

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

RECEIVED
JAN 31 1994
Div. of Minerals

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of December 1993
Address 5250 S. Virginia St., Suite 304, 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 Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	4.78 Mgal	148.28 Mgal	27 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.77 Mgal	54.75 Mgal	24 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.34 Mgal	41.54 Mgal	17 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	0.99 Mgal	30.79 Mgal	35 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.42 Mgal	12.99 Mgal	34 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.02 Mgal	31.58 Mgal	43 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.33 Mgal	10.32 Mgal	10 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.09 Mgal	33.82 Mgal	15 psig.	Miocene Basalt	7070-7450'
Totals		364.08 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

1/28/94



OXBOW GEOTHERMAL

January 3, 1994

Mr. Tom Gallagher
Division of Water Resources
123 West Nye Lane
Carson City, Nevada 89710

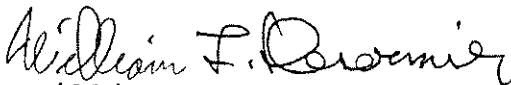
Subject: Fourth Quarter, 1993, Dixie Valley water
production, injection and consumption.

Dear Tom:

Enclosed is the fourth quarter report on the 1993 water
production, injection and consumption for the Dixie Valley
geothermal power plant. Also included are the yearly
cumulative and the totals for all the quarters.

If you have any questions please call me or Dick Benoit.
Thank you.

Sincerely,


William L. Desormier
Geologist

Distribution: T. Diehl
C.D. Wells
R. Hoops, BLM
K. Loomis, DOM

Division Of Water Resources
123 West Nye Lane
Carson City, Nevada 89710
(702) 687-4380

Oxbow Geothermal Corporation
5250 South Virginia Street, Suite 304
Reno, Nevada 89502
(702) 825-4345

Dixie Valley Power Plant

Fourth Quarter	1993		Geothermal Water Produced	
Well	October	November	December	Total
27-33	98.50	97.41	101.91	297.82
28-33	201.60	220.10	225.84	647.54
45-33	96.05	96.48	103.16	295.69
63-7	211.10	202.76	208.32	622.19
73-7	149.89	152.16	159.91	461.96
74-7	155.39	143.98	142.53	441.90
76-7	231.35	178.00	207.33	616.68
82-7	234.74	218.42	210.34	663.50
84-7	100.19	96.81	100.06	297.05
Total	1478.81	1406.11	1459.39	4344.32 acre-feet

Fourth Quarter	1993		Potable Water Produced	
Well	October	November	December	Total
W62-7	0.24	0.37	0.49	1.10
W45-5	0.00	0.00	0.00	0.00
Total	0.24	0.37	0.49	1.10 acre-feet

Fourth Quarter	1993		Injected Water	
Well	October	November	December	Total
25-5	468.07	439.99	453.50	1361.56
45-5	149.22	154.63	167.46	471.31
32-18	131.44	118.65	127.03	377.13
41-18	105.41	90.07	94.18	289.66
52-18	54.71	41.50	39.74	135.95
65-18	108.42	92.83	96.59	297.84
SWL-1	39.59	34.96	31.57	106.12
SWL-3	121.93	98.96	103.43	324.32
Total	1178.79	1071.60	1113.50	3363.89 acre-feet

Potable	Fourth Quarter	Totals	(acre-feet)	
	Geothermal	Production Total	Injection	Consumption
1.10	4344.32	4345.42	3363.89	981.53

Potable	1993	Cumulative	(acre-feet)	
	Geothermal	Production Total	Injection	Consumption
2.95	17762.61	17765.56	13539.10	4226.47

1993		Cumulative	(acre-feet)	
Potable	Geothermal	Production Total	Injection	Consumption
2.95	17762.61	17765.56	13539.10	4226.47

First		Quarter	Totals	(acre-feet)	
Potable	Geothermal	Production Total		Injection	Consumption
0.42	4280.72	4281.14		3431.52	849.62

Second		Quarter	Totals	(acre-feet)	
Potable	Geothermal	Production Total		Injection	Consumption
0.74	4290.87	4291.61		3365.91	925.70

Third		Quarter	Totals	(acre-feet)	
Potable	Geothermal	Production Total		Injection	Consumption
0.69	4846.70	4847.39		3377.78	1469.61

Fourth		Quarter	Totals	(acre-feet)	
Potable	Geothermal	Production Total		Injection	Consumption
1.10	4344.32	4345.42		3363.89	981.53

O X B O W G E O T H E R M A L

RECEIVED

JAN 07 1994

January 6, 1994

Div. of Minerals

Marcia Greybeck
Department of Conservation and Natural Resources
Division of Environmental protection
333 West Nye Lane
Carson City, NV 89710
687-5870

Subject: Dixie Valley NDEP Report-Fourth Quarter, 1993

Dear Marcia:

The power plant performed fairly well during the quarter and very well for the year with an annual availability of greater than 99%. The annual average surface discharge for the year was 310 gpm (see Attachment A) with the surface discharge higher during the fourth quarter because the cooling tower overflow pump was taken out of service on October 27 (see item VI. below).

Please note that on the photograph date of November 10th the Humboldt Salt Marsh had two ponds of standing water with a total area of about one square mile which probably is normal for this time of the year. Last quarter the Humboldt Salt Marsh was completely dry.

Please find the enclosed quarterly report as required by Oxbow's discharge and disposal permits. Included in the quarterly report are the following:

I. Discharge Permit # NV0021407

- a. Production and discharge summary by month.
- b. Chemical analyses of Spring Creek, pond 27-33 and the Monitor Wells.
- c. Chemical analyses of Spring Creek (on EPA DMR form).
- d. Photographs of the Humboldt Salt Marsh (11-10-93).

II. Injection Permit # NEV87063

- a. Production and injection summaries by month.
- b. Chemical analyses of produced fluid and injectate.
- c. Injection pressure, rate, volume and temperature summaries by well.
- d. Graphs of rate and pressure for each injection well.

III. Operations Summary:

- a. Plant Operations.
- b. Production Wells:
- c. Injection Wells:
- d. Injection System:

IV. Attachment A. Annual summary of discharge by month.

V. During the fourth quarter no biocide was added to the cooling tower basin.

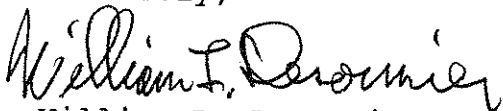
VI. Cooling tower overflow pump, P402, was taken out of service at 1015 hours on October 27th because of a fluid chemical compatibility problem. The injection pump suction bowls scale severely when cooling tower fluid is mixed with injectate. Oxbow is trying to determine the best way to handle this clean water.

Please note that the Pond 27-33 discharge equals or slightly exceeds the discharge limits as follows:

	Limit	Pond 27-33
Boron	12.70 ppm	13.24 ppm
Fluoride	19.50 ppm	19.70 ppm
Arsenic	1.10 ppm	1.10 ppm

This higher quantity is due to concentration of elements by way of pond evaporation. Also, please note that Monitor well 2A with a TDS of 2508 is slightly higher than the discharge limit of 2500 ppm, which is normal for this well for this time of the year. If you have any comments or questions, please call me or Dick Benoit at 825-4345.

Sincerely,



William L. Desormier
Geologist

Enclosures:

cc Regional Administrator
Environmental Protection Agency
Region IX, Attention W-4-1
75 Hawthorne Street
San Francisco, CA 94105
(DMR forms only)

Kathy Loomis (DOM)
Trish Diehl (WPB)
Don Wells (Dixie)
Steve Schumacher (Reno) Then File NDEP Permit # NV0021407
Dick Benoit (Reno) Then File NDEP Permit # NEV87063

Oxbow Geothermal Corporation
5250 South Virginia St., Suite 304
Reno, Nevada 89502

Dixie Valley Geothermal Power Plant
Discharge Permit Number NV0021407

Year 1993

Geothermal Fluid Production (1000#)

	October	November	December
1. Total	3940322	3807062	3916613

Production Rate (1000#/hr)

2. Minimum	5072	4981	5216
3. Average	5296	5288	5264
4. Maximum	5864	5529	5575

Surface Discharge (Mgal)

	October	November	December
1. Total	13.17	36.01	25.24

Discharge Rate (gpm)

2. Minimum	0	601	26
3. Average	295	833	565
4. Maximum	1660	3435	1718

Oxbow Geothermal Corporation
5250 South Virginia St., Suite 304
Reno, Nevada 89502

