STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

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

February 1, 1994

SWD-495
pDEV0020900495

Rowland Trucking Company, Inc.
P.O. Box 340
Hobbs, NM 88241

Attention: Marc Wise

RE: Injection Pressure Increase, BKE Well No. 1, Eddy County, New Mexico

Dear Mr. Wise:

Reference is made to your request dated January 17, 1994 to increase the surface injection pressure on the BKE Well No. 1. This request is based on a step rate test conducted on this well on January 5, 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
BKE Well No. 1 Unit H, Section 13, Township 22 South, Range 27 East	1110 PSIG
This well located in 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,

William J. LeMay
Director

WJL/DRC/amg

cc: Oil Conservation Division - Hobbs
D. Catanach
R. Brown
File: SWD-495

NO WAITING PERIOD

COMPANY: Rowland Trucking Co., Inc

ADDRESS: P.O. Box 346

CITY, STATE, ZIP: Hobbs, New Mexico 88241

ATTENTION: ~~Albert~~ Mare Wise

Re: Injection Pressure Increase
BKE Well No. 1

Eddy County, New Mexico

Dear Sir:

Reference is made to your request dated January 17, 1994, to increase the surface injection pressure on the BKE Well No. 1. This request is based on a step rate test conducted on the well on January 5, 1994. 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
BKE Well No. 1 Unit H, Section 13, T-22-South, R-27 East, NMPM, Eddy County, New Mexico	1110 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.

R. Brown

xc: ~~T. GALLEGOS~~
D. CATANACH
FILE- SWD-495
OCD- Hobbs

ROWLAND TRUCKING CO., INC.

P.O. BOX 340
HOBBS, NEW MEXICO 88241

PHONE
[505] 397-0199

FAX
[505] 397-0392

January 17, 1994

Mr. William J. LeMay
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504

Re: B.K.E. No. 1 SWD - Step Rate Test

Dear Mr. LeMay,

The B.K.E. No. 1 well was recently recompleted as a Salt Water Disposal well under Administrative Order SWD-495. The limiting surface pressure stated in the order is 800 psi.

A Step Rate Test was performed on the subject well on January 5, 1994, by John West Engineering. The results of the test are enclosed.

The test indicates a surface tubing fracture pressure of 1160 psig.

We are requesting that the maximum allowable surface tubing pressure be increased from 800 psi to 1100 psig based on the subject test.

Sincerely,
ROWLAND TRUCKING, INC.

Marc Wise

Marc Wise
Agent

Enclosures

WEST – TEST, INC.

