

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:

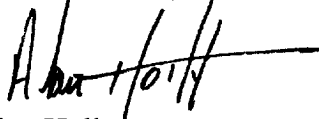
Texaco requests that the surface injection pressure limit be increased for the following wells:

<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 14, 1998

WELL NAME: WEST DOLLARHIDE DRINKARD UNIT NO. 146
LEA COUNTY, NEW MEXICO

WO#: 98-14-0601

PERFS = 6500-6660

PACKER DEPTH = 6455

BHP GAUGE DEPTH = 6580

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	10:25	1166.8				1166.8		4140.2
	10:30	1186.7	1.6	460.8	13.538	1173.2	13.44	4159.6
	10:35	1195.4	3.3	489.6	15.145	1180.3	14.28	4171.3
	10:40	1215.4	5.0	489.6	15.145	1200.3	14.28	4180.1
	10:45	1209.2	6.7	489.6	15.145	1194.1	14.28	4188.1
	10:50	1226.8	8.4	489.6	15.145	1211.7	14.28	4194.5
	10:55	1231.9	10.1	489.6	15.145	1216.8	14.28	4200.6
				484.8				
	11:00	1253.1	12.6	720.0	30.913	1222.2	21.00	4213.5
	11:05	1266.9	15.2	748.8	33.239	1233.7	21.84	4223.1
2	11:10	1268.2	17.8	748.8	33.239	1235.0	21.84	4230.5
	11:15	1278.2	20.4	748.8	33.239	1245.0	21.84	4205.9
	11:20	1279.4	22.9	720.0	30.913	1248.5	21.00	4244.5
	11:25	1299.4	25.4	720.0	30.913	1268.5	21.00	4251
				734.4				
	11:30	1348.2	29.1	1051.2	62.257	1285.9	30.66	4260.9
	11:35	1374.4	32.7	1051.2	62.257	1312.1	30.66	4270.9
	11:40	1386.9	36.3	1036.8	60.689	1326.2	30.24	4285.5
	11:45	1401.9	39.9	1036.8	60.689	1341.2	30.24	4288.1
	11:50	1424.4	43.5	1036.8	60.689	1363.7	30.24	4295
3	11:55	1434.4	47.1	1036.8	60.689	1373.7	30.24	4300
				1041.6				
	12:00	1531.8	52.3	1497.6	119.827	1412.0	43.68	
	12:05	1543.0	57.6	1526.4	124.124	1418.9	44.52	4325
	12:10	1551.8	62.8	1497.6	119.827	1432.0	43.68	
	12:15	1585.5	68.1	1526.4	124.124	1461.4	44.52	4345.5
	12:20	1584.2	73.4	1526.4	124.124	1460.1	44.52	
	12:25	1603.0	78.7	1526.4	124.124	1478.9	44.52	4354.5
				1516.8				

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	12:30	1682.9	85.5	1958.4	196.829	1486.1	57.12	4367.6
	12:35	1706.6	92.4	1987.2	202.217	1504.4	57.96	4379
	12:40	1684.2	99.5	2044.8	213.194	1471.0	59.64	4385.1
	12:45	1672.9	106.5	2016.0	207.672	1465.2	58.80	4390.5
	12:50	1681.7	113.5	2016.0	207.672	1474.0	58.80	4399.8
	12:55	1672.9	120.6	2044.8	213.194	1459.7	59.64	4404.1
				2011.2				
	1:00	1810.3	129.5	2548.8	320.473	1489.8	74.34	4418.1
	1:05	1811.5	138.3	2548.8	320.473	1491.0	74.34	4424
	1:10	1817.8	147.1	2534.4	317.132	1500.7	73.92	4429
6	1:15	1822.8	155.7	2476.8	303.927	1518.9	72.24	4435.5
	1:20	1816.5	164.5	2534.4	317.132	1499.4	73.92	4440.1
	1:25	1825.2	173.3	2534.4	317.132	1508.1	73.92	4445.3
				2529.6				
	1:30	1990.1	183.6	2966.4	424.322	1565.8	86.52	4456.2
	1:35	1988.9	194.2	3052.8	447.469	1541.4	89.04	4461.5
	1:40	2002.6	204.7	3024.0	439.690	1562.9	88.20	4466.7
	1:45	2005.1	215.3	3052.8	447.469	1557.6	89.04	4471.7
	1:50	1992.6	225.9	3052.8	447.469	1545.1	89.04	4475.1
	1:55	2016.3	236.5	3052.8	447.469	1568.8	89.04	4478.3
FALLOFF				3033.6				
	1:56	1489.3				1489.3		4458.8
	1:57	1483.1				1483.1		4455.6
	1:58	1474.3				1474.3		4453.1
	1:59	1471.8				1471.8		4451.5
	2:00	1470.6				1470.6		4449.8
	2:05	1465.6				1465.6		4443.5
	2:10	1460.6				1460.6		4438.5

STEP RATE INJECTION TEST

TEXACO EXPLORATION & PRODUCTION, INC.

Well Name:
West Dollartide Drinkard Unit No. 146
Lea County, New Mexico