Dixie Valley Geothermal Power Plant
Discharge Permit Number NV0021407

Chemical Analyses

Spring Creek Discharge and Monitor Wells

Year
1993

Date Sampled: 11/10/93

Date Analysed: 12/17/93

	Monitor Well 2A	Monitor Well 2B	Monitor Well 3A	Monitor Well 3B	Spring Creek Weir	Pond 27-33 Discharge
Quarterly						
Boron	1.81	1.06	1.00	0.97	0.80	13.24
Fluoride	1.38	1.40	1.48	1.47	0.40	19.70
TDS (mg/l)	2508	872	744	728	182	2360
pH	7.75	7.76	7.65	7.66	8.24	9.65
Conductivity	4100	1400	1100	1050	300	2800
Arsenic	<.01	<.01	0.02	0.08	<.01	1.10
Annually						
Zinc	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
Silver	N.D.	N.D.	0.04	0.00	0.02	N.D.
Barium	0.11	0.03	0.11	0.05	N.D.	N.D.
Cadmium	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium	N.D.	N.D.	N.D.	0.02	N.D.	N.D.
Copper	0.02	N.D.	0.02	N.D.	N.D.	N.D.
Manganese	0.51	0.19	N.D.	0.04	N.D.	N.D.
Lead	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sodium	587.61	163.72	172.64	164.23	31.67	534.12
Potassium	23.23	14.03	18.98	20.14	1.51	82.75
Calcium	130.85	68.03	38.54	38.21	0.52	9.77
Magnesium	92.80	41.79	22.74	22.34	N.D.	0.02
Iron	0.03	0.02	0.02	N.D.	0.05	0.12
Silica	64.04	65.10	102.99	98.89	12.59	789.58
Lithium	0.71	0.34	0.24	0.24	0.02	2.67
Strontium	4.20	1.82	1.60	1.73	0.01	0.43
Bicarbonate	311.00	272.00	294.00	293.00	17.00	115.00
Chloride	1121.00	213.00	124.00	124.00	11.90	582.00
Sulfate	297.00	183.00	165.00	173.00	37.00	277.00
Nitrate	4.40	2.60	1.00	0.40	71.00	N.D.
Mercury (ppb)	<.5	<.5	<.5	<.5	<.5	<.5
Selenium (ppb)	0.50	0.60	<.5	0.70	<.5	0.70

1. Chemist: Ruth Kroneman- University of Utah Research Institute (UURI) (801) 524-3434

2. Units are ppm unless otherwise shown except: a. pH (dimensionless) b. conductivity (micromhos/cm)

3. N.D. = Not Detected

Facility Name (location if different)
NAME Oxbow Geothermal Corporation
ADDRESS P O Box 1270
Fallon, NV 89406

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(12-19)
NV 0021407
PERMIT NUMBER
001
DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY Dixie Valley Power Plant
LOCATION Spring Creek Weir

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
93 10 01 93 12 31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (34-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-43)			(5 Card Only) QUALITY OR CONCENTRATION (34-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (55-62)	MINIMUM (38-43)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (55-62)					
Boron	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
Fluoride	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
TDS	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
pH	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
Conductivity	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
Arsenic	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
Flow	SAMPLE MEASUREMENT	562	3435									
	PERMIT REQUIREMENT	1000	9000	gpm								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
William L. Desormier
Project Geologist

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER
OFFICER OR AUTHORIZED AGENT

TELEPHONE

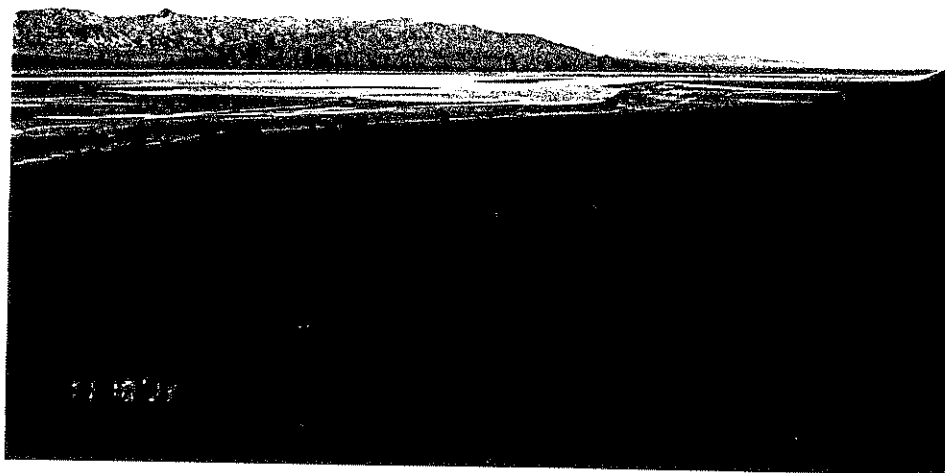
DATE

AREA CODE NUMBER

YEAR MO DAY

HUMBOLDT SALT MARSH

11/10/93



RIGHT VIEW



LEFT VIEW

Oxbow Geothermal Corporation
5250 South Virginia St., Suite 304
Reno, Nevada 89502

Dixie Valley Geothermal Power Plant
Injection Permit Number NEV87063

Year 1993

Geothermal Fluid Production (1000#)

	October	November	December
1. Total	3940322	3807062	3916613

Production Rate (1000#/hr)

2. Minimum	5072	4981	5216
3. Average	5296	5288	5264
4. Maximum	5864	5529	5575

Injection Volume (Mgal)

	October	November	December
1. Monthly Total	385.43	350.38	364.08
2. Yearly Cumulative	3712.41	4062.79	4426.87

Total Injection Rate (gpm)

1. Minimum	5685	6980	5975
2. Average	8634	8111	8156
3. Maximum	9188	8516	8413

Oxbow Geothermal Corporation
5250 South Virginia St., Suite 304
Reno, Nevada 89502

Dixie Valley Geothermal Power Plant
Injection Permit Number NEV87063

Chemical Analyses

Production Separators and Injectate

Year
1993

Date Sampled: 11/10/93

Date Analysed: 12/17/93

Quarterly	V-101	V-102 & 103	V-104	V-105	Injectate
Boron	10.10	10.62	11.38	10.28	11.69
Fluoride	15.38	13.40	14.80	13.00	15.30
TDS (mg/l)	1248	1843	1900	1849	2016
pH	9.25	9.21	9.10	9.23	9.74
Conductivity	2150	2167	2250	2125	2500
Annually					
Arsenic	1.00	1.03	1.00	0.95	1.13
Zinc	0.52	0.01	N.D.	N.D.	N.D.
Silver	N.D.	N.D.	N.D.	N.D.	N.D.
Barium	0.03	0.06	0.06	0.05	0.04
Cadmium	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium	N.D.	0.03	N.D.	N.D.	0.31
Copper	0.05	N.D.	N.D.	N.D.	N.D.
Manganese	N.D.	N.D.	N.D.	N.D.	N.D.
Lead	N.D.	N.D.	N.D.	N.D.	N.D.
Sodium	411.93	424.82	440.61	417.26	455.53
Potassium	70.25	69.18	70.62	64.18	73.49
Calcium	6.61	6.47	2.90	5.98	6.74
Magnesium	0.09	0.13	1.15	N.D.	0.18
Iron	0.06	0.03	0.02	0.02	0.15
Silica	544.75	557.09	549.00	609.61	597.39
Lithium	2.26	2.37	2.25	2.23	2.52
Strontium	0.32	0.36	0.25	0.32	0.35
Bicarbonate	142.70	182.30	127.00	219.00	103.00
Chloride	450.70	439.00	490.00	417.50	494.00
Sulfate	209.30	193.70	222.00	176.50	232.00
Nitrate	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (ppb)	<.5	0.53	0.50	<.5	0.50
Selenium (ppb)	0.87	0.60	0.50	0.60	0.70

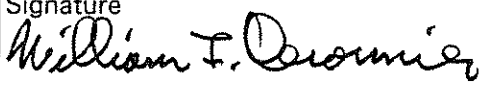
1. Chemist: Ruth Kroneman- University of Utah Research Institute (UURI) (801) 524-3434

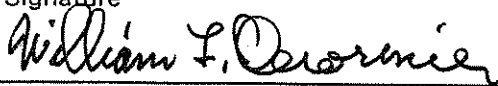
2. Units are ppm unless otherwise shown except: a. pH (dimensionless) b. conductivity (micromhos/cm)

3. N.D. = Not Detected

V-101 is composite of wells 27-33, 28-33 and 45-33.
V-104 is supplied by well 76-7.

V-102 & 103 is composite of wells 63-7, 74-7 & 84-7.
V-105 is composite of wells 73-7 & 82-7.

