

Mobil Exploration & Producing U.S. Inc.

OIL CONSERVATION DIVISION
RECEIVED

December 1, 1989 10 50 4 AM 10 24

P.O. BOX 633
MIDLAND, TEXAS 79702

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. 112, 121, 129, 139, 143, 146, 149
LEA COUNTY, NEW MEXICO

Gentlemen:

Under the provisions of Order No. PMX-138 dated November 12, 1985; Order No. WFX-557 dated February 11, 1986, and 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:

	<u>INJECTION INTERVALS</u>	<u>PRESENT SURFACE INJECTION PRESSURE LIMIT</u>	<u>REQUESTED SURFACE INJECTION PRESSURE LIMIT</u>
WELL NO. 112 UNIT D, SEC. 25 T-17-S, R-34-E Order No. PMX-138	8336-8533'	no part psig	4051 psig ✓
WELL NO. 121 UNIT L, SEC. 13 T-17-S, R-34-E ORDER NO. WFX-557	8485-8600'	3901 psig	3851 psig ✓
WELL NO. 129 UNIT B, SEC. 23 T-17-S, R-34-E ORDER NO. WFX-557	8493-8560'	4420 psig	4370 psig ✓

NORTH VACUUM ABO UNIT
WELL NOS. 112,121,129,139,143,146 & 149
LEA COUNTY, NEW MEXICO

WELL NO. 139
UNIT L, SEC. 14
T-17-S, R-34-E
ORDER NO. WFX-557

8585-8662

3800 psig

3750 psig /

WELL NO. 143
UNIT B, SEC. 27
T-17-S, R-34-E
ORDER NO. WFX-557

8605-8680

4090 psig

4050 psig /

WELL NO. 146
UNIT B, SEC. 14
T-17-S, R-34-E
ORDER NO. PMX-140

8516-8590

3900 psig

3850 psig /

UNIT NO. 149
UNIT J, SEC. 27
T-17-S, R-34-E
ORDER NO. WFX-557

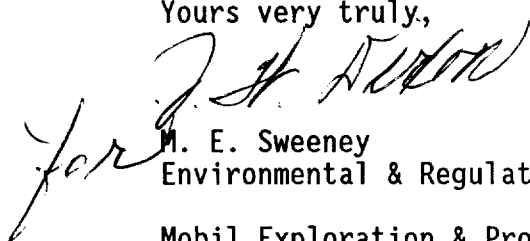
8577-8681

NO PART. psig

3900 psig

Enclosed are copies of the Step-rate test.

Yours very truly,



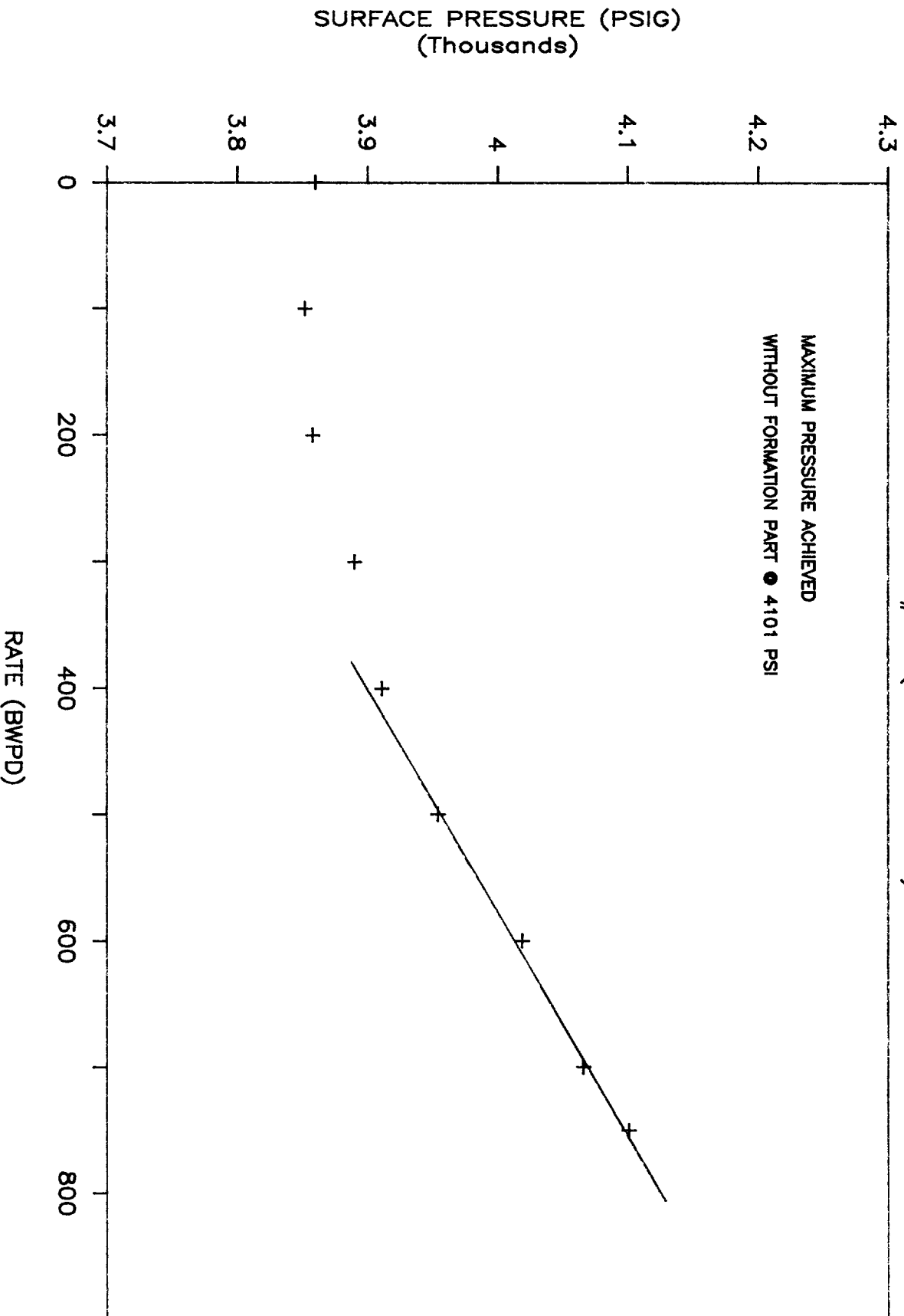
M. E. Sweeney
Environmental & Regulatory Manager

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

JWDixon
Attachments
cc: District Director OCD - Hobbs

STEP RATE TEST

NVAU #1112 (RUN 11-14-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
LEASE: NORTH VACUUM ABO
WELL NO. 112
LOCATION: D25-T17S-R34E
TEST DATE: 11-14-89
PERFORATIONS: 8336' - 8533'
TOTAL DEPTH: 10230'
PLUG BACK TD: 9710' CIBP: 9750'
PACKER SET AT: 8310'

TIME	SURFACE PRESSURE	RATE (BWPD)
11:45:17	16	0
11:46:17	16	0
11:47:17	17	0
11:48:17	17	0
11:49:17	17	0
11:50:17	17	0
11:51:17	17	0
11:52:17	17	0
11:53:17	17	0
11:54:17	17	0
11:55:17	17	0
11:56:17	17	0
11:57:17	3890	0
11:58:17	3889	0
11:59:17	3891	0
12:00:17	3875	0
12:01:17	3872	0
12:02:17	3870	0
12:03:17	3866	0
12:04:17	3863	0
12:05:17	3860	0
12:06:17	3859	100
12:07:17	3862	100
12:08:17	3861	100
12:09:17	3860	100
12:10:17	3859	100
12:11:17	3858	100
12:12:17	3857	100
12:13:17	3856	100
12:14:17	3855	100
12:15:17	3855	100
12:16:17	3854	100
12:17:17	3853	100
12:18:17	3852	100
12:19:17	3851	100

12:20:17	3852	100
12:21:17	3856	200
12:22:17	3857	200
12:23:17	3857	200
12:24:17	3857	200
12:25:17	3858	200
12:26:17	3858	200
12:27:17	3858	200
12:28:17	3858	200
12:29:17	3858	200
12:30:17	3858	200
12:31:17	3858	200
12:32:17	3858	200
12:33:17	3858	200
12:34:17	3859	200
12:35:17	3858	200
12:36:17	3863	300
12:37:17	3867	300
12:38:17	3868	300
12:39:17	3870	300
12:40:17	3871	300
12:41:17	3872	300
12:42:17	3873	300
12:43:17	3874	300
12:44:17	3874	300
12:45:17	3874	300
12:46:17	3875	300
12:47:17	3876	300
12:48:17	3877	300
12:49:17	3878	300
12:50:17	3890	300
12:51:17	3891	400
12:52:17	3894	400
12:53:17	3896	400
12:54:17	3898	400
12:55:17	3900	400
12:56:17	3901	400
12:57:17	3903	400
12:58:17	3903	400
12:59:17	3905	400
13:00:17	3906	400
13:01:17	3907	400
13:02:17	3908	400
13:03:17	3910	400
13:04:17	3910	400
13:05:17	3911	400
13:06:17	3924	500
13:07:17	3926	500
13:08:17	3929	500
13:09:17	3931	500
13:10:17	3933	500
13:11:17	3936	500
13:12:17	3938	500
13:13:17	3939	500
13:14:17	3944	500
13:15:17	3945	500

