

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
 Dup - NBM&G
 Trip - DWR
 Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel & Casino Month of December, 19 92

Address 2707 South Virginia St., Reno, NV 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Moana Commercial well on private property	4	192.7	5,396.6	140	Alta (?)	~2800-3000

Remarks: Measurements of injectate volume from meter in transmission line for 11/30/92 - 12/28/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature *Dale B.*

Position Hydrogeologist

Date 2/24/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel & Casino Month of November, 19 92

Address 2707 South Virginia St., Reno, NV 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Moana Commercial well on private property	4	192.9	5,400.0	131	Alta (?)	~2800-3000

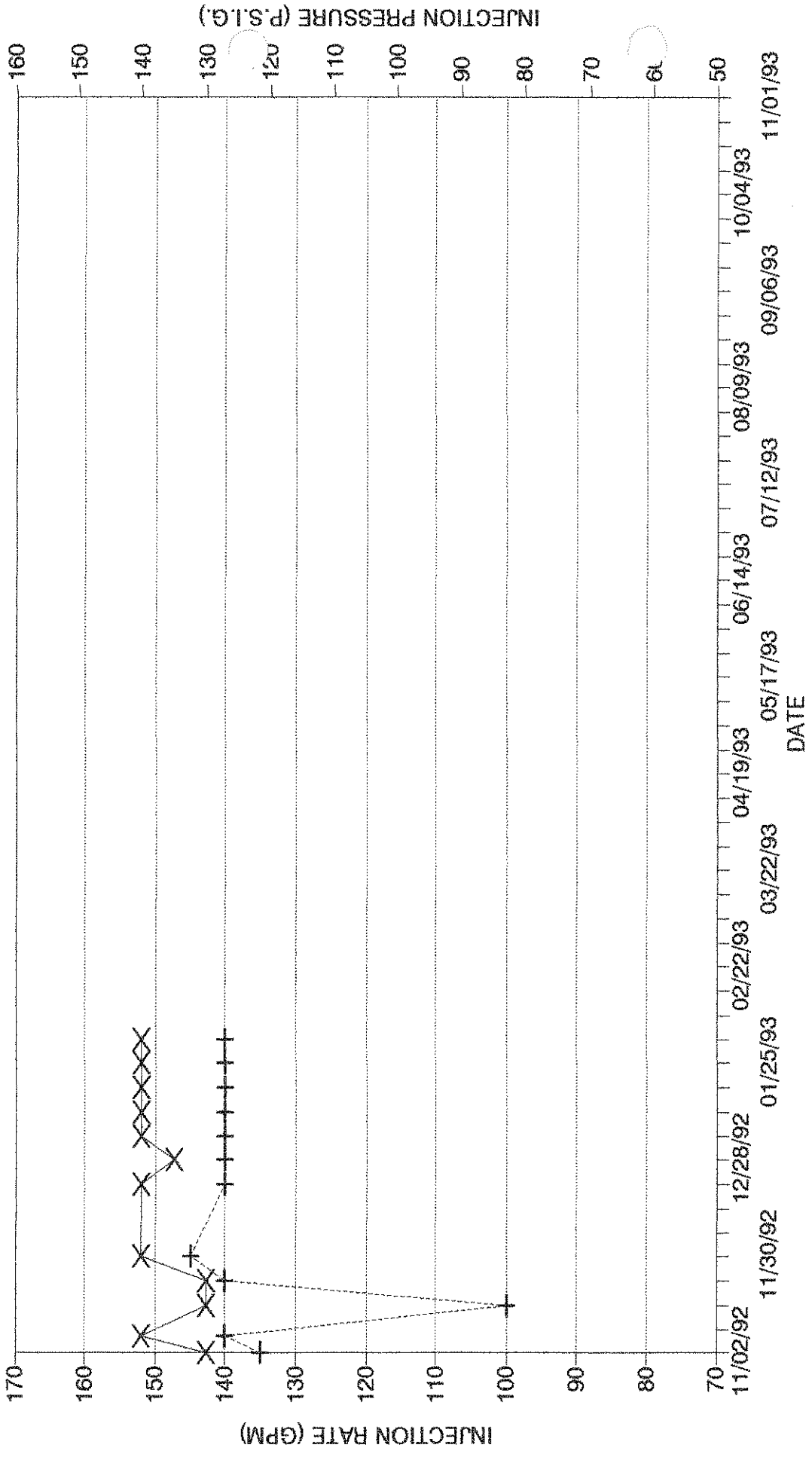
Remarks: Measurements of injectate volume from meter in transmission line for 11/2/92 - 11/30/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature *Tale C. B...*
 Position Hydrogeologist
 Date 2/24/93

PEPPERMILL WELL NO. 4

Quarterly Report 11/92-2/93



Injection rate
 Injection pressure

WILLIAM E. NORK, Inc.

1026 W. First Street • Reno, Nevada 89503

CONSULTING SERVICES IN HYDROLOGY AND GEOLOGY

Phone (702) 322-2604

K-FILE D-1

RECEIVED

DEC 24 1992

Dept. of Minerals

December 23, 1992
92-422-02

Marcia Greybeck
DIVISION OF ENVIRONMENTAL PROTECTION
123 West Nye Lane, Rm. #241
Carson City, Nevada 89710

RE: UIC PERMIT NEV 70064 - PEPPERMILL HOTEL AND CASINO.

Dear Marcia:

Water chemistry data for the Annual Report dated November 20, 1992 for the referenced injection well is provided for your records. Please do not hesitate to contact us if you have any questions.

Sincerely,
WILLIAM E. NORK, INC.

