SWD-437 PDEV0020900437

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

November 30, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Attention: Darrick Stallings

RE: Injection Pressure Increase, Roy "AET" Well No. 3, Section 7, Township 19

South, Range 25 East, Eddy County, New Mexico

Dear Mr. Stallings:

Reference is made to your request dated November 3, 1993 to increase the surface injection pressure on the above referenced well. This request is based on a step rate tests conducted on this well on October 21, 1993. 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 Injection Surface Pressure		
Roy "AET" Well No. 3 Unit P, Section 7, Township 19 South, Range 25 East	2600 psig		
This well located in Eddy County, New	w 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. LeMay

Director

WJL/BES/amg

cc: Oil Conservation Division - Artesia

File: PSI-X Ath Quarter 2nd

SWD-437

NO WAITING PERIOD

COMPANY:

YATES PETROLEUM CORPORATION

ADDRESS:

105 South Fourth Street

CITY, STATE, ZIP:

Artesia, New Mexico 88210

ATTENTION:

Mr. Darrick Stallings

RE:

Injection Pressure Increase

Roy "AET" Well No.3 Section 7-T19S-R25E Eddy County, New Mexico

Dear Sir:

Reference is made to your request dated November 3, 1993, to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on this well October 21, 1993. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

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

Well & Location

Maximum Injection Surface Pressure

Roy "AET" Well No.3 Unit Letter "P", Section 7-T19S-R25E Eddy County, New Mexico 2600 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

WJL/BES/

xc:

OCD - Artesia

FILES: PSI-X 4th Qtr.93; SWD-437

MARTIN YATES, III RECEIVED PETROLEUM
FRANK W. YATES 3 NOT 8 PM 8 48 CORPORATION

105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

November 3, 1993

Mr. William J. LeMay, Director New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504

Re: Request for Injection Pressure Limit Increase SWDW Roy "AET" #3, P-7-19S-25E

Dear Mr. LeMay:

The Roy "AET" #3 is limited to a wellhead injection pressure of 1950 psi by Administrative Order No. SWD-437 dated August 16,1991. A step-rate test was conducted on October 21, 1993 on this well. The test was witnessed by Mr. Mike Stubblefield of the Artesia NMOCD office. The test was conducted by John West Engineering Company with assistance from Halliburton Energy Services.

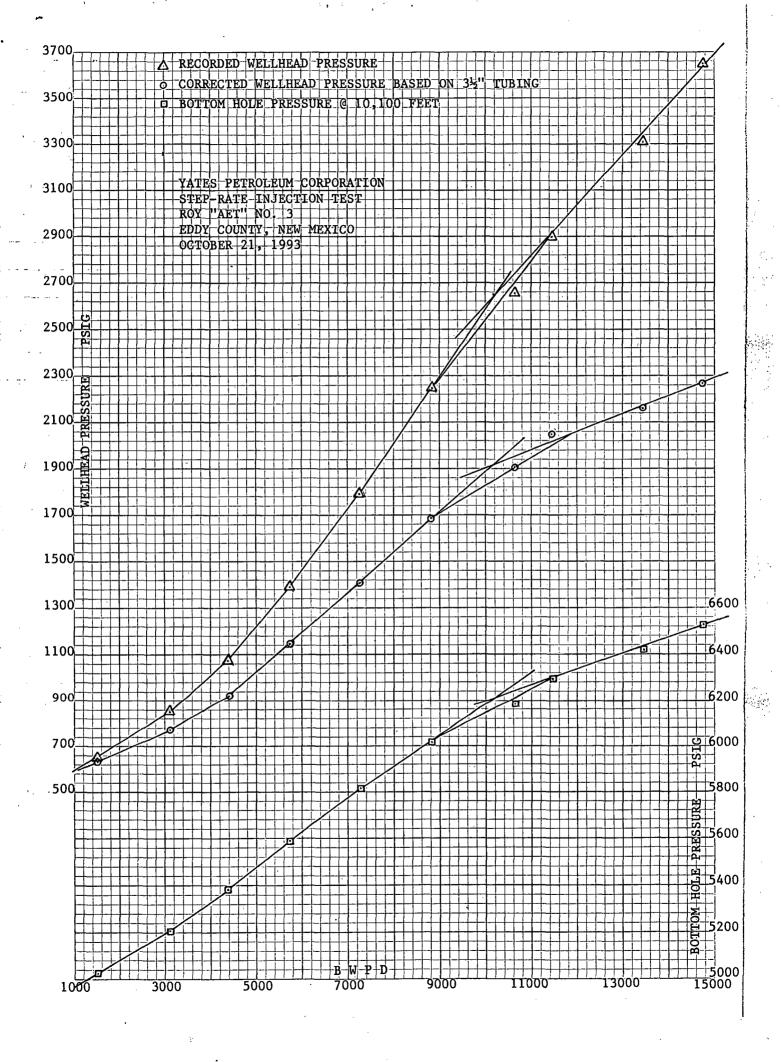
The step-rate test indicates parting pressure was reached at surface injection pressure of 2650 psi. A copy of the test is attached. As provided for under NMOCD Rule 704-C, Yates Petroleum respectfully requests that the injection pressure limit for our SWDW Roy "AET" #3 be increased to 2650 psi.

