

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: TC 587110 County: Churchill Month of: December, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp
84-33		33	T20N	R28E	N/A	N/A	N/A	1866	47,498,765	368
								Producing hrs this month: 737.8 hrs		
								* Actually metered at 190 degrees F: 43,362,648 Difference due to contraction during cooling.		
TOTALS:								1866	47,498,765	

Method of determining production: Annubar metering brine exiting plant on way to injection well #1-29.

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

Name: Von W. Maynard

Von W. Maynard
 Superintendent

Telephone: (702) 423-2002

Date: January 13, 1989

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DEC 22 1988

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GEOTHERMAL 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: TC 587110 County: Churchill Month of: November, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
84-33		33	T20N	R28E	N/A	N/A	N/A	1656	41,583,301	365
								Producing hrs this month: 669.7 hrs		
								* Actually metered at 191 degrees F: 37,962,293 Difference due to contraction during cooling.		
TOTALS:								1656	41,583,301	

Method of determining production: Annubar metering brine exiting plant on way to injection well #1-29.

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

Name: 

Fred L. Manuel
Operations Engineer

Telephone: (702) 423-2002

Date: December 20, 1988

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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: TC 587110 County: Churchill Month of: October, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
84-33		33	T20N	R28E	N/A	N/A	N/A	1816	42,429,570	365
								Producing hrs this month: 725.3 hrs		
								* Actually metered at 193 degrees F: 38,750,252 Difference due to contraction during cooling.		
TOTALS:								1816	42,429,570	

Method of determining production: Annubar metering brine exiting plant on way to injection well #1-29.

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

Name: *Fred L. Manuel* for
 Fred L. Manuel
 Von W. Maynard
 Operations Superintendent

Telephone: (702) 423-2002

Date: November 22, 1988

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GEOTHERMAL PRODUCER'S MONTHLY REPORT

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

Lease: TC 587110 County: Churchill Month of: September, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
84-33		33	T20N	R28E				1162.1	41,750,217	365
			Producing hrs this month: 720 hrs							
			* Actually metered at 202 degrees F: 38,267,999 Difference due to contraction during cooling.							
TOTALS:								1162.1	41,750,217	

Method of determining production: Annubar metering brine exiting plant on way to injection well #1-29.

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

Name: *Von W. Maynard*

Von W. Maynard
 Supervisor

Telephone: (702) 423-2002

Date: October 7, 1988

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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: September, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
67-21	45397	21	T22N	R27E	N/A	N/A	N/A	2862.3	50,235,624	327
86-21	46070	21	T22N	R27E	N/A	N/A	N/A	2862.3	50,235,624	327
Prod. hrs this month, ea. well:									716.65 hrs	
TOTALS:								5724.6	100,471,247	

Method of determining production: Plant steam and brine flowmeters

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

Name: *Fred F. Maynard Sr*

Von W. Maynard
Supervisor

Telephone: (702) 423-2002

Date: Oct. 1, 1988

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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: TC 587110 County: Churchill Month of: August, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
84-33		33	T20N	R28E	N/A	N/A	N/A	1568	43,382,705	365
					Producing hrs this month:			740.3 hrs		
					* Actually metered at 204 degrees F:			39,798,528		
					Difference due to contraction during cooling.					
TOTALS:								1568	43,382,705	

Method of determining production: Annubar metering brine exiting plant on way to injection well #1-29.

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

Name: Fred W. Maynard
 Von W. Maynard
 Supervisor
 Telephone: (702) 423-2002
 Date: September 16, 1988

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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: TC 587110 County: Churchill Month of: July, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec	Twp.	Rge.				Prod. Sales (MWH)	Gallons Per Mo/Produced	Avg. Temp.
84-33		33	T20N	R28E	N/A	N/A	N/A	1664.4	42,505,806	365
								Producing hrs this month: 741.2 hrs		
								* Actually metered at 198 degrees F: 38,907,750 Difference due to contraction during cooling.		
TOTALS:								1664.4	42,505,806	

Method of determining production: Annubar metering brine exiting plant on way to injection well #1-29.

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

Name: Frank L. Merrill
 Telephone: (702) 423-2002
 Date: August 19, 1988

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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 Chevron Resources
Western States Geothermal Co. Address P O Box 1620, Fallon, NV 89406
 Lease Soda Lake County Churchill Month of June, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec.	Twp.	Rge.	Production Sales	Gallons Per Mo/Consumed	Avg. Temp	Production Sales	Gallons Per Mo/Consumed	Avg. Temp
84-33		33	T20N	R28E				883.6 MW Hrs	21,959,529	365F
*Actually metered 19,980,048 gal at 185F. Above volume would be this volume at 365F due to thermal expansion of water.										
Plant and well operations were down from June 6 to June 20, 1988, due to a pump lineshaft failure in well #84-33. The pump was repaired and placed back in operation.										

