

DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

Geothermal Resources Well Summary Report

SUBMIT IN DUPLICATE

CONFIDENTIAL

Operator Thermogenics, Inc. Well No. K1A

Sec. 1, T. 10N, R. 8W, M.D.B. & M. The Klau Mines Field Lake County.

Location 2350±' W and 1770±' N of SE Corner of Section 1, T10N, R8W, M.D.B.&M.
(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 2640' meters

All depth measurements taken from top of Kelly Bushing 23±' which is 23±' meters above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3735, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date July 5, 1978

Signed Louis E. Capuano, Jr.
(President, Secretary or Agent)

Ken Steed

Title Drilling Engineer/Agent

(Engineer or Geologist)

(Superintendent)

(President, Secretary or Agent)

Commenced drilling <u>January 20, 1978</u>	GEOLOGICAL MARKERS	DEPTH
Completed drilling <u>May 12, 1978</u>		
Total depth <u>9275'</u> Plugged depth <u>Left open</u>		
Junk <u>Bit and stabilizers at 5767'</u>		
Commenced producing _____ <small>(Date)</small>	Geologic age at total depth: _____	

Date	Static test Shut-in well head		Production Test Data										
	Temp. °C	Pres. bars	Total Mass Flow Data					Separator Data					
			Kg/Hr	Temp. °C	Pres. bars	Enthalpy	Orifice	Water Kg/Hr	Steam Kg/Hr	Pres. bars	Temp. °C		

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforation
20"	347'	SURF	94	New	Smls	H-40	26	375	
13 3/8	2952'	SURF	54.5	New	Smls	K-55	17 1/2	1961	
9 5/8	4180'	2704'	40	New	Smls	N-80	12 1/4	501	

PERFORATED CASING

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Was analysis of effluent made? No Electrical log depths See Attachment Temperature log depths See Attachment

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CONFIDENTIAL

Operator Thermogenics, Inc. Well No. K1A

Sec. 1, T. 10N, R. 8W, M.D.B. & M. The Klau Mines Field Lake County.

Location 716.28±M± W and 539.5M± N of the SE Corner of Section 1, T10N, R8W, M.D.B.&M.
(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 804.67± meters

All depth measurements taken from top of Kelly Bushing which is 7 meters above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3735, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date July 5, 1978

Signed Louis E. Capuano, Jr.
 Louis E. Capuano, Jr.
 Title Drilling Engineer/Agent
(President, Secretary or Agent)

Ken Steed
(Engineer or Geologist) (Superintendent)

Commened drilling	January 20, 1978	GEOLOGICAL MARKERS	DEPTH
Completed drilling	May 12, 1978		
Total depth	2827 M		
Plugged depth	Left open		
Junk	Bit and stabilizers at 1757 M		
Commened producing	(Date)	Geologic age at total depth:	

Date	Static test Shut-in well head		Production Test Data									
	Temp. °C	Pres. bars	Total Mass Flow Data					Separator Data				
			Kg/Hr	Temp.°C	Pres. bars	Enthalpy	Orifice	Water Kg/Hr	Steam Kg/Hr	Pres. bars	Temp. °C	

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing through perforations
0.8 cm	105.76 M	Surf	139.89 kg/m	New	Smls.	H-40	66 cm	375	
3.96 cm	899.77 M	Surf	80.36 kg/m	New	Smls.	K-55	44.5 cm	1961	
4.45 cm	1275.5 M	829.06	59.53 kg/m	New	Smls.	N-80	31.9 cm	501	

PERFORATED CASING
 (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Was analysis of effluent made? No Electrical log depths See Attachment Temperature log depths See Attachment
 OGG 100 (4-74-DWRR-5C)