Dale C. Bugenig
Dale Bugenig
Hydrogeologist

attachments

cc: Department of Minerals
Division of Water Resources
Becky Perkey - NBOM&G



ANNUAL REPORT
INJECTION WELL #4

1. PERMIT NO.: 70064

2. REPORTING PERIOD: from 91/11/04 to 92/11/02
yr. mo. day yr. mo. day

3. CHEMICAL ANALYSES SUMMARY

a. Sample Location: Peppermill Hotel and Casino

b. Sample Date: 92/11/20 Sample Time: 11:00
yr. mo. day hr.

c. Laboratory: Sierra Environ- Analyst: SEM Staff
mental Monitoring

d. Parameter Results* (Unfiltered)	Precision	Date Analyzed
1. pH @ 25°C	+ 0.05 SU	11/20/92
2. Calcium	+ 1.0 mg/l	"
3. Magnesium	+ 0.2 "	"
4. Sodium	+ 5 "	"
5. Potassium	+ 0.3 "	"
6. Chloride	+ 5 "	"
7. Sulfate	+10 "	"
8. Bicarbonate	+10 "	"
9. Flouride	+ 0.1 "	"
10. Boron	+ 0.2 "	"
11. Arsenic	+ 0.01 "	"
12. Silica	+ 5 "	"
13. Total Dis- solved Solids	+10 "	"
14. Electrical Conductivity	+20 umhos/cm/	"

e. Analytical Method Used:

pH - 150.1	HCO ₃ - 310.1
Ca - 215.1	F - 340.2
Mg - 242.1	B - 212.3
Na - 273.1	As - 206.3
K - 258.1	SiO ₂ - 370.1
Cl - sm 4500CL.B	TDS - 160.1
SO ₄ - 375.4	E.C. - 120.1



4. Injection Rate

- a. Average = 161.8 gal/day x 1000
- b. Lowest Flow = 115 gal/day x 1000
- c. Highest Flow = 216 gal/day x 1000

5. Injection Pressure

- a. Average = 121.9 psig
- b. Lowest = 80 psig
- c. Highest = 150 psig

* (Analyses as per 40 CFR Part 136)

6. Totallizing Meter Reading : 72,074,000 ending

Period 91 / 11 / 04 to 92 / 11 / 02 ; 13,016,500 initial
yr. mo. day yr. mo. day

59,057,500 total
(for report period)

7. Instantaneous Readings**:

- a. Injection Rate, gpm (weekly)
- b. Injection Pressure, psig (weekly)
- c. Injection Volume gallons (weekly)

** summary Tabulation to be attached to this report.



WILLIAM E. NORK, Inc.

1026 W. First Street • Reno, Nevada 89503

CONSULTING SERVICES IN HYDROLOGY AND GEOLOGY

Phone (702) 322-2604

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Dept. of Minerals

November 20, 1992
92-422-02

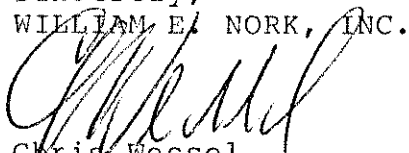
Marcia Greybeck
DIVISION OF ENVIRONMENTAL PROTECTION
123 West Nye lane, Rm. #241
Carson City, Nevada 89710

RE: UIC PERMIT NEV 70064 - PEPPERMILL HOTEL AND CASINO.

Dear Marcia:

The annual report for the referenced injection well is provided for your records. Please do not hesitate to contact us if you have any questions.

Sincerely,
WILLIAM E. NORK, INC.


Chris Wessel
Hydrogeologist

attachments

cc: Department of Minerals
Division of Water Resources
Becky Perkey - NBOM&G



PEPPERMILL HOTEL CASINO INJECTION WELL #4

PERMIT NEV70064

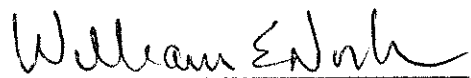
ANNUAL REPORT

November 20, 1992

Submitted to:

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

Prepared by:
WILLIAM E. NORK, INC.


William E. Nork, President



WILLIAM E. NORK, Inc.

Water chemistry analysis for the Peppermill Well #4 has not been completed. We will send you a supplement with the water quality results as soon as they become available.



WILLIAM E. NORK, Inc.

Reno, Nevada 89503

WATER CHEMISTRY DATA



WILLIAM E. NORK, Inc.

Reno, Nevada 89503

ANNUAL REPORT
INJECTION WELL #4

1. PERMIT NO.: 70064

2. REPORTING PERIOD: from 91/11/04 to 92/11/02
 yr. mo. day yr. mo. day

3. CHEMICAL ANALYSES SUMMARY

a. Sample Location: Peppermill Hotel and Casino

b. Sample Date: / / Sample Time:
 yr. mo. day hr.

c. Laboratory: Sierra Environ- Analyst:
 mental Monitoring

d. Parameter Results* (Unfiltered)	Precision	Date Analyzed
1. pH @ 25°C	+ 0.05 SU /	<u> </u>
2. Calcium	+ 1.0 mg/l /	<u> </u>
3. Magnesium	+ 0.2 " /	<u> </u>
4. Sodium	+ 5 " /	<u> </u>
5. Potassium	+ 0.3 " /	<u> </u>
6. Chloride	+ 5 " /	<u> </u>
7. Sulfate	+10 " /	<u> </u>
8. Bicarbonate	+10 " /	<u> </u>
9. Flouride	+ 0.1 " /	<u> </u>
10. Boron	+ 0.2 " /	<u> </u>
11. Arsenic	+ 0.01 " /	<u> </u>
12. Silica	+ 5 " /	<u> </u>
13. Total Dis- solved Solids	+10 " /	<u> </u>
14. Electrical Conductivity	+20 umhos/cm/	<u> </u>

e. Analytical Method Used: pH - 150.1 HCO₃ - 310.1
 Ca - 215.1 F - 340.2
 Mg - 242.1 B - 212.3
 Na - 273.1 As - 206.3
 K - 258.1 SiO₂ - 370.1
 Cl - sm 4500CL.B TDS - 160.1
 SO₄⁻ 375.4 E.C. - 120.1



