STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

November 9, 1994

CF 9072 R-8397 8397-A

Mobil Exploration & Producing U.S., Inc. P.O. Box 663 Midland, Texas 79702-0633

Attn: Ms. Kaye Pollock-Lyon

RE: Injection Pressure Increase State "N" Lease Waterflood Project Lea County, New Mexico

Dear Ms. Pollock-Lyon:

Reference is made to your request dated October 24, 1994, to increase the surface injection pressure on one well. This request is based on a step rate tests conducted on September 30, 1994. 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		
State "N" Well No.2 735' FNL & 840' FWL Unit D, Section 10, Township 17 South, Range 34 East	4669 PSIG		
This well located in 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

WJL/BES

cc: Oil C

Oil Conservation Division - Hobbs

File: Case File No.9072

Mobil Exploration & Producing U.S. Inc.

*94 00 27 FM 8 52

October 24, 1994

P.O. BOX 633 MIDLAND, TEXAS 79702-0633

MIDLAND SOUTH ASSET TEAM ENVIRONMENTAL, REGULATORY & LOSS PREVENTION

FACSIMILE (915) 688-1514

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

ATTN: William LeMay

REF: Injection Pressure Increase Request

State N Lease

Vacuum, Abo North Field Lea County, New Mexico

Dear Mr. LeMay:

Mobil Exploration & Producing U.S. Inc. as agent for Mobil Producing TX & NM Inc., is requesting to increase injection pressures on the wells listed below. The purpose of these tests is to determine the surface injection pressure at which the formation will begin to fracture. Mobil then requests an increase in surface pressure to within 50 PSIG of the parting pressure. In some cases, the fracturing pressure was not achieved, so the requested pressure limit will be within 50 PSIG of the final pressure during the test. In waterflood operations such as the Vacuum Abo Field, this increase allows additional water to be injected that benefits oil recovery.

Well	Injection Intervals	Present Surface Injection Pressure Limit	Injection Pressure Limit
State N #2 Unit D, Section 10, 17-S, 34-E	8714-8783	4230 psig	4680 psig



Injextion Pressure Increase Request State N Lease NVA Field Page 2 October 24, 1994

Attached please find step rate tests for each of the above mentioned well. If there is any question, please contact me at 915-688-2584.

Sincerely,

Kaye Pollock-Lyon

Environmental & Regulatory Technician

Kay Pollock-Lyon

Mobil Exploration & Producing US Inc. as agent for

Mobil Producing TX & NM Inc.

KPL:s

cc:

Attachments

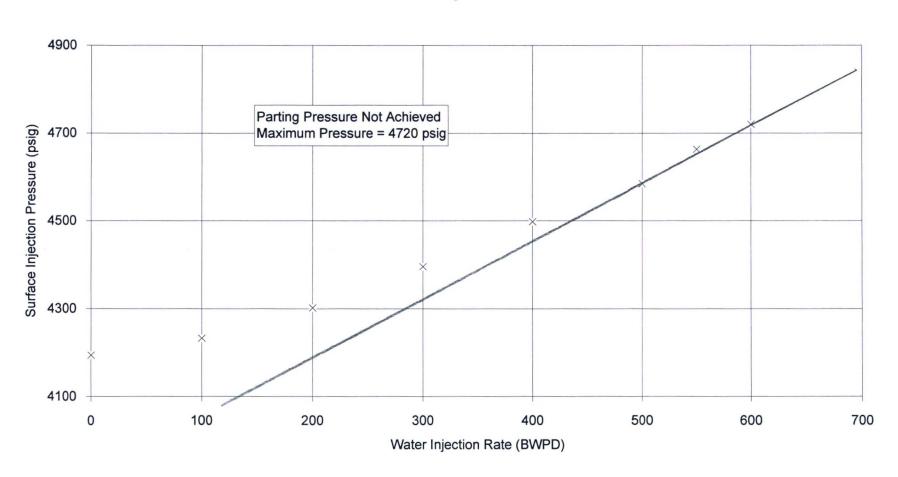
District Office - Hobbs Central Files

ER Files

Res. Engr. -Sal Gutierrez

Field Office

State N #2 Step Rate Test North Vacuum Abo Field Lea County, New Mexico



Step Rate Test

Company: Mobil Exploration & Producing U.S., Inc.

