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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: December, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and { Lease Name }		Geothermal F	luids Injected			Reservoir
Heade Name	. OVI	Gallons per day (operating)	Gallons per month	Press. (psig)		depth (feet)
Desert Peak	21-2	2,823,028	87,272,738	102.7	and device and have been also as an an a	2030 - 3192
; } ! ? !	20 St. 10		urs this month metered at (F):		741.95 234.1	
·	1					

Remarks:

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

Von W. Maynard

Position:

Operations Superintendent

Vn W. Mayne

Date:

January 9, 1993

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: November, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name	-	angus usaan woon, ahasi shawa utaus share karab karab bahan usabi wunin un	luids Injected	Inj. Press.		Reservoir depth
		day day (operating)	Gallons per month	(psig)		(feet)
Desert Peak	21-2	2,830,478	84,914,335	105.7		2030 - 3192
			urs this month metered at (F):	, -	720.00 235.5	
	t t					
	}]		€ ₹ ₹ 1

Remarks:

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

Signature :

Von W. Maynard

Position:

Operations Superintendent

Von W. Maynen

Date:

December 8, 1992

November, 1992 Page 1 of 2

OPERATOR: Western States Geothermal Co.

ADDRESS:

P. O. Box 2627, Sparks, NV 89432-2627

LEASE:

FIELD: DESERT PEAK COUNTY: Churchill

STATE: Nevada

PLANT OPERATIONS

Plant On-line:

30.00 days

Total Production: Average Flowrate: 824,079,840 total lbs steam and brine 1,144,555 total lbs/hr steam and brine

Cool. Tower Blowdown:

5,099,000 gal

HP Steam Separated: LP Steam Separated:

80,579,880 lbs steam 73,174,080 lbs steam

ELECTRICAL GENERATION

Gross elec. produced:

7,280,640 kwh

Net elec. produced:

6,576,000 kwh

Approximate revenue:

\$470,836

at a sales rate of:

\$0.064670 per kwh

based on gross kwh sales.

WELL OPERATIONS

Production

Well#	Sec	Tap	Rge	Type
67-21	21	22N	27E	Prod.

Wellhead Pressure:

86.67 psig

Wellhead Temperature:

327.25 F

Volume Produced:

54,655,178 gal at

327.25 F

Days produced:

30.00 days

Well#	Sec	Tsp	Rge	Type
86-21	21	22N	27E	Prod.

Wellhead Pressure:

86.67 psig

Wellhead Temperature:

327.25 F 54,655,178 gal at

327.25 F

Volume Produced: Days produced:

30.00 days

Individual well production is not metered due to difficulty of accurately metering two-phase (steam and brine) flow. Above volumes are figured by individually metering HP and LP steam and brine from the separators.

November, 1992 Page 2 of 2

OPERATOR: Western States Geothermal Co.

ADDRESS:

P. O. Box 2627, Sparks, NV 89432-2627

LEASE:

FIELD: DESERT PEAK

COUNTY: Churchill

WELL OPERATIONS (Continued)

Injection

Well#	Sec	Tsp	Rge	Type
21-2	21	22N	27E	Inj.

Wellhead Pressure:

105.78 psig

Wellhead Temperature:

235.5 F

Volume Injected:

84,914,335 gal at

235.5 F

Days injected:

30,00 days

Brine flow is metered out of the low pressure separator. at approximately the injection temperature of 235.5 F.

WELL AND PLANT WORK PERFORMED

Normal plant operations and maintenance.

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Vin W. Mayor

Von W. Maynard Operations Superintendent

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: October, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name	•	Geothermal F	luids Injected	Inj. Press.		Reservoir
Lease Maine		Gallons per day (operating)	Gallons per month	(psig)		(feet)
Desert Peak	21-2	2,825,052	87,635,472	103.9	me sales have been stop with these while sales	2030 -
			ars this month metered at (F)		744.50 236.19	()
			1 1 1 1 1 1 1			4 J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Į Į	! !) 	} } {		; } I

Remarks:

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

Signature :

Von W. Maynard

Vin W. Mayount

Position:

Operations Superintendent

Date:

November 11, 1992

October, 1992 Page 2 of 2

OPERATOR: Western States Geothermal Co.