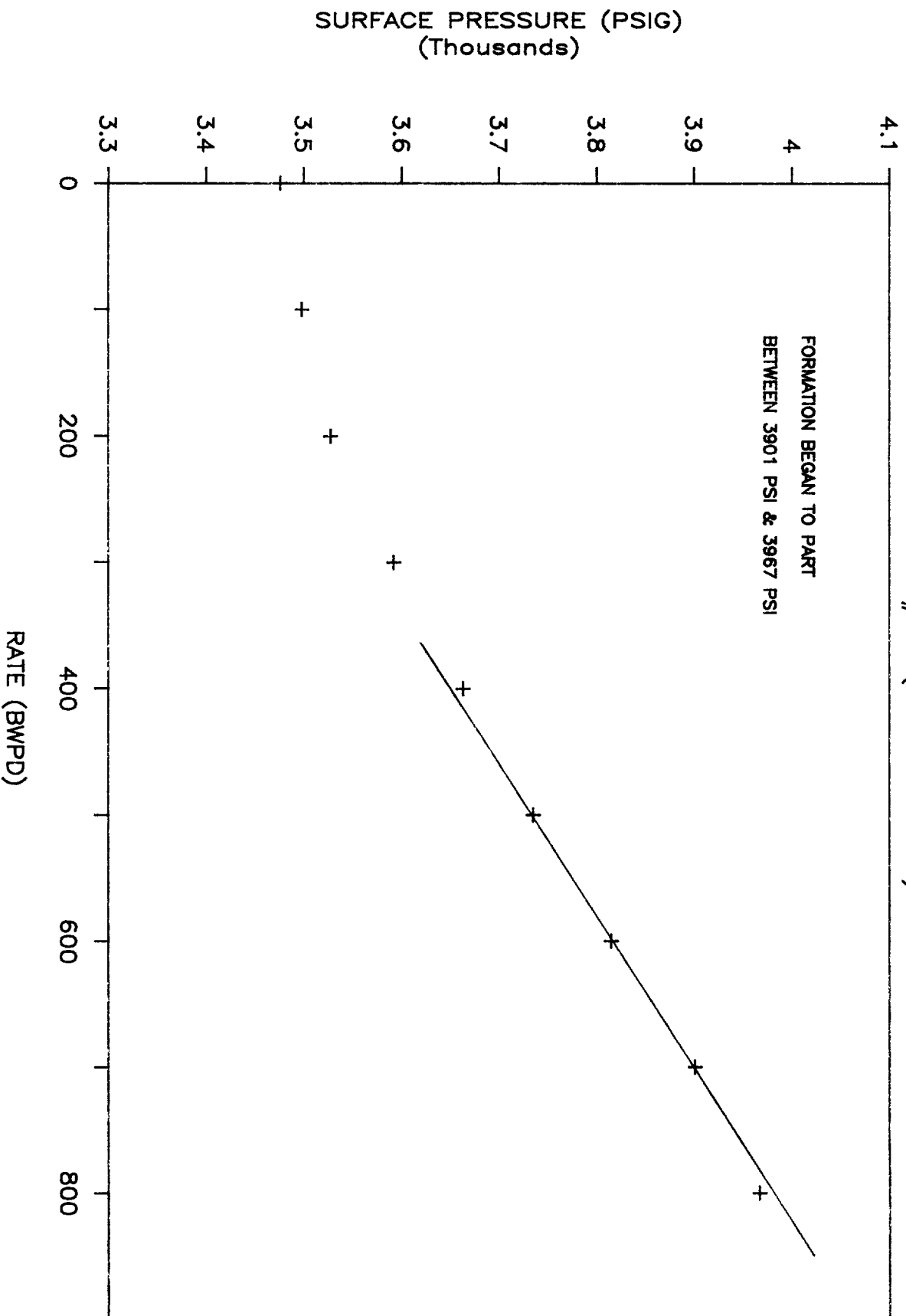
13:16:17	3946	500
13:17:17	3949	500
13:18:17	3951	500
13:19:17	3952	500
13:20:17	3954	500
13:21:17	3968	600
13:22:17	3972	600
13:23:17	3975	600
13:24:17	3978	600
13:25:17	3981	600
13:26:17	3984	600
13:27:17	3987	600
13:28:17	3988	600
13:29:17	3991	600
13:30:17	3993	600
13:31:17	3994	600
13:32:17	3996	600
13:33:17	3998	600
13:34:17	4000	600
13:35:17	4019	600
13:36:17	4023	700
13:37:17	4026	700
13:38:17	4028	700
13:39:17	4031	700
13:40:17	4033	700
13:41:17	4036	700
13:42:17	4042	700
13:43:17	4045	700
13:44:17	4047	700
13:45:17	4049	700
13:46:17	4052	700
13:47:17	4054	700
13:48:17	4056	700
13:49:17	4058	700
13:50:17	4066	700
13:51:17	4070	750
13:52:17	4073	750
13:53:17	4075	750
13:54:17	4077	750
13:55:17	4080	750
13:56:17	4082	750
13:57:17	4086	750
13:58:17	4088	750
13:59:17	4090	750
14:00:17	4092	750
14:01:17	4094	750
14:02:17	4097	750
14:03:17	4099	750
14:04:17	4101	750
14:05:17	4036	750
14:06:17	4031	0
14:07:17	4020	0
14:08:17	4012	0
14:09:17	4006	0
14:10:17	4000	0
14:11:17	3994	0

14:12:17	3989	0
14:13:17	21	0
14:14:17	20	0
14:15:17	20	0
14:16:17	20	0
14:17:17	21	0
14:18:17	18	0
14:19:17	15	0
14:20:17	16	0
14:21:17	16	0
14:22:17	16	0
14:23:17	16	0
14:24:17	16	0
14:25:17	16	0
14:26:17	16	0
14:27:17	16	0
14:28:17	16	0
14:29:17	16	0
14:30:17	16	0
14:31:17	16	0
14:32:17	16	0
14:33:17	16	0
14:34:17	16	0
14:35:17	16	0
14:36:17	16	0
14:37:17	16	0
14:38:17	16	0
14:39:17	16	0
14:40:17	16	0
14:41:17	16	0
14:42:17	16	0
14:43:17	16	0
14:44:17	16	0
14:45:17	16	0
14:46:17	16	0
14:47:17	16	0
14:48:17	16	0
14:49:17	16	0
14:50:17	16	0
14:51:17	16	0
14:52:17	16	0
14:53:17	16	0
14:54:17	16	0
14:55:17	16	0
14:56:17	16	0
14:57:17	16	0
14:58:17	16	0
14:59:17	16	0
15:00:17	16	0
15:01:17	16	0
15:02:17	16	0
15:03:17	16	0
15:04:17	16	0
15:05:17	16	0
15:06:17	16	0
15:07:17	16	0

15:08:17	16	0
15:09:17	16	0
15:10:17	16	0
15:11:17	16	0
15:12:17	16	0
15:13:17	16	0
15:14:17	16	0
15:15:17	16	0
15:16:17	16	0
15:17:17	16	0
15:18:17	16	0
15:19:17	16	0
15:20:17	16	0
15:21:17	16	0
15:22:17	16	0
15:23:17	16	0
15:24:17	16	0
15:25:17	16	0

STEP RATE TEST

NVAU #121 (RUN 11-10-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
 LEASE: NORTH VACUUM ABO
 WELL NO. 121
 LOCATION: L13-T17S-R34E
 TEST DATE: 11-10-89
 PERFORATIONS: 8485' - 8600'
 TOTAL DEPTH: 10550'
 PLUG BACK TD: 10502' CIBP: 9425'
 PACKER SET AT: 8400' PKR & PLUG: 10380'

TIME	SURFACE PRESSURE	RATE (BWPD)
08:53:18	13	0
08:54:18	12	0
08:55:18	12	0
08:56:18	12	0
08:57:18	12	0
08:58:18	11	0
08:59:18	12	0
09:00:18	12	0
09:01:18	3478	0
09:02:18	3480	0
09:03:18	3478	0
09:04:18	3476	0
09:05:18	3476	0
09:06:18	3480	100
09:07:18	3482	100
09:08:18	3483	100
09:09:18	3484	100
09:10:18	3485	100
09:11:18	3486	100
09:12:18	3486	100
09:13:18	3487	100
09:14:18	3488	100
09:15:18	3488	100
09:16:18	3489	100
09:17:18	3489	100
09:18:18	3490	100
09:19:18	3491	100
09:20:18	3498	100
09:21:18	3502	200
09:22:18	3505	200
09:23:18	3507	200
09:24:18	3509	200
09:25:18	3511	200
09:26:18	3513	200
09:27:18	3515	200
09:28:18	3517	200

