DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957



JAN 0 4 2002

COMMERCIAL AND INDUSTRIAL CLASS Division of Minerals GEOTHERMAL SUBSURFACE INJECTION MONTHLY REPORT

Company Empire Energy, LLC	C Address P.O. Box 40, Empire, NV 89405								
Plant/Project Empire		_ County_ Washo	oeMonth o	of <u>Decer</u>	mber, 2001				
Show each injection well separately	7. File not later	than the last day of	of the month for th	e preceding m	onth.				
		GEOTHERMAL F	LUIDS INJECTED	Average Temp.	Injection Pressure	Reservoir depth & formation			
Field and lease name	Well No.	Gallons per day	Gallons per month						
Empire KGRA	45-21	0	0						
Empire KGRA	42-21	1,496,160	46,380,960	208°F	24 psi				
Empire KGRA	43-21	1,704,960	52,853,760	208°F	7 psi				
Empire KGRA	35-21	0	0						
Empire KGRA	51-16	1,167,840	36,203,040	217°F	42 psi	surface dis charge			
Empire KGRA	53-21	1,951,200	60,487,200	208°F	2.0 psi				
This report to be filed by the end I hereby certify that the informa		J	*		knowledge.				
		Signatur	·е <u>Дды</u> и	M. fast	<u> </u>				
		Position	Environment	al Coordinator		, valv			
		Date	1/2/02						
					(REV 9/13/96 LV			

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400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957 ORIGINAL - Div. File DUPLICATE - Div. NBMG TRIPLICATE CAPPORTS

DEC 0 5 2001

COMMERCIAL AND INDUSTRIAL CLASS Division of Minerals GEOTHERMAL SUBSURFACE INJECTION MONTHLY REPORT

rlant/Project Empire how each injection well separately. File in the separately injection well separately. File in the separately injection well separately. File in the separately injection well separately.						
				e preceding mo	onth.	
Field and lease name We	II No	GEOTHERMAL F	Hine integree			
Field and lease name We	II No		LOIDS INJECTED	Average Temp.	Injection Pressure	Reservoir depth & formation
	Well No.	Gallons per day	Gallons per month			
Empire KGRA 45	5-21	0	0			
Empire KGRA 42	2-21	1,490,400	43,221,600	211°F	25 psi	
Empire KGRA 43	3-21	1,730,880	50,195,520	211°F	7 psi	
Empire KGRA 35	5-21	0	0			
Empire KGRA 51	1-16	1,824,480	52,909,920	212°F	54 psi	surface dis charge
Empire KGRA 53	3-21	1,913,760	55,499,040	211°F	2.0 psi	
This report to be filed by the end of the in I hereby certify that the information gives		<u>U</u>	ct and complete to e Mucifi		knowledge.	
		Date	12/3/01	POWALL		REV 9/13/96 LV

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DUPLICATE - Div. NBMG
TRIPLICATE - Company File

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Div. of Minerals

mpany Empire Energy, LLC	LC Address P.O. Box 40, Empire, NV 89405						
nt/ProjectEmpire		_ County_ Washoo	e Month of	f Octob	er, 2001		
ow each injection well separately	. File not later	than the last day o	f the month for the	e preceding mo	onth.		
Field and lease name		GEOTHERMAL FLUIDS INJECTED				Reservoir	
	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	depth & formation	
Empire KGRA	45-21	0	0 .				
Empire KGRA	42-21	1,709,280	46,150,560	207°F	24 psi		
Empire KGRA	43-21	1,823,040	54,691,200	205°F	6 psi		
Empire KGRA	35-21	0	0				
Empire KGRA	51-16	1,607,040	49,818,240	208°F	50 psi	surface dis	
Empire KGRA	53-21	2,160,000	66,960,000	204°F	2.0 psi		
nis report to be filed by the end I hereby certify that the inform					y knowledge.		
Thereby congy man one agent	6	Signatu	Paris	M./54			
		Positio	n Environmen	tal Coordinato	<u> </u>		
		Date	11/12/01			(REV 9/13/96	

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OCT 10 2001

GEOT Galle G1,90	c last day o CHERMAL FI ons per day 0 09,440	Month of the month for t LUIDS INJECTED Gallons per month 0 57,283,200		Injection Pressure	Reservoir depth & formation
(o. Gallo	ons per day 0	Gallons per month	Temp.	Pressure	depth &
1,90	0 0 09,440	month 0	Temp.	Pressure	depth &
1,90	09,440		208°F	22	
ĺ	-	57,283,200	208°F	22 ani	
1,80				23 psi	
	02,880	54,086,400	208°F	7 psi	
	0	0			
1,32	23,360	39,700,800	205°F	47 psi	surface dis charge
2,16	60,000	64,800,000	208°F	2.0 psi	
		-		knowledge.	
	Signature	Mugh		····· -	
	Position_	Environmen	al Coordinator	····	
	Date	10/5/01			
		herewith is true, correct Signature Position	Signature Sund complete to Position Environment	Signature Sugal Section Environmental Coordinator	Signature August Coordinator

DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957

Company

Empire Energy, LLC

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SEP 1 0 2001

Company Empire Energy, LLC	Address P.O. Box 40, Empire, NV 89405							
Plant/Project Empire		_ County_Washo	oe Month o	of <u>Augu</u>	st, 2001	NIIFE-IV		
Show each injection well separately	. File not later	than the last day of	of the month for th	ne preceding me	onth.			
		GEOTHERMAL FLUIDS INJECTED						
Field and lease name	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation		
Empire KGRA	45-21	0	0					
Empire KGRA	42-21	1,634,400	50,666,400	201°F	26 psi			
Empire KGRA	43-21	1,784,160	46,388,160	206°F	7 psi			
Empire KGRA	35-21	0	0					
Empire KGRA	51-16	1,251,360	38,792,160	206°F	40 psi	surface dis charge		
Empire KGRA	53-21	2,072,160	64,236,960	201°F	2.0 psi			
This report to be filed by the end I hereby certify that the informa			-		Image Indo			
t not only out says than the algorithm	mon given here	Signatur	1) 10	ine best of my AME	Knowleage.			
		Position	Environmenta	al Coordinator				
		Date	9/6/01					
		- 5,000			(REV 9/13/96 LV		

DIVISION OF MINERALS

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REALS

AUG 0 8 200 TRIPLICATE - Company File

400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957

Div. of Minerals

Address P.O. Box 40, Empire, NV 89405							
	_ County_ Washo	eMonth o	fJuly,_	2001			
. File not later	than the last day o	of the month for th	e preceding mo	onth.			
	GEOTHERMAL FLUIDS INJECTED						
Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation		
45-21	0	0					
42-21	1,746,720	54,148,320	208°F	20 psi			
43-21	1,542,240	47,809,440	208°F	8 psi			
35-21	0	0					
51-16	1,080,000	22,680,000	216°F	45 psi	surface dis charge		
53-21	2,053,440	63,656,640	208°F	2.0 psi			
	with is true, corre	ect and complete to		knowledge.			
	· ·						
	Position	<u>Environment</u>	al Coordinator				
	Date	8/3/01			(REV 9/13/96 LV		
					CARMIT VIAMINUS ELT		
	Well No. 45-21 42-21 43-21 35-21 51-16 53-21 of the month f	Well No. GEOTHERMAL F Well No. Gallons per day 45-21 0 42-21 1,746,720 43-21 1,542,240 35-21 0 51-16 1,080,000 53-21 2,053,440 Of the month following the monation given herewith is true, correspond to the solution of the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the monation given herewith is true, correspond to the month following the month following the monation given herewith is true, correspond to the month following t	County Washoe Month of the country County Washoe Month of the country Co	County Washoe Month of July,	County Washoe Month of July, 2001		

RECEIVED **DIVISION OF MINERALS**

JUL 0 6 2001

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400 W. King Street, Suite 106 Carson City, Nevada 89710

(702) 687-5050 • Fax (702) 687-3957 Div. Of Minorals

Company Empire Energy, LLC			_ AddressP.O	Box 40, Emp	ire, NV 89405	
Plant/Project Empire		_ County_ Wash	oe Month o	of <u>June</u> ,	2001	
Show each injection well separately.	File not later	than the last day of	of the month for th	e preceding m	onth.	
		GEOTHERMAL FLUIDS INJECTED				
Field and lease name	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation
Empire KGRA	45-21	0	0			
Empire KGRA	42-21	1,552,320	46,569,600	207°F	31 psi	
Empire KGRA	43-21	1,712,160	51,364,800	207°F	7 psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16	757,440	22,723,200	218°F	47 psi	surface dis charge
Empire KGRA	53-21	1,771,200	53,136,000	207°F	2.0 psi	
This report to be filed by the end o I hereby certify that the informat			-			
Thoroby certify that the informati	ion given nerei	viin is true, correc	ci ana complete to	the best of my	knowledge.	
		Signatur	e <u> Diu</u>	Milas	#/ 	
		Position	Environmenta	l Coordinator		
		Date	7/2/01			
					()	REV 9/13/96 LV)

DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957 ORIGINAL - Div. File
DEPLICATE - Div. NBMG
TRIPLICATE - Company File

JUN 0 8 2001

Div. of Minerals

Field and lease name	1		GEOTHERMAL FLUIDS INJECTED			
	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation
Empire KGRA	45-21	0	0			
Empire KGRA	42-21	1,674,720	51,916,320	207°F	26 psi	
Empire KGRA	43-21	1,637,280	50,755,680	207°F	6 psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16	341,280	4,436,640	219°F	42 psi	surface dis charge
Empire KGRA	53-21	1,992,960	61,781,760	207°F	2.0 psi	
This report to be filed by the end I hereby certify that the inform		with is true, corre	ct and complete to		knowledge.	
		Signatur	e_////////	Willet	Zaronene e e e e e e e e e e e e e e e e e	
		Position	Environment	al Coordinator		4-VIIII-AW11.1.
		Date	6/4/01	* * ***		(REV 9/13/96 LV

DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957 ORIGINAL - Div. File DUPLICATE - Div. NBMG TRIPLICATE - Company File

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MAY 0 4 2001

ompany Empire Energy, LLC	Address P.O. Box 40, Empire, NV 89405							
ant/Project Empire		_ County_ Washo	oeMonth o	f April	, 2001			
ow each injection well separatel	y. File not later	than the last day	of the month for th	e preceding m	onth.			
		GEOTHERMAL FLUIDS INJECTED						
Field and lease name	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation		
Empire KGRA	45-21	0	0					
Empire KGRA	42-21	1,847,520	55,425,600	210°F	27 psi			
Empire KGRA	43-21	1,612,800	48,384,000	210°F	7 psi			
Empire KGRA	35-21	0	0					
Empire KGRA	51-16	161,280	4,838,400	166°F	5 psi	surface dis charge		
Empire KGRA	53-21	2,160,000	64,800,000	210°F	2.0 psi			
is report to be filed by the end			_					
I hereby certify that the inform	ation given herev	with is true, corre	ct and complete to	the best of my	knowledge.			
		Signatur	e_ <i>{Qnu</i> _	Mefit	· · · · · · · · · · · · · · · · · · ·			
		Position	Environmenta	d Coordinator		·		
		Date	5/1/01					
			-		(REV 9/13/96 LY		

ORIGINAL - Div. File DUPLICATE - Div. NBMG TRIPLICATE - Company File

DIVISION OF MINERALS APR 0 5 2001

400 W. King Street, Suite 106

Carson City, Nevada 89710 Div. of Minerals (702) 687-5050 • Fax (702) 687-3957

Company Empire Energy, LLC	Address P.O. Box 40, Empire, NV 89405							
Plant/Project Empire		_ County_Washo	oeMonth o	f Marc	<u>h, 2001</u>			
Show each injection well separately.	File not later	than the last day o	of the month for th	e preceding m	onth.			
	Well No.	GEOTHERMAL FLUIDS INJECTED				Dogover		
Field and lease name		Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation		
Empire KGRA	45-21	0	0					
Empire KGRA	42-21	1,388,160	43,032,960	206°F	19 psi			
Empire KGRA	43-21	1,501,920	46,559,520	206°F	6 psi			
Empire KGRA	35-21	0	0					
Empire KGRA	51-16	1,062,720	32,944,320	212°F	22 psi	surface dis charge		
Empire KGRA	53-21	2,160,000	66,960,000	206°F	2.0 psi			
This report to be filed by the end o I hereby certify that the informat		with is true, correct	ct and complete to	the best of my	knowledge.			
* ***		Position	Environment	al Coordinator		- Full Mindle		
		Date	4/3/01			DYNY AMAINS TO		
					(REV 9/13/96 LV)		

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MAR 12 2001

Plant/Project Empire	n	County Washe	oeMonth o	f Febru	ary, 2001	
Show each injection well separately.	File not later	than the last day of	of the month for th	e preceding me	onth.	
	Well No.	GEOTHERMAL FLUIDS INJECTED				D
Field and lease name		Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation
Empire KGRA	45-21	0	0			
Empire KGRA	42-21	1,526,400	42,739,200	210°F	23 psi	
Empire KGRA	43-21	1,782,720	49,916,160	202°F	6 psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16	1,690,560	47,335,680	219°F	37 psi	surface dis charge
Empire KGRA	53-21	2,122,560	59,431,680	206°F	2.0 psi	
This report to be filed by the end of the line of the		_	•		knowledge.	
		Signatur	е Рми	M.K.		
and the second s		Position	Environmenta	al Coordinator		
		Date	3/9/01			

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400 W. King Street, Suite 106 Carson City, Nevada 89710 (702) 687-5050 • Fax (702) 687-3957

FEB 1 5 2001

Company Empire Energy, LLC Address P.O. Box 40, Empire, NV 89405						
Plant/Project Empire		_ CountyWasho	Month o	f Janua	ry, 2001	
Show each injection well separately.	File not later	than the last day of	of the month for th	e preceding m	onth.	
	Well No.	GEOTHERMAL FLUIDS INJECTED				
Field and lease name		Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoir depth & formation
Empire KGRA	45-21	0	0			
Empire KGRA	42-21	2,353,680	72,964,080	205.3°F	25.9 psi	
Empire KGRA	43-21	1,851,696	57,402,576	205.8°F	5.6 psi	
Empire KGRA	35-21	0	0			***************************************
Empire KGRA	51-16	1,963,584	60,871,104	219.1°F	40.4 psi	surface dis charge
Empire KGRA	53-21	2,160,000	6,696,000	205.8°F	2.0 psi	
This report to be filed by the end o I hereby certify that the informat			_		knowledge.	
		Signatur	e	M. fix	hylamine	
		Position	Environmenta	al Coordinator		
		Date	2/13/01			
					0	REV 9/13/96 LV)