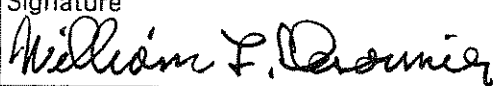
INJECTION WELL MONITORING REPORT				Well 25-5
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		0	13	18
2. Average		31	29	27
3. Maximum (600#)		59	56	55
Injection Rate (Gal/Min)				
1. Minimum		3275	3017	3055
2. Average		3515	3330	3322
3. Maximum		3796	3729	3650
Injection Volume (MGal)				
1. Monthly Total		153.04	143.86	148.28
2. Yearly Cumulative		1569.10	1712.97	1861.25
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		0	226	232
2. Average		223	234	235
3. Maximum		241	241	239
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature 		Date Signed 1-4-94

INJECTION WELL MONITORING REPORT				Well 45-5
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		0	12	17
2. Average		30	26	24
3. Maximum (600#)		59	54	45
Injection Rate (Gal/Min)				
1. Minimum		1014	958	1152
2. Average		1121	1170	1227
3. Maximum		1204	1239	1292
Injection Volume (MGal)				
1. Monthly Total		48.79	50.56	54.75
2. Yearly Cumulative		452.72	503.28	558.04
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		0	219	220
2. Average		201	226	227
3. Maximum		238	235	232
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature 		Date Signed 1-4-94

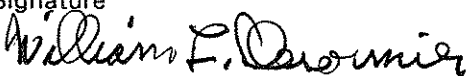
INJECTION WELL MONITORING REPORT				Well 32-18
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		7	4	9
2. Average		35	30	17
3. Maximum (600#)		72	66	28
Injection Rate (Gal/Min)				
1. Minimum		842	405	0
2. Average		963	898	930
3. Maximum		1119	1056	1130
Injection Volume (MGal)				
1. Monthly Total		42.98	38.80	41.54
2. Yearly Cumulative		350.47	389.26	430.80
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		205	201	213
2. Average		215	219	219
3. Maximum		225	226	228
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature 		Date Signed 1-4-94

INJECTION WELL MONITORING REPORT				Well 41-18
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		27	8	11
2. Average		54	49	35
3. Maximum (600#)		93	84	46
Injection Rate (Gal/Min)				
1. Minimum		690	603	278
2. Average		772	682	690
3. Maximum		881	775	811
Injection Volume (MGal)				
1. Monthly Total		34.46	29.45	30.79
2. Yearly Cumulative		332.15	361.61	392.40
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		220	225	233
2. Average		232	237	236
3. Maximum		244	244	240
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature <i>William L. Desormier</i>		Date Signed 1-4-94

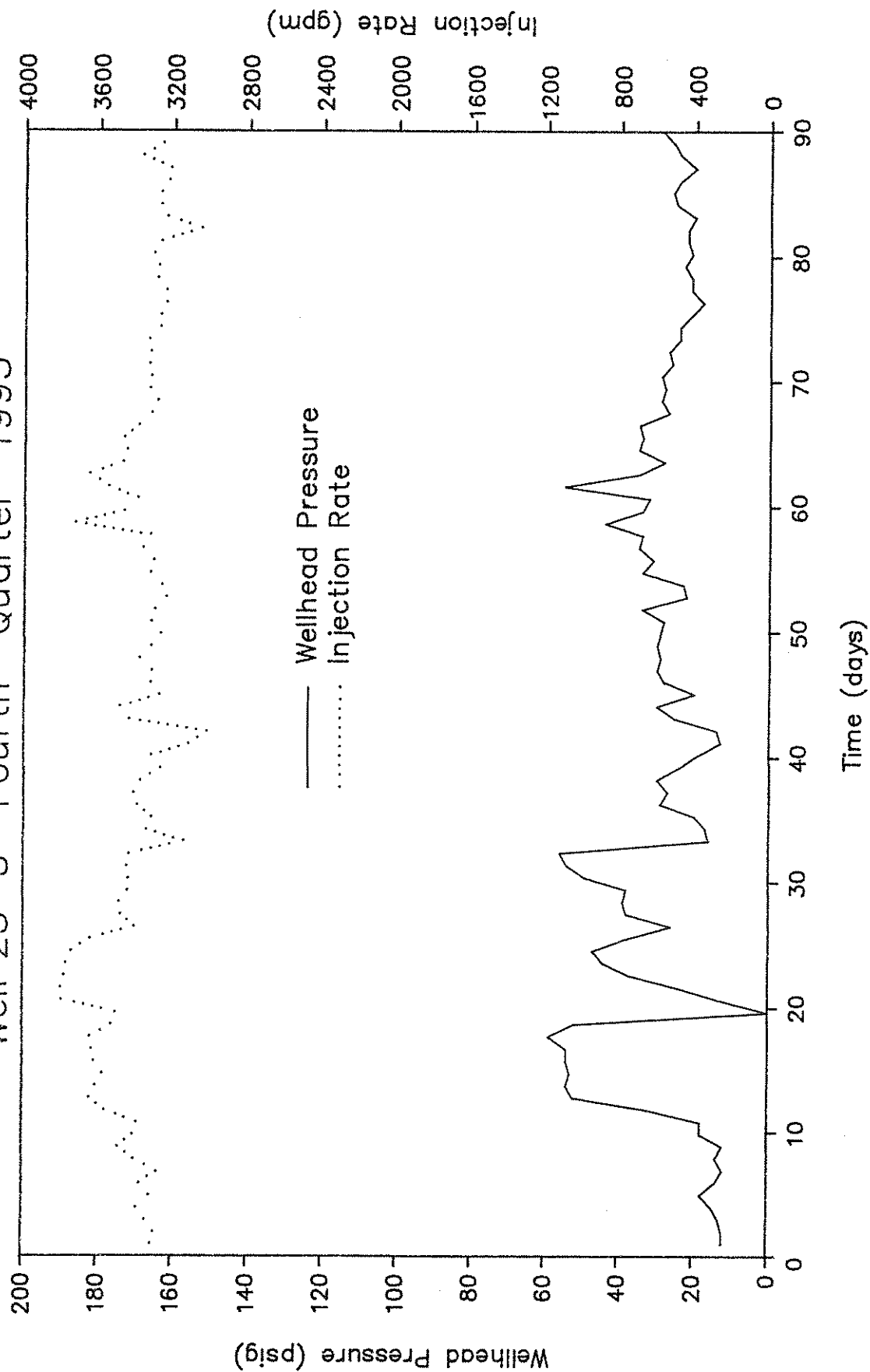
INJECTION WELL MONITORING REPORT				Well 52-18
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		24	9	14
2. Average		52	47	34
3. Maximum (600#)		91	83	48
Injection Rate (Gal/Min)				
1. Minimum		342	280	76
2. Average		401	314	291
3. Maximum		509	346	355
Injection Volume (MGal)				
1. Monthly Total		17.89	13.57	12.99
2. Yearly Cumulative		164.17	177.74	190.73
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		208	210	217
2. Average		217	222	221
3. Maximum		227	228	230
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature <i>William L. Desormier</i>		Date Signed 1-4-94

INJECTION WELL MONITORING REPORT				Well 65-18
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		32	17	21
2. Average		60	56	43
3. Maximum (600#)		98	88	53
Injection Rate (Gal/Min)				
1. Minimum		723	670	612
2. Average		794	703	707
3. Maximum		895	745	757
Injection Volume (MGal)				
1. Monthly Total		35.45	30.35	31.58
2. Yearly Cumulative		341.14	371.49	403.08
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		220	221	228
2. Average		228	232	231
3. Maximum		237	239	238
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature 		Date Signed 1-4-94