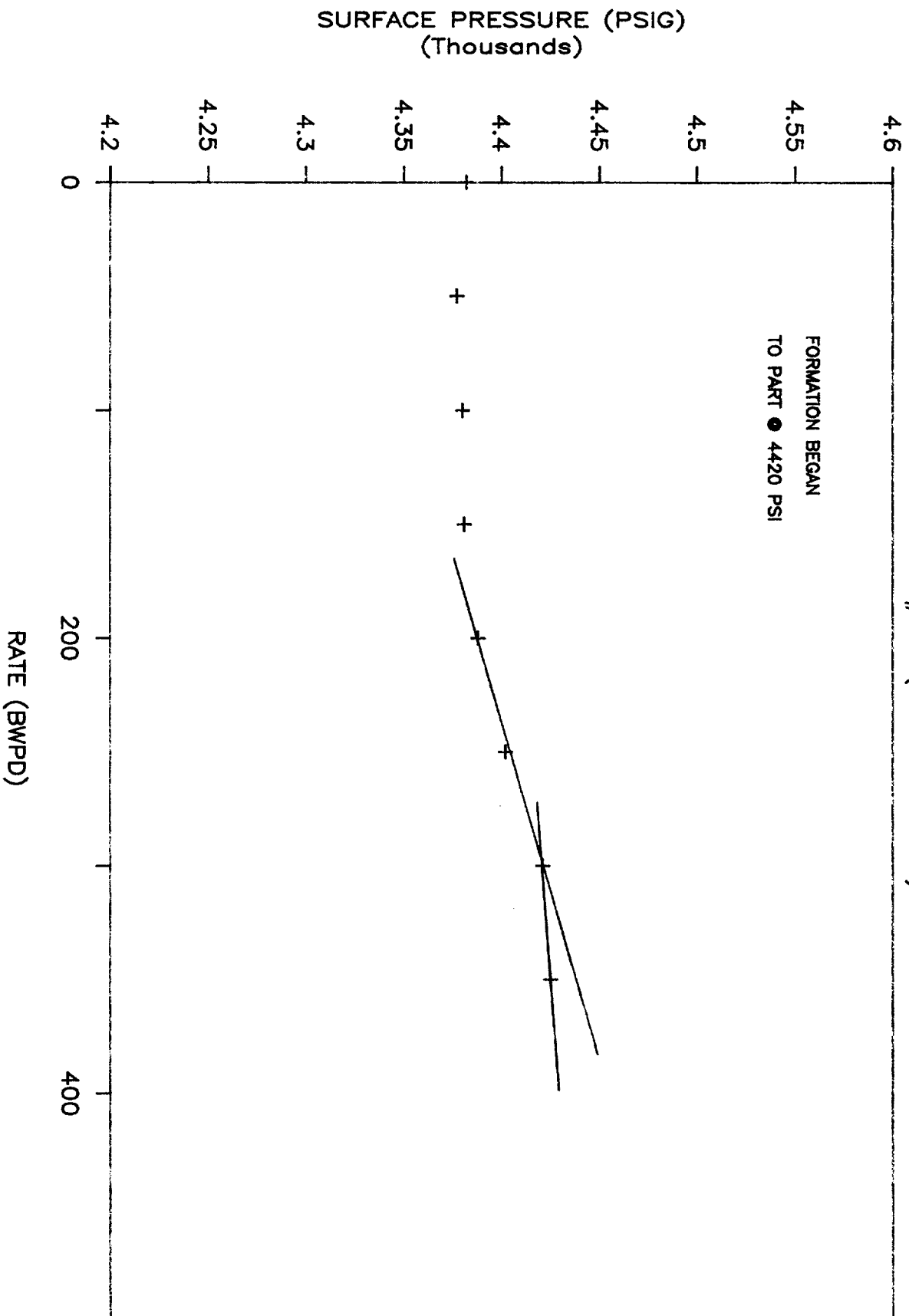
09:29:18	3519	200
09:30:18	3521	200
09:31:18	3522	200
09:32:18	3523	200
09:33:18	3525	200
09:34:18	3526	200
09:35:18	3528	200
09:36:18	3538	300
09:37:18	3541	300
09:38:18	3545	300
09:39:18	3549	300
09:40:18	3552	300
09:41:18	3556	300
09:42:18	3558	300
09:43:18	3563	300
09:44:18	3565	300
09:45:18	3567	300
09:46:18	3571	300
09:47:18	3572	300
09:48:18	3574	300
09:49:18	3577	300
09:50:18	3592	300
09:51:18	3595	400
09:52:18	3599	400
09:53:18	3603	400
09:54:18	3608	400
09:55:18	3612	400
09:56:18	3616	400
09:57:18	3620	400
09:58:18	3622	400
09:59:18	3625	400
10:00:18	3628	400
10:01:18	3631	400
10:02:18	3638	400
10:03:18	3641	400
10:04:18	3644	400
10:05:18	3663	400
10:06:18	3665	500
10:07:18	3670	500
10:08:18	3675	500
10:09:18	3679	500
10:10:18	3684	500
10:11:18	3687	500
10:12:18	3692	500
10:13:18	3695	500
10:14:18	3699	500
10:15:18	3703	500
10:16:18	3707	500
10:17:18	3710	500
10:18:18	3713	500
10:19:18	3716	500
10:20:18	3735	500
10:21:18	3741	600
10:22:18	3746	600
10:23:18	3752	600
10:24:18	3757	600

10:25:18	3760	600	
10:26:18	3765	600	
10:27:18	3769	600	
10:28:18	3773	600	
10:29:18	3777	600	
10:30:18	3780	600	
10:31:18	3784	600	
10:32:18	3790	600	
10:33:18	3793	600	
10:34:18	3797	600	
10:35:18	3815	600	
10:36:18	3822	700	
10:37:18	3829	700	
10:38:18	3834	700	
10:39:18	3839	700	
10:40:18	3843	700	
10:41:18	3847	700	
10:42:18	3855	700	
10:43:18	3859	700	
10:44:18	3863	700	
10:45:18	3866	700	
10:46:18	3870	700	
10:47:18	3873	700	
10:48:18	3877	700	
10:49:18	3880	700	
10:50:18	3901	700	
10:51:18	3906	800	
10:52:18	3911	800	
10:53:18	3916	800	
10:54:18	3920	800	
10:55:18	3927	800	
10:56:18	3930	800	
10:57:18	3934	800	
10:58:18	3938	800	
10:59:18	3944	800	
11:00:18	3948	800	
11:01:18	3952	800	
11:02:18	3957	800	
11:03:18	3961	800	
11:04:18	3963	800	
11:05:18	3967	800	Max. Choke
11:06:18	3934	0	
11:07:18	3913	0	
11:08:18	3886	0	
11:09:18	3868	0	
11:10:18	3859	0	
11:11:18	3849	0	
11:12:18	3841	0	
11:13:18	3832	0	
11:14:18	3825	0	
11:15:18	3818	0	
11:16:18	3811	0	
11:17:18	3805	0	
11:18:18	3799	0	
11:19:18	3793	0	
11:20:18	118	0	

11:21:18	24	0
11:22:18	26	0
11:23:18	27	0
11:24:18	27	0
11:25:18	13	0

STEP RATE TEST

NVAU #129 (RUN 11-14-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
LEASE: NORTH VACUUM ABO
WELL NO. 129
LOCATION: B23-T17S-R34E
TEST DATE: 11-14-89
PERFORATIONS: 8493' - 8560'
TOTAL DEPTH: 8600'
PLUG BACK TD: 8577'
PACKER SET AT: 8440'

TIME	SURFACE PRESSURE	RATE (BWPD)
08:30:17	4387	0
08:31:17	4387	0
08:32:17	4385	0
08:33:17	4385	0
08:34:17	4384	0
08:35:17	4384	0
08:36:17	4383	0
08:37:17	4383	0
08:38:17	4383	0
08:39:17	4382	0
08:40:17	4382	0
08:41:17	4376	50
08:42:17	4376	50
08:43:17	4375	50
08:44:17	4375	50
08:45:17	4374	50
08:46:17	4375	50
08:47:17	4374	50
08:48:17	4375	50
08:49:17	4376	50
08:50:17	4376	50
08:51:17	4376	50
08:52:17	4377	50
08:53:17	4377	50
08:54:17	4377	50
08:55:17	4377	50
08:56:17	4376	100
08:57:17	4375	100
08:58:17	4375	100
08:59:17	4376	100
09:00:17	4376	100
09:01:17	4377	100
09:02:17	4377	100
09:03:17	4378	100
09:04:17	4379	100
09:05:17	4379	100
09:06:17	4378	100