4. Injection Rate

- a. Average = _____ gal/day x 1000
- b. Lowest Flow = _____ gal/day x 1000
- c. Highest Flow = _____ gal/day x 1000

5. Injection Pressure

- a. Average = _____ psig
- b. Lowest = _____ psig
- c. Highest = _____ psig

* (Analyses as per 40 CFR Part 136)

6. Totallizing Meter Reading : _____ ending

Period / / to / / ; _____ initial
 yr. mo. day yr. mo. day
_____ total
(for report period)

7. Instantaneous Readings**:

- a. Injection Rate, gpm (weekly)
- b. Injection Pressure, psig (weekly)
- c. Injection Volume gallons (weekly)

** summary Tabulation to be attached to this report.



SUMMARY OF INJECTION RATES



WILLIAM E. NORK, Inc.

Reno, Nevada 89503

Injection Well #4
 Weekly Injection Summary*
 Permit No. NV 70064

Date (yr./mo/day)	Meter Reading (gallons)	Weekly Total (gallons)
11/04/91	13016500	
11/11/91	14272700	1256200
11/18/91	15559000	1286300
11/25/91	16830600	1271600
12/02/91	18112200	1281600
12/09/91	19387500	1275300
12/16/91	20657100	1269600
12/23/91	21926800	1269700
12/30/91	23196300	1269500
01/06/92	24454200	1257900
01/13/92	25731200	1277000
01/20/92	27044900	1313700
01/27/92	28424400	1379500
02/03/92	29803500	1379100
02/10/92	31177100	1373600
02/17/92	32499900	1322800
02/24/92	33867900	1368000
03/02/92	35224600	1356700
03/09/92	36687900	1463300
03/16/92	37960300	1272400
03/23/92	39330200	1369900
03/30/92	40681300	1351100
04/06/92	42050400	1369100
04/13/92	43405400	1355000
04/20/92	44757500	1352100
04/27/92	46114800	1357300
05/04/92	47460900	1346100
05/11/92	48761900	1301000
05/18/92	49997000	1235100
05/25/92	51199700	1202700
06/01/92	52390400	1190700
06/08/92	53592000	1201600
06/15/92	54793800	1201800
06/22/92	56007100	1213300
06/29/92	56821300	814200
07/06/92	57630600	809300
07/13/92	58446800	816200
07/20/92	59270100	823300
07/27/92	60088900	818800



Date (yr./mo/day)	Meter Reading (gallons)	Weekly Total (gallons)
08/03/92	60913300	824400
08/10/92	61738500	825200
08/17/92	62562100	823600
08/31/92	64204900	1642800
09/07/92	65037200	832300
09/14/92	65815900	778700
09/21/92	66622600	806700
09/28/92	67427600	805000
10/05/92	68225200	797600
10/12/92	69019000	793800
10/19/92	69809500	790500
10/26/92	70721100	911600
11/02/92	72074000	1352900

* Must be submitted with annual report; meter to be read on same day of the week and time of day for each entry submitted; weekly total to equal meter reading minus meter reading for previous week.



ANNUAL SUMMARY
Permit No. NV 70064

INSTANTANEOUS READINGS
INJECTION WELL #4

Date (mo./day/yr.)	Rate (gpm)	Pressure (psig)	Meter Reading (gallons)
11/04/91	120	140	13016500
11/11/91	120	140	14272700
11/18/91	120	135	15559000
11/25/91	120	137	16830600
12/02/91	140	135	18112200
12/09/91	140	137	19387500
12/16/91	120	137	20657100
12/23/91	135	135	21926800
12/30/91	120	135	23196300
01/06/92	130	137	24454200
01/13/92	125	135	25731200
01/20/92	130	140	27044900
01/27/92	140	145	28424400
02/03/92	140	145	29803500
02/10/92	130	140	31177100
02/17/92	130	145	32499900
02/24/92	150	145	33867900
03/02/92	130	147	35224600
03/09/92	140	150	36687900
03/16/92	130	140	37960300
03/23/92	140	150	39330200
03/30/92	140	150	40681300
04/06/92	150	150	42050400
04/13/92	140	150	43405400
04/20/92	140	150	44757500
04/27/92	140	145	46114800
05/04/92	130	140	47460900
05/11/92	130	140	48761900
05/18/92	120	130	49997000
05/25/92	120	125	51199700
06/01/92	115	130	52390400
06/08/92	120	130	53592000
06/15/92	120	125	54793800
06/22/92	100	85	56007100
06/29/92	100	85	56821300
07/06/92	80	85	57630600
07/13/92	100	90	58446800
07/20/92	100	85	59270100
07/27/92	100	90	60088900

Date (mo./day/yr.)	Rate (gpm)	Pressure (psig)	Meter Reading (gallons)
08/03/92	90	90	60913300
08/10/92	100	90	61738500
08/17/92	100	90	62562100
08/31/92	100	90	64204900
09/07/92	90	95	65037200
09/14/92	95	90	65815900
09/21/92	90	90	66622600
09/28/92	90	90	67427600
10/05/92	90	90	68225200
10/12/92	80	90	69019000
10/19/92	90	85	69809500
10/26/92	100	80	70721100
11/02/92	130	135	72074000