Sincerely.

2600

Darrick Stallings
Petroleum Engineer

xc: Mr. Mike Williams, Artesia NMOCD office



JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: YATES PETROLEUM CORPORATION

DATE: OCTOBER 21, 1999

WELL NAME ROY "AET" NO. 8

EDDY COUNTY, NEW MEXICO

WO#: 99-14-1989

MID-PERFS. > 9768-11110

PACKER DEPTH: 9692 BHP GAUGE DPT 1: 10100

		(1)	(2)	(a)	(4)	(#)	(6)	(7)
STEP NO.		BUHFACE	CUMMULATIVE	MJEOTION	FBIC FION	COMMICTED	MECTON	MEASURED
ä		TUHING PHESS	VOL. INJECTED	HATE	HEAD LOSS	TURING PRESS	HATE (gpm)	8949
REMARKS	TIME	(psig)	(eidd)	(bbis/day)	(p.e/)	(p=0) (1)-(4)	(8)/34.2857	(p#)
			!					
	9:40	501.4				501.4		4883
	9:45	61 6.3	4.9	1411.2	17.867	598.4	41.16	4972
	9:50	631.7	10.2	1526.4	20.658	611.0	44.52	5002
1	9:55	650.8	15.9	1641.6	23.635	627.2	47.88	5023
				1526.4				
	10:00	802.9	26.4	3024.0	73.179	729.7	88.20	51 30
	10:05	842.5	37.3	31 39.2	78.420	764.1	91.56	51 76
2	10:10	857.8	48.3	31 68.0	79.756	778.0	92.40	5207
				3110.4				
	10:15	1022.7	63.3	4320.0	141.565	881.1	126.00	5310
	10:20	1043.2	78.7	4435.2	148.628	894.6	129.36	5353
3	10:25	1072.6	94.1	4435.2	148.628	924.0	129.36	5385
				4396.8				
	10:30	1292.9	114.5	5875.2	250.037	1042.9	171.36	5493
	10:35	1342.7	134.0	5616.0	230.013	1112.7	163.80	5548
4 .	10:40	1386.2	154.0	5760.0	241.042	1145.2	168.00	5589
·				5750.4			•	İ
	10:45	1656.3	179.3	7286.4	372.358	1283.9	21 2.52	5706
	10:50	1738.2	204.2	7171.2	361.540	1376.7	209.16	5765
5	10:55	1791.9	229.9	7401.6	383.322	1408.6	21 5.88	5816
				7286.4				
	11:00	2090.3	259.7	8582.4	504.067	1586.2	250.32	5914
	11:05	21 83.8	290.2	8784.0	526.190	1657.6	256.20	5968
6	11:10	2249.1	321.6	9043.2	555.274	1693.8	263.76	6015
				8803.2				:
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	11:20	2643.0	395.0	10310.4	707.736	1935.3	300.72	61 49
7	11:25	2657.1	432.1	10684.8	756.014	1901.1	311.64	61 83
				10608.0				j

8 11:35 2875.5 512.0 11404.8 852.951 2022.5 3 11:40 2898.6 551.4 11347.2 844.998 2053.6 3 11:45 3325.0 597.7 13334.4 1138.971 2186.0 3 11:50 3384.4 645.4 13737.6 1203.502 2160.9 4 9 11:55 3307.0 691.8 13363.2 1143.526 2163.5 3 12:00 3641.0 742.8 14686.0 1362.049 2279.0 4 12:05 3695.1 794.8 14803.2 1381.878 2313.2 4	nger), samen ern, mangungappen bilinghingi
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