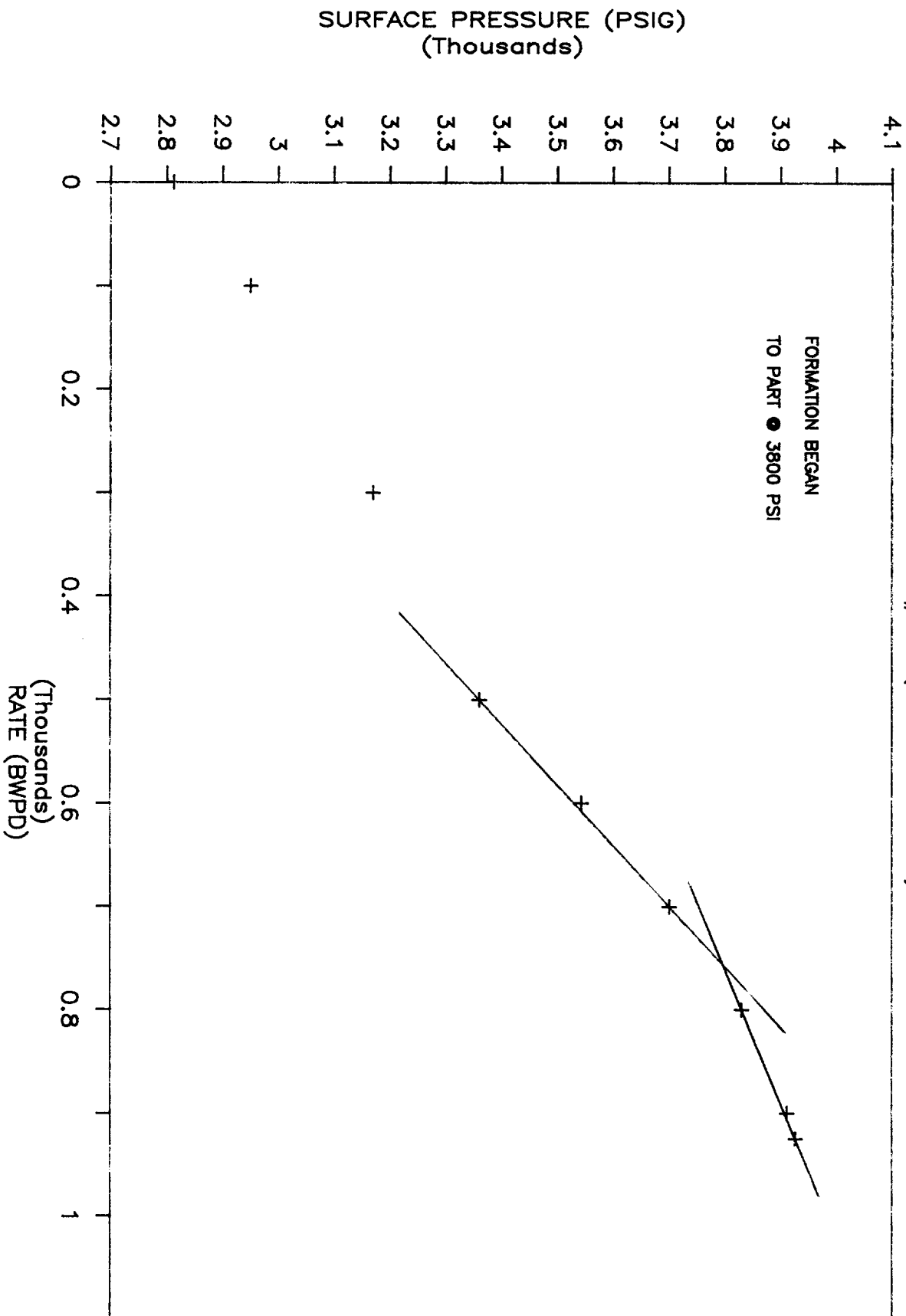
09:07:17	4379	100
09:08:17	4379	100
09:09:17	4380	100
09:10:17	4380	100
09:11:17	4380	150
09:12:17	4380	150
09:13:17	4379	150
09:14:17	4379	150
09:15:17	4379	150
09:16:17	4379	150
09:17:17	4378	150
09:18:17	4378	150
09:19:17	4380	150
09:20:17	4380	150
09:21:17	4381	150
09:22:17	4380	150
09:23:17	4381	150
09:24:17	4381	150
09:25:17	4381	150
09:26:17	4381	200
09:27:17	4382	200
09:28:17	4382	200
09:29:17	4383	200
09:30:17	4384	200
09:31:17	4384	200
09:32:17	4384	200
09:33:17	4385	200
09:34:17	4385	200
09:35:17	4385	200
09:36:17	4385	200
09:37:17	4386	200
09:38:17	4386	200
09:39:17	4386	200
09:40:17	4388	200
09:41:17	4390	250
09:42:17	4391	250
09:43:17	4392	250
09:44:17	4393	250
09:45:17	4394	250
09:46:17	4396	250
09:47:17	4397	250
09:48:17	4397	250
09:49:17	4398	250
09:50:17	4399	250
09:51:17	4400	250
09:52:17	4400	250
09:53:17	4401	250
09:54:17	4402	250
09:55:17	4402	250
09:56:17	4407	300
09:57:17	4409	300
09:58:17	4410	300
09:59:17	4411	300
10:00:17	4413	300
10:01:17	4414	300
10:02:17	4415	300

10:03:17	4416	300	
10:04:17	4416	300	
10:05:17	4417	300	
10:06:17	4418	300	
10:07:17	4419	300	
10:08:17	4419	300	
10:09:17	4420	300	
10:10:17	4421	300	
10:11:17	4422	350	MAX
10:12:17	4422	350	CHOKE
10:13:17	4423	350	
10:14:17	4423	350	
10:15:17	4423	350	
10:16:17	4424	350	
10:17:17	4424	350	
10:18:17	4424	350	
10:19:17	4424	350	
10:20:17	4424	350	
10:21:17	4424	350	
10:22:17	4425	350	
10:23:17	4425	350	
10:24:17	4425	350	
10:25:17	4425	350	
10:26:17	4426	350	
10:27:17	4426	350	
10:28:17	4426	350	
10:29:17	4426	350	
10:30:17	4426	350	
10:31:17	4427	350	
10:32:17	4427	350	
10:33:17	4427	350	
10:34:17	4427	350	
10:35:17	4428	350	
10:36:17	4428	350	
10:37:17	4429	350	
10:38:17	4429	350	
10:39:17	4429	350	
10:40:17	4431	350	
10:41:17	4431	350	
10:42:17	4431	350	
10:43:17	4432	350	
10:44:17	4433	350	
10:45:17	4433	350	
10:46:17	4433	350	
10:47:17	4434	350	
10:48:17	4434	350	
10:49:17	4435	350	
10:50:17	4435	350	
10:51:17	4436	350	
10:52:17	4436	350	
10:53:17	4437	350	
10:54:17	4437	350	
10:55:17	4409	0	SHUTIN
10:56:17	4415	0	
10:57:17	4411	0	
10:58:17	4407	0	

10:59:17	4428	0
11:00:17	40	0
11:01:17	14	0
11:02:17	14	0
11:03:17	15	0
11:04:17	15	0
11:05:17	15	0
11:06:17	15	0
11:07:17	15	0
11:08:17	15	0
11:09:17	15	0
11:10:17	15	0
11:11:17	15	0
11:12:17	15	0
11:13:17	15	0
11:14:17	15	0
11:15:17	15	0
11:16:17	15	0
11:17:17	16	0
11:18:17	16	0
11:19:17	15	0
11:20:17	15	0
11:21:17	15	0
11:22:17	16	0
11:23:17	16	0
11:24:17	16	0
11:25:17	16	0
11:26:17	16	0
11:27:17	16	0
11:28:17	16	0
11:29:17	16	0
11:30:17	16	0
11:31:17	16	0
11:32:17	16	0
11:33:17	16	0
11:34:17	16	0
11:35:17	16	0
11:36:17	16	0
11:37:17	16	0
11:38:17	16	0
11:39:17	16	0
11:40:17	16	0
11:41:17	16	0
11:42:17	16	0
11:43:17	16	0
11:44:17	16	0

STEP RATE TEST

NVAU #139 (RUN 11-16-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
LEASE: NORTH VACUUM ABO
WELL NO. 139
LOCATION: L14-T17S-R34E
TEST DATE: 11-16-89
PERFORATIONS: 8585' - 8662'
TOTAL DEPTH: 8750'
PLUG BACK TD: 8729'
PACKER SET AT: 8513'

TIME	SURFACE PRESSURE	RATE (BWPD)

11:25:25	21	0
11:26:25	21	0
11:27:25	21	0
11:28:25	21	0
11:29:25	21	0
11:30:25	21	0
11:31:25	21	0
11:32:25	21	0
11:33:25	21	0
11:34:25	21	0
11:35:25	21	0
11:36:25	21	0
11:37:25	21	0
11:38:25	21	0
11:39:25	21	0
11:40:25	21	0
11:41:25	21	0
11:42:25	22	0
11:43:25	22	0
11:44:25	22	0
11:45:25	22	0
11:46:25	22	0
11:47:25	22	0
11:48:25	22	0
11:49:25	22	0
11:50:25	22	0
11:51:25	22	0
11:52:25	22	0
11:53:25	22	0
11:54:25	22	0
11:55:25	22	0
11:56:25	22	0
11:57:25	22	0

