

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

GEOHERMAL PRODUCER'S MONTHLY REPORT

This report to be filed by the end of the month following the month herein reported.

Company: Western States Geothermal Co. Address: P. O. Box 2627
 Sparks, NV 89432

Lease: Desert Peak County: Churchill Month of: November, 1991

LOCATION			COMMERCIAL CLASS					INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Net Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
67-21	45397	21	T22N	R27E	N/A	N/A	N/A	3340.8	57,209,199	328
86-21	46070	21	T22N	R27E	N/A	N/A	N/A	3340.8	57,209,199	328
Prod. hrs this month, ea. well:									720 hrs	
TOTALS:								6681.6	114,418,397	

Method of determining production: Plant steam and brine flowmeters

I hereby certify that the information given herewith is true, correct, and complete.

Von W. Maynard
 Von W. Maynard
 Operations Superintendent

Telephone: (702) 423-2002

Date: November 7, 1991

DEPARTMENT OF MINERALS
 400 W. King Street, Suite 106
 Carson City, Nevada 89710
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GEOHERMAL PRODUCER'S MONTHLY REPORT

This report to be filed by the end of the month following the month herein reported.

Company: Western States Geothermal Co. Address: P. O. Box 2627
 Sparks, NV 89432

Lease: Desert Peak County: Churchill Month of: August, 1991

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Net Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
67-21	45397	21	T22N	R27E	N/A	N/A	N/A	2712	49,358,039	328.
86-21	46070	21	T22N	R27E	N/A	N/A	N/A	2712	49,358,039	328.
Prod. hrs this month, ea. well:									630 hrs	
TOTALS:								5424	98,716,079	

Method of determining production: Plant steam and brine flowmeters

I hereby certify that the information given herewith is true, correct, and complete.

Von W. Maynard
 Von W. Maynard
 Operations Superintendent

Telephone: (702) 423-2002

Date: September 10, 1991

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

June, 1991
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: 854,799,984 total lbs steam and brine
Average Flowrate: 1,187,222 total lbs/hr steam and brine
Cool. Tower Blowdown: 3,015,870 gal
HP Steam Separated: 74,200,176 lbs steam
LP Steam Separated: 74,300,160 lbs steam

ELECTRICAL GENERATION

Gross elec. produced: 7,139,520 kwh
Net elec. produced: 6,417,600 kwh

Approximate revenue: \$459,658
at a sales rate of: \$0.064382 per kwh
based on gross kwh sales.

WELL OPERATIONS

Production

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

Wellhead Pressure: 89.49 psig
Wellhead Temperature: 329.13 F
Volume Produced: 56,755,858 gal at 329.13 F
Days produced: 30.00 days

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

Wellhead Pressure: 89.49 psig
Wellhead Temperature: 329.13 F
Volume Produced: 56,755,858 gal at 329.13 F
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.

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

June, 1991
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: 80.3 psig
Wellhead Temperature: 237.28 F
Volume Injected: 89,623,962 gal at 237.28 F
Days injected: 30.00 days

Brine flow is metered out of the low pressure separator.
at approximately the injection temperature of 237.28 F.

WELL AND PLANT WORK PERFORMED

Normal plant & field operations.

Pulled capillary tube and inspected for buildup or damage.

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Von W. Maynard

Von W. Maynard
Operations Superintendent

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

May, 1991
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: 30.53 days
Total Production: 881,299,984 total lbs steam and brine
Average Flowrate: 1,202,729 total lbs/hr steam and brine
Cool. Tower Blowdown: 4,330,325 gal
HP Steam Separated: 76,300,127 lbs steam
LP Steam Separated: 75,700,195 lbs steam

ELECTRICAL GENERATION

Gross elec. produced: 7,404,960 kwh
Net elec. produced: 6,672,000 kwh

Approximate revenue: \$474,836
at a sales rate of: \$0.064124 per kwh
based on gross kwh sales.

WELL OPERATIONS

Production

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

Wellhead Pressure: 89.68 psig
Wellhead Temperature: 329.44 F
Volume Produced: 58,528,583 gal at 329.44 F
Days produced: 30.53 days

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

Wellhead Pressure: 89.68 psig
Wellhead Temperature: 329.44 F
Volume Produced: 58,528,583 gal at 329.44 F
Days produced: 30.53 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.

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

May, 1991
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.

