STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

January 12, 1990

Mobil Producing Texas & New Mexico, Inc.
P.O. Box 633
Midland, TX 79702

Attention: M.E. Sweeney

RE: Injection Pressure Increase
North Vacuum Abo Unit
Lea County, New Mexico

Dear Mr. Sweeney:

Reference is made to your request dated December 1, 1989, to increase the surface injection pressure on seven wells within the North Vacuum Abo Unit Pressure Maintenance Project. This request is based on step rate tests conducted on these wells on during November, 1989. 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 wells.

WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
NVAU Well No. 112 Unit D, Section 25	4051 PSIG
NVAU Well No. 121 Unit L, Section 13	3851 PSIG
NVAU Well No. 129 Unit B, Section 23	4370 PSIG
NVAU Well No. 139 Unit L, Section 14	3750 PSIG

NVAU Well No. 143 Unit B, Section 27	4050 PSIG
NVAU Well No. 146 Unit B, Section 14	3850 PSIG
NVAU Well No. 149 Unit J, Section 27	3900 PSIG

All in Township 17 South, Range 34 East, NMPM, Lea 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,

William J. LeMay
Director

cc: Oil Conservation Division - Hobbs
File: PMX-138
PMX-140
WFX-557
T. Gallegos
D. Catanach

Mobil Exploration & Producing U.S. Inc.

April 4, 1990

P.O. BOX 633
MIDLAND, TEXAS 79702

MIDLAND DIVISION

State of New Mexico
Oil Conservation Division
310 Old Santa Fe Trail, Rm. 206
Santa Fe, New Mexico 87503

Attention: Mr. W. J. LeMay

INJECTION PRESSURE INCREASE REQUEST
NORTH VACUUM ABO FIELD
NORTH VACUUM ABO UNIT
WELL NO'S. #152
LEA COUNTY, NEW MEXICO

Gentlemen:

Under the provisions of Order No. PMX-140 dated March 7, 1986, permission was granted to inject water into the Abo formation for the subject wells. The order limited the pressure on the injection wells to no more than 0.2 psi. per foot to the uppermost injection interval. A step-rate test for these wells has been completed which shows that higher pressure will not result in migration of the injected fluid from the Abo formation. Permission is requested to increase the injection pressure as follows:

	INJECTION INTERVALS	PRESENT SURFACE INJECTION PRESSURE LIMIT	REQUESTED SURFACE INJECTION PRESSURE LIMIT
WELL NO. 152 UNIT B, SEC. 13 T-17-S, R-34-E Order No. PMX-140	8535-8595'	3420 psig	3960 psig

A:M931148A.JWD

Enclosed are copies of the Step-rate test.

Yours very truly,

G. N. Miller
Environmental, Regulatory and
Loss Prevention Supervisor

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico, Inc.

JWDixon
Attachments
cc: District Director OCD - Hobbs

Enclosed are copies of the Step-rate test.

Yours very truly,

G. N. Miller
Environmental, Regulatory and
Loss Prevention Supervisor

Mobil Exploration & Producing U.S. Inc.
as Agent for
Mobil Producing Texas & New Mexico, Inc.