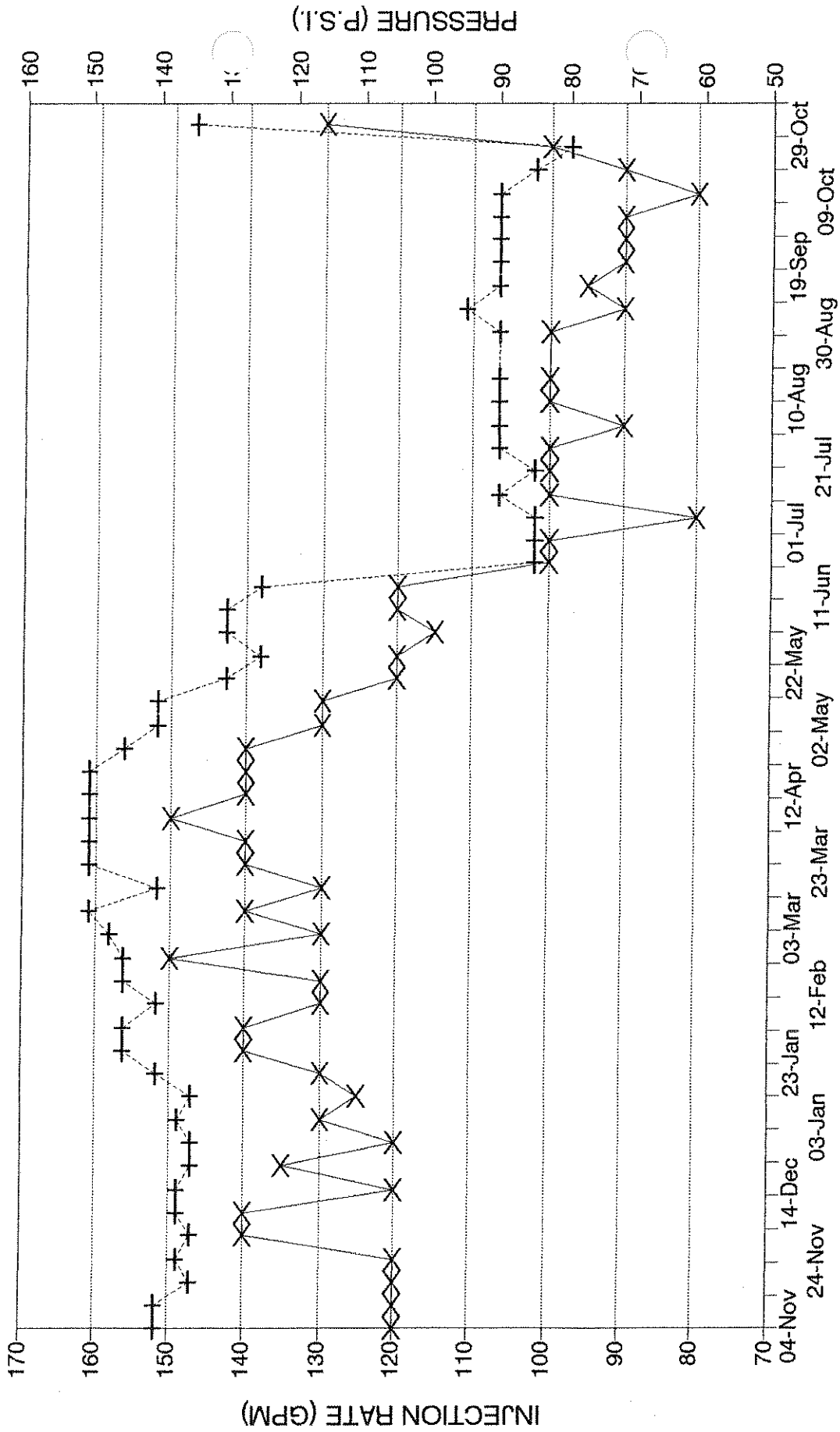
GRAPHICAL SUMMARY OF INJECTION
RATES AND PRESSURES



WILLIAM E. NORK, Inc.

Reno, Nevada 89503

PEPPERMILL WELL NO. 4 ANNUAL REPORT 11/4/91 TO 11/2/92.



INJECTION RATE (GPM)

PRESSURE (P.S.I.)

x Injection rate
+ Injection pressure



STATE OF NEVADA
 DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

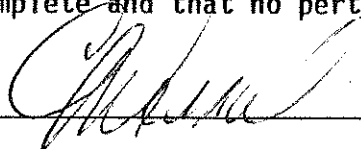
Producer Peppermill Hotel and Casino Month of November, 19 92
 Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	137.5	3848.8	97.5	Alta (?)	~2800-3000'

Remarks: Data collected between 10/5/92 to 11/2/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature 
 Position HYDROGEOLOGIST
 Date 11/19/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of September, 19 92

Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	113.9	3188.0	90.0	Alta (?)	~2800-3000'

Remarks: Data collected between 9/7/92 to 10/5/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature _____

Position _____

Date _____

[Handwritten Signature]

HYDROGEOLOGIST

11/19/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
 Dup - NBM&G
 Trip - DWR
 Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of August, 19 92

Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	147.3	4123.9	91.3	Alta (?)	~2800-3000'

Remarks: Data collected between 8/3/92 to 9/7/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature _____

Position _____

Date _____

[Handwritten Signature]
 H&D 706602064
 11/19/92

WILLIAM E. NORK, Inc.

1026 W. First Street • Reno, Nevada 89503

CONSULTING SERVICES IN HYDROLOGY AND GEOLOGY
Phone (702) 322-2604

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AUG 13 1992

Dept. of Minerals

August 12, 1992
92-422-02

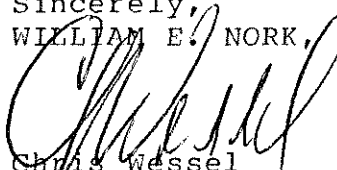
Marcia Greybeck
c/o Division Environmental Protection
123 West Nye Lane
Carson City, Nevada 89710

RE: PEPPERMILL HOTEL AND CASINO INJECTION WELL #4.