ADDRESS: P. O. Box 2627, Sparks, NV 89432-2627

LEASE:

FIELD: DESERT PEAK

COUNTY: Churchill

WELL OPERATIONS (Continued)

Injection

Well#		Tsp	Rge	Type	
21-2	21	22N	27E	Inj.	_

Wellhead Pressure:

103.97 psig

Wellhead Temperature:

236.19 F

Volume Injected:

87,635,472 gal at

236.19 F

Days injected:

31.02 days

Brine flow is metered out of the low pressure separator. at approximately the injection temperature of 236.19 F.

WELL AND PLANT WORK PERFORMED

Normal plant operations and maintenance.

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0

0

0

Vns W. Maynual

Von W. Maynard Operations Superintendent

October, 1992 Page 1 of 2

OPERATOR: Western States Geothermal Co.

ADDRESS: P. O. Box 2627, Sparks, NV 89432-2627

LEASE:

FIELD: DESERT PEAK COUNTY: Churchill

STATE: Nevada

PLANT OPERATIONS

Plant On-line:

31.02 days

Total Production: Average Flowrate:

852,126,352 total 1bs steam and brine 1,144,562 total lbs/hr steam and brine

Cool. Tower Blowdown:

3,455,300 gal

HP Steam Separated: LP Steam Separated:

83,112,477 lbs steam

75,501,779 lbs steam

ELECTRICAL GENERATION

Gross elec. produced:

7,318,560 kwh

Net elec. produced:

6,585,600 kwh

Approximate revenue:

\$473,288

at a sales rate of:

\$0.064670 per kwh

based on gross kwh sales.

WELL OPERATIONS

Production

Well#	Sec	Tsp	Rge	Type
··· ··· ··· ··· ··· ···				
67-21	21	22N	27E	Prod.

Wellhead Pressure:

86.74 psig

Wellhead Temperature: Volume Produced:

327.5 F 56,561,063 gal at

327.5 F

Days produced:

31.02 days

Well# Sec Tsp Rge Type 86-21 21 22N 27E Prod.

Wellhead Pressure:

86.74 psig

Wellhead Temperature: Volume Produced:

327.5 F 56,561,063 gal at

327.5 F

Days produced:

31.02 days

Individual well production is not metered due to difficulty of accurately metering two-phase (steam and brine) flow. Above volumes are figured by individually metering HP and LP steam and brine from the separators.

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month:

September, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name	•	Geothermal F	luids Injected	Inj. Press.		Reservoir depth
reals want	\$ \$#\$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Gallons per day (operating)	Gallons per month	(psig)		(feet)
Desert Peak	21-2	2,913,430	65,238,974	107.5		2030 - 3192
	f		urs this month metered at (F)		537.42 237.2	
			t i i i i	1 1 2 5 4 4 4		9
	} ! ! !		l 1 1 1 1 2	t 1 1	4 1 1 1 1	† } †

Remarks:

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

Signature :

Von W. Maynard

Position:

Operations Superintendent

Ver W. Mayer

Date:

October 8, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: August, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

		Geothermal F	luids Injected			Reservoir
Lease Name	No.	Gallons per day (operating)	Gallons per month	Press. (psig)		depth (feet)
Desert Peak	21-2	2,900,727	89,346,024	104.3	in make tites their mode have note actes of	2030 - 3192
; ; ;			urs this month metered at (F):		739.23 236.48	} { } } { }
1 1 5 6 7 1 1 1 1 1 1						

Remarks:

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

Signature :

Von W. Maynard

Vm W. Mon

Position:

Operations Superintendent

Date:

