

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
910 State Office Building Portland, Oregon 97201

WELL SUMMARY REPORT
(Geothermal Well)

Operator C.E.Exploration Field Newberry KGRA
Well No. 88-21 TCH Sec. 21, T 21S, R 12E, _____ W.B. & M.
Location 100'W & 500'N of SE corner Sec. 21 Elevation above sea level 6269' feet

All depth measurements taken from top of ground level, which is _____ feet above ground.

In compliance with the rules and regulations pursuant to ORS 522 (Chapter 552 OL 1975) 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 _____ Signed *Barbara Baker*
Title Compliance Administrator
Engineer or Geologist _____ Superintendent _____ (President, Secretary, or Agent)

Commenced drilling 05/10/95 completed drilling 07/20/95 Drilling tools Cable Rotary

Total depth	Plugged depth	Geological Markers	Depth
<u>4876'</u>	_____	_____	_____
Junk _____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Commenced producing _____
Date _____

	Water gpm	Temp °C	Total Dissolved Solids (ppm)	Steam lb/hr	Tubing Pressure	Casing Pressure
Initial production						
Production after 30 days						

CASING RECORD (Present Hole)

Size of casing (A.P.L.)	Depth of shoe	Top of casing	Weight of casing	New or second hand	Seamless or lapweld	Grade of casing	Size of hole drilled	No. of sacks of cement	Depth of cementing if through perforations
<u>10-3/4"</u>	<u>11'</u>	<u>GL</u>	<u>32.75</u>	<u>New</u>		<u>H49</u>	<u>12 1/4"</u>	<u>to surf.</u>	
<u>7"</u>	<u>500'</u>	<u>GL</u>	<u>26#</u>	<u>New</u>	<u>Butt.</u>	<u>K55</u>	<u>9-7/8"</u>	<u>101 sks</u>	
<u>4-1/2"</u>	<u>1345'</u>	<u>GL</u>	<u>11.6</u>	<u>New</u>	<u>Butt.</u>	<u>K55</u>	<u>6-1/8"</u>	<u>347 cu.ft.</u>	
<u>3-1/2"</u>	<u>3709'</u>	<u>GL</u>				<u>HQ</u>	<u>3.895"</u>		

PERFORATIONS

Size of casing	From	To	Size of perforations	Number of rows	Distance between centers	Method of perforations
	ft	ft				
	ft	ft				
	ft	ft				
	ft	ft				
	ft	ft				