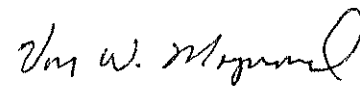
Wellhead Pressure: 78.37 psig
Wellhead Temperature: 236.7 F
Volume Injected: 92,502,949 gal at 236.7 F
Days injected: 30.53 days

Brine flow is metered out of the low pressure separator.
at approximately the injection temperature of 236.7 F.

WELL AND PLANT WORK PERFORMED

Replaced hotwell pump.
Repaired leak in liquid leg on inner-condenser.
Field production normal maintenance.

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Von W. Maynard
Operations Superintendent

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

February, 1991
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: 28.00 days
Total Production: 805,199,880 total lbs steam and brine
Average Flowrate: 1,198,214 total lbs/hr steam and brine
Cool. Tower Blowdown: 4,399,100 gal
HP Steam Separated: 71,200,032 lbs steam
LP Steam Separated: 68,900,136 lbs steam

ELECTRICAL GENERATION

Gross elec. produced: 6,955,200 kwh
Net elec. produced: 6,292,800 kwh

Approximate revenue: \$445,995
at a sales rate of: \$0.064124 per kwh
based on gross kwh sales.

WELL OPERATIONS

Production

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

Wellhead Pressure: 88.17 psig
Wellhead Temperature: 328.39 F
Volume Produced: 53,439,160 gal at 328.39 F
Days produced: 28.00 days

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

Wellhead Pressure: 88.17 psig
Wellhead Temperature: 328.39 F
Volume Produced: 53,439,160 gal at 328.39 F
Days produced: 28.00 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.

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

February, 1991
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: 80.86 psig
Wellhead Temperature: 237.86 F
Volume Injected: 84,432,582 gal at 237.86 F
Days injected: 28.00 days

Brine flow is metered out of the low pressure separator.
at approximately the injection temperature of 237.86 F.

WELL AND PLANT WORK PERFORMED

Pulled and inspected Cap Tubing 2-14-91.

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Operations Superintendent

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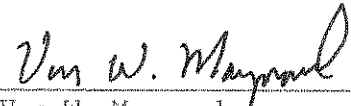
Company: Western States Geothermal Co. Address: P. O. Box 2627
 Sparks, NV 89432

Lease: Desert Peak County: Churchill Month of: January, 1991

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Net Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
67-21	45397	21	T22N	R27E	N/A	N/A	N/A	3441.6	59,332,387	328.
86-21	46070	21	T22N	R27E	N/A	N/A	N/A	3441.6	59,332,387	328.
Prod. hrs this month, ea. well:									737.88 hrs	
TOTALS:								6883.2	118,664,774	

Method of determining production: Plant steam and brine flowmeters

I hereby certify that the information given herewith is true, correct, and complete.


 Von W. Maynard
 Operations Superintendent

Telephone: (702) 423-2002

Date: February 7, 1991

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

January, 1991
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: 30.75 days
Total Production: 893,794,945 total lbs steam and brine
Average Flowrate: 1,211,301 total lbs/hr steam and brine
Cool. Tower Blowdown: 5,923,630 gal
HP Steam Separated: 78,799,565 lbs steam
LP Steam Separated: 75,799,795 lbs steam

ELECTRICAL GENERATION

Gross elec. produced: 7,599,840 kwh
Net elec. produced: 6,883,200 kwh

Approximate revenue: \$486,238
at a sales rate of: \$0.063980 per kwh
based on gross kwh sales.

WELL OPERATIONS

Production

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

Wellhead Pressure: 88.36 psig
Wellhead Temperature: 328.46 F
Volume Produced: 59,332,387 gal at 328.46 F
Days produced: 30.75 days

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

Wellhead Pressure: 88.36 psig
Wellhead Temperature: 328.46 F
Volume Produced: 59,332,387 gal at 328.46 F
Days produced: 30.75 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.

BUREAU OF LAND MANAGEMENT
MONTHLY REPORT OF GEOTHERMAL OPERATIONS

January, 1991
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.

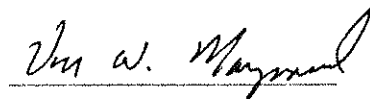
Wellhead Pressure: 81.37 psig
Wellhead Temperature: 238.23 F
Volume Injected: 93,517,012 gal at 238.23 F
Days injected: 30.75 days

Brine flow is metered out of the low pressure separator.
at approximately the injection temperature of 238.23 F.

WELL AND PLANT WORK PERFORMED

Replaced west hot well pump.

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Von W. Maynard
Operations Superintendent