TOTALS
 Method of determining production: Brine meter on pipeline exiting plant on way to inj well.

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

Name Fred L. Manuel
 Fred L. Manuel, Operations Engineer
 Telephone (702) 423-2002
 Date July 22, 1988

STATE OF NEVADA
DEPARTMENT OF MINERALS
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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 5049 San Ramon Ca 94583-0949

Lease TC 58711 0 County Churchill Month of May, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec.	Twp.	Rge.	Production Sales	Gallons Per Mo/Consumed	Avg. Temp	Production Sales	Gallons Per Mo/Consumed	Avg. Temp
84-33		33	T20N	R28E				1697 MW	47,102,189	365

TOTALS

Method of determining production: _____

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

Name *D.B. Wolfe*

Telephone 415-842-5308

Date 23 June 1988

STATE OF NEVADA
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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 5049, San Ramon, Ca. 94583-0949
 Lease T-C 587110 County Churchill Month of April, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec.	Twp.	Rge.	Production Sales	Gallons Per Mo/Consumed	Avg. Temp	Production Sales	Gallons Per Mo/Consumed	Avg. Temp
84-33		33	T 20N	R28E				1,441.26 MW Net	39,489,173	365

TOTALS

Method of determining production: _____

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

Name D. Wolfe *D Wolfe*

Telephone 415-842-5308

Date 6/6/88

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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 5049 San Ramon Ca. 94583-0949
 Lease T-C 587110 County Churchill Month of March, 19 88

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec.	Twp.	Rge.	Production Sales	Gallons Per Mo/Consumed	Avg. Temp	Production Sales	Gallons Per Mo/Consumed	Avg. Temp
84-33		33	T 20N	R28E				1,511.73 Mw Net	39,949,219	365

TOTALS

Method of determining production: _____

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

Name D. Wolfe 

Telephone 415-842-5308

Date 6/6/88



Chevron Resources Company

A Division of Chevron Industries, Inc.
6001 Bollinger Canyon Road, San Ramon, California
Mail Address: P.O. Box 5049, San Ramon, CA 94583-0949

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APR 08 1988

April 5, 1988 DEPT OF MINERALS

Mr. Richard L. Reyburn, Director
State of Nevada, Department of Minerals
400 West King St.
Carson City NV 89710

SODA LAKE GEOTHERMAL UNIT

Dear Mr. Reyburn:

Chevron Resources Company, agent for Western States Geothermal Company and Chevron U.S.A. Inc. (Unit Operator) is pleased to announce the completion of construction and start of operations of the 3.6 MW (gross) binary power plant at the Soda Lake Geothermal Unit in Churchill County. Ormat Systems Inc. of Sparks, NV is the power plant operator and Chevron is the operator of the geothermal production and injection facilities.

Enclosed for your review and files are monthly production and injection reports for December, January and February. Operations in December were minimal as we were in the midst of testing and start-up operations. Should you have any questions regarding these reports please feel free to contact me at (415) 842-5322. Additional copies are enclosed for your inter-department distribution.

Thank you for your time and consideration regarding this matter.

Respectfully,

Mark Kehoe

cc. V. Maynard, Chevron, Desert Peak
M. Morrison, Ormat Systems, Sparks

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Company Western States Geothermal Co. Address P.O. Box 5049 San Ramon Ca. 94583-0949
 Lease T-C 587110 County Churchill Month of Feb, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec.	Twp.	Rge.	Production Sales	Gallons Per Mo/Consumed	Avg. Temp	Production Sales	Gallons Per Mo	Avg. Temp
84-33		33	T 20N	R.28E				1,304.28 MW	33,278,000	366°
					*Note [Total production w/no consumption]					

TOTALS

Method of determining production: _____

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

Name D.G. Santti *D.G. Santti*
 Telephone 415-842-25306
 Date 28 Mar 88

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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 5049, San Ramon Ca. 94583-0949
 Lease T-C 587110 County Churchill Month of January, 1988

LOCATION					COMMERCIAL CLASS			INDUSTRIAL CLASS		
Well No.	Permit No.	Sec.	Twp.	Rge.	Production Sales	Gallons Per Mo/Consumed	Avg. Temp	Production Sales	Gallons Per Mo	Avg. Temp
84-33		33	T 20N	R28E				1,276 MW	32,422,831	364°
							* Note [Total production w/no consumption]			

TOTALS

Method of determining production: _____

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

Name D.G. Santti

Telephone 415-842-25306

Date 28 Mar 88