11:58:25	22	0
11:59:25	22	0
12:00:25	22	0
12:01:25	22	0
12:02:25	22	0
12:03:25	22	0
12:04:25	22	0
12:05:25	22	0
12:06:25	22	0
12:07:25	22	0
12:08:25	22	0
12:09:25	22	0
12:10:25	22	0
12:11:25	22	0
12:12:25	22	0
12:13:25	2763	0
12:14:25	2758	0
12:15:25	2764	0
12:16:25	2777	0
12:17:25	2781	0
12:18:25	2779	0
12:19:25	2775	0
12:20:25	2771	0
12:21:25	2779	0
12:22:25	2785	0
12:23:25	2795	0
12:24:25	2792	0
12:25:25	2795	0
12:26:25	2798	0
12:27:25	2803	0
12:28:25	2809	0
12:29:25	2812	0
12:30:25	2813	0
12:31:25	2816	100
12:32:25	2815	100
12:33:25	2816	100
12:34:25	2824	100
12:35:25	2829	100
12:36:25	2851	100
12:37:25	2863	100
12:38:25	2877	100
12:39:25	2888	100
12:40:25	2901	100
12:41:25	2909	100
12:42:25	2921	100
12:43:25	2931	100
12:44:25	2940	100
12:45:25	2951	100
12:46:25	2956	300
12:47:25	2963	300
12:48:25	2970	300
12:49:25	2978	300
12:50:25	3018	300
12:51:25	3036	300
12:52:25	3057	300
12:53:25	3077	300

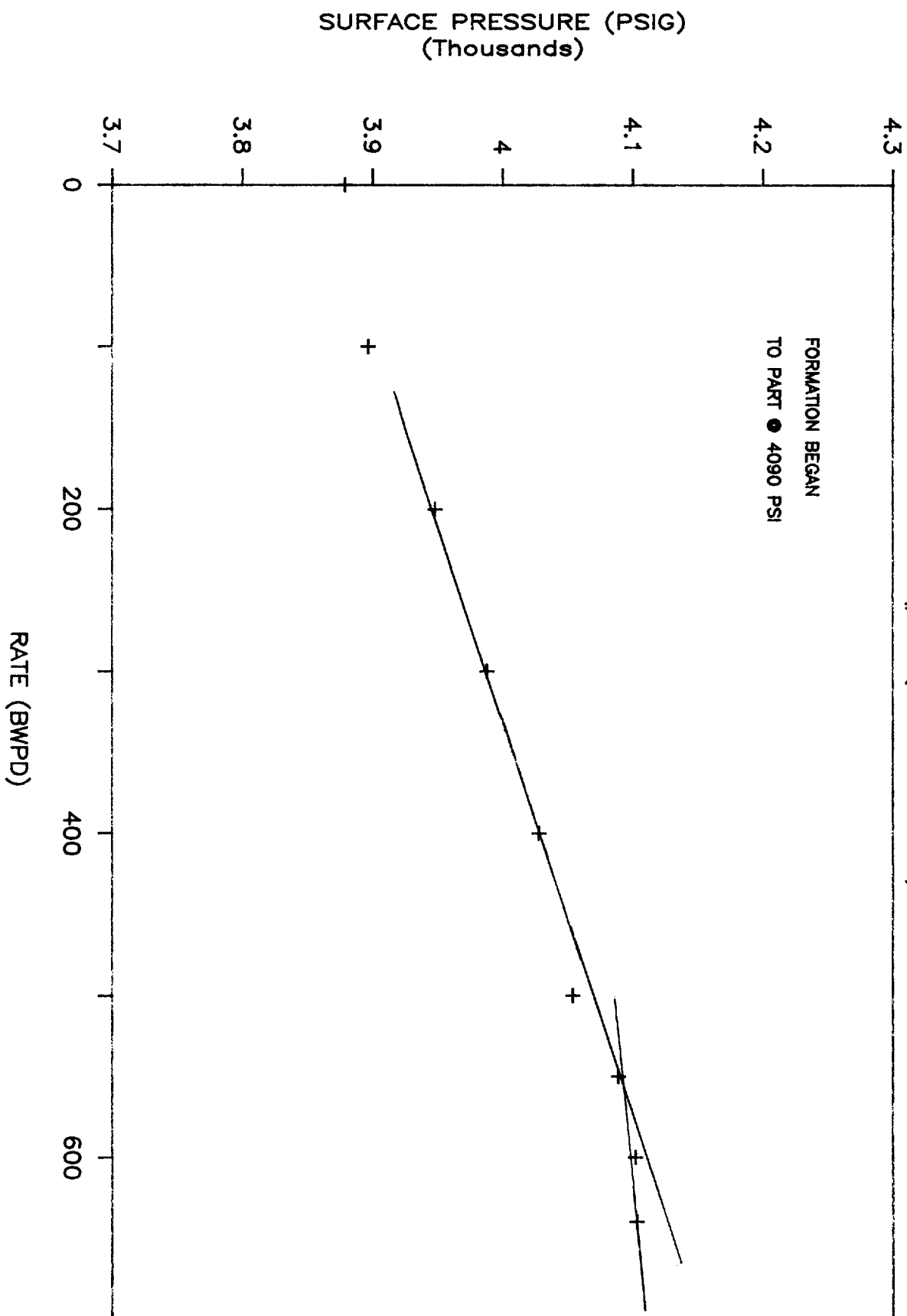
12:54:25	3094	300
12:55:25	3101	300
12:56:25	3120	300
12:57:25	3133	300
12:58:25	3146	300
12:59:25	3157	300
13:00:25	3170	300
13:01:25	3180	500
13:02:25	3191	500
13:03:25	3203	500
13:04:25	3211	500
13:05:25	3224	500
13:06:25	3246	500
13:07:25	3263	500
13:08:25	3275	500
13:09:25	3287	500
13:10:25	3303	500
13:11:25	3315	500
13:12:25	3325	500
13:13:25	3343	500
13:14:25	3350	500
13:15:25	3361	500
13:16:25	3372	600
13:17:25	3382	600
13:18:25	3392	600
13:19:25	3416	600
13:20:25	3433	600
13:21:25	3448	600
13:22:25	3460	600
13:23:25	3471	600
13:24:25	3487	600
13:25:25	3498	600
13:26:25	3509	600
13:27:25	3518	600
13:28:25	3525	600
13:29:25	3536	600
13:30:25	3544	600
13:31:25	3560	700
13:32:25	3570	700
13:33:25	3582	700
13:34:25	3589	700
13:35:25	3605	700
13:36:25	3623	700
13:37:25	3639	700
13:38:25	3646	700
13:39:25	3652	700
13:40:25	3663	700
13:41:25	3671	700
13:42:25	3677	700
13:43:25	3687	700
13:44:25	3694	700
13:45:25	3702	700
13:46:25	3712	800
13:47:25	3722	800
13:48:25	3728	800
13:49:25	3734	800

13:50:25	3761	800
13:51:25	3772	800
13:52:25	3780	800
13:53:25	3791	800
13:54:25	3799	800
13:55:25	3805	800
13:56:25	3815	800
13:57:25	3818	800
13:58:25	3821	800
13:59:25	3829	800
14:00:25	3831	800
14:01:25	3843	900
14:02:25	3851	900
14:03:25	3854	900
14:04:25	3858	900
14:05:25	3868	900
14:06:25	3877	900
14:07:25	3884	900
14:08:25	3886	900
14:09:25	3889	900
14:10:25	3893	900
14:11:25	3899	900
14:12:25	3900	900
14:13:25	3903	900
14:14:25	3906	900
14:15:25	3912	900
14:16:25	3912	925
14:17:25	3918	925
14:18:25	3922	925
14:19:25	3925	925
14:20:25	3927	925 OUT OF H2O
14:21:25	3843	0 SHUT IN
14:22:25	3840	0
14:23:25	3837	0
14:24:25	3830	0
14:25:25	3819	0
14:26:25	3818	0
14:27:25	3810	0
14:28:25	3802	0
14:29:25	3796	0
14:30:25	69	0
14:31:25	37	0
14:32:25	21	0
14:33:25	14	0
14:34:25	14	0
14:35:25	13	0
14:36:25	13	0
14:37:25	13	0
14:38:25	13	0
14:39:25	12	0
14:40:25	12	0
14:41:25	12	0
14:42:25	12	0
14:43:25	13	0
14:44:25	13	0
14:45:25	13	0