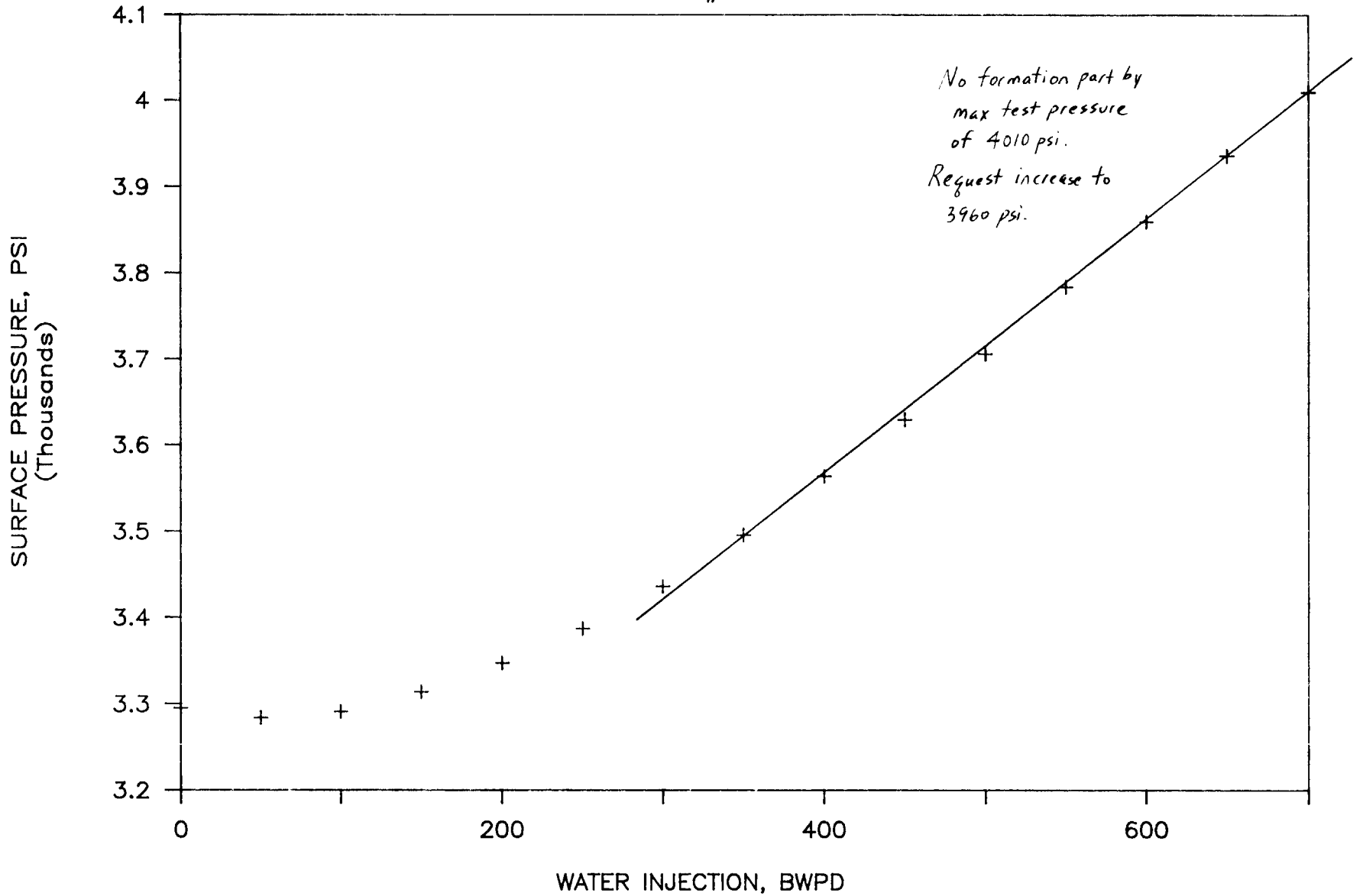
JWDixon
Attachments
cc: District Director OCD - Hobbs

bcc: Central Files
Regulatory Files
Proration Acct.
Reservoir Engr. Mgr.
Oper. Supv. - E. R. Hanson

A:M931148A.JWD

MOBIL STEP–RATE TEST

NVAU #152



COMPANY: Mobil Exploration & [illegible] U. S.
WELL NAME: NVAU #132
LEASE: North Vacuum Abo Un
LOCATION: Lea County, New Mex.
Unit F, Sec 13, T17., R34E
TEST DATE: March 7, 1969

