



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

February 13, 1991

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

Phillips Petroleum Company
4001 Penbrook, Room 401
Odessa, TX 79762

Attention: Larry Sanders

*RE: Injection Pressure Increase
San Juan 29-6 Unit Well No. 301
San Juan County, New Mexico*

Dear Mr. Sanders:

Reference is made to your request dated November 29, 1990, to increase the surface injection pressure on the San Juan 29-6 Unit Well No. 301. This request is based on a step rate test conducted on the well on November 29, 1990. 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

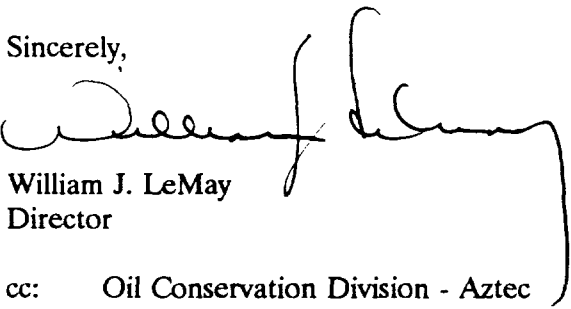
MAXIMUM INJECTION
SURFACE PRESSURE

San Juan 29-6 Unit Well No. 301
Unit P, Section 2, Township 29 North,
Range 6 West, NMPM, San Juan County,
New Mexico.

2100 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 - Aztec
File: SWD-409
D. Catanach
R. Brown

Entrada and Bluff Step Rate Test
San Juan 29-6 #301
11/29/90

<u>Rate</u> <u>BPM</u>	<u>Measured Csg</u> <u>Inj. Press.</u> <u>psi</u>	<u>Hydrostatic</u> <u>Pressure</u> <u>psi</u>	<u>Csg Friction</u> <u>Pressure</u> <u>psi</u>	<u>Bottomhole</u> <u>Injection</u> <u>Press,psi</u>	<u>Tbg.</u> <u>Fric.</u> <u>psi</u>	<u>Calc. 3-1/2</u> <u>Tubing Inj.</u> <u>Press,psi</u>
0	460	3703	0	4163	0	460
1.1	476	3703	<1	4179	25	501
2.0	488	3703	1	4190	77	564
3.0	498	3703	3	4197	163	658
4.1	512	3703	7	4208	290	795
6.0	554	3703	13	4244	584	1125
8.0	648	3703	23	4328	992	1617
9.0	732	3703	29	4406	1232	1935
10.0	806	3703	35	4474	1496	2267
11.0	860	3703	42	4521	1783	2601
12.0	928	3703	49	4582	2093	2972
13.0	994	3703	57	4640	2425	3362
14.0	1056	3703	66	4693	2779	3769
15.0	1128	3703	75	4756	3156	4209
16.0	1216	3703	84	4835	3554	4686
17.2	1290	3703	96	4897	4059	5253

Top Perf. 8474'

50-2000 - Bluff
10% Entrada

R A Allred
R. A. Allred

Drilling Supervisor
(Title)

1-11-91
(Date)

2100 psi

RECEIVED
JAN 14 1991
OIL CON. DIV.)
DIST. 3

Entrada and Bluff Step Rate Test

San Juan 20-8 Unit No. 301

11/20/90

