with you to the meeting.

If you have any questions or concerns regarding the December 16th meeting of the Core Working Group-Public Lands Project, please contact myself or Gidget.

See you soon. United [1:30 pm (1:30 - 2:47)

CH:gb

Refun 12/100 6:31 pm (5:20 - 6:31)