Dear Ms. Greybeck:

A copy of the "Report of Geothermal Subsurface Injection" for the PEPPERMILL's INJECTION WELL (Well No. 4) for the months of May 1992 through July 1992 is provided for your records. Please do not hesitate to contact us if you have any questions.

Sincerely,
WILLIAM E. NORK, INC.


Chris Wessel
Hydrogeologist

attachments

cc: Division of Water Resources
Russell A. Fields - DOM
Becky Perkey - NDOM&G



STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of July, 19 92
 Address 2707 S. Virginia Street, Reno, Nevada 89502

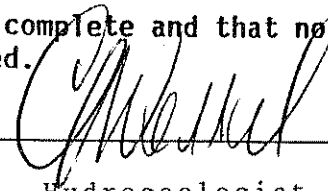
Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	117.2	3282.7	88.8	Alta (?)	~2800-3000'

Remarks: Results calculated from data collected between the weeks of 7/6/92 through 8/3/92.

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature _____



Position _____

Hydrogeologist

Date _____

8/12/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of June, 19 92
 Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	149.7	5240.2	102.0	Alta (?)	~2800-3000'

Remarks: Results calculated from data collected between the weeks of 6/1/92 through 7/6/92.

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature _____

Position _____

Date _____

Hydrogeologist

8/12/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

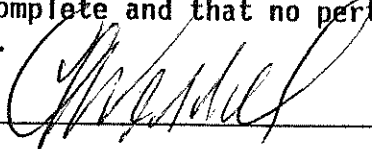
Producer Peppermill Hotel and Casino Month of May, 19 92
 Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

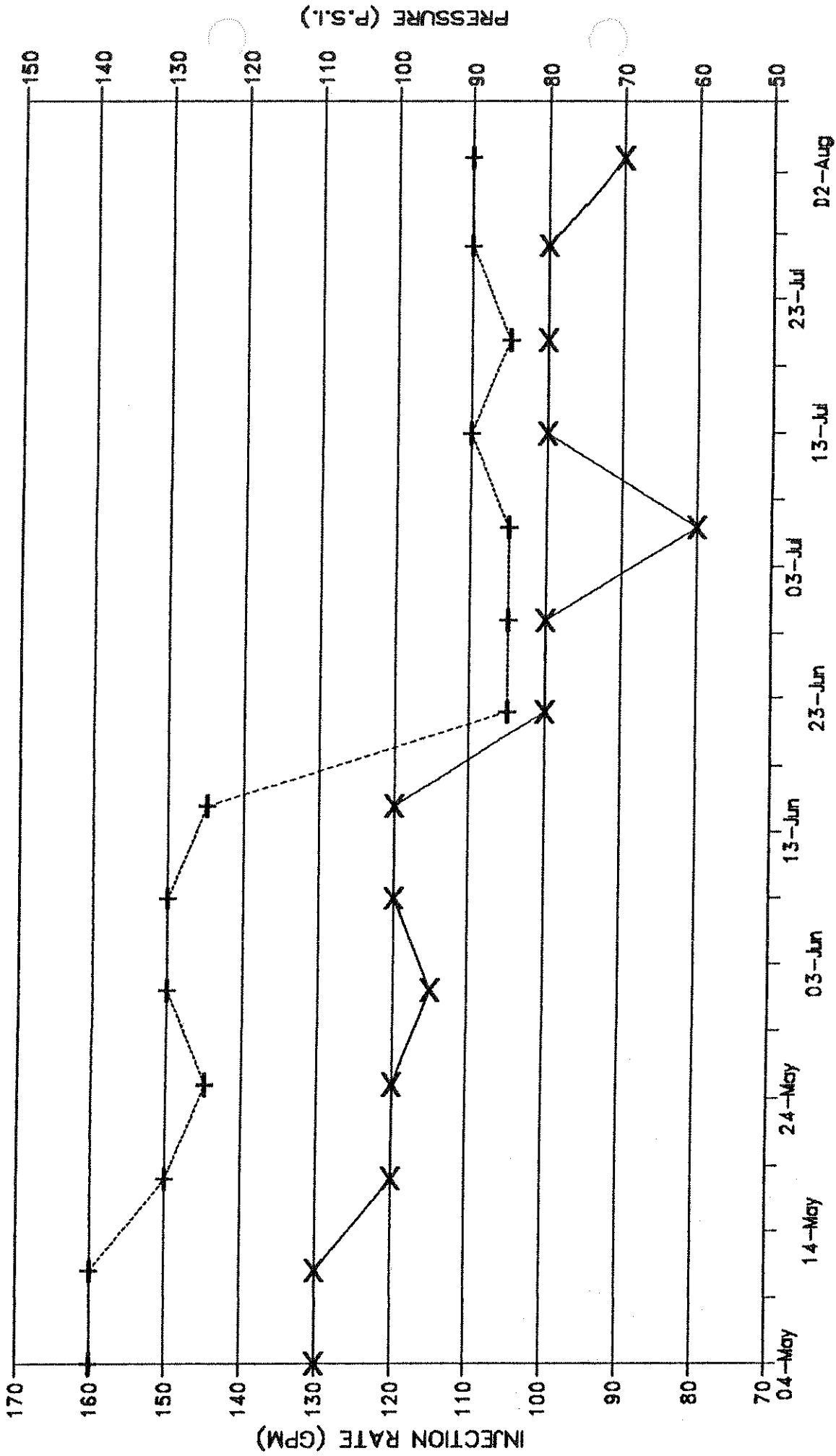
Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	172.4	4929.5	131.3	Alta (?)	~2800-3000'

Remarks: Results calculated from data collected between the weeks of 5/4/92 through 6/1/92.

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature 
 Position Hydrogeologist
 Date 8/12/92

PEPPERMILL WELL NO. 4
 THIRD-QUARTER REPORT 5/4/92 TO 8/3/92.



