



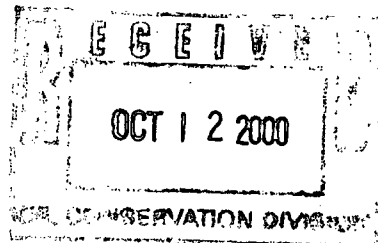
Texaco Exploration and Production Inc
Permian Basin Business Unit
Hobbs Operating Unit

P. O. Box 3109
Midland TX 79702-3019
505 688 4100

1P1-147 N/R
29334545

October 9, 2000

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



Attention: Mr. Mark Ashley

RE: **Request for Increase in Surface Injection Pressure Limit**
Texaco Exploration & Production Inc

Central Vacuum Unit Well No. 242- (30-025-30104) R-5530
(A) Section 36, T 17 S, R 34 E, Lea County, New Mexico, and
Vacuum Grayburg San Andres Unit No. 30
(K) Section 2, T 18 S, R 34 E, Lea County, New Mexico

Dear Mr. Ashley,

Texaco requests permission to inject into the subject wells at a higher pressure than what is currently permitted. Step rate tests were performed on CVU No. 242 on October 3 and on VGSAU No. 30 on October 4.

The test of CVU No. 242 failed to reveal a break in the rate vs. pressure curve up to a surface water injection pressure (corrected for friction losses) of 1461 PSIG. Based on this result we are asking for pressure limits of 1461 psig while injecting water and 1811 psig for CO₂ injection. The higher injection pressure is needed for optimum CO₂ flood efficiency in this pattern. We plan on injecting CO₂ in this well within the next two years.

The test of VGSAU resulted in a break in the rate vs. pressure curve at a surface water injection pressure (corrected for friction) of 2054 PSIG. We ask for an increase in our maximum allowed water injection pressure to 2054 PSIG.

Copies of the test results are attached for your review. Please call me at 915-688-4577 if you would like to discuss this request.

Yours truly,

Stephen Guillot
Production Engineer

Attachments

cc: Mr. Chris Williams, Hobbs NMOCD



Step Rate Injection Test Report
for
Texaco Exploration & Production, Inc.
CVU #242

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Production Testing Services

COMPANY : Texaco Exploration & Production, Inc.
 WELL: CVU #242
 COMPANY REP: Steve Gilliot
 PERFORATIONS:

PACKER DEPTH:

SERVICE DATES : 10/03/00
 TEST TYPE : Step Rate Injection
 PTS TECHNICIANS : D. Ginanni
 BHP GAUGE DEPTH: N/A

DATE	TIME	REMARKS
10/03/00	13:30	Start Injection @ 1200 BPD
10/03/00	13:35	
10/03/00	13:40	
10/03/00	13:45	Increase to 1500 BPD
10/03/00	13:50	
10/03/00	13:55	
10/03/00	14:00	Increase to 1800 BPD
10/03/00	14:05	
10/03/00	14:10	
10/03/00	14:15	Increase to 2100 BPD
10/03/00	14:20	
10/03/00	14:25	
10/03/00	14:30	Increase to 2400 BPD
10/03/00	14:35	
10/03/00	14:40	
10/03/00	14:45	Increase to 2700 BPD
10/03/00	14:50	
10/03/00	14:55	
10/03/00	15:00	Increase to 3000 BPD
10/03/00	15:05	
10/03/00	15:10	
10/03/00	15:15	Increase to 3300 BPD
10/03/00	15:20	
10/03/00	15:25	
10/03/00	15:30	Increase to 3600 BPD
10/03/00	15:35	