14:46:25	13	0
14:47:25	13	0
14:48:25	13	0
14:49:25	13	0
14:50:25	13	0
14:51:25	13	0
14:52:25	13	0
14:53:25	13	0
14:54:25	13	0
14:55:25	13	0
14:56:25	13	0
14:57:25	13	0
14:58:25	13	0
14:59:25	13	0
15:00:25	13	0
15:01:25	13	0
15:02:25	13	0
15:03:25	13	0
15:04:25	13	0
15:05:25	13	0
15:06:25	13	0
15:07:25	13	0
15:08:25	13	0
15:09:25	13	0
15:10:25	13	0
15:11:25	13	0
15:12:25	13	0
15:13:25	13	0
15:14:25	13	0
15:15:25	13	0
15:16:25	13	0
15:17:25	13	0
15:18:25	13	0
15:19:25	13	0
15:20:25	13	0
15:21:25	13	0
15:22:25	13	0
15:23:25	13	0
15:24:25	14	0
15:25:25	13	0
15:26:25	13	0
15:27:25	13	0
15:28:25	13	0
15:29:25	13	0
15:30:25	13	0
15:31:25	13	0

STEP RATE TEST

NVAU #143 (RUN 11-16-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
 LEASE: NORTH VACUUM ABO
 WELL NO. 143
 LOCATION: B27-T17S-R34E
 TEST DATE: 11-16-89
 PERFORATIONS: 8605' - 8680'
 TOTAL DEPTH: 8745'
 PLUG BACK TD: 8730'
 PACKER SET AT: 8579'

TIME	SURFACE PRESSURE	RATE (BWPD)
08:19:25	20	0
08:20:25	19	0
08:21:25	19	0
08:22:25	19	0
08:23:25	19	0
08:24:25	3867	0
08:25:25	3862	0
08:26:25	3864	0
08:27:25	3869	0
08:28:25	3870	0
08:29:25	3875	0
08:30:25	3879	0
08:31:25	3881	100
08:32:25	3882	100
08:33:25	3884	100
08:34:25	3885	100
08:35:25	3888	100
08:36:25	3891	100
08:37:25	3894	100
08:38:25	3897	100
08:39:25	3897	100
08:40:25	3899	100
08:41:25	3899	100
08:42:25	3900	100
08:43:25	3898	100
08:44:25	3897	100
08:45:25	3897	100
08:46:25	3903	200
08:47:25	3904	200
08:48:25	3904	200
08:49:25	3902	200
08:50:25	3904	200
08:51:25	3927	200
08:52:25	3934	200
08:53:25	3938	200
08:54:25	3941	200
08:55:25	3941	200
08:56:25	3938	200
08:57:25	3940	200

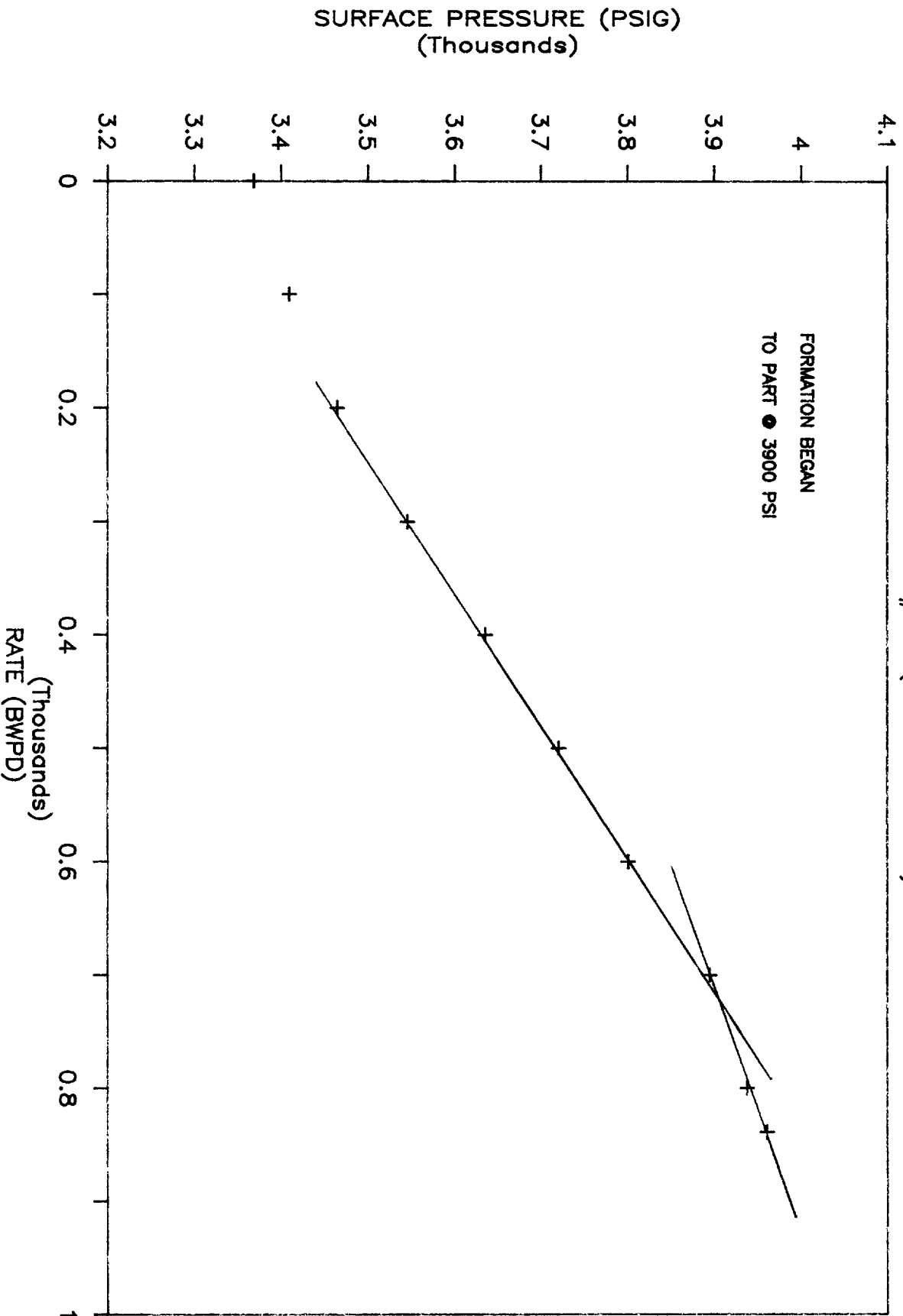
08:58:25	3943	200
08:59:25	3944	200
09:00:25	3948	200
09:01:25	3949	300
09:02:25	3951	300
09:03:25	3954	300
09:04:25	3948	300
09:05:25	3957	300
09:06:25	3963	300
09:07:25	3968	300
09:08:25	3974	300
09:09:25	3975	300
09:10:25	3974	300
09:11:25	3978	300
09:12:25	3983	300
09:13:25	3987	300
09:14:25	3988	300
09:15:25	3988	300
09:16:25	3984	400
09:17:25	3987	400
09:18:25	3970	400
09:19:25	3984	400
09:20:25	4009	400
09:21:25	4014	400
09:22:25	4015	400
09:23:25	4013	400
09:24:25	4016	400
09:25:25	4022	400
09:26:25	4023	400
09:27:25	4026	400
09:28:25	4027	400
09:29:25	4025	400
09:30:25	4028	400
09:31:25	4033	500
09:32:25	4033	500
09:33:25	4034	500
09:34:25	4037	500
09:35:25	4037	500
09:36:25	4037	500
09:37:25	4047	500
09:38:25	4051	500
09:39:25	4049	500
09:40:25	4053	500
09:41:25	4053	500
09:42:25	4057	500
09:43:25	4058	500
09:44:25	4064	500
09:45:25	4068	500
09:46:25	4068	550
09:47:25	4073	550
09:48:25	4073	550
09:49:25	4073	550
09:50:25	4075	550
09:51:25	4076	550
09:52:25	4076	550
09:53:25	4078	550

09:54:25	4079	550
09:55:25	4083	550
09:56:25	4085	550
09:57:25	4087	550
09:58:25	4089	550
09:59:25	4089	550
10:00:25	4089	550
10:01:25	4084	600
10:02:25	4085	600
10:03:25	4088	600
10:04:25	4089	600
10:05:25	4095	600
10:06:25	4100	600
10:07:25	4099	600
10:08:25	4097	600
10:09:25	4099	600
10:10:25	4098	600
10:11:25	4099	600
10:12:25	4103	600
10:13:25	4105	600
10:14:25	4101	600
10:15:25	4102	600
10:16:25	4105	640
10:17:25	4101	640
10:18:25	4098	640
10:19:25	4100	640
10:20:25	4101	640
10:21:25	4103	640
10:22:25	4097	0
10:23:25	4037	0
10:24:25	4039	0
10:25:25	4031	0
10:26:25	4025	0
10:27:25	4020	0
10:28:25	4011	0
10:29:25	4005	0
10:30:25	4000	0
10:31:25	41	0
10:32:25	31	0
10:33:25	28	0
10:34:25	25	0
10:35:25	20	0
10:36:25	20	0
10:37:25	20	0
10:38:25	21	0
10:39:25	21	0
10:40:25	21	0
10:41:25	21	0
10:42:25	21	0
10:43:25	22	0
10:44:25	21	0
10:45:25	22	0
10:46:25	22	0
10:47:25	22	0
10:48:25	22	0
10:49:25	22	0