—x— Injection rate —+— Injection pressure

WILLIAM E. NORK, Inc.

1026 W. First Street • Reno, Nevada 89503

CONSULTING SERVICES IN HYDROLOGY AND GEOLOGY
Phone (702) 322-2604

RECEIVED

MAY 28 1992

Dept. of Minerals

May 22, 1992
92-422-02


Marcia Greybeck
DIVISION OF ENVIRONMENTAL PROTECTION
123 West Nye lane, Rm. #241
Carson City, Nevada 89710

RE: UIC PERMIT NV 70064 - PEPPERMILL HOTEL AND CASINO.

Dear Marcia:

The semi-annual report for the referenced injection well is provided for your records. Please do not hesitate to contact us if you have any questions.

Sincerely,
WILLIAM E. NORK, INC.


Chris Wessel
Hydrogeologist

attachments

cc: ✓ Department of Minerals
Division of Water Resources
Becky Perkey - NBOM&G



PEPPERMILL HOTEL CASINO INJECTION WELL #4

PERMIT NEV70064

SEMI-ANNUAL REPORT

MAY 22, 1992

Submitted to:

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

Prepared by:
WILLIAM E. NORK, INC.

William E. Nork

William E. Nork, President



WILLIAM E. NORK, Inc.

WATER CHEMISTRY DATA



WILLIAM E. NORK, Inc.

Reno, Nevada 89503

SEMI-ANNUAL REPORT
INJECTION WELL #4

1. PERMIT NO.: 70064

2. REPORTING PERIOD: from 91/11/04 to 92/05/05
yr.mo.day yr.mo.day

3. CHEMICAL ANALYSES SUMMARY

a. Sample Location: Peppermill Hotel and Casino

b. Sample Date: 92/05/06 Sample Time: 1016 hrs
yr.mo.day hr.

c. Laboratory: Sierra Environmental Monitoring Laboratory Analyst: Jean Stone
47 Glen Carren Cr. A. VanArtsDalen
Sparks, NV 89431 John Seher

d. Parameter Results* (Unfiltered) Precision/Accuracy Analyzed Date

1. pH @ 25°C	<u>8</u> . <u>1</u>	<u>+/- 0.05</u> /	<u>5/06/92</u>
2. Total Solids	<u>6</u> / <u>9</u> / <u>4</u>	<u>+/- 10</u> /	<u>5/15/92</u>
3. E.C.@ 25°C	<u>9</u> / <u>4</u> / <u>0</u>	<u>+/- 20</u> /	<u>5/06/92</u>
4. As mg/l	<u>6</u> . <u>1</u> / <u>5</u>	<u>+/- 0.01</u> /	<u>5/18/92</u>
5. SO ₄ mg/l	<u>2</u> / <u>9</u> / <u>4</u>	<u>+/- 10</u> /	<u>5/19/92</u>

e. Analytical Method Used: As EPA206.3 SO₄ EPA375.4 E.C. EPA120.1
Total Solids EPA160.1 pH EPA150.1

4. Injection Rate

a. Average = 138 gal/day x 1000
b. Lowest Flow = 120 gal/day x 1000
c. Highest Flow = 150 gal/day x 1000

5. Injection Pressure

a. Average = 147.5 psig
b. Lowest = 135 psig
c. Highest = 150 psig

* (Analyses as per 40 CFR Part 136)



6. Totalizing Meter Reading: 47460900 ending
Period 91/11/04 to 92/05/04; 13016500 initial
yr.mo.day yr.mo.day
34,444,400 total
(for report period)

7. Instantaneous Readings:**
a. Injection Rate, gpm (weekly)
b. Injection Pressure, psig (weekly)
c. Injection Volume gallons (weekly)

** summary Tabulation to be attached to this report.



SUMMARY OF INJECTION RATES



WILLIAM E. NORK, Inc.

Reno, Nevada 89503

Injection Well #4

Weekly Injection Summary*
Permit No. 70064

Date (yr./mo/day)	Meter Reading (gallons)	Weekly Total (gallons)
11/04/91	13016500	-0-
11/11/91	14272700	1256200
11/18/91	15559000	1286300
11/25/91	16830600	1271600
12/02/91	18112200	1281600
12/09/91	19387500	1275300
12/16/91	20657100	1269600
12/23/91	21926800	1269700
12/30/91	23196300	1269500
01/06/92	24454200	1257900
01/13/92	25731200	1277000
01/20/92	27044900	1313700
01/27/92	28424400	1379500
02/03/92	29803500	1379100
02/10/92	31177100	1373600
02/17/92	32499900	1322800
02/24/92	33867900	1368000
03/02/92	35224600	1356700
03/09/92	36687900	1463300
03/16/92	37960300	1272400
03/23/92	39330200	1369900
03/30/92	40681300	1351100
04/06/92	42050400	1369100
04/13/92	43405400	1355000
04/20/92	44757500	1352100
04/27/92	46114800	1357300
05/04/92	47460900	1346100

* Must be submitted with semi-annual report; meter to be read on same day of the week and time of day for each entry submitted; weekly total to equal meter reading minus meter reading for previous week.



