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# **Hot Dry Rock**

# **Camilla Rothe**

# **Hot Dry Rock:**

Mining the Earth's Heat: Hot Dry Rock Geothermal Energy Donald W. Brown, David V. Duchane, Grant Heiken, Vivi Thomas Hriscu, 2012-04-23 Mining the Earth's Heat Hot Dry Rock Geothermal Energy describes the work carried out by the Los Alamos National Laboratory to turn an idealistic concept that of drawing useful amounts of energy from the vast underground store of hot rock at reachable depths into a practical reality This book provides comprehensive documentation of the over two decades of experiments carried out at the test site at Fenton Hill New Mexico where the feasibility of accessing and extracting this vast natural resource was finally demonstrated It also discusses the numerous technical administrative and financial hurdles that had to be overcome along the way This publication will no doubt prove invaluable to researchers around the world as they strive to move this now proven technology toward commercial viability In addition it is a valuable source of relevant information for anyone interested in the world energy outlook for the 21st century and beyond

Hot Dry Rock Geothermal Energy Development Program Annual Report Fiscal Year ... Hot Dry Rock Program (U.S.),1981 Hot Dry Rock Geothermal Energy Hot Dry Rock Assessment Panel,1977 **Mining the Earth's Heat** ,2012 **Hot** 

**Dry Rock Geothermal Energy**, 1977 The status of knowledge of attempts to utilize hot dry rock HDR geothermal energy is summarized It contains 1 descriptions or case histories of the ERDA funded projects at Marysville MT Fenton Hill NM and Coso Hot Springs CA 2 a review of the status of existing techniques available for exploration and delineation of HDR 3 descriptions of other potential HDR sites 4 definitions of the probable types of HDR resource localities and 5 an estimate of the magnitude of the HDR resource base in the conterminous United States The scope is limited to that part of HDR resource assessment related to the determination of the extent and character of HDR with emphasis on the igneous related type It is estimated that approximately 74 Q 1 Q 1 000 Quads of heat is stored in these sites within the conterminous U S at depths less than 10 km and temperatures above 150 C the minimum for power generation Q 1018 BTU 1021 the total U S consumption for 1972 was approximately 0 07 O Approximately 6300 O are stored in the conduction dominated parts of the crust in the western U S 23% of the total surface area again at depths less than 10 km and temperatures above 150 C Nearly 10 000 Q are believed to be contained in crustal rocks underlying the entire conterminous U S at temperatures above 150 C The resource base is significantly larger for lower grade heat IGB **Hot Dry Rock**, 1993 The ubiquitous heat in hot dry rock HDR is an abundant widely distributed form of geothermal energy Until recently development of this energy source has been largely focused on understanding the scientific and engineering principles involved in forming and operating HDR reservoirs During the past year however a pilot facility at Fenton Hill NM has been run under steady state conditions simulating the operation of a commercial HDR energy plant Issues important to commercialization such as sustainability of thermal production water loss operating costs and others have been addressed to the extent possible. The results while not always definitive have been encouraging The stage is now set for the formation of an initiative led by private industry to take

HDR technology from its current state of scientific and engineering demonstration to the production and marketing of energy in commercial quantities Because of the technology risks involved this can probably only be accomplished through a cost shared industry government effort The potential rewards are great since HDR represents the best and perhaps the only opportunity for geothermal energy to take its rightful place as a major energy source for the 21st century Rock Geothermal Energy Program Morton C. Smith, Los Alamos National Laboratory, 1987 **Geothermal Energy Program** Los Alamos National Laboratory, 1982 The basics of extracting heat from rock the hot dry rock program and the participants and future of the program are reviewed **Hot Dry Rock Geothermal Energy** Hot Dry Rock Geothermal Energy Development Program ,2005 **Program** Los Alamos National Laboratory, 1982 During Fiscal Year 1987 emphasis in the Hot Dry Rock Geothermal Energy Development Program was on preparations for a Long Term Flow Test of the Phase II or Engineering hot dry rock energy system at Fenton Hill New Mexico A successful 30 day flow test of the system during FY86 indicated that such a system would produce heat at a temperature and rate that could support operation of a commercial electrical power plant However it did not answer certain questions basic to the economics of long term operation including the rate of depletion of the thermal reservoir the rate of water loss from the system and the possibility of operating problems during extended continuous operation Preparations for a one year flow test of the system to answer these and more fundamental questions concerning hot dry rock systems were made in FY87 design of the required surface facilities procurement and installation of some of their components development and testing of slimline logging tools for use through small diameter production tubing research on temperature sensitive reactive chemical tracers to monitor thermal depletion of the reservoir and computer simulations of the 30 day test extended to modeling the planned Long Term Flow Test 45 refs 34 figs 5 tabs Barbara Ward ,1986 The Development of Hot Dry Rock Resources Roland A. Pettitt, 1978 The LASL Hot Dry Rock Geothermal Energy Project is the only U S field test of this geothermal resource In the LASL concept a man made geothermal reservoir would be formed by drilling a deep hole into relatively impermeable hot rock creating a large surface area for heat transfer by fracturing the rock hydraulically then drilling a second hole to intersect the fracture to complete the circulation loop In 1974 the first hole was drilled to a depth of 2929 m 9610 ft and a hydraulic fracture was produced near the bottom In 1975 a second hole was directionally drilled to intersect the fracture Although the desired intersection was not achieved a connection was made through which water was circulated After a year s study of the fracture system drilling began again in April 1977 and an improved connection was achieved In September of 1977 a 5 MW thermal heat extraction and circulation experiment was conducted for 100 h as a preliminary test of the concept An 1800 h circulation experiment was concluded on April 13 1978 to determine temperature drawdown permeation water loss and flow characteristics of the pressurized reservoir to examine chemistry changes in the circulating fluid and to monitor for induced seismic effects Hot Dry Rock: A New Energy Source for Clean Power