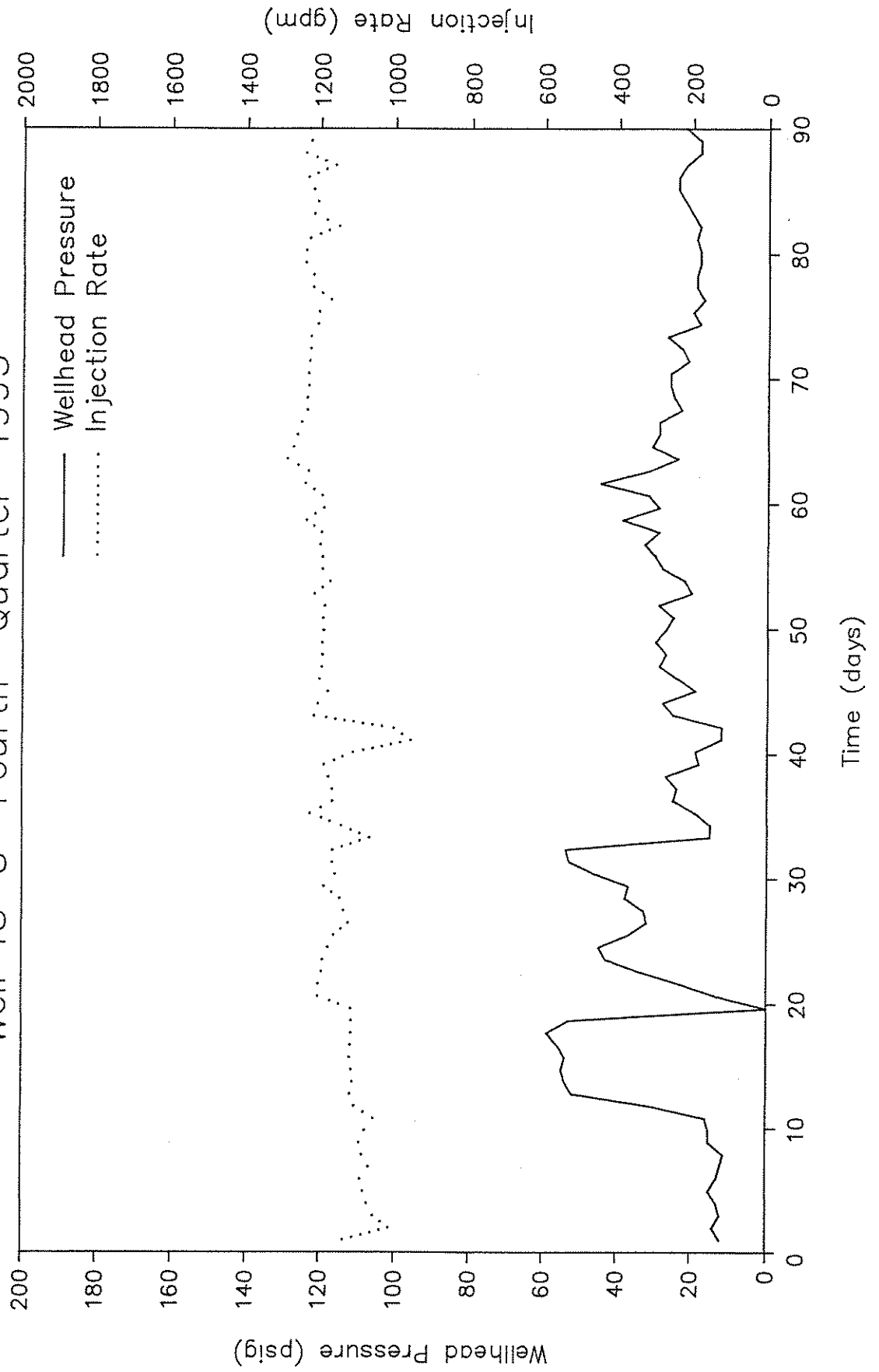
INJECTION WELL MONITORING REPORT				Well SWL-1
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		3	0	6
2. Average		26	21	10
3. Maximum (600#)		60	53	19
Injection Rate (Gal/Min)				
1. Minimum		186	0	0
2. Average		290	265	231
3. Maximum		364	315	307
Injection Volume (MGal)				
1. Monthly Total		12.94	11.43	10.32
2. Yearly Cumulative		135.15	146.58	156.91
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		205	201	213
2. Average		215	219	219
3. Maximum		225	226	228
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature <i>William L. Desormier</i>		Date Signed 1-4-94

INJECTION WELL MONITORING REPORT				Well SWL-3
YEAR	1993	October	November	December
Injection Pressure (psig)				
1. Minimum		6	5	9
2. Average		30	25	15
3. Maximum (600#)		62	58	26
Injection Rate (Gal/Min)				
1. Minimum		809	0	114
2. Average		893	749	758
3. Maximum		1026	836	866
Injection Volume (MGal)				
1. Monthly Total		39.87	32.36	33.82
2. Yearly Cumulative		367.50	399.85	433.67
Injection Temperature (degrees F)				
1. Minimum (150 Degrees F)		205	201	213
2. Average		215	219	219
3. Maximum		225	226	228
pH		9.74		
Oxbow Geothermal Corporation 5250 South Virginia St., Suite 304 Reno, Nevada 89502			Dixie Valley Geothermal Power Plant	Permit Number NEV87063
Name and Official Title William L. Desormier Project Geologist		Signature 		Date Signed 1-4-94

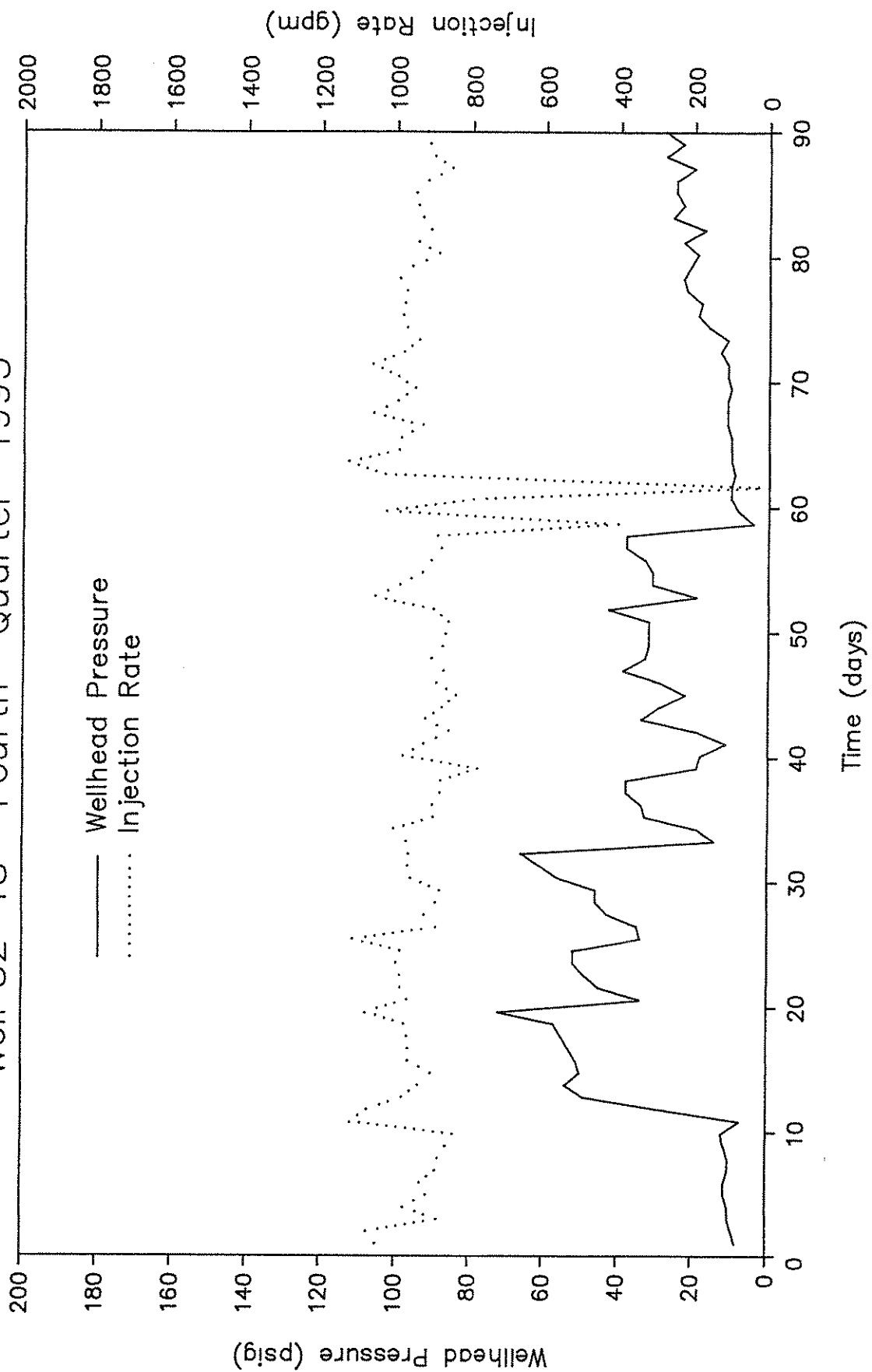
DIXIE VALLEY GEOTHERMAL PLANT
Injection Rate and Wellhead Pressure vs Time
Well 25-5 Fourth Quarter 1993