SEMI-ANNUAL SUMMARY
Permit No. NV 70064

INSTANTANEOUS READINGS
INJECTION WELL #4

Date (yr./mo./day)	Rate (gpm)	Pressure (psig)	Meter Reading (gallons)
11/04/91	120	140	13016500
11/11/91	120	140	14272700
11/18/91	120	135	15559000
11/25/91	120	137	16830600
12/02/91	140	135	18112200
12/09/91	140	137	19387500
12/16/91	120	137	20657100
12/23/91	135	135	21926800
12/30/91	120	135	23196300
01/06/92	130	137	24454200
01/13/92	125	135	25731200
01/20/92	130	140	27044900
01/27/92	140	145	28424400
02/03/92	140	145	29803500
02/10/92	130	140	31177100
02/17/92	130	145	32499900
02/24/92	150	145	33867900
03/02/92	130	147	35224600
03/09/92	140	150	36687900
03/16/92	130	140	37960300
03/23/92	140	150	39330200
03/30/92	140	150	40681300
04/06/92	150	150	42050400
04/13/92	140	150	43405400
04/20/92	140	150	44757500
04/27/92	140	145	46114800
05/05/92	130	140	47460900



GRAPHICAL SUMMARY OF INJECTION
RATES AND PRESSURES

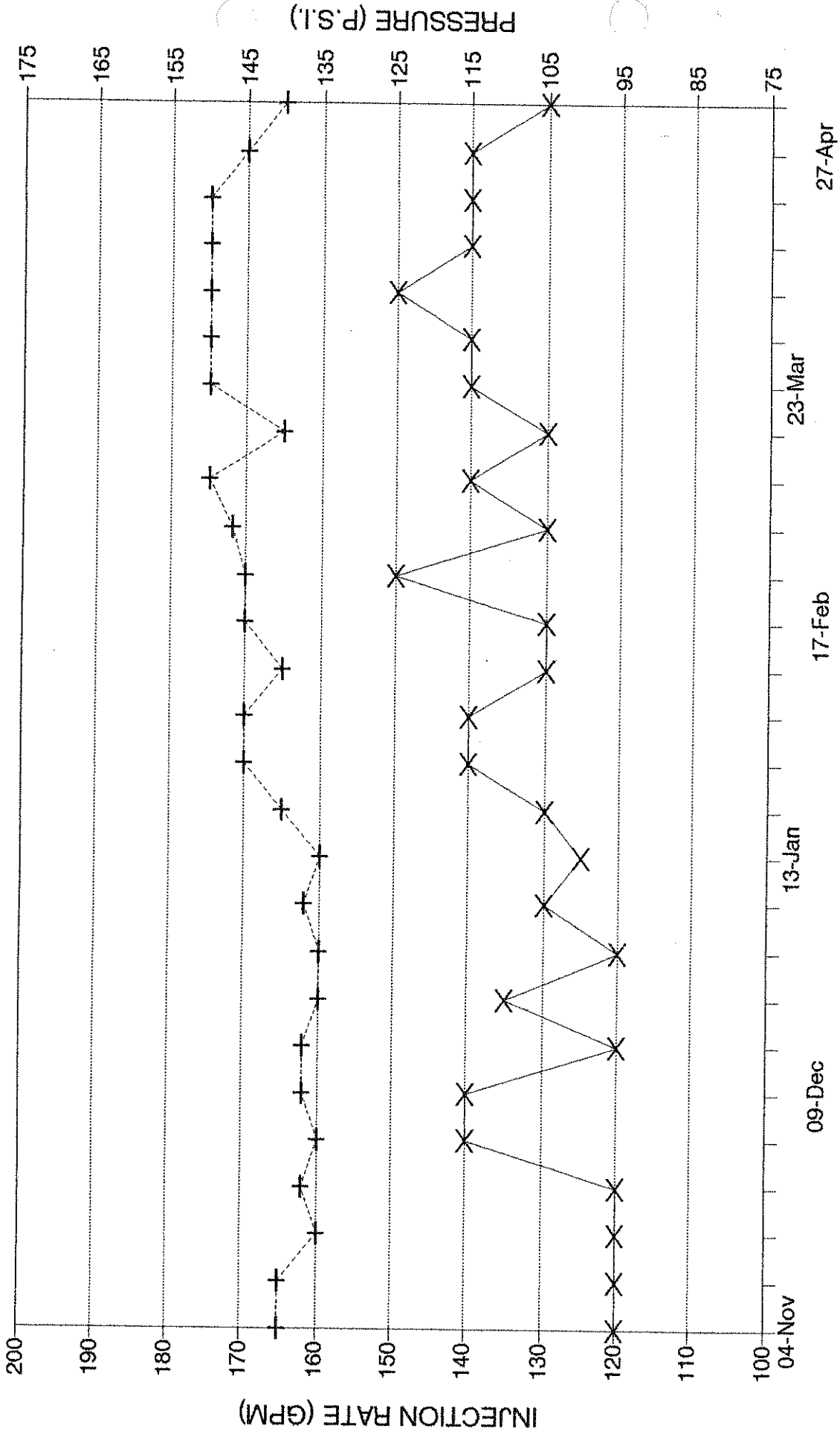


WILLIAM E. NORK, Inc.

Reno, Nevada 89503

PEPPERMILL WELL NO. 4

SEMI-ANNUAL REPORT 11/4/91-5/5/92



x— Injection rate
 - - - + Injection pressure

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
 Dup - NBM&G
 Trip - DWR
 Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of April, 19 92

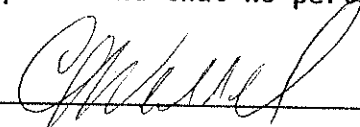
Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	193.2	5410.5	146.3	Alta (?)	~2800-3000'

Remarks: Data collected for the 4 week period between 4/6 to 5/5/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature 
 Position Hydrogeologist
 Date 5/7/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
 Dup - NBM&G
 Trip - DWR
 Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of March, 19 92

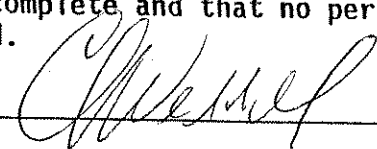
Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	195.0	6825.8	148.0	Alta (?)	~2800-3000'

Remarks: Data collected for the five week period between 3/2/92 to 4/6/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature 

Position Hydrogeologist

Date 5/7/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
 Dup - NBM&G
 Trip - DWR
 Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Peppermill Hotel and Casino Month of February, 19 92