Lease: State N Well No: 2

Location: Unit D 10-T17S-R34E

Perforations: 8714'-8783' Total Depth: 8970' Plug Back TD: 8909' Packer Set At: 8660' Technician: Dale Shreffler Engineer: Chad Jones

Record	Date	Time	Surface Pressure	Injection Rate (BWPD)
1	9/30/94	8:00:20	13	0
2	Friday	8:01:20	13	0
3		8:02:20	13	0
4		8:03:20	13	0
5		8:04:20	13	0
6		8:05:20	13	0
7		8:06:20	13	0
8		8:07:20	13	0
9		8:08:20	13	0
10		8:09:20	13	0
11		8:10:20	13	0
12		8:11:20	13	0
13		8:12:20	13	0
14		8:13:20	13	0
15		8:14:20	13	0
16		8:15:20	13	0
17		8:16:20	26	0
18		8:17:20	4231	0
19		8:18:20	4257	0
20		8:19:20	4258	0
21		8:20:20	4258	100
22		8:21:20	4258	100
23		8:22:20	4258	100
24		8:23:20	4259	100
25		8:24:20	4258	100
26		8:25:20	4259	100
27		8:26:20	4259	100
28		8:27:20	4237	100
29		8:28:20	4227	100
30		8:29:20	4229	100
31		8:30:20	4231	100
32		8:31:20	4238	100
33		8:32:20	4243	100
34		8:33:20	4246	100
35		8:34:20	4249	100
36		8:35:20	4250	200
37		8:36:20	4252	200
38		8:37:20	4240	200
39		8:38:20	4258	200
40		8:39:20	4269	200
41		8:40:20	4273	200
42		8:41:20	4279	200
43		8:42:20	4285	200
44		8:43:20	4290	200
45		8:44:20	4293	200
46		8:45:20	4300	200
47		8:46:20	4296	200
48		8:47:20	4318	200
		8:47:20	4323	200
49		6:48:20	4323	200

50		8:49:20	4336	200
51		8:50:20	4341	300
52		8:51:20	4345	300
53		8:52:20	4356	300
54		8:53:20	4363	300
55		8:54:20	4367	300
56	9/30/94	8:55:20	4371	300
57	Friday	8:56:20	4379	300
58	,	8:57:20	4380	300
59		8:58:20	4390	300
60		8:59:20	4393	300
61		9:00:20	4393	300
62		9:01:20	4406	300
63		9:02:20	4417	300
64		9:03:20	4426	300
65		9:04:20	4430	300
66		9:05:20	4438	400
67		9:06:20	4445	400
68		9:07:20	4453	400
69		9:08:20	4456	400
70		9:09:20	4466	400
71		9:10:20	4473	400
72		9:11:20	4472	400
73		9:12:20	4479	400
74		9:13:20	4488	400
75 75		9:14:20	4494	400
76		9:15:20	4495	400
77		9:16:20	4508	400
78		9:17:20	4521	400
79		9:18:20	4524	400
80		9:19:20	4530	400
		9:20:20	4535	500
81			4544	500
82		9:21:20		
83		9:22:20	4549	500
84		9:23:20	4555	500
85		9:24:20	4557	500
86		9:25:20	4562	500
87		9:26:20	4566	500
88		9:27:20	4571	500
89		9:28:20	4574	500
90		9:29:20	4583	500
91		9:30:20	4584	500
92		9:31:20	4599	500
93		9:32:20	4602	500 500
94		9:33:20	4606	
95		9:34:20	4611	500
96		9:35:20	4615	550
97		9:36:20	4621 4626	550
98		9:37:20		550
99		9:38:20	4632	550 550
100		9:39:20	4635	
101		9:40:20	4638	550
102		9:41:20	4643	550
103		9:42:20	4645	550
104		9:43:20	4652	550
105		9:44:20	4652	550
106		9:45:20	4657	550
107		9:46:20	4659	550
108		9:47:20	4671	550
109		9:48:20	4678	550
110		9:49:20	4677	550

111	0/00/04	0.50.00	4000	20
111 112	9/30/94	9:50:20	4686	60
113	Friday	9:51:20	4689	60
		9:52:20	4690	60
114		9:53:20	4696	60
115		9:54:20	4701	60
116		9:55:20	4699	60
117		9:56:20	4706	60
118		9:57:20	4709	60
119		9:58:20	4711	60
120		9:59:20	4714	60
121		10:00:20	4719	60
122		10:01:20	4618	SI
123		10:02:20	4673	SI
124		10:03:20	4668	SI
125		10:04:20	4661	SI
126		10:05:20	4652	SI
127		10:06:20	4646	S
128		10:07:20	4639	S
129		10:08:20	4633	S
130		10:09:20	4628	S
131		10:10:20	4622	S
132		10:11:20	4617	S
133		10:12:20	4612	S
134		10:13:20	4608	S
135		10:14:20	4604	S
136		10:15:20	4599	S
137		10:16:20	4595	S
138		10:17:20	4592	S
139		10:18:20	4588	S
140		10:19:20	4584	S
141		10:20:20	4580	s
142		10:21:20	4578	S
143		10:22:20	4574	S
144		10:23:20	4571	S
145		10:24:20	4568	S
146		10:25:20	4565	S
				S
147		10:26:20	4562	
148		10:27:20	4559	S

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