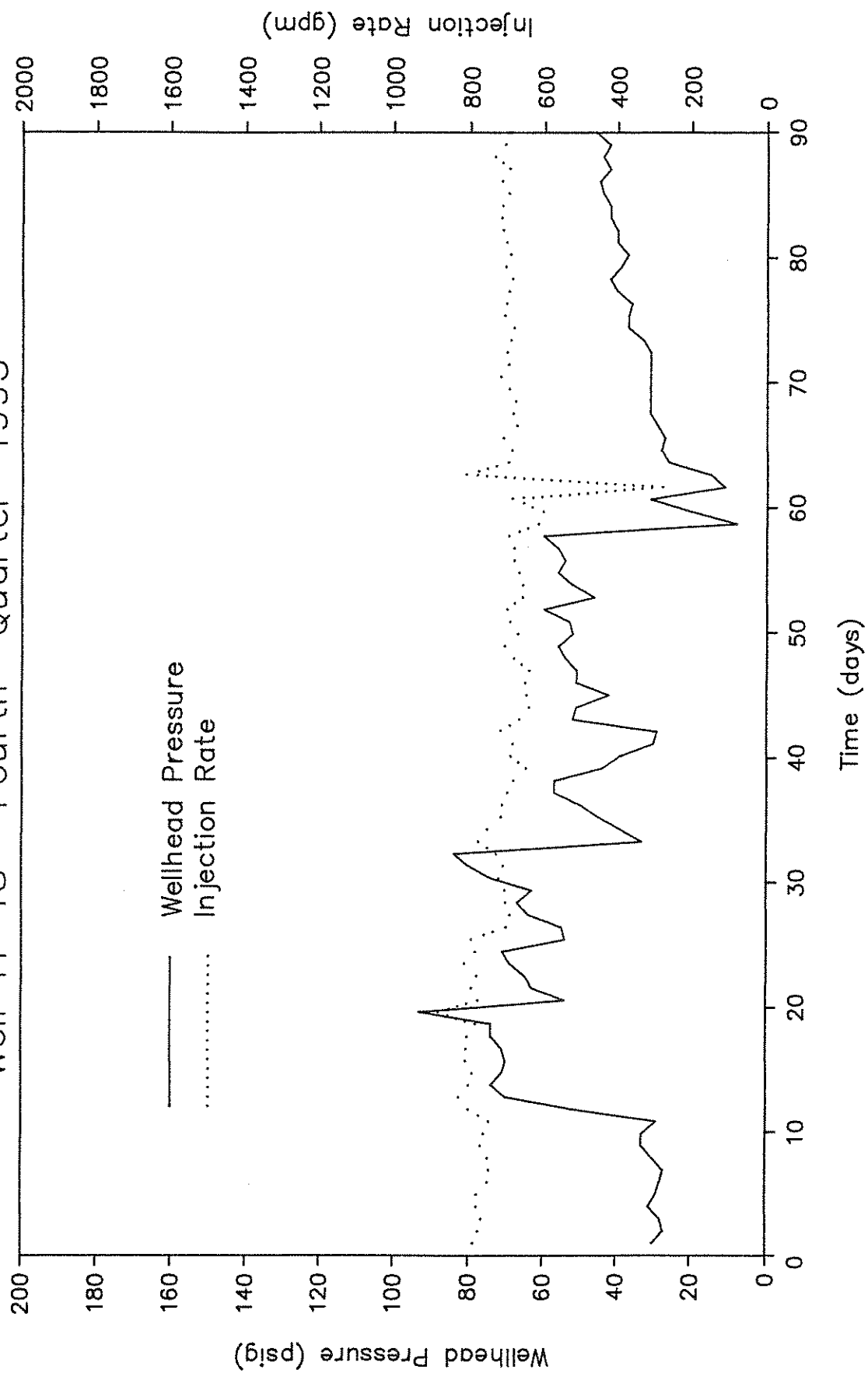
DIXIE VALLEY GEOTHERMAL PLANT
Injection Rate and Wellhead Pressure vs Time
Well 45-5 Fourth Quarter 1993



DIXIE VALLEY GEOTHERMAL PLANT
Injection Rate and Wellhead Pressure vs Time
Well 32-18 Fourth Quarter 1993



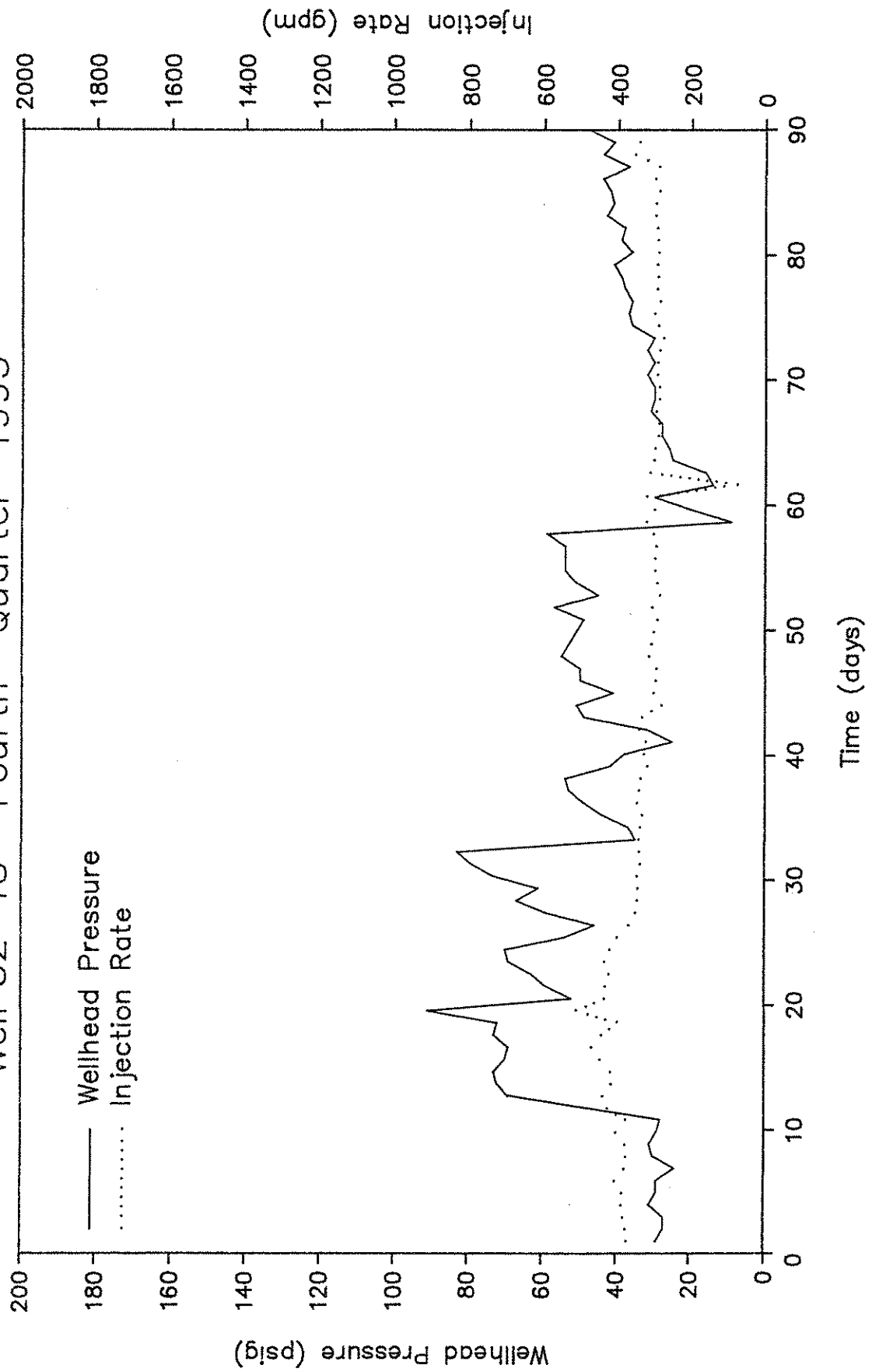
DIXIE VALLEY GEOTHERMAL PLANT
Injection Rate and Wellhead Pressure vs Time
Well 41-18 Fourth Quarter 1993