STEP-RATE TEST DATA

SAMPLE POINT NUMBER	SAMPLE TIME	TUBING PRESSURE
30	7 : 14 : 22	[illegible]
31	7 : 15 : 22	[illegible]
32	7 : 16 : 22	[illegible]
33	7 : 17 : 22	[illegible]
34	7 : 18 : 22	[illegible]
35	7 : 19 : 22	[illegible]
36	7 : 20 : 22	[illegible]
37	7 : 21 : 22	[illegible]
38	7 : 22 : 22	[illegible]
39	7 : 23 : 22	[illegible]
40	7 : 24 : 22	[illegible]
41	7 : 25 : 22	[illegible]
42	7 : 26 : 22	[illegible]
43	7 : 27 : 22	[illegible]
44	7 : 28 : 22	[illegible]
45	7 : 29 : 22	[illegible]
46	7 : 30 : 22	[illegible]
47	7 : 31 : 22	[illegible]
48	7 : 32 : 22	[illegible]
49	7 : 33 : 22	[illegible]
50	7 : 34 : 22	[illegible]
51	7 : 35 : 22	[illegible]
52	7 : 36 : 22	[illegible]
53	7 : 37 : 22	[illegible]
54	7 : 38 : 22	[illegible]
55	7 : 39 : 22	[illegible]
56	7 : 40 : 22	[illegible]
57	7 : 41 : 22	[illegible]
58	7 : 42 : 22	[illegible]
59	7 : 43 : 22	[illegible]
60	7 : 44 : 22	[illegible]
61	7 : 45 : 22	[illegible]
62	7 : 46 : 22	[illegible]
63	7 : 47 : 22	[illegible]
64	7 : 48 : 22	[illegible]
65	7 : 49 : 22	[illegible]
66	7 : 50 : 22	[illegible]
67	7 : 51 : 22	[illegible]
68	7 : 52 : 22	[illegible]

STEP-RATE TEST DATA

SAMPLE POINT NUMBER	SAMPLE TIME	TUBING PRESSURE
69	7 : 55 : 22	330
70	7 : 54 : 22	330
71	7 : 55 : 22	330
72	7 : 56 : 22	330
73	7 : 57 : 22	330
74	7 : 58 : 22	330
75	7 : 59 : 22	330
76	8 : 0 : 22	330
77	8 : 1 : 22	330
78	8 : 2 : 22	330
79	8 : 3 : 22	330
80	8 : 4 : 22	330
81	8 : 5 : 22	330
82	8 : 6 : 22	330
83	8 : 7 : 22	330
84	8 : 8 : 22	330
85	8 : 9 : 22	330
86	8 : 10 : 22	330
87	8 : 11 : 22	330
88	8 : 12 : 22	330
89	8 : 13 : 22	330
90	8 : 14 : 22	330
91	8 : 15 : 22	330
92	8 : 16 : 22	330
93	8 : 17 : 22	330
94	8 : 18 : 22	330
95	8 : 19 : 22	330
96	8 : 20 : 22	330
97	8 : 21 : 22	330
98	8 : 22 : 22	330
99	8 : 23 : 22	330
100	8 : 24 : 22	330
101	8 : 25 : 22	330
102	8 : 26 : 22	330
103	8 : 27 : 22	330
104	8 : 28 : 22	330
105	8 : 29 : 22	330
106	8 : 30 : 22	330
107	8 : 31 : 22	330
108	8 : 32 : 22	330
109	8 : 33 : 22	330
110	8 : 34 : 22	330
111	8 : 35 : 22	330
112	8 : 36 : 22	330
113	8 : 37 : 22	330
114	8 : 38 : 22	330
115	8 : 39 : 22	330
116	8 : 40 : 22	330
117	8 : 41 : 22	330
118	8 : 42 : 22	330
119	8 : 43 : 22	330
120	8 : 44 : 22	330