September 3, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: July, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name	•	Geothermal Fli	uids Injected	Inj. Press.		
neare mane	140/*	Gallons per day (operating)	Gallons per month	(psig)		depth (feet)
Desert Peak	21-2	2,909,312	89,743,788	104.0	A Arthro Gold State and Marie age case ages of	2030 - 3192
		Injecting hour Temperature me			740.33 236	
			\$ 	# # to ap 9 % # # #		
			1 2 3 1 4	1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		

Remarks:

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

Signature :

Von W. Maynard

Position:

Operations Superintendent

Von W. Magnel

Date:

August 10, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: June, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name		Geothermal F	luids Injected			
rease name	1 140 -	•	Gallons per month	Press.		depth (feet)
Desert Peak	21-2	2,913,652	87,409,550	103.2	of 1966-1970, 2066, State 2022, make Asian make a	2030 - 3192
			urs this month metered at (F)		720.00 234.63	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
						1

Remarks:

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

Signature:

Von W. Maynard

Von W. Map

Position:

Operations Superintendent

Date:

July 8, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: May, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name	,	, , , , , , , , , , , , , , , , , , , ,			Reservoir
		Gallons per Gallons per day month	Press.	Form.	depth
	3	(operating)	(psig)		(feet)
Desert Peak	21-2	2,877,457 89,006,927	100.3		2030 ~ 3192
	der tag men Var ann ten	Injecting hours this month Temperature metered at (F)		742.38 235.46	
!	non nor mer lan har her h				
		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		
!		1			

Remarks:

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

Signature :

Von W. Maynard

Position:

Operations Superintendent

Vm W. Mayrand

Date:

June 9, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: April, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name	•	Geothermal Fluids Injected		-		Reservoir
		Gallons per day (operating)	Gallons per month	Press. (psig)	! !	depth (feet)
Desert Peak	21-2	2,947,028	87,295,887	96.73	and the same and along the same and	2030 - 3192
	v ann das der der der var		urs this month metered at (F)		710.92 235.63	

Remarks:

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

Signature:

Von W. Maynard

Position:

Operations Superintendent

Von W. Maynord

Date:

May 12, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: March, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name					•	Reservoir
		Gallons per day (operating)	Gallons per month	Press. (psig)		depth (feet)
Desert Peak	21-2	2,960,976	91,420,133	98.58	A STATE STAT	2030 -
1 1 2 1			urs this month metered at (F):		741.00 235.22	
1						{

Remarks:

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

Signature :

Von W. Maynard

Van W. Mayor

Position:

Operations Superintendent

Date:

April 8, 1992

Orig - NDOM Dup - NBM&G Trip - DWR

Quad - DEP

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: February, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name		Geothermal Fluids Injected		Inj. R Press. E		•
		Gallons per day (operating)	Gallons per month	(psig)		(feet)
Desert Peak	21-2	2,946,716	85,454,754	100.0	ne rom vole nike noor oom van see seen nie	2030 -
:			urs this month metered at (F):	, ,	696.00 235.39	
			t f i i t j t f f			

Remarks:

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

Signature :

Von W. Maynard

Position:

Operations Superintendent

Var a Mugant

Date:

March 6, 1992

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

REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer:

Western States Geothermal Co.

Month: January, 1992

Address:

P. O. Box 2627, Sparks, NV 89432-2627

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

Field and Lease Name		Geothermal F	luids Injected		Form.	
		Gallons per day (operating)	month	Press. (psig)		depth (feet)
Desert Peak	21-2	2,964,528	91,571,788	1.00.8	THE THE STATE STATE STATE STATE STATE ASSESSMENT ASSESS	 2030 - 3192
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$, , , ,		urs this month metered at (F):		741.34 236.45	
1 d	; ; ; ;) } } { }	1			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	} } } }	: : : :	1 2 2 2	an an de vie en		

Remarks:

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

Signature:

Von W. Maynard

Position:

Operations Superintendent

Von W. Maynoul

Date:

February 10, 1992