DIXIE VALLEY GEOTHERMAL PLANT

Injection Rate and Wellhead Pressure vs Time

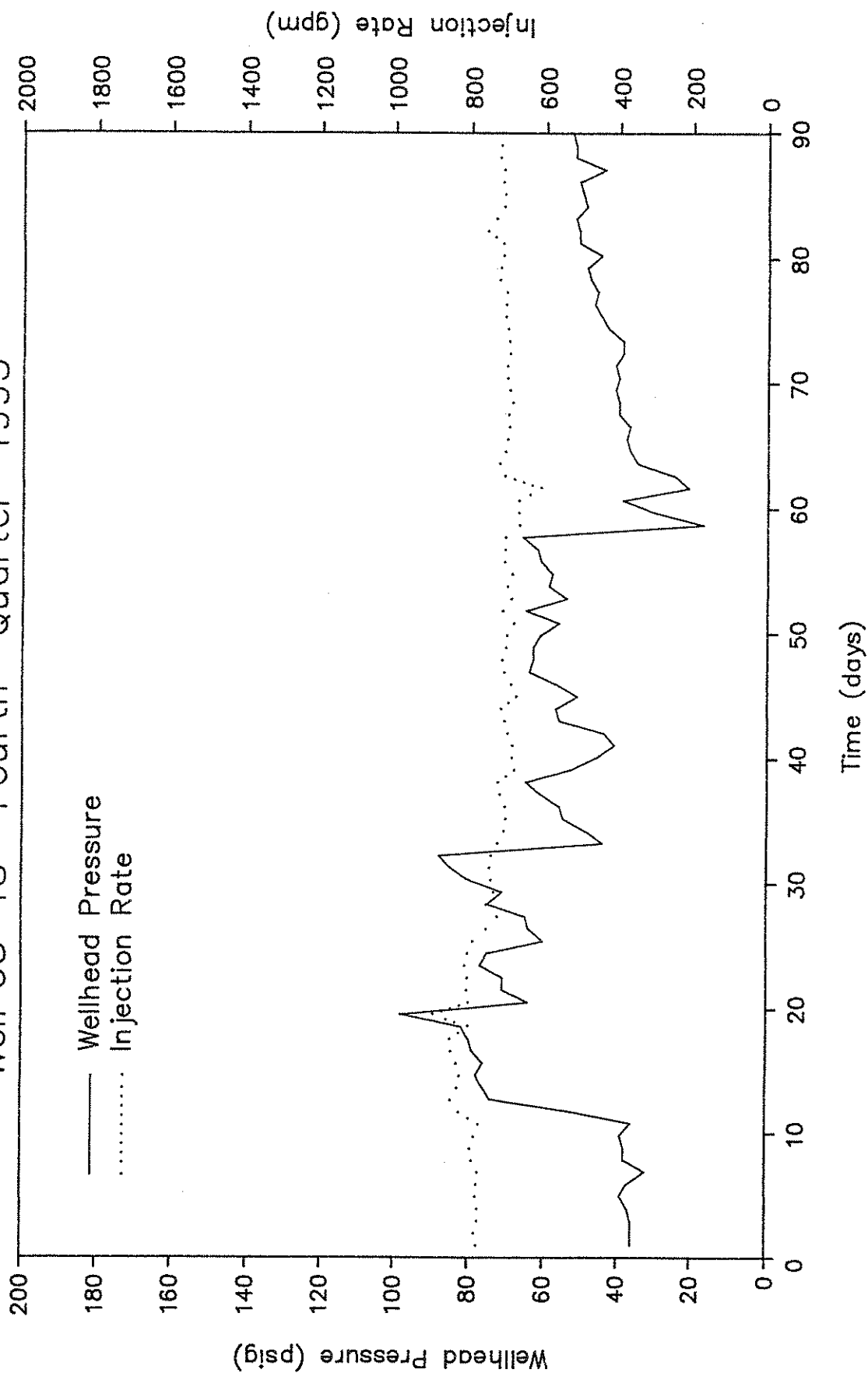
Well 52-18 Fourth Quarter 1993



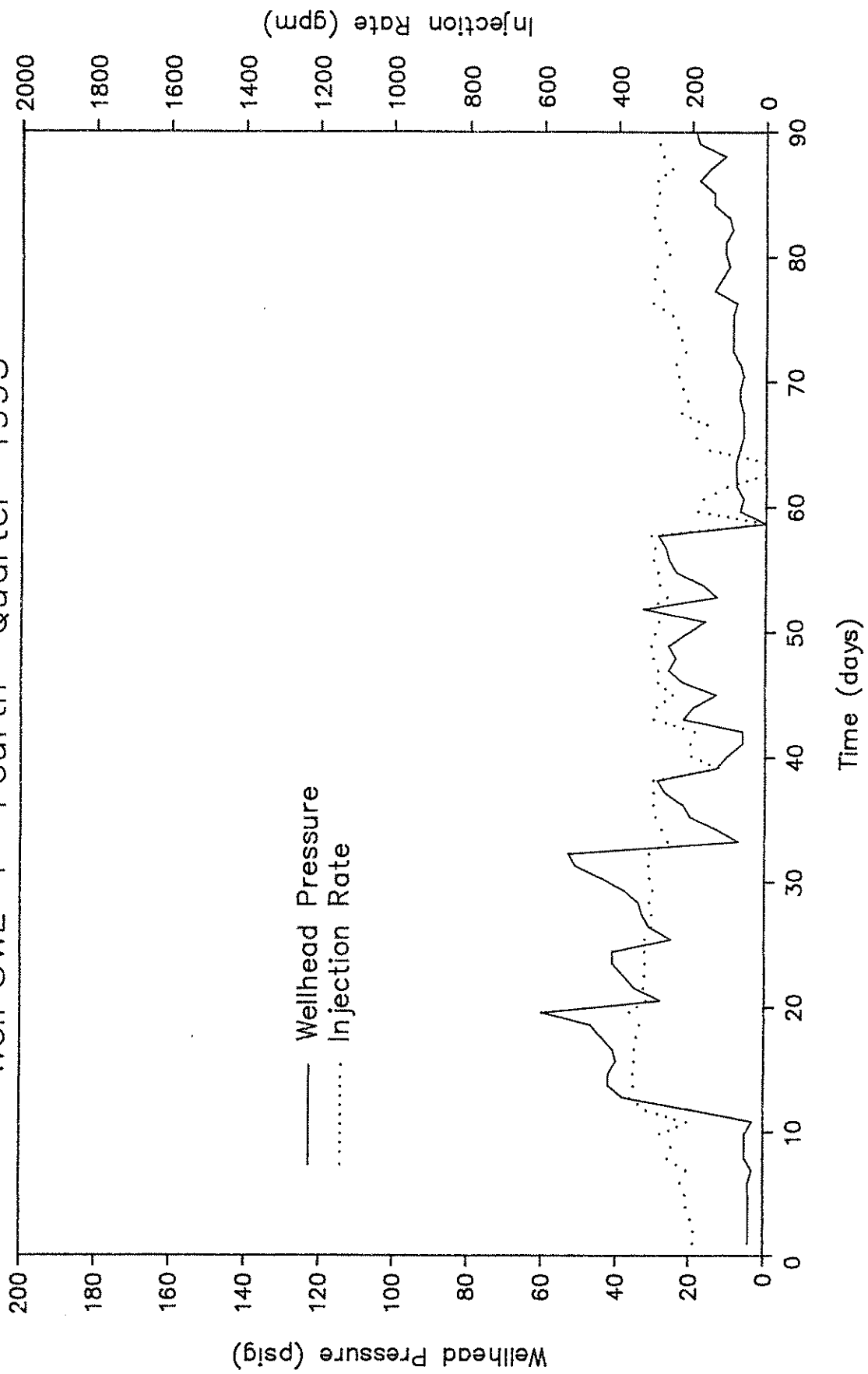
DIXIE VALLEY GEOTHERMAL PLANT

Injection Rate and Wellhead Pressure vs Time

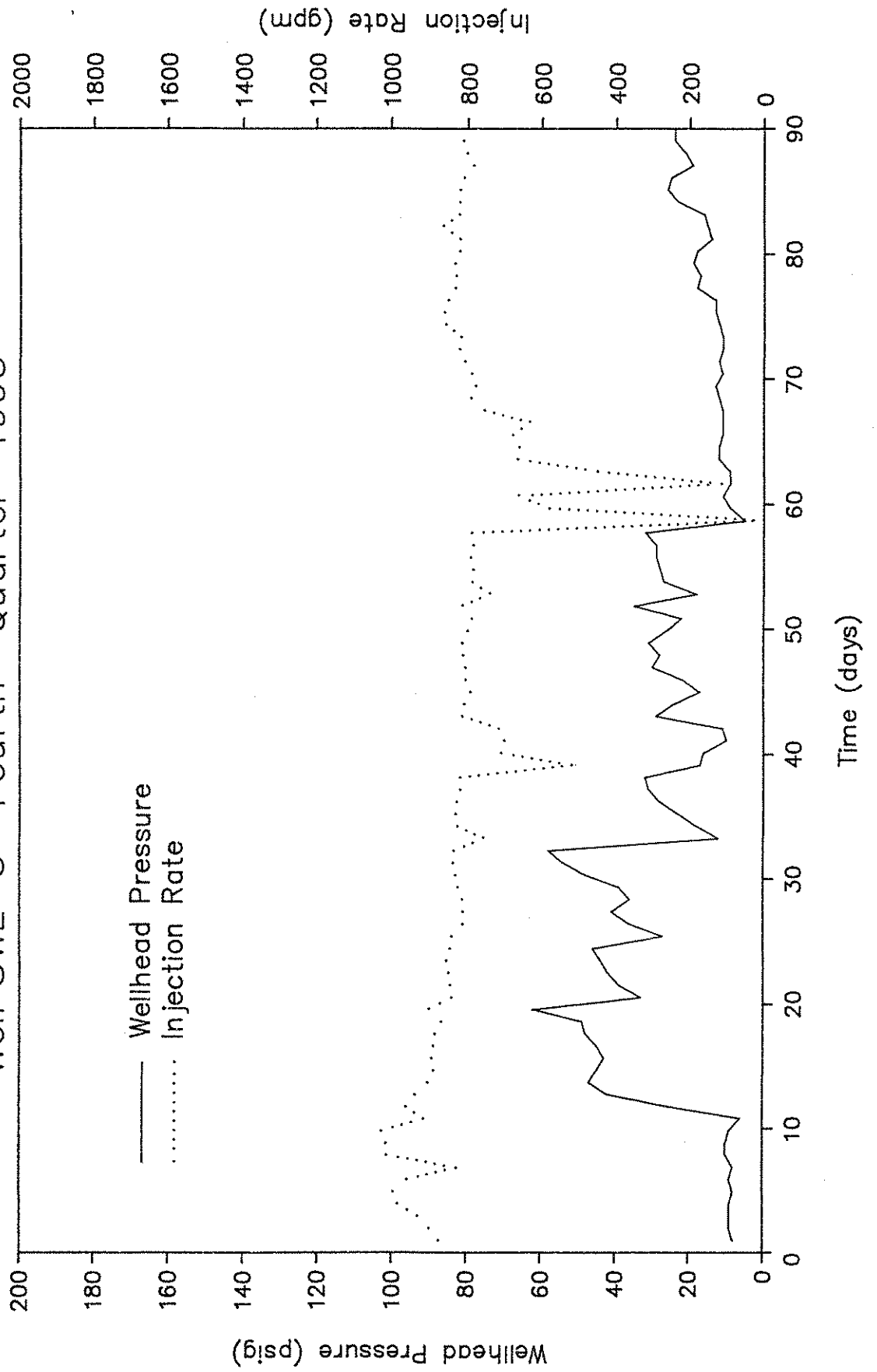
Well 65-18 Fourth Quarter 1993



DIXIE VALLEY GEOTHERMAL PLANT
Injection Rate and Wellhead Pressure vs Time
Well SWL-1 Fourth Quarter 1993



DIXIE VALLEY GEOTHERMAL PLANT
Injection Rate and Wellhead Pressure vs Time
Well SWL-3 Fourth Quarter 1993



Oxbow Geothermal Corporation
200 South Virginia Street, Suite 450
Reno, NV 89501
(702) 825-4345

Dixie Valley Operations Summary, Fourth Quarter, 1993

A. Plant Operations:

1. The power plant tripped off line on October 10th for 45 minutes and the brine from the production separators flowed to their respective well ponds during the trip. Also, there were three SCE load curtailment during December, and a transmission line repair and trip respectively during October and December. However, during these outages fluids were not discharged to the well ponds.

2. The rupture disc failed on high pressure separator V-104 twice during the quarter. The separator was out of service from 2033 10-29 to 0946 10-30 and 2016 12-28 to 1309 12-29. Low pressure separators V-301 and V-302 were out of service from 0040-1830 11-3 to clean the plugged steam strainers. There was surface discharge to pond 27-33 and to Spring Creek during these outages.

3. The cooling tower overflow pump, P-402, was taken out of service at 1015 on October 27th because of a fluid chemical compatibility problem which is currently being studied.

B. Production Wells:

1. Well 28-33 was out of service or being worked over from September 10th until October 12th and was flowed to the pond for a short period of time after the workover. Well 76-7 was shut in from 2122 11-10 to about midnight to replace the 1/4" cap tubing. The well was flowed for a brief time to the pond before going back into service at 0100 11-13. All other production wells were in normal service during the quarter.

C. Injection Wells:

All injection wells were in service during the quarter.

D. Injection System:

The north injection system was out of service for pigging from 0530 10-20 to 1238 10-21 and the south injection system was out of service for pigging from 0400-1400 10-26. The low pressure system was out of service from 0040-1830 11-3 to clean the plugged steam strainers.

Attachment A.

Amount of Surface Discharge	5.80 Mgal	1993
	10.75 Mgal	January
Make	12.74 Mgal	February
These	4.01 Mgal	March
Numbers	20.70 Mgal	April
Values	4.92 Mgal	May
After	2.64 Mgal	June
Each	14.01 Mgal	July
Month	13.17 Mgal	August
	13.17 Mgal	September
	36.01 Mgal	October
	25.24 Mgal	November
	163.16 Mgal	December
	310 gpm	Total
		Average Discharge (gpm)

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of November 1993
