



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

February 9, 1998

SWD-579
PDEV0020900579

Merit Energy Company
12222 Merit Drive, Suite 1500
Dallas, Texas 75251

Attn: Ms. Martha J. Rogers

**RE: Injection Pressure Increase,
Government 'D' Well No.1,
Eddy County, New Mexico**

Dear Ms. Rogers:

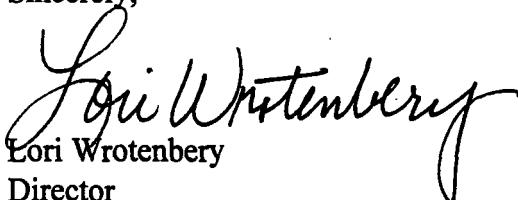
Reference is made to your request dated January 6, 1998 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on December 8, 1997. The results of the test have been reviewed by my staff and we feel an increase in injection pressure 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
Government 'D' Well No.1	632 PSIG
Located in Section 12, Township 21 South, Range 27 East, Eddy 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,


Lori Wrotenbery
Director

LW/BES

cc: Oil Conservation Division - Artesia
Files: SWD-579; PSI-X 2nd QTR98

3rd

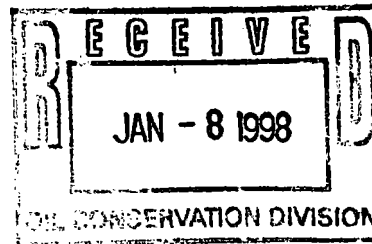
PSI-X N/R

MERIT ENERGY COMPANY

12222 MERIT DRIVE, SUITE 1500
DALLAS, TEXAS 75251
(972) 701-8377
(972) 960-1252 Fax

January 6, 1997

**State of New Mexico
Oil and Gas Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87504**



Attn: Mr. Ben Stone

**RE: Request to Increase Maximum Authorized Injection Pressure
Government "D" #1
Sec. 12-T21S-R27E
Eddy County, New Mexico**

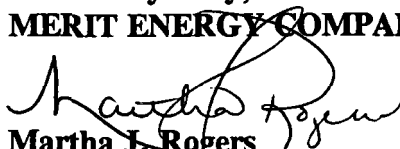
Dear Mr. Stone:

Merit Energy Company respectfully request permission to increase the injection pressure on the above disposal well from 560 psig to 682 psig.

Enclosed please find our Step Rate Test and supporting details of same.

Should you need additional information, please contact me at 972-383-6558.

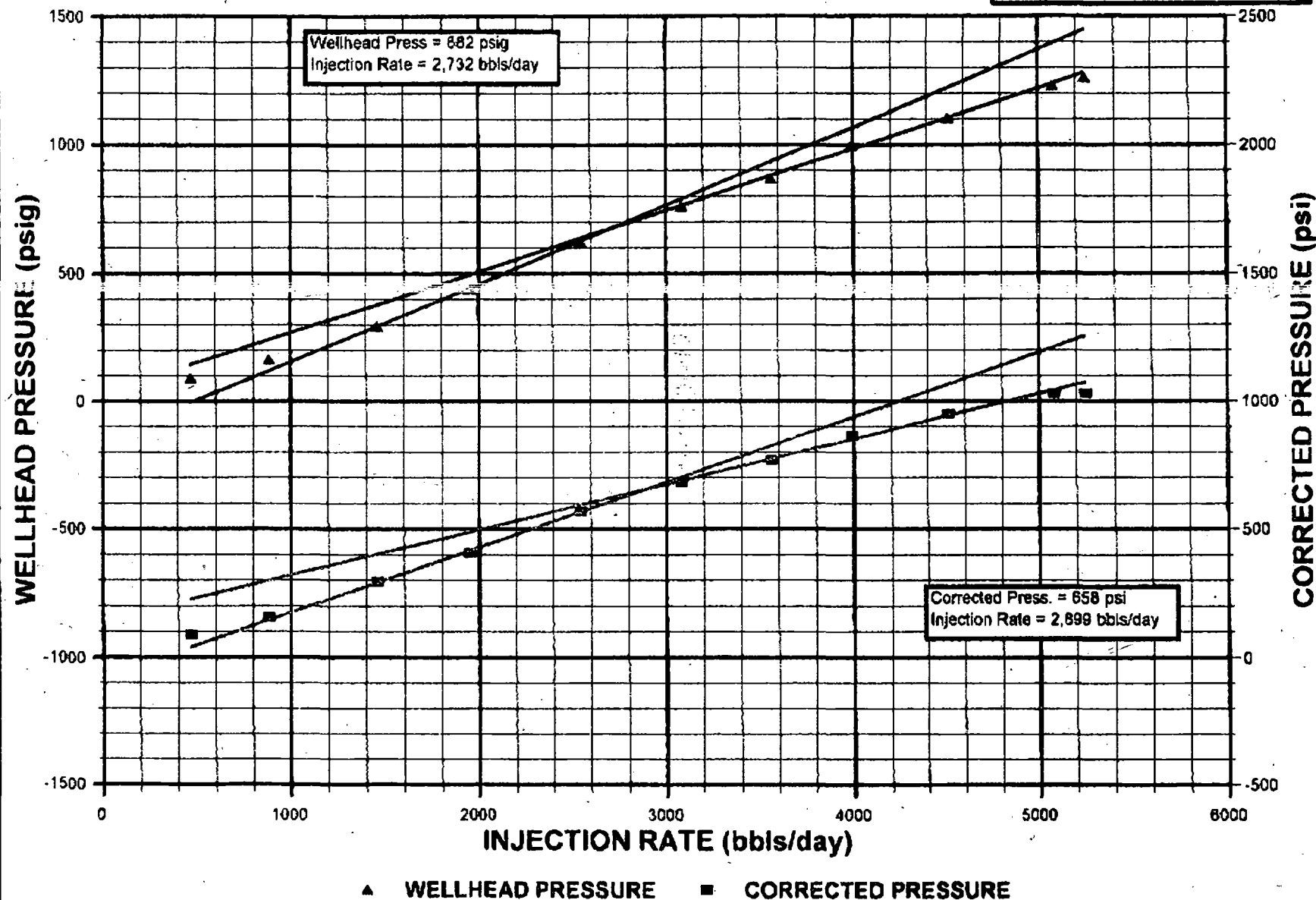
**Yours very truly,
MERIT ENERGY COMPANY**