Production Testing Services

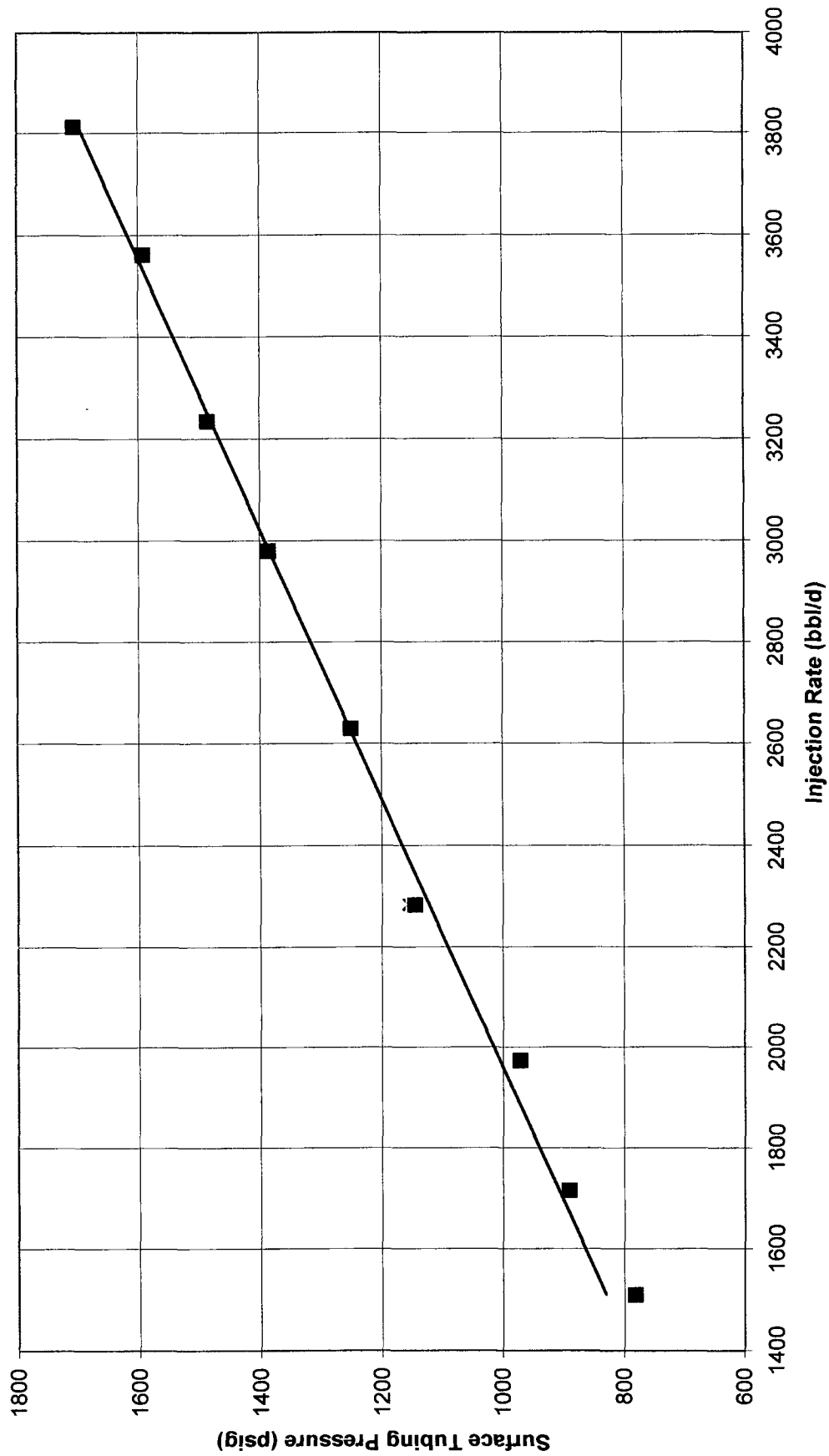
COMPANY : Texaco Exploration & Production, Inc.
WELL: CVU #242
COMPANY REP: Steve Guillot
PERFORATIONS: 4278-4720 O.H. PACKER DEPTH: 4234

SERVICE DATES : 10/03/00
TEST TYPE : Step Rate Injection
PTS TECHNICIANS : D. Ginanni
BHP GAUGE DEPTH: N/A

STEP NO.	TIME	SURFACE TUBING PRESS. (psig)	CUMULATIVE VOL INJECTED (bbbls)	INJECTION RATE (bbbls/day)	FRICTION HEAD LOSS (psi)	CORRECTED TUBING PRESS. (psi) (1) - (4)	INJECTION RATE (gpm) (3)/34 2857	MEASURED BHP (psi)
	13:30	561.8						
	13:35	734.5	4.0	1152.2	26.339	708.1	33.60	
	13:40	747.0	8.1	1167.1	26.973	720.0	34.04	
1	13:45	732.8	12.0	1150.7	26.276	706.5	33.56	
	13:50	774.4	17.0	1423.3	38.940	735.5	41.51	
	13:55	763.1	22.4	1552.0	45.705	717.4	45.27	
2	14:00	781.5	27.8	1554.6	45.846	735.7	45.34	
	14:05	818.1	33.3	1588.5	47.711	770.4	46.33	
	14:10	841.1	39.4	1746.7	56.872	784.2	50.94	
3	14:15	890.0	45.7	1812.9	60.924	829.1	52.88	
	14:20	888.2	52.1	1845.4	62.959	825.2	53.82	
	14:25	948.7	59.0	2009.2	73.689	875.0	58.60	
4	14:30	970.2	66.2	2069.9	77.858	892.3	60.37	
	14:35	1023.6	73.6	2133.4	82.333	941.3	62.22	
	14:40	1093.5	81.8	2355.3	98.872	994.6	68.70	
5	14:45	1144.7	90.0	2363.6	99.517	1045.1	68.94	
	14:50	1208.0	99.1	2616.9	120.148	1087.9	76.33	
	14:55	1227.2	108.3	2635.3	121.711	1105.4	76.86	
6	15:00	1249.5	117.4	2638.3	121.968	1127.5	76.95	
	15:05	1325.1	127.3	2835.5	139.367	1185.7	82.70	
	15:10	1355.7	137.8	3049.4	159.440	1196.3	88.94	
7	15:15	1385.5	148.5	3059.3	160.403	1225.1	89.23	
	15:20	1439.5	159.5	3171.1	171.409	1268.1	92.49	
	15:25	1474.0	170.8	3255.3	179.924	1294.0	94.95	
8	15:30	1484.9	182.2	3278.2	182.272	1302.7	95.61	
	15:35	1550.2	194.5	3546.2	210.795	1339.4	103.43	
	15:40	1570.9	206.9	3574.6	213.927	1356.9	104.26	
9	15:45	1591.4	219.3	3566.5	213.032	1378.4	104.02	
	15:50	1659.2	232.4	3765.9	235.588	1423.6	109.84	
	15:55	1686.5	245.7	3832.3	243.334	1443.1	111.78	
10	16:00	1705.4	259.0	3840.8	244.327	1461.1	112.02	
	16:01	1442.2						
	16:02	1315.5						

Production Testing Services

Step Rate Injection Test



1247 Broadway Pl.
P.O. Box 7125
Hobbs, NM 88240

Phone: (505) 391-8703
Fax: (505) 393-4753