Address 5250 S. Virginia St., Suite 304, 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 Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	4.80 Mgal	143.86 Mgal	29 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.69 Mgal	50.56 Mgal	26 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.29 Mgal	38.80 Mgal	30 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	0.98 Mgal	29.45 Mgal	49 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.45 Mgal	13.57 Mgal	47 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.01 Mgal	30.35 Mgal	56 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.38 Mgal	11.43 Mgal	21 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.08 Mgal	32.36 Mgal	25 psig.	Miocene Basalt	7070-7450'
Totals		350.38 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

12/29/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
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(702) 687-5050

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of October 1993
Address 5250 S. Virginia St., Suite 304, Reno, NV 89502

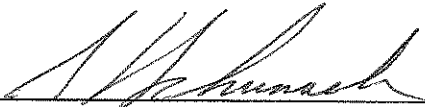
Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	4.94 Mgal	153.04 Mgal	31 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.57 Mgal	48.79 Mgal	30 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.39 Mgal	42.98 Mgal	35 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.11 Mgal	34.46 Mgal	54 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.58 Mgal	17.89 Mgal	52 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.14 Mgal	35.45 Mgal	60 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.42 Mgal	12.94 Mgal	26 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.29 Mgal	39.87 Mgal	30 psig.	Miocene Basalt	7070-7450'
Totals		385.43 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

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Producer Oxbow Geothermal Corp. Month of September 1993

Address 5250 S. Virginia St., Suite 304, Reno, NV 89502

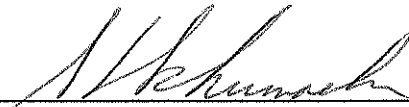
Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.04 Mgal	151.33 Mgal	33 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.59 Mgal	47.63 Mgal	32 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.04 Mgal	31.12 Mgal	28 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	0.98 Mgal	29.40 Mgal	41 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.52 Mgal	15.48 Mgal	40 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.08 Mgal	32.49 Mgal	47 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.36 Mgal	10.67 Mgal	20 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.00 Mgal	29.90 Mgal	24 psig.	Miocene Basalt	7070-7450'
Totals		348.01 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

10/28/93

O X B O W G E O T H E R M A L

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October 1, 1993

Mr. Tom Gallagher
Division of Water Resources
123 West Nye Lane
Carson City, Nevada 89710

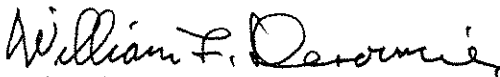
Subject: Third Quarter, 1993, Dixie Valley water production,
injection and consumption.

Dear Tom:

Enclosed is the third quarter report on the 1993 water
production, injection and consumption for the Dixie Valley
geothermal power plant. Also included are the yearly
cumulative.

If you have any questions please call me or Dick Benoit.
Thank you.