**Martha J. Rogers
Manager, Regulatory Affairs**

STEP RATE INJECTION TEST

MERIT ENERGY COMPANY

Well Name:
Government Dac No. 1
Eddy County, New Mexico



WEST-TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: MERIT ENERGY COMPANY

DATE: DECEMBER 8, 1997

WELL NAME: GOVERNMENT DAC NO. 1
EDDY COUNTY, NEW MEXICO

WO#: 97-14-2001

PERFS = 2838-3802

PACKER DEPTH = 2815

BHP GAUGE DEPTH = SURFACE ONLY

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAT LOSS (°F)	(5) CORRECTED TUBING PRESS. (psig) (1)-(4)	(6) INJECTION RATE (gpm) (3)/24.2857	(7) MEASURED BHP (psig)
	9:00	40.9				40.9		
	9:05	76.2	1.7	489.6	2.605	73.6	14.28	
	9:10	85.0	3.3	460.8	2.329	82.7	13.44	
1	9:15	92.5	4.9	460.8	2.329	90.2	13.44	
				470.4				
	9:20	138.1	7.8	835.2	3.998	131.1	24.36	
	9:25	152.0	11.1	950.4	3.888	143.1	27.72	
2	9:30	165.9	14.1	864.0	7.451	158.4	25.20	
				883.2				
	9:35	254.7	18.7	1324.8	13.430	238.3	38.64	
	9:40	279.7	24.1	1555.2	22.104	251.6	45.36	
3	9:45	296.5	29.3	1497.6	20.613	275.9	43.68	
				1459.2				
	9:50	382.8	35.7	1843.2	30.267	352.5	53.76	
	9:55	418.3	43.0	2102.4	33.608	379.7	61.32	
4	10:00	441.1	49.6	1900.8	32.040	409.1	55.44	
				1948.8				
	10:05	559.1	58.3	2605.6	53.413	505.7	73.08	
	10:10	593.4	67.2	2563.2	55.706	537.7	74.76	
5	10:15	626.4	76.1	2563.2	55.706	570.7	74.76	
				2544.0				
	10:20	684.8	86.6	3024.0	73.637	609.2	88.20	
	10:25	736.8	97.4	3110.4	75.683	657.1	90.72	
6	10:30	763.4	108.2	3110.4	75.683	683.7	90.72	
				3081.6				
	10:35	844.6	121.0	3686.4	100.112	735.5	107.52	
	10:40	844.6	133.0	3456.0	93.832	747.8	100.80	
7	10:45	871.2	145.3	3542.4	101.358	769.8	103.32	
				3561.6				

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAT LOSS (- ft)	(5) CORRECTED TUBING PRESS. (psig) (1) - (4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psig)
8	10:50	960.1	158.9	3916.8	122.062	838.0	114.24	
	10:55	980.4	172.7	3974.4	125.403	855.0	115.92	
	11:00	998.1	186.9	4089.6	132.211	865.9	119.28	
9				3993.6				
	11:05	1074.2	203.2	4694.4	170.640	903.6	136.92	
	11:10	1084.3	218.5	4406.4	151.779	932.5	128.52	
10	11:15	1107.1	233.9	4435.2	158.619	953.5	129.36	
				4512.0				
	11:20	1221.2	251.2	4982.4	190.510	1030.7	145.32	
11	11:25	1226.2	268.9	5097.6	198.739	1027.5	148.68	
	11:30	1235.1	286.8	5155.2	202.914	1032.2	150.36	
				5078.4				
FALLOFF	11:35	1284.5	302.8	4608.0	164.875	1119.6	134.40	
	11:40	1316.2	322.1	5558.4	236.246	1083.0	162.12	
	11:45	1266.8	341.5	5587.2	235.487	1031.3	162.96	
				5251.2				
	11:46	797.4				797.4		
	11:47	778.4				778.4		
	11:48	767.0				767.0		
	11:49	756.0				756.0		
	11:50	747.9				747.9		
	11:55	712.4				712.4		
	12:00	685.7				685.7		

Santa Fe
San Stone