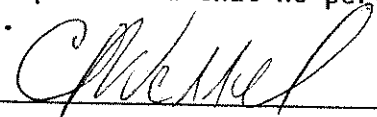
Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	193.6	5421.1	144.3	Alta (?)	~2800-3000'

Remarks: Data collect for the 4 week period between 2/3/92 to 3/2/92

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature 

Position Hydrogeologist

Date 5/7/92

STATE OF NEVADA
DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
 (702) 885-5050

Orig - NDOM
 Dup - NBM&G
 Trip - DWR
 Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

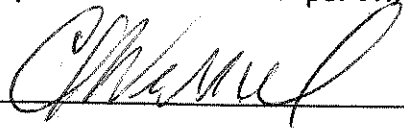
Producer Peppermill Hotel and Casino Month of January, 19 92
 Address 2707 S. Virginia Street, Reno, Nevada 89502

Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir depth
		Gallons per day x 1000	Gallons per month x 1000			
Commercial well on private property	4	188.9	6612.2	140.4	Alta (?)	~2800-3000'

Remarks: Data are for the 5-week period of January 6, 1992 through February 3, 1992.

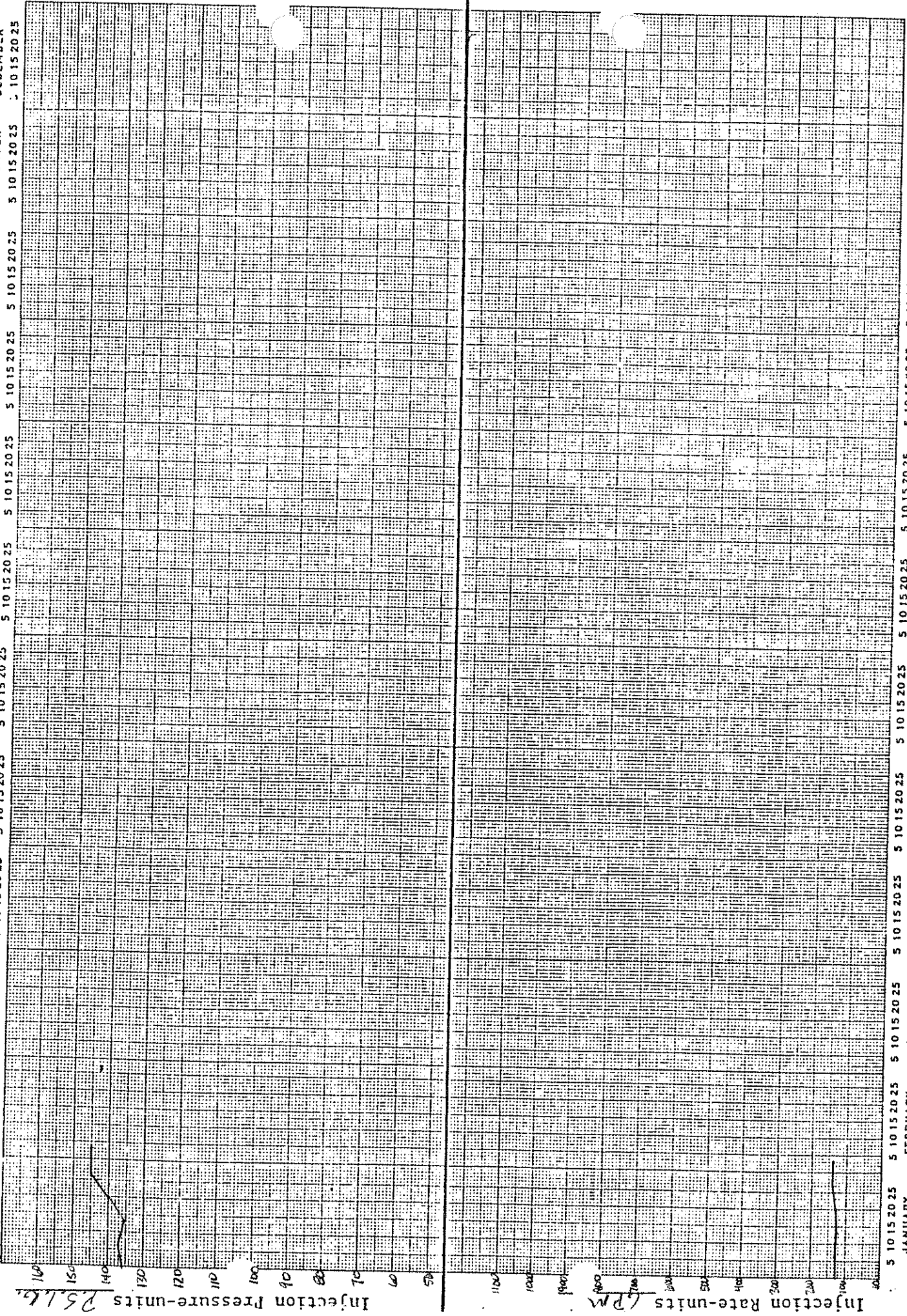
I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this report has been omitted.

Signature 
 Position Hydrogeologist
 Date 3-20-92

1972

ATTACHMENT 1

JANUARY 5 10 15 20 25 FEBRUARY 5 10 15 20 25 MARCH 5 10 15 20 25 APRIL 5 10 15 20 25 MAY 5 10 15 20 25 JUNE 5 10 15 20 25 JULY 5 10 15 20 25 AUGUST 5 10 15 20 25 SEPTEMBER 5 10 15 20 25 OCTOBER 5 10 15 20 25 NOVEMBER 5 10 15 20 25 DECEMBER 5 10 15 20 25



Plots of Injection Rate and Pressure versus Time for Injection Well