10:50:25	22	0
10:51:25	22	0
10:52:25	22	0
10:53:25	22	0
10:54:25	22	0
10:55:25	22	0
10:56:25	22	0
10:57:25	23	0
10:58:25	22	0
10:59:25	21	0
11:00:25	21	0
11:01:25	21	0
11:02:25	21	0
11:03:25	21	0

STEP RATE TEST

NVAU #146 (RUN 11-15-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
 LEASE: NORTH VACUUM ABO
 WELL NO. 146
 LOCATION: B14-T17S-R34E
 TEST DATE: 11-15-89
 PERFORATIONS: 8516' - 8590'
 TOTAL DEPTH: 8700'
 PLUG BACK TD: 8669'
 PACKER SET AT: 8462'

TIME	SURFACE PRESSURE	RATE (BWPD)

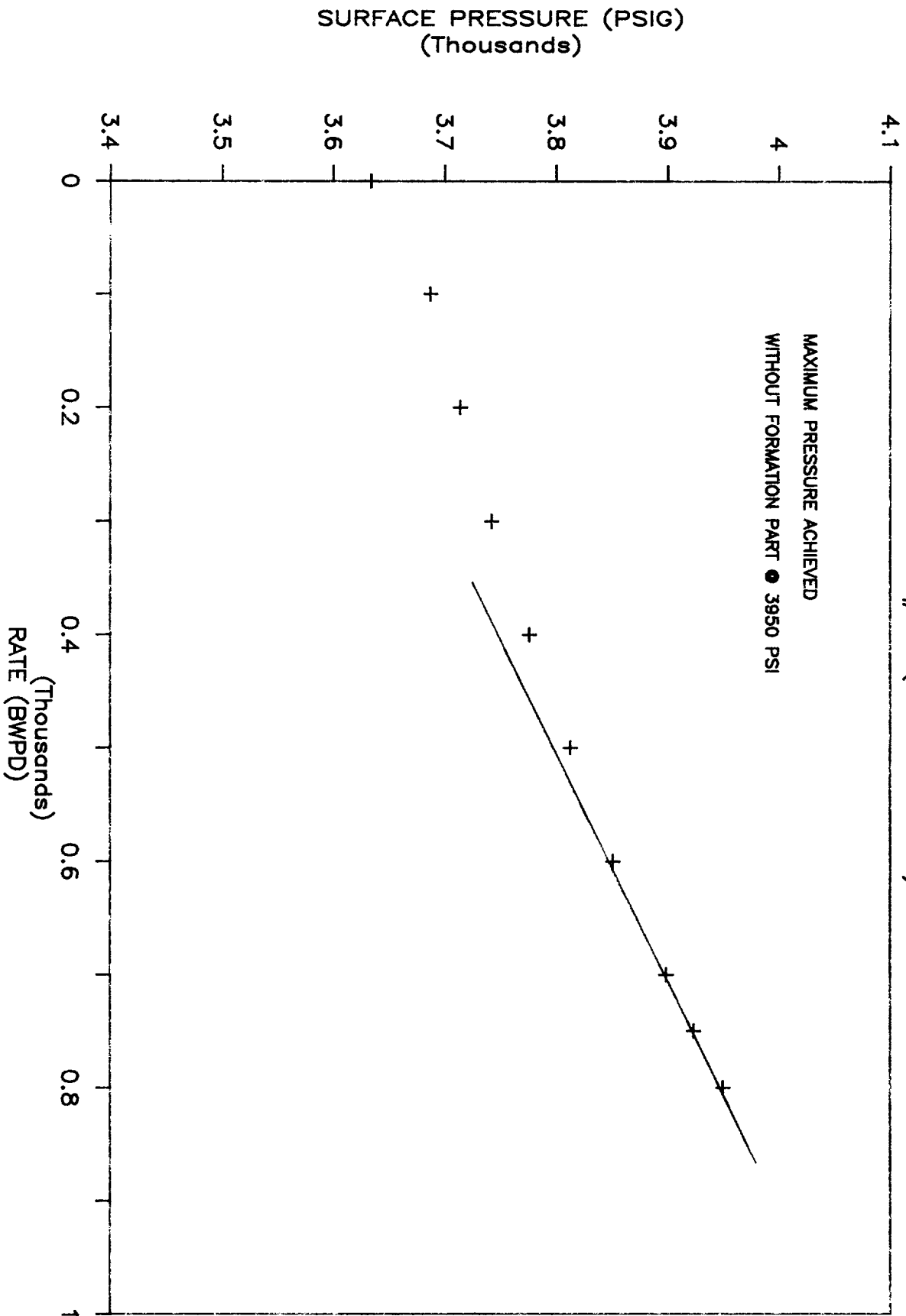
09:11:24	15	0
09:12:24	15	0
09:13:24	15	0
09:14:24	15	0
09:15:24	14	0
09:16:24	14	0
09:17:24	15	0
09:18:24	14	0
09:19:24	14	0
09:20:24	661	0
09:21:24	47	0
09:22:24	3379	0
09:23:24	3373	0
09:24:24	3371	0
09:25:24	3369	0
09:26:24	3380	100
09:27:24	3380	100
09:28:24	3384	100
09:29:24	3388	100
09:30:24	3391	100
09:31:24	3393	100
09:32:24	3395	100
09:33:24	3397	100
09:34:24	3400	100
09:35:24	3402	100
09:36:24	3403	100
09:37:24	3405	100
09:38:24	3407	100
09:39:24	3409	100
09:40:24	3410	100
09:41:24	3412	200
09:42:24	3422	200
09:43:24	3427	200
09:44:24	3431	200

09:45:24	3435	200
09:46:24	3439	200
09:47:24	3440	200
09:48:24	3444	200
09:49:24	3448	200
09:50:24	3451	200
09:51:24	3454	200
09:52:24	3457	200
09:53:24	3460	200
09:54:24	3462	200
09:55:24	3465	200
09:56:24	3478	300
09:57:24	3486	300
09:58:24	3493	300
09:59:24	3499	300
10:00:24	3504	300
10:01:24	3509	300
10:02:24	3514	300
10:03:24	3518	300
10:04:24	3523	300
10:05:24	3527	300
10:06:24	3531	300
10:07:24	3535	300
10:08:24	3539	300
10:09:24	3542	300
10:10:24	3546	300
10:11:24	3565	400
10:12:24	3572	400
10:13:24	3579	400
10:14:24	3587	400
10:15:24	3593	400
10:16:24	3598	400
10:17:24	3604	400
10:18:24	3607	400
10:19:24	3612	400
10:20:24	3616	400
10:21:24	3621	400
10:22:24	3625	400
10:23:24	3629	400
10:24:24	3632	400
10:25:24	3636	400
10:26:24	3660	500
10:27:24	3667	500
10:28:24	3673	500
10:29:24	3678	500
10:30:24	3683	500
10:31:24	3688	500
10:32:24	3692	500
10:33:24	3696	500
10:34:24	3701	500
10:35:24	3704	500
10:36:24	3708	500
10:37:24	3712	500
10:38:24	3715	500
10:39:24	3718	500
10:40:24	3721	500

10:41:24	3751	600
10:42:24	3755	600
10:43:24	3760	600
10:44:24	3765	600
10:45:24	3767	600
10:46:24	3772	600
10:47:24	3776	600
10:48:24	3778	600
10:49:24	3782	600
10:50:24	3785	600
10:51:24	3789	600
10:52:24	3792	600
10:53:24	3794	600
10:54:24	3798	600
10:55:24	3801	600
10:56:24	3825	700
10:57:24	3830	700
10:58:24	3834	700
10:59:24	3837	700
11:00:24	3840	700
11:01:24	3843	700
11:02:24	3846	700
11:03:24	3849	700
11:04:24	3851	700
11:05:24	3854	700
11:06:24	3856	700
11:07:24	3858	700
11:08:24	3861	700
11:09:24	3868	700
11:10:24	3895	700
11:11:24	3897	800
11:12:24	3900	800
11:13:24	3903	800
11:14:24	3905	800
11:15:24	3907	800
11:16:24	3910	800
11:17:24	3912	800
11:18:24	3914	800
11:19:24	3916	800
11:20:24	3918	800
11:21:24	3919	800
11:22:24	3921	800
11:23:24	3923	800
11:24:24	3925	800
11:25:24	3938	800
11:26:24	3941	839
11:27:24	3943	839
11:28:24	3945	839
11:29:24	3947	839
11:30:24	3949	839
11:31:24	3949	839
11:32:24	3951	839
11:33:24	3951	839
11:34:24	3952	839
11:35:24	3954	839
11:36:24	3955	839

STEP RATE TEST

NVAU #149 (RUN 11-15-89)



STEP RATE TEST

COMPANY: MOBIL EXPLORATION & PRODUCING U.S. INC.
 LEASE: NORTH VACUUM ABO
 WELL NO. 149
 LOCATION: J27-T17S-R34E
 TEST DATE: 11-15-89
 PERFORATIONS: 8577' - 8681'
 TOTAL DEPTH: 8750'
 PLUG BACK TD: 8708'
 PACKER SET AT: 8500'