STEP-RATE TEST DATA

SAMPLE POINT NUMBER	SAMPLE TIME	TUBING PRESSURE
121	8 : 45 : 21	340
122	8 : 46 : 22	340
123	8 : 47 : 21	340
124	8 : 48 : 22	340
125	8 : 49 : 22	340
126	8 : 50 : 22	340
127	8 : 51 : 22	340
128	8 : 52 : 22	340
129	8 : 53 : 22	340
130	8 : 54 : 22	340
131	8 : 55 : 22	340
132	8 : 56 : 22	340
133	8 : 57 : 22	340
134	8 : 58 : 22	340
135	8 : 59 : 22	340
136	9 : 0 : 22	340
137	9 : 1 : 22	340
138	9 : 2 : 22	340
139	9 : 3 : 22	340
140	9 : 4 : 22	340
141	9 : 5 : 22	340
142	9 : 6 : 22	340
143	9 : 7 : 22	340
144	9 : 8 : 22	340
145	9 : 9 : 22	340
146	9 : 10 : 22	340
147	9 : 11 : 22	340
148	9 : 12 : 22	340
149	9 : 13 : 22	340
150	9 : 14 : 22	340
151	9 : 15 : 22	340
152	9 : 16 : 22	340
153	9 : 17 : 22	340
154	9 : 18 : 22	340
155	9 : 19 : 22	340
156	9 : 20 : 22	340
157	9 : 21 : 22	340
158	9 : 22 : 22	340
159	9 : 23 : 22	340
160	9 : 24 : 22	340
161	9 : 25 : 22	340
162	9 : 26 : 22	340
163	9 : 27 : 22	340
164	9 : 28 : 22	340
165	9 : 29 : 22	340
166	9 : 30 : 22	340
167	9 : 31 : 22	340
168	9 : 32 : 21	340
169	9 : 33 : 22	340
170	9 : 34 : 22	340
171	9 : 35 : 21	340
172	9 : 36 : 21	340

STEP-RATE TEST DATA

SAMPLE POINT NUMBER	SAMPLE TIME	TUBING PRESSURE
173	9 : 37 : 22	361..
174	9 : 38 : 22	362
175	9 : 39 : 22	362.
176	9 : 40 : 22	362.
177	9 : 41 : 22	361.
178	9 : 42 : 22	361
179	9 : 43 : 22	360..
180	9 : 44 : 22	362.
181	9 : 45 : 22	361.
182	9 : 46 : 22	361.
183	9 : 47 : 22	362
184	9 : 48 : 22	361.
185	9 : 49 : 22	360.
186	9 : 50 : 22	361.
187	9 : 51 : 22	361.
188	9 : 52 : 22	360.
189	9 : 53 : 22	360.
190	9 : 54 : 22	360.
191	9 : 55 : 22	361.
192	9 : 56 : 22	360.
193	9 : 57 : 22	360.
194	9 : 58 : 22	361.
195	9 : 59 : 22	361.
196	10 : 0 : 22	360.
197	10 : 1 : 22	360.
198	10 : 2 : 22	360.
199	10 : 3 : 22	360.
200	10 : 4 : 22	359.
201	10 : 5 : 22	359.
202	10 : 6 : 22	359.
203	10 : 7 : 22	359.
204	10 : 8 : 22	359.
205	10 : 9 : 22	359.
206	10 : 10 : 22	359.
207	10 : 11 : 22	359.
208	10 : 12 : 22	359.
209	10 : 13 : 22	359.
210	10 : 14 : 22	359.
211	10 : 15 : 22	359.
212	10 : 16 : 22	359.
213	10 : 17 : 22	359.
214	10 : 18 : 22	359.
215	10 : 19 : 22	359.
216	10 : 20 : 22	359.
217	10 : 21 : 22	359.
218	10 : 22 : 22	359.
219	10 : 23 : 22	359.
220	10 : 24 : 22	359.
221	10 : 25 : 22	359.
222	10 : 26 : 22	359.
223	10 : 27 : 22	359.
224	10 : 28 : 22	359.

