STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87504 I5051 827-5800

May 23, 1991

Texaco USA, Inc. P.O. Box 730 Hobbs, NM 88240

Attention: R. J. Ryan

RE: Injecti

Injection Pressure Increase State "AA" SWD Well No. 1 Lea County, New Mexico

Dear Mr. Ryan:

Reference is made to your request dated April 30, 1991, to increase the surface injection pressure on the State "AA" SWD Well No. 1. This request is based on a step rate test conducted on the well on February 2, 1991. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on the well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

WELL AND LOCATION

MAXIMUM INJECTION SURFACE PRESSURE

State "AA" SWD Well No. 1 Unit I, Section 35, T-21 South, R-34 East, NMPM, Lea County, NM. 950 PSIG

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

cc:

Oil Conservation Division - Hobbs

File: Case 6606

R. Brown D. Catanach

NO WAITING PERIOD

COMPANY: Texaco USA	
ADDRESS: 20. Box 730	
CITY, STATE, ZIP: Hobbo. N.M. 88	22/ 0
ATTENTION: R. J. Ryan	<u> </u>
Re:	Injection Pressure Increase State "AA" Swo Well No. 1
	hea County, New Mexico
Dear Sir:	
Reference is made to your request dated increase the surface injection pressure / This re	on En trais 144 Swith Well it.
test conducted on the well on february of the test have been reviewed by my stinjection pressure on the well is justi	aff and we feel an increase in fied at this time.
You are therefore authorized to increas pressure on the following well:	e the surface injection
Well & Location	Maximum Injection Surface Pressure
State "AA" SWD WILL No. 1 Unil I, Sectur 35, T-21 Soith, R-3/End, Noman	950 PS16
Loca County, New Mexico	
The Division Diverton was versind this	inioghion puogguus inguese if

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.

2 Brown

xc: T- GALLEGOS

D. CATANACH FILE- Use Class OCD- Abba



20 304 77 Hbbs NW 364 10 505 390 77 CIL CONSER NO DIVISION

'91 MAY 3 AM 9 05

April 30, 1991

Mr. David R. Catanach State of New Mexico Energy, Minerals and Resources Department Oil Conservation Division P.O. Box 2088 Sante Fe, NM 87504

Re: State AA SWD No.1

Section 35, T21S, R34E, NE/4 SE/4

Dear Mr. Catanach:

This letter is in response to your notice (Attachment I) concerning salt water disposal operations on the captioned lease. The attachment documents the results of a bradenhead survey recently conducted on the subject well (12-12-90). During the test, a NMOCD representative witnessed injection pressures (900 psi) in excess of the approved limit (750 psi). The stated limit was set forth by Division Order R-6080.

In order to remain in compliance with the stated order, Texaco has subsequently installed a "kill-switch" which effectively limits the system to approved operating pressures.

In a concurrent effort to justify an increased pressure limit, Texaco performed a step rate test on February 2, 1991. Advance notice of the test was given to the Hobbs District Office prior to this date. The results of this test are given in Attachment II. On the basis of the results that were obtained, Texaco respectfully requests increasing the injection pressure limit to 950 psi (60 psi below the observed parting pressure).

Your prompt attention to granting this request would be greatly appreciated. If any further questions may arise, please feel free to contact me at (505)397-0425.

Sincerely,

Pg. Ba

R.J. Ryan

Production Engineer

Hobbs Area

Attachment I

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GARREY CARRUTHERS

December 27, 1990

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

Texaco Producing Inc. P. O. Box 730 Hobbs, New Mexico 88241-0730

Re: State AA SWD #1-I, Sec 35, T21S, R34E

Gentlemen:

The Oil Conservation Division recently witnessed a bradenhead test on the above referenced well.

The injection pressure was 900 psi when running and according to Division Order R-6080, the injection pressure is not to exceed 750 psi.

We request that you curtail the injection pressure to conform to the approved limit.

If you feel an approved pressure increase is justified, you may wish to conduct a step rate test and request the limit be increased.

If you choose to go with this procedure, we request that you notify this office 24 hours prior to the test.

The step rate test with a letter requesting the increase should be sent to the OCD office in Santa Fe with a copy to be sent to this office. Mr. Sexton will evaluate the information on the test and send a recommendation to the Examiner in Santa Fe.

We are enclosing a copy of the test sheet for your information.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton

Supervisor, District I

JS:bp

cc: William J. LeMay

File

Encl.