A SUBSIDIARY OF JOHN WEST ENGINEERING COMPANY

Hobbs, New Mexico

STEP RATE INJECTION TEST

CLIENT: ROWLAND TRUCKING COMPANY **DATE:** JANUARY 5, 1994

WELL NAME: BKE NO.1 **WO#:** 94–14–0018

Eddy County, New Mexico

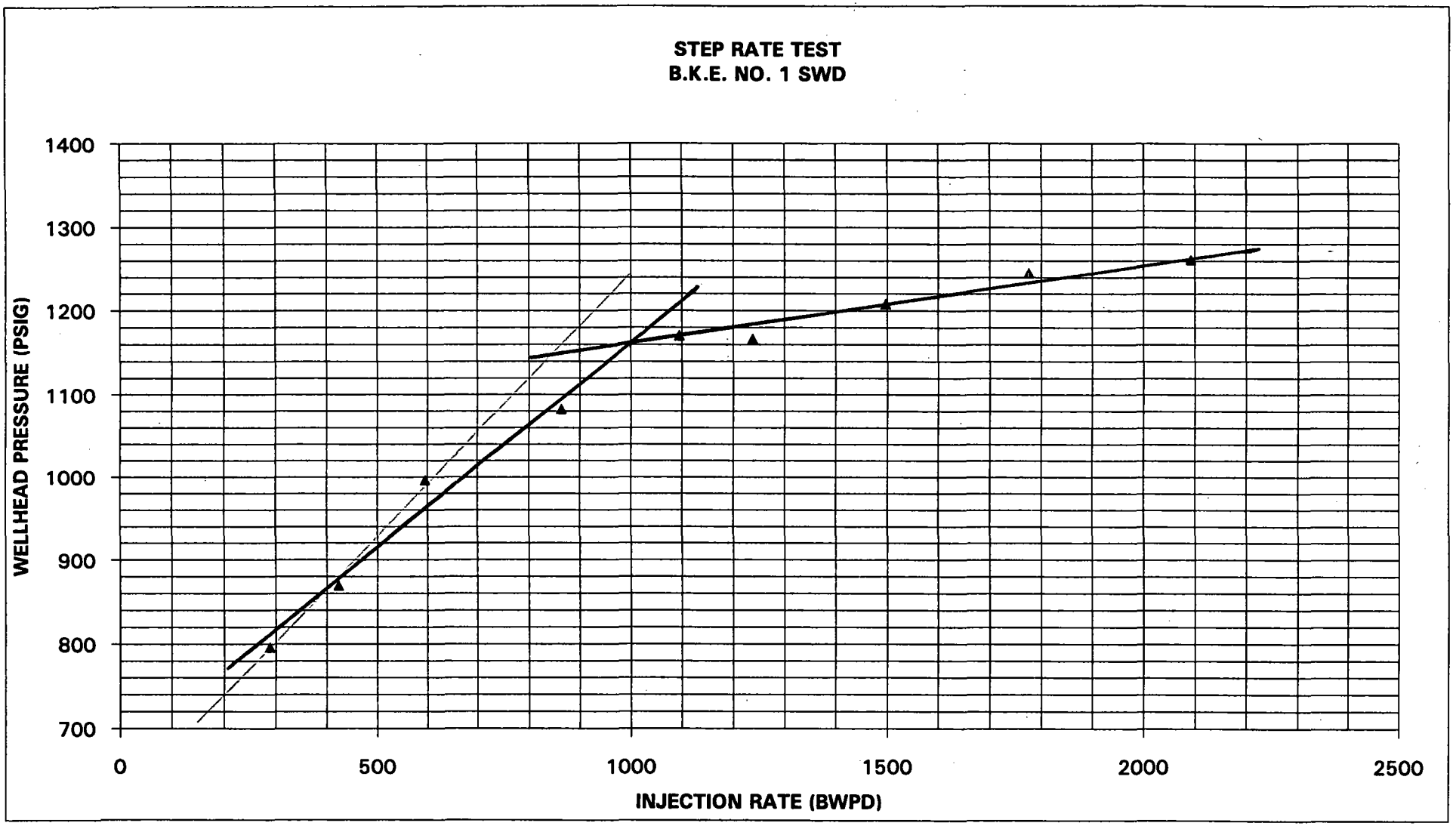
MID–PERFS. 4014–4220

PACKER DEP. = 3939

BHP GAUGE DEPTH = 4100

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)–(4)	(6) INJECTION RATE (gpm) (3)/34.2857	(7) MEASURED BHP (psi)
	8:45	46.7				46.7		1951
	8:50	739.9	0.9	259.2	1.090	738.8	7.56	2639
	8:55	781.7	1.9	288.0	1.325	780.4	8.40	2675
1	9:00	796.6	3.0	316.8	1.580	795.0	9.24	2690
				288.0				
	9:05	823.0	4.4	403.2	2.469	820.5	11.76	2700
	9:10	854.7	5.9	432.0	2.805	851.9	12.60	2710
2	9:15	869.8	7.4	432.0	2.805	867.0	12.60	2720
				422.4				
	9:20	915.5	9.4	576.0	4.776	910.7	16.80	2764
	9:25	943.2	11.5	604.8	5.227	938.0	17.64	2784
3	9:30	996.5	13.6	604.8	5.227	991.3	17.64	2796
				595.2				
	9:35	1053.8	16.6	864.0	10.112	1043.7	25.20	2840
	9:40	1077.9	19.7	892.8	10.744	1067.2	26.04	2857
4	9:45	1083.0	22.6	835.2	9.497	1073.5	24.36	2870
				864.0				
	9:50	1141.7	26.3	1065.6	14.905	1126.8	31.08	2901
	9:55	1158.2	30.1	1094.4	15.659	1142.5	31.92	2919
5	10:00	1170.9	34.0	1123.2	16.430	1154.5	32.76	2936
				1094.4				
	10:05	1161.8	38.2	1209.6	18.844	1143.0	35.28	2932
	10:10	1178.4	42.6	1267.2	20.538	1157.9	36.96	2942
6	10:15	1166.8	46.9	1238.4	19.683	1147.1	36.12	2946
				1238.4				
	10:20	1199.6	52.1	1497.6	27.975	1171.6	43.68	2960
	10:25	1205.7	57.3	1497.6	27.975	1177.7	43.68	2968
7	10:30	1207.9	62.5	1497.6	27.975	1179.9	43.68	2973
				1497.6				

STEP NO. & REMARKS	TIME	(1) SURFACE TUBING PRESS. (psig)	(2) CUMMULATIVE VOL. INJECTED (bbls)	(3) INJECTION RATE (bbls/day)	(4) FRICTION HEAD LOSS (psi)	(5) CORRECTED TUBING PRESS. (psi) (1)-(4)	(6) INJECTION RATE (gpm) (3)/34.2857	MEASURED BHP (psi)
	10:35	1250.0	68.5	1728.0	36.454	1213.5	50.40	2983
	10:40	1222.8	74.8	1814.4	39.898	1182.9	52.92	2992
8	10:45	1245.7	81.0	1785.6	38.734	1207.0	52.08	2996
				1776.0				
	10:50	1262.1	88.3	2102.4	52.398	1209.7	61.32	3000
	10:55	1259.3	95.6	2102.4	52.398	1206.9	61.32	2994
9	11:00	1261.5	102.8	2073.6	51.078	1210.4	60.48	2991
				2092.8				
FALLOFF	11:01	1208.9				1208.9		2976
	11:02	1188.4				1188.4		2966
	11:03	1179.4				1179.4		2958
	11:04	1174.2				1174.2		2951
	11:05	1169.0				1169.0		2946
	11:10	1148.4				1148.4		2925
	11:15	1131.7				1131.7		2907


STEP RATE TEST
B.K.E. NO. 1 SWD
WELLHEAD PRESSURE (PSIG)
1400
1300
1200
1100
1000
900
800
700
0
500
1000
1500
2000
2500
INJECTION RATE (BWPD)

1/17/94