**DIVISION OF MINERALS** 

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RECEIVED

JAN 0 6 2004

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

		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	0	0	°F	psi	į
Empire KGRA	43-21	0	0	°F	psi	
Empire KGRA	35-21	0	0		<u> </u>	1
Empire KGRA	51-16 surface discharge	1,323,360	41,024,160	209°F	49psi	***************************************
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	5,124,960	158,873,760	206°F	39 psi	
report to be filed by the end I hereby certify that the inform		-	and complete to the	best of my kno	_	underlanden (September 1981)

RECEIVED

JAN 0 6 2004

Division of Minerals

January 5, 2004

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for December, 2003

Dear Linda,

Enclosed is the December 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003394.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of December are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



### **DIVISION OF MINERALS**

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RECEIVED

DEC 0 5 2003

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

Company Empire Energy, LLC	,	Address	s P.O. Box 40, Er	npire, NV 8940	)5	
Plant/Project Empire	44-4-1	_County_Washo	eMonth of	Nove	mber, 2003	
Show each injection well separately.	File not later than	n the last day of the	month for the prece	eding month.		
		GEOTHERMAL F	LUIDS 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	0	0	°F	psi	
Empire KGRA	43-21	0	0	۰F	psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	1,342,080	37,578,240	193°F	39psi	
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	4,442,400	124,387,200	205°F	48 psi	111111111111111111111111111111111111111
This report to be filed by the end of			~	best of my kno	wledae	
Thereby certify that the informe	and given nerem	err is ir no, corroot	was complete to the	Jose of my wife	mouge.	
		Signatur	re Maa	WIS	and the same and t	
		Position	Environmental	Coordinator	····	
		Date	12/4/03			
						(REV 9/13/96 LV)

RECEIVED

DEC 0 5 2003

Division of Minerals

December 4, 2003

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for November, 2003

Dear Linda,

Enclosed is the November 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

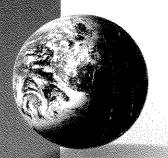
The flow rates for 76-16 and the flow rates to the surface discharges for the month of November are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



#### **DIVISION OF MINERALS**

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T

NOV 1 3 2003

Division of Minerals

		GEOTHERMAL I	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	0	0	°F	psi	
Empire KGRA	43-21	0	0	°F	psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	1,173,600	30,513,600	209°F	47psi	TO THE PARTY OF TH
Empire KGRA	53-21	0	0	۰F	psi	
Empire KGRA	180 day surface discharge	5,012,640	130,328,640	209°F	42 psi	- Antonio de Produces de Produ
s report to be filed by the end  I hereby certify that the inform		J	-	best of my kno	wledge.	
		Signatu	re <i>OMO 1</i>	M. Pall	and the second s	
		Position	Environmental	C4 1" .		



NOV 1 3 2003

Division of Minerals

November 10, 2003

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for October, 2003

Dear Linda,

Enclosed is the October 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of October are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

Please let me know if we can provide additional information.

, and the first that the configuration of the contraction of the contr

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



### **DIVISION OF MINERALS**

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OCT 1 4 2003

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

		GEOTHERMAL F	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	0	0	°F	psi	
Empire KGRA	43-21	0	0	°F	psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	1,072,800	32,184,000	213°F	48psi	
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	5,355,360	160,660,800	212°F	35 psi	To the second se
is report to be filed by the end  I hereby certify that the inform		ith is true, correct Signatus	and complete to the	Mifte		
		Position	Environmental	Coordinator		
		Date	10/9/03			(REV 9/13/96



SEP 1 0 2003

## STATE OF NEVADA DEPARTMENT OF BUSINESS AND INDUSTRY

#### **DIVISION OF MINERALS**

400 W. King Street, Suite 106 Carson City, Nevada 89710 (775) 687-5050 • Fax (775) 687-3957 Division of Minerals

## COMMERCIAL AND INDUSTRIAL CLASS GEOTHERMAL ELECTRIC PRODUCERS MONTHLY REPORT

Company Empire Energy, LLC

Address P.O. Box 40, Empire, NV 89405

Plant/Project

Empire

County Washoe Month of August, 2003

#### PLANT OUTPUT

Well No.	Permit No.	KWH Produced	KWH to Sales	Gallons Produced	Average Temp
52-21	136	: -		0	
65C-16	360			0	
75B-16	403			96,913,440	293.2°F
75-16	312				
76-16	418			111,600,000	288.9°F
		2,252,388	1,734,400		
!					
0					

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

I hereby certify that the information given herewith is true,	correct and complete to the best of my knowledge.  Signature
	Print name Donna M. Potter
	Telephone (775) 557-2015
	Date 9/8/03