NEW MEXICO DIL CONSERVATION DIVISION CASING--BRADENHEAD TEST

		INGBRA	ADENHEAD TI	EST	
OPERATOR: TEXACO LFASE: STATE A FUOL: YATES FOOTAGE 660-E FOOTAGE 1980-S ORDER NO.R-6080	SECTION PRESS LMT	750	TYPE LEAS DATE INJ.	UNIT LTR WN 21 S E . BEGAN	WELL # 1 1 5 RANGE 34 E TYPE WELL S
TEST DATE13-Dec- OFERATOR REF: CASING SIZE SURFACE 8 5/8	BB TEST TYPE JOE SET AT	EHT TOP CMT	PASS/FAIL OCD REP:	HSD4 SMITH	
INTERM-1 .	•	•		> 	•
INTERM-2 .	ě	•	•	> •	•
PROD 5 1/2	3822	0	850SX	> •	•
LINER .	•	•		72	WTR WON'T BLOW DOW
TUBING 2 3/8 IF WELL IS ON V. CSG: VAC: REMARKS: PRESS REPAIR LETTER D	ACUUM: SI JUM . IBG & CSG RISE ATE 15-Dec-88	.STATIC S TOGET	MIN. HER DATE	TBG FRESS APPROX. HRS REPAIR	SNC NO
TEST DATE29-Nov OFERATOR REP: CASING SIZE SURFACE 8 5/8	-89 TEST TYPE JOE SET AT	BHY TOP CMT	PASS/FAIL	BS04 SADLER FRESSURE	REMARKS
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INTERM-2 .	•	•		> .	•
PROD 5 1/2	3822	Ø	85ØSX	> .	•
LINER .	•	•	•	Ø	•
REMARKS: 5/24/9 REPAIR LETTER D	ACUUM: S UUM . Ø RIG UP TO R ATE .	.STATIC EPAIR	DATE	REPAIR	S/DAY WELL . SNC NO
TEST DATE /1-19	90 TEST TYPE	1377	PASS/FAI		
OPERATOR REP:_	JOHNNY	· ······	OCD REP:	LYLE	
CASING SIZE SURFACE 8 5/8	SE I 'A I 240		CEMENTED		REMARKS
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INTERM-2 .	•	•	•		
FROD 5 1/2	3822	: 0	850SX	> <u>0</u>	The state of the second of the
LINER .	•		•		Net Ing
TUBING 2 3/8	3747	PKR			INT. 150 C.L.
IF WELL IS ON V	ACUUM: S	st	_MIN.		• •
CSG: VACUUM	1	STATIC		APPROX. HR	SIDAY WELL 44 HOS AUTO
REMARKS: REPAIR LETTER 1	ATE		TE REFAIRE		USED SNC

Attachment II

STEP RATE TESTERS, INC.

915/366-3409 P. O. Box 13094 ODESSA, TEXAS 79768

No.			
I TU.	 _	 	

ADDRESS		The etate	3 r d a	
WELL # / 5	WD LEASE BEN SE	Tty STATE :	T215 R34E	E1S4
	·			
WELL FILE DATA:	ACVEDO @ ? DED	re ? AH	- 2823- 412	2_
TRG ID 23/1	ACKERS @ PER TBG. COATING	DEPTH SN	BHP @ 3	825'
100. 10	444	DLI III OII	DIII 😢 _ 	
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RATEO	BWPD PRES. 2180	PSIG. CUMULA	ATIVE	BBLS.
INCREMENTS:	2070	5010 6785 11		
RATE	BWPD PRES	PSIG. SIEP LI	NGIH	MINS.
TOT DECIDE.	IFACE WITH PRICION	945 20	. *	
LODMATION DADLING	POINT BHP - 273	B poir a la	, DIAIDA	
FURMATION PARTING	PUINI _NIII = -733		RMLD	
	PRESSURE		PRESSURE	PRESSURE
RATE BWPD	SURFACE PSIG.		MINUS FRICTION PSIG.	BOTTOM HOL PSIG.
A	444		1114	212
200			444	
200	444		606	234
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200 400 600 800 1000	605 250 929 1037		606 754 923 /012	218 234 249 265 274 278
200 400 600 800 1000	605 250 929 1037		606 754 923 /012	234
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OIL CONSERS - WN DIVISION ATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

HOBBS DISTRICT OFFICE
May 3, 1991

BRUCE KING

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88240 (505) 393-6161

OIL CONSERVATION DIVISON
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

I have examined the step rate test for the:

| Texaco Inc. | State AA SWD #1-I | | 35-21-34 | | | |
|--|-------------------|------|----------|--|--|--|
| Operator | Lease & Well No. | Unit | S-T-R | | | |
| and my recommendations are as follows: | | | | | | |
| OR | | | | | | |

Very truly yours

Jerry Sexton

Supervisor, District I

/bp