,2005 Volcanic eruptions provide a vivid illustration of the vast amount of thermal energy stored within the earth while geysers hot springs and related geothermal features demonstrate that this energy can be brought to the surface in a more benign manner over extended time periods These latter phenomena have in fact been utilized as sources of heat since ancient ones During the second half of this century the use of natural geothermal fluids to generate electricity has rapidly expanded Today in excess of 5 000 megawatts of electric power are produced from geothermal energy sources around the world The vast majority of geothermal energy is found not in the form of hot fluids but rather as hot dry rock HDR which exists almost everywhere beneath the surface of the earth The object of this paper is to review and summarize the current state of development of HDR technology in the United States and around the world including preliminary results of a long term test now underway at the HDR heat mine in Fenton Hill NM **Testimony for the Hot Dry Rock Geothermal** Energy Program to the United States House of Representatives, Committee on Science and Technology, **Subcommittee on Energy Development and Applications**, 1987 The thermal energy in hot rock beneath the earth s surface is one of our nation s largest most accessible and most secure supplies of inexhaustible energy. The primary objective of the Hot Dry Rock Program is to develop a solid technology base for this energy option so that private industry can confidently evaluate its reliability and economics Development of Hot Dry Rock Geothermal Resources: Technical and Economic Issues Jefferson W. Tester, 1980 Development of Hot Dry Rock Resources, 1978 The LASL Hot Dry Rock Geothermal Energy Project is the only U S field test of this geothermal resource In the LASL concept a man made geothermal reservoir would be formed by drilling a deep hole into relatively impermeable hot rock creating a large surface area for heat transfer by fracturing the rock hydraulically then drilling a second hole to intersect the fracture to complete the circulation loop In 1974 the first hole was drilled to a depth of 2929 m 9610 ft and a hydraulic fracture was produced near the bottom In 1975 a second hole was directionally drilled to intersect the fracture Although the desired intersection was not achieved a connection was made through which water was circulated After a year s study of the fracture system drilling began again in April 1977 and an improved connection was achieved In September of 1977 a 5 MW thermal heat extraction and circulation experiment was conducted for 100 h as a preliminary test of the concept An 1800 h circulation experiment was concluded on April 13 1978 to determine temperature drawdown permeation water loss and flow characteristics of the pressurized reservoir to examine chemistry changes in the circulating fluid and to monitor for induced seismic effects Geothermal **Energy from Hot Dry Rock** Robert H. Hendron, 1979 **Energy from Hot Dry Rock**, 1979 The Energy Update, 1976 Hot Dry Rock Geothermal Energy Program is described The system operation results development program environmental implications resource economics and future plans are discussed MHR The U.S. Hot Dry Rock Project, 1987 The Hot Dry Rock geothermal energy project began in the early 1970 s with the objective of developing a technology to make economically available the large ubiquitous thermal energy of the upper earth crust The program has been funded by the

Department of Energy and its predecessors and for a few years with participation by West Germany and Japan An energy reservoir was accessed by drilling and hydraulically fracturing in the Precambrian basement rock outside the Valles Caldera of north central New Mexico Water was circulated through the reservoir Phase I 1978 1980 producing up to 5 MWt at 132oC A second Phase II reservoir has been established with a deeper pair of holes and an initial flow test completed producing about 10 MWt at 190oC These accomplishments have been supported and paralleled by developments in drilling well completion and instrumentation hardware Acoustic or microseismic fracture mapping and geochemistry studies in addition to hydraulic and thermal data contribute to reservoir analyses Studies of some of the estimated 430 000 quads of HDR resources in the United States have been made with special attention focused on sites most advantageous for early development 3 figs 1 tab 12 refs

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