(REV 9/13/96 LV)

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SEP 1 0 2003

Division of Minerals

September 8, 2003

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for August 2003

Dear Linda,

Enclosed is the August 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of August are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



#### **DIVISION OF MINERALS**

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DUPLICATE - Div. NBMG
TRIPLICATE - Compare (F

AUG 1 3 2003

Division of Minerals

		GEOTHERMAL F	LUIDS INJECTED			
Field and lease name	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoi depth & formatio
Empire KGRA	45-21	0	0			
Empire KGRA	42-21	0	0	°F	psi	
Empire KGRA	43-21	0	0	°F	psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	1,375,200	42,631,200	228°F	65psi	
Empire KGRA	53-21	0	0	۰F	psi	
Empire KGRA	180 day surface discharge	4,638,240	126,878,400	217°F	37 psi	**************************************
is report to be filed by the end  I hereby certify that the inform			and complete to the	best of my kno	4-	
		Position	<u>Environmental</u>	Coordinator		***************************************

RECEIVED

AUG 1 8 2003

Division of Minerals

August 11, 2003

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for July 2003

Dear Linda,

Enclosed is the July 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of July are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



**DIVISION OF MINERALS** 

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JUL 1 0 2003

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

		GEOTHERMAL I	LUIDS 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	0	0	°F	psi	
Empire KGRA	43-21	0	0	٥F	psi	
Empire KGRA	35-21	0	0		****	
Empire KGRA	51-16 surface discharge	1,251,360	37,540,800	230°F	69psi	
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	4,229,280	126,878,400	209°F	28 psi	
is report to be filed by the end of I hereby certify that the informa			and complete to the	M. P.S		

RECEIVED
JUL 1 0 2003

July 9, 2003

Division of Minerals

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for June 2003

Dear Linda,

Enclosed is the June 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of June are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

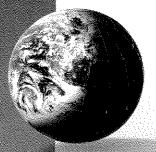
Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 





#### **DIVISION OF MINERALS**

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



JUN 1 3 2003

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

		GEOTHERMAL FLUIDS INJECTED				
Field and lease name	Well No.	Gallons per day	Gallons per month	Average Temp.	Injection Pressure	Reservoi depth & formation
Empire KGRA	45-21	0	0			
Empire KGRA	42-21	2,880,000	3,456,000	214°F	22 psi	
Empire KGRA	43-21	1,490,400	17,884,800	214°F	26psi	Terrent vertical de la constant de l
Empire KGRA	35-21	0	0			tan a marana
Empire KGRA	51-16 surface discharge	0	0	°F	psi	
Empire KGRA	53-21	2,160,000	25,920,000	214°F	10 psi	
Empire KGRA	180 day surface discharge	6,530,400	124,077,600	201°F	45 psi	
s report to be filed by the end of  I hereby certify that the informat			-	best of my kno	wledge.	
•			-	best of my kno	wledge.	

June 11, 2003

RECEIVED
JUN 1 3 2003

**Division of Minerals** 

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for May 2003

Dear Linda,

Enclosed is the May 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of May are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters.

On April 30, Empire Energy began re-injecting geothermal fluid until repair work to the cooling sprayers associated with the 180 day surface discharge could be completed. The work was completed on May 12, 2003 and we resumed the surface discharge May 13, 2003.

Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



#### **DIVISION OF MINERALS**

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TRIPLICATE - Company File

MAY 0 9 2003

Division of Minerals

		GEOTHERMAL I	LUIDS 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	0	0	°F	psi	
Empire KGRA	43-21	0	0	oF.	psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	430,560	12,486,240	235°F	53 psi	
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	3,186,720	95,601,600	201°F	45 psi	- Anna Anna Anna Anna Anna Anna Anna Ann
s report to be filed by the end of I hereby certify that the informa			and complete to the re	Max	wledge.	

RECEIVED

MAY 0 9 2003

Division of Minerals

May 7, 2003

Ms. Linda Wells Nevada Division of Minerals 400 W. King Street, Suite 106 Carson City, Nevada 89710

RE: Monthly Geothermal Production & Injection Report for April 2003

Dear Linda,

Enclosed is the April 2003 monthly report for the Empire Energy, LLC - Empire geothermal power plant. We are currently surface discharging from injection well 51-16 under NDEP Permit NEV-94003 and we have diverted from all other injection wells to the surface for the 180 day surface discharge of all geothermal water under NDEP permit TNEV-2003319.

The flow rates for 76-16 and the flow rates to the surface discharges for the month of April are estimated due to instrument failure. We believe the newly installed Central Station Control wiring is having signal/communication problems with the flow meters. Our next shut down to repair the wiring is scheduled for next week.