TIME	SURFACE PRESSURE	RATE (BWPD)
12:51:24	13	0
12:52:24	13	0
12:53:24	13	0
12:54:24	13	0
12:55:24	13	0
12:56:24	13	0
12:57:24	13	0
12:58:24	13	0
12:59:24	13	0
13:00:24	13	0
13:01:24	13	0
13:02:24	3640	0
13:03:24	3640	0
13:04:24	3640	0
13:05:24	3638	0
13:06:24	3636	0
13:07:24	3638	0
13:08:24	3637	0
13:09:24	3634	0
13:10:24	3634	0
13:11:24	3639	100
13:12:24	3642	100
13:13:24	3651	100
13:14:24	3655	100
13:15:24	3663	100
13:16:24	3670	100
13:17:24	3675	100
13:18:24	3681	100
13:19:24	3685	100
13:20:24	3686	100
13:21:24	3686	100
13:22:24	3686	100
13:23:24	3689	100
13:24:24	3687	100
13:25:24	3687	100
13:26:24	3692	200

13:27:24	3691	200
13:28:24	3694	200
13:29:24	3692	200
13:30:24	3694	200
13:31:24	3695	200
13:32:24	3700	200
13:33:24	3703	200
13:34:24	3703	200
13:35:24	3703	200
13:36:24	3704	200
13:37:24	3704	200
13:38:24	3705	200
13:39:24	3708	200
13:40:24	3714	200
13:41:24	3720	300
13:42:24	3723	300
13:43:24	3724	300
13:44:24	3723	300
13:45:24	3723	300
13:46:24	3727	300
13:47:24	3727	300
13:48:24	3727	300
13:49:24	3733	300
13:50:24	3735	300
13:51:24	3738	300
13:52:24	3734	300
13:53:24	3737	300
13:54:24	3740	300
13:55:24	3742	300
13:56:24	3746	400
13:57:24	3753	400
13:58:24	3755	400
13:59:24	3758	400
14:00:24	3762	400
14:01:24	3764	400
14:02:24	3765	400
14:03:24	3768	400
14:04:24	3767	400
14:05:24	3766	400
14:06:24	3766	400
14:07:24	3772	400
14:08:24	3773	400
14:09:24	3776	400
14:10:24	3776	400
14:11:24	3775	500
14:12:24	3790	500
14:13:24	3794	500
14:14:24	3795	500
14:15:24	3798	500
14:16:24	3797	500
14:17:24	3799	500
14:18:24	3802	500
14:19:24	3807	500
14:20:24	3809	500
14:21:24	3807	500
14:22:24	3807	500

14:23:24	3807	500
14:24:24	3810	500
14:25:24	3813	500
14:26:24	3830	600
14:27:24	3837	600
14:28:24	3839	600
14:29:24	3842	600
14:30:24	3841	600
14:31:24	3841	600
14:32:24	3842	600
14:33:24	3842	600
14:34:24	3842	600
14:35:24	3844	600
14:36:24	3845	600
14:37:24	3845	600
14:38:24	3847	600
14:39:24	3849	600
14:40:24	3851	600
14:41:24	3859	700
14:42:24	3864	700
14:43:24	3872	700
14:44:24	3880	700
14:45:24	3882	700
14:46:24	3886	700
14:47:24	3885	700
14:48:24	3886	700
14:49:24	3890	700
14:50:24	3893	700
14:51:24	3890	700
14:52:24	3890	700
14:53:24	3891	700
14:54:24	3897	700
14:55:24	3899	700
14:56:24	3908	750
14:57:24	3911	750
14:58:24	3913	750
14:59:24	3915	750
15:00:24	3914	750
15:01:24	3917	750
15:02:24	3916	750
15:03:24	3918	750
15:04:24	3920	750
15:05:24	3920	750
15:06:24	3920	750
15:07:24	3920	750
15:08:24	3922	750
15:09:24	3924	750
15:10:24	3924	750
15:11:24	3933	800
15:12:24	3936	800
15:13:24	3938	800
15:14:24	3940	800
15:15:24	3944	800
15:16:24	3945	800
15:17:24	3944	800
15:18:24	3944	800

11:37:24	3956	839
11:38:24	3957	839
11:39:24	3958	839
11:40:24	3959	839
11:41:24	3960	839
11:42:24	3961	839 MAX. CHOKE
11:43:24	3858	0
11:44:24	3850	0
11:45:24	3846	0
11:46:24	3842	0
11:47:24	3838	0
11:48:24	3835	0
11:49:24	803	0
11:50:24	35	0
11:51:24	19	0
11:52:24	15	0
11:53:24	13	0
11:54:24	14	0
11:55:24	13	0
11:56:24	13	0
11:57:24	13	0
11:58:24	13	0
11:59:24	13	0
12:00:24	13	0
12:01:24	13	0
12:02:24	13	0
12:03:24	13	0
12:04:24	13	0
12:05:24	13	0
12:06:24	13	0
12:07:24	13	0
12:08:24	13	0
12:09:24	13	0
12:10:24	13	0
12:11:24	13	0
12:12:24	13	0
12:13:24	13	0
12:14:24	13	0
12:15:24	13	0
12:16:24	13	0
12:17:24	13	0
12:18:24	13	0
12:19:24	13	0
12:20:24	13	0
12:21:24	13	0
12:22:24	13	0
12:23:24	13	0
12:24:24	13	0
12:25:24	13	0
12:26:24	13	0
12:27:24	13	0
12:28:24	13	0
12:29:24	13	0
12:30:24	13	0
12:31:24	13	0
12:32:24	13	0

12:33:24	13	0
12:34:24	13	0
12:35:24	13	0
12:36:24	13	0
12:37:24	13	0
12:38:24	13	0
12:39:24	13	0
12:40:24	13	0
12:41:24	13	0
12:42:24	13	0
12:43:24	13	0
12:44:24	13	0
12:45:24	13	0
12:46:24	13	0
12:47:24	13	0
12:48:24	13	0
12:49:24	13	0
12:50:24	13	0

15:19:24	3944	800
15:20:24	3945	800
15:21:24	3946	800
15:22:24	3946	800
15:23:24	3949	800
15:24:24	3950	800
15:25:24	3861	800 MAX. CHOKE
15:26:24	3855	0
15:27:24	3853	0
15:28:24	3851	0
15:29:24	3848	0
15:30:24	3844	0
15:31:24	3842	0
15:32:24	177	0
15:33:24	16	0
15:34:24	17	0
15:35:24	17	0
15:36:24	18	0
15:37:24	18	0
15:38:24	18	0
15:39:24	18	0
15:40:24	19	0
15:41:24	19	0
15:42:24	19	0
15:43:24	19	0
15:44:24	19	0
15:45:24	20	0
15:46:24	20	0
15:47:24	20	0
15:48:24	21	0
15:49:24	21	0
15:50:24	21	0
15:51:24	21	0
15:52:24	21	0
15:53:24	21	0
15:54:24	21	0
15:55:24	21	0
15:56:24	21	0
15:57:24	21	0
15:58:24	21	0
15:59:24	21	0
16:00:24	21	0
16:01:24	21	0
16:02:24	21	0
16:03:24	22	0
16:04:24	22	0
16:05:24	22	0
16:06:24	22	0
16:07:24	22	0
16:08:24	22	0
16:09:24	22	0
16:10:24	22	0
16:11:24	22	0
16:12:24	22	0
16:13:24	22	0
16:14:24	22	0

16:15:24	22	0
16:16:24	22	0
16:17:24	22	0
16:18:24	22	0
16:19:24	22	0
16:20:24	22	0
16:21:24	22	0
16:22:24	22	0
16:23:24	22	0
16:24:24	22	0
16:25:24	22	0
16:26:24	22	0



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

December 5, 1989

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

RE: APPLICATION FOR PRESSURE LIMIT INCREASE FOR DISPOSAL & INJECTION WELLS

Gentlemen:

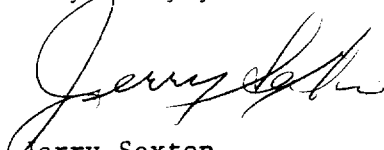
I have examined the step rate test for the:

Mobil Prod TX & NM Inc.	North Vacuum Abo Unit	#121-L	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 AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
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OIL CONSERVATION DIVISION
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	#112-D	25-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

*RATE SEEMS HIGH FOR such a flat curve
at start of test*

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



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OIL CONSERVATION DIVISION
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	#129-B	23-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

No enough points

Very truly yours

Jerry Sexton
Jerry Sexton
Supervisor, District I

/bp



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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	#139-L	14-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



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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	#143-B	27-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

Maybe slightly high

Very truly yours

Jerry Sexton
Supervisor, District I

/bp



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(505) 393-6161

OIL CONSERVATION DIVISION
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	#146-B	14-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

OK

Very truly yours

Jerry Sexton
Supervisor, District I

/bp