

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 NEVADA OPERATIONS, INC. Month of DECEMBER 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	1,173,800	36,387,100	176	21	
EMPIRE	35-21	0	0	-	0	
EMPIRE	42-21	2,029, 00	62,900,100	179	28	
EMPIRE	45-21	37,200	1,152,600	78	X<20	

Remarks: 45-21 wellhead pressure estimated based on flow rate and historical data. Wellhead instrumentation will be completed in January 1993.

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

Signature *Paul M. Allard*

Position *Vice President*

Date *1-28-93*

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of NOVEMBER 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	974,800	27,292,100	170	25	
EMPIRE	35-21	32,000	959,500	81	11	
EMPIRE	42-21	2,004,100	54,110,700	177	28	
EMPIRE	45-21	32,000	959,500	81	25	

Remarks:

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 DECEMBER 9, 1992

State of Nevada
DEPARTMENT OF MINERALS

400 W. King Street, Suite 106
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of OCTOBER 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	1,079,300	33,457,500	174	24	
EMPIRE	35-21	32,200	998,000	88	11	
EMPIRE	42-21	2,165,700	67,138,100	179	31	
EMPIRE	45-21	32,200	998,000	88	21	

Remarks:

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 NOVEMBER 5, 1992

State of Nevada
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400 W. King Street, Suite 106
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of SEPTEMBER 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	1,057,700	31,730,000	173	24	
EMPIRE	35-21	33,400	501,000	91	10	
EMPIRE	42-21	2,172,900	65,186,700	178	32	
EMPIRE	45-21	50,100	1,503,000	91	28	

Remarks: Cooling pond blowdown flow was diverted from 100% injection into well #45-21 to a 50% split between wells #45-21 and #35-21. These figures are calculated using a totalizing flow meter of pond blowdown leaving the plant.

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 OCTOBER 8, 1992

State of Nevada
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400 W. King Street, Suite 106
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of AUGUST 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	1,000,000	31,000,300	174	24	
EMPIRE	35-21	0	0	-	0	
EMPIRE	42-21	2,165,300	67,123,200	179	33	
EMPIRE	45-21	65,200	2,020,000	95	40	

Remarks:

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 PLANT SUPERINTENDENT

Date SEPTEMBER 16, 1992

State of Nevada
DEPARTMENT OF MINERALS

400 W. King Street, Suite 106
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(702) 885-5050

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of JULY 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	971,000	30,099,600	174	23	
EMPIRE	35-21	0	0	-	0	
EMPIRE	42-21	2,206,600	68,404,100	180	34	
EMPIRE	45-21	54,800	1,700,000	95	32	

Remarks:

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

Signature *Mark C. Man*

Position PLANT SUPERINTENDENT

Date SEPTEMBER 2, 1992

State of Nevada
DEPARTMENT OF MINERALS

400 W. King Street, Suite 106
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of JUNE 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

		Geothermal Fluids Injected				
Field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Average Temp.	Injection Pressure	Reservoir Depth & Formation
EMPIRE	32-21	0	0	-	0	
EMPIRE	32A-21	898,800	20,875,700	177	24	
EMPIRE	35-21	377,200	1,509,000	179	30	
EMPIRE	42-21	2,168,800	52,050,600	182	34	
EMPIRE	45-21	45,500	1,093,300	92	27	

Remarks:

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

Signature *Mark E. Hannon*

Position PLANT SUPERINTENDENT

Date JULY 31, 1992

State of Nevada
DEPARTMENT OF MINERALS

400 W. King Street, Suite 106
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(702) 885-5050

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of MAY 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

Geothermal Fluids Injected

field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Injection Pressure	Reservoir formation	Reservoir depth
EMPIRE	32-21	0	0	0		
EMPIRE	32A-21	967,700	28,062,300	24		
EMPIRE	35-21	0	0	0		
EMPIRE	42-21	2,104,300	61,024,500	33		
EMPIRE	45-21	65,200	1,891,000	28		

Remarks:

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 PLANT SUPERINTENDENT

Date JULY 1, 1992

State of Nevada
DEPARTMENT OF MINERALS

400 W. King Street, Suite 106
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of APRIL 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

Geothermal Fluids Injected

field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Injection Pressure	Reservoir formation	Reservoir depth
EMPIRE	32-21	0	0	0		
EMPIRE	32A-21	1,094,400	32,832,000	26		
EMPIRE	35-21	0	0	0		
EMPIRE	42-21	2,152,800	64,584,000	32		
EMPIRE	45-21	62,400	1,873,000	21		

Remarks:

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

Signature *Matt C. Man*

Position PLANT SUPERINTENDENT

Date JUNE 6, 1992

State of Nevada
DEPARTMENT OF MINERALS

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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of MARCH 19 92

Address P.O. BOX 1650 FALLON, NEVADA 89407

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

Geothermal Fluids Injected

field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Injection Pressure	Reservoir formation	Reservoir depth
EMPIRE	32-21	0	0	0		
EMPIRE	32A-21	1,081,500	33,525,100	26		
EMPIRE	35-21	0	0	0		
EMPIRE	42-21	2,151,200	66,687,400	32		
EMPIRE	45-21	42,100	1,307,000	11		

Remarks:

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 PLANT SUPERINTENDENT

Date APRIL 15, 1992

State of Nevada
DEPARTMENT OF MINERALS

400 W. King Street, Suite 106
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REPORT OF GEOTHERMAL SUBSURFACE INJECTIONS

Producer NEVADA OPERATIONS, INC. Month of FEBRUARY 19 92
Address P.O. BOX 1650 FALLON, NEVADA 89407

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

Geothermal Fluids Injected

field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Injection Pressure	Reservoir formation	Reservoir depth
EMPIRE	32-21	0	0	0		
EMPIRE	32A-21	1,079,700	31,311,000	25		
EMPIRE	35-21	0	0	0		
EMPIRE	42-21	2,159,300	62,622,000	32		
EMPIRE	45-21	40,400	1,172,000	6		

Remarks:

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

Signature *Paul E. Miller*

Position PLANT SUPERINTENDENT

Date MARCH 17, 1992

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 NEVADA OPERATIONS, INC. Month of JANUARY 19 92

Address P.O. BOX 1650 FALLON, NV. 89407


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

Geothermal Fluids Injected

field and Lease Name	Well #	Gallons Per Day	Gallons Per Month	Injection Pressure	Reservoir formation	Reservoir depth
EMPIRE	32-21	0	0	0		
EMPIRE	32A-21	1,036,500	32,132,200	27		
EMPIRE	35-21	0	0	0		
EMPIRE	42-21	2,159,419	66,942,000	31		
EMPIRE	45-21	39,700	1,230,500	7		

Remarks:

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 ACTING PLANT SUPERINTENDENT

Date FEBRUARY 7, 1992