STEP-RATE TEST DATA

SAMPLE POINT NUMBER	SAMPLE TIME	TUBING PRESSURE
225	10 : 29 : 22	[illegible]
226	10 : 30 : 22	[illegible]
227	10 : 31 : 22	[illegible]
228	10 : 32 : 22	[illegible]
229	10 : 33 : 22	[illegible]
230	10 : 34 : 22	[illegible]
231	10 : 35 : 22	[illegible]
232	10 : 36 : 22	[illegible]
233	10 : 37 : 22	[illegible]
234	10 : 38 : 22	[illegible]
235	10 : 39 : 22	[illegible]
236	10 : 40 : 22	[illegible]
237	10 : 41 : 22	[illegible]
238	10 : 42 : 22	[illegible]
239	10 : 43 : 22	[illegible]
240	10 : 44 : 22	[illegible]
241	10 : 45 : 22	[illegible]
242	10 : 46 : 22	[illegible]
243	10 : 47 : 22	[illegible]
244	10 : 48 : 22	[illegible]
245	10 : 49 : 22	[illegible]
246	10 : 50 : 22	[illegible]
247	10 : 51 : 22	[illegible]
248	10 : 52 : 22	[illegible]
249	10 : 53 : 22	[illegible]
250	10 : 54 : 22	[illegible]
251	10 : 55 : 22	[illegible]
252	10 : 56 : 22	[illegible]
253	10 : 57 : 22	[illegible]
254	10 : 58 : 22	[illegible]
255	10 : 59 : 22	[illegible]
256	11 : 0 : 22	[illegible]
257	11 : 1 : 22	[illegible]
258	11 : 2 : 22	[illegible]
259	11 : 3 : 22	[illegible]
260	11 : 4 : 22	[illegible]
261	11 : 5 : 22	[illegible]
262	11 : 6 : 22	[illegible]
263	11 : 7 : 22	[illegible]
264	11 : 8 : 22	[illegible]
265	11 : 9 : 22	[illegible]
266	11 : 10 : 22	[illegible]
267	11 : 11 : 22	[illegible]
268	11 : 12 : 22	[illegible]
269	11 : 13 : 22	[illegible]
270	11 : 14 : 22	[illegible]
271	11 : 15 : 22	[illegible]
272	11 : 16 : 22	[illegible]

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

April 12, 1990

GARREY CARRUTHERS
GOVERNOR

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:

Mobil Prod TX & NM Inc.	North Vacuum Abo Unit	#152-B	13-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Very truly yours

Jerry Sexton
Supervisor, District I

/bp

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

April 26, 1990

Mobil Exploration & Producing U.S., Inc.
P.O. Box 633
Midland, TX 79702

Attention: G.N. Miller

RE: Injection Pressure Increase
North Vacuum Abo Unit Well No. 152
Lea County, New Mexico

Dear Mr. Miller:

Reference is made to your request dated April 4, 1990, to increase the surface injection pressure on the North Vacuum Abo Unit Well No. 152. This request is based on a step rate test conducted on the well on March 7, 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
NVAU Well No. 152 Unit B, Section 13, T-17 South, Range 34 East, NMPM, Lea County, New Mexico.	3960 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: PMX-140
T. Gallegos
D. Catanach

NO WAITING PERIOD

COMPANY: Mobil Exploration & Producing U.S. Inc.

ADDRESS: P.O. Box 633

CITY, STATE, ZIP: Midland, Texas 79702

ATTENTION: C. A. Adler

Re: Injection Pressure Increase
Vacuum Abo Unit
Well No. 152
Lea County, New Mexico

Dear Sir:

Reference is made to your request dated April 6, 1983, to increase the surface injection pressure on Vacuum Abo Unit Well No. 152. This request is based on a step rate test conducted on the well on March 7, 1983. 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 & Location	Maximum Injection Surface Pressure
Vacuum Abo Unit Well No. 152 Unit B, Sec. 13, T-18-S, R-34-E, NMPM Lea County, New Mexico.	3760 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.

xc: T. GALLEGOS
D. CATANACH
FILE- NMX-146
OCD- Hobbs