Sincerely,


William L. Desormier
Geologist

Distribution: T.Diehl
C.D. Wells
R. Hoops, BLM
K. Loomis, DOM

Division Of Water Resources
 123 West Nye Lane
 Carson City, Nevada 89710
 (702) 687-4380

Oxbow Geothermal Corporation
 5250 South Virginia Street, Suite 304
 Reno, Nevada 89502
 (702) 825-4345

Dixie Valley Power Plant

Third Quarter		1993		Geothermal Water Produced	
Well	July	August	September	Total	
27-33	126.80	47.41	67.77	241.97	
28-33	291.61	212.24	155.84	659.69	
45-33	123.01	90.23	65.74	278.98	
63-7	223.62	217.25	209.82	650.69	
73-7	176.56	161.75	156.86	495.17	
74-7	164.60	159.29	154.44	478.34	
76-7	425.99	316.63	239.53	982.14	
82-7	276.51	253.31	245.65	775.47	
84-7	106.13	78.55	99.58	284.25	
Total	1418.10	1536.65	1395.22	4846.70	acre-feet

Third Quarter		1993		Potable Water Produced	
Well	July	August	September	Total	
W62-7	0.23	0.23	0.23	0.69	
W45-5	0.00	0.00	0.00	0.00	
Total	0.23	0.23	0.23	0.69	acre-feet

Third Quarter		1993		Injected Water	
Well	July	August	September	Total	
25-5	484.44	482.21	462.82	1429.47	
45-5	141.87	146.27	145.66	433.80	
32-18	115.10	112.57	95.16	322.83	
41-18	99.28	103.84	89.93	293.05	
52-18	51.95	55.96	47.35	155.26	
65-18	103.45	105.52	99.36	308.33	
SWL-1	39.25	41.20	32.64	113.09	
SWL-3	116.63	113.90	91.44	321.97	
Total	1151.95	1161.48	1064.35	3377.78	acre-feet

Third Quarter		Totals		(acre-feet)	
Potable	Geothermal	Production	Total	Injection	Consumption
0.69	4846.70	4847.39		3377.78	1469.61

1993		Cumulative		(acre-feet)	
Potable	Geothermal	Production	Total	Injection	Consumption
1.85	13418.29	13420.14		10175.21	3244.94

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of August 1993

Address 5250 S. Virginia St., Suite 304, 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	Gallons per month			
Dixie Valey (all)						
N-12393	25-5	5.09 Mgal	157.67 Mgal	35 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.54 Mgal	47.83 Mgal	35 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.19 Mgal	36.81 Mgal	41 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.10 Mgal	33.95 Mgal	57 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.59 Mgal	18.30 Mgal	56 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.11 Mgal	34.50 Mgal	64 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.43 Mgal	13.47 Mgal	31 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.20 Mgal	37.24 Mgal	36 psig.	Miocene Basalt	7070-7450'
Totals			379.77 Mgal			

Remarks:

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

Name

Stephen Schumacher
Stephen Schumacher

Position

Project Manager

Date

9/29/93

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of July 1993
Address 5250 S. Virginia St., Suite 304, 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 Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.11 Mgal	158.40 Mgal	26 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.50 Mgal	46.39 Mgal	28 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.21 Mgal	37.63 Mgal	32 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.05 Mgal	32.46 Mgal	48 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.55 Mgal	16.98 Mgal	47 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.09 Mgal	33.82 Mgal	55 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.41 Mgal	12.83 Mgal	23 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.23 Mgal	38.14 Mgal	28 psig.	Miocene Basalt	7070-7450'
Totals		376.65 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

8/27/92

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of June 1993
Address 5250 S. Virginia St., Suite 304, Reno, NV 89502

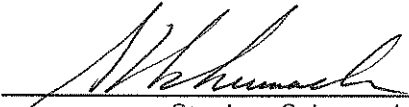
Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.07 Mgal	152.13 Mgal	40 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.60 Mgal	48.07 Mgal	40 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.12 Mgal	33.61 Mgal	48 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.09 Mgal	32.69 Mgal	62 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.54 Mgal	16.09 Mgal	61 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.09 Mgal	32.76 Mgal	70 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.43 Mgal	13.04 Mgal	40 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.27 Mgal	38.14 Mgal	43 psig.	Miocene Basalt	7070-7450'
Totals		366.52 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

7/27/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of May 1993

Address 5250 S. Virginia St., Suite 304, 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 Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	4.91 Mgal	152.36 Mgal	52 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.50 Mgal	46.48 Mgal	51 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.03 Mgal	32.05 Mgal	58 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.05 Mgal	32.69 Mgal	74 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.51 Mgal	15.80 Mgal	73 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.07 Mgal	33.04 Mgal	81 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.39 Mgal	11.97 Mgal	50 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.21 Mgal	37.58 Mgal	54 psig.	Miocene Basalt	7070-7450'
Totals		361.98 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

7/1/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of April 1993
Address 5250 S. Virginia St., Suite 304, 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 Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.29 Mgal	158.75 Mgal	57 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.48 Mgal	44.32 Mgal	57 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.05 Mgal	31.64 Mgal	67 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.12 Mgal	33.71 Mgal	83 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.58 Mgal	17.54 Mgal	81 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.13 Mgal	33.97 Mgal	88 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.45 Mgal	13.44 Mgal	58 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.29 Mgal	38.68 Mgal	60 psig.	Miocene Basalt	7070-7450'
Totals		372.06 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

5/26/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of March 1993
Address 5250 S. Virginia St., Suite 304, Reno, NV 89502

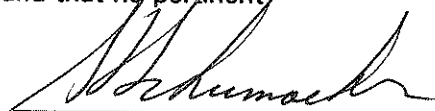
Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name Dixie Valley (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.20 Mgal	161.33 Mgal	57 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.43 Mgal	44.46 Mgal	59 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.15 Mgal	35.50 Mgal	66 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.11 Mgal	34.33 Mgal	83 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.49 Mgal	15.32 Mgal	82 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.11 Mgal	34.43 Mgal	89 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.47 Mgal	14.47 Mgal	59 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.21 Mgal	37.41 Mgal	62 psig.	Miocene Basalt	7070-7450'
Totals		377.24 Mgal				

Remarks:

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

Name



Stephen Schumacher

Position

Project Manager

Date

4/29/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of February 1993

Address 5250 S. Virginia St., Suite 304, Reno, NV 89502

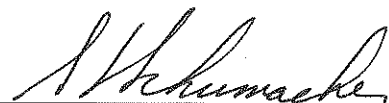
Show each injection well separately. File not later than the last day of the month for the preceding month.

Field and lease name Dixie Valley (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.48 Mgal	153.45 Mgal	55 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.29 Mgal	36.26 Mgal	59 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.17 Mgal	32.77 Mgal	68 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.15 Mgal	32.14 Mgal	82 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.50 Mgal	14.08 Mgal	81 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.19 Mgal	33.45 Mgal	87 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.53 Mgal	14.78 Mgal	57 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.20 Mgal	33.63 Mgal	60 psig.	Miocene Basalt	7070-7450'
Totals		350.56 Mgal				

Remarks:

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

Name



Stephen Schumacher

Position

Project Manager

Date

3/29/93

STATE OF NEVADA
DEPARTMENT OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89710
(702) 687-5050

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer Oxbow Geothermal Corp. Month of January 1993
Address 5250 S. Virginia St., Suite 304, 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 Dixie Valey (all)	Well No.	Geothermal Fluids Injected		Injection pressure	Reservoir formation	Reservoir Depth
		Gallons per day	Gallons per month			
N-12393	25-5	5.50 Mgal	170.65 Mgal	34 psig.	Miocene Basalt	6193-6215'
N-12393	45-5	1.37 Mgal	42.51 Mgal	38 psig.	Miocene Basalt	6200-6300'
Lamb Fee	32-18	1.17 Mgal	36.37 Mgal	45 psig.	Miocene Basalt	7360-7374'
Lamb Fee	41-18	1.17 Mgal	36.31 Mgal	61 psig.	Jurassic Gabbro	9635-9700'
Lamb Fee	52-18	0.54 Mgal	16.68 Mgal	60 psig.	Jurassic Gabbro	9500-9600'
N-12862	65-18	1.20 Mgal	37.23 Mgal	67 psig.	Jurassic Gabbro	9265-9417'
Lamb Fee	SWL-1	0.57 Mgal	17.54 Mgal	36 psig.	Miocene Basalt	7191-7256'
Lamb Fee	SWL-3	1.19 Mgal	36.92 Mgal	42 psig.	Miocene Basalt	7070-7450'
Totals		394.20 Mgal				

Remarks:

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

Name


Stephen Schumacher

Position

Project Manager

Date

2/26/93