On April 30, Empire Energy began re-injecting geothermal fluid until repair work to the cooling sprayers associated with the 180 day surface discharge could be completed. We expect to resume the surface discharge by next week.

Please let me know if we can provide additional information.

Sincerely,

Donna M. Potter

**Environmental Coordinator** 



#### **DIVISION OF MINERALS**

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APR 07 2003

Division of Minerals

Field and lease name  Well No.  Gallons per day  Gallons per month  Average Temp.  Injection Pressure  Empire KGRA  45-21  0  0  °F  psi  Empire KGRA  43-21  0  0  °F  psi  Empire KGRA  35-21  0  0  360,000  11,160,000  230°F  30 psi  Empire KGRA  51-16  surface discharge  Empire KGRA  53-21  0  0  °F  psi  Empire KGRA  180 day  surface discharge  Gallons per month  Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Average  Temp.  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection  Pressure  Injection Pressure  Injection  Injection I			GEOTI	GEOTHERMAL FLUIDS INJECTED		***************************************		
Empire KGRA 42-21 0 0 0 °F psi Empire KGRA 43-21 0 0 0 °F psi Empire KGRA 35-21 0 0 0 Empire KGRA 51-16 360,000 11,160,000 230°F 30 psi Surface discharge Empire KGRA 53-21 0 0 0 °F psi Empire KGRA 53-21 0 0 0 0 °F psi Empire KGRA 180 day 2,910,936 90,239,040 205°F 48 psi  This report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Field and lease	name Well		- 1				Reservoir depth & formation
Empire KGRA 43-21 0 0 0 °F psi Empire KGRA 35-21 0 0 0 Empire KGRA 51-16 360,000 11,160,000 230°F 30 psi Empire KGRA 53-21 0 0 °F psi Empire KGRA 53-21 0 0 0 °F psi Empire KGRA 180 day 2,910,936 90,239,040 205°F 48 psi Chis report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGF	A 45-	21		0			
Empire KGRA  Empire KGRA  Empire KGRA  S1-16 Surface discharge  Empire KGRA  S35-21  O  O  11,160,000  230°F  30 psi  Empire KGRA  S3-21  O  O  °F  psi  Empire KGRA  180 day surface discharge  his report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGF	A 42-	21 (		0	۴	psi	ļ
Empire KGRA  51-16 surface discharge  Empire KGRA  53-21  0  0  °F  psi  Empire KGRA  180 day surface discharge  his report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGR	A 43-	21 (		0	°F	psi	
Empire KGRA 53-21 0 0 °F psi Empire KGRA 180 day 2,910,936 90,239,040 205°F 48 psi his report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGF	A 35-	21		0			
Empire KGRA  180 day surface discharge  2,910,936  90,239,040  205°F  48 psi  his report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGR	surf	ace	,000 1	1,160,000	230°F	30 psi	
surface discharge  his report to be filed by the end of the month following the month herein reported.  I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGF	LA. 53-	21		0	°F	psi	
I hereby certify that the information given herewith is true, correct and complete to the best of my knowledge.	Empire KGR	surf	ace	),936 9	0,239,040	205°F	48 psi	
Position Environmental Coordinator	-		_	correct and co	omplete to the	W. KA	wledge.	

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

#### **DIVISION OF MINERALS**

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

MAR 1 3 2003

		GEOTHERMAL I	LUIDS INJECTED			T
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	0	0	°F	psi	
Empire KGRA	43-21	0	0	٥F	psi	
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	432,000	12,096,000	253°F	45 psi	
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	5,617,440	106,600,320	202°F	53 psi	
report to be filed by the end o			herein reported.  and complete to the	best of my kno	wledge.	

### **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 Files

FEB 1 0 2003

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

Empire Energy, LLC

Company\_\_

Company Empire Energy, LLC  Plant/Project Empire		_ County_ Wash	P.O. Box 40,	of Janua		
Show each injection well separatel	y. File not later					
		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	0	0	°F	psi	
Empire KGRA	43-21	0	0	°F	psi	***************************************
Empire KGRA	35-21	0	0			
Empire KGRA	51-16 surface discharge	576,000	17,856,000	241°F	78 psi	
Empire KGRA	53-21	0	0	°F	psi	
Empire KGRA	180 day surface discharge	5,392,800	167,176,800	210°F	42 psi	
This report to be filed by the end	of the month fo	llowing the mont	h herein reported			
I hereby certify that the inform	ation given herev	vith is true, correc	ct and complete to t	the best of my l	knowledge.	
		Signatur	·e	u M. fike	aggradu Commission	
		Position	Environmenta	al Coordinator		
		Date	2/7/03			
		***************************************			(	REV 9/13/96 LV