



Geothermal Resource Group

TAPPING THE EARTH'S ENERGY

DRILLING AND TESTING GEOTHERMAL WELLS

A Presentation for The World Bank
July 2012 Geothermal Training Event



Drilling And Testing Geothermal Wells Home Esmap

Rachel S Tattersall



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Encyclopedia of Renewable Energy, Sustainability and the Environment ,2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy

Geothermal Well Test Analysis Sadiq J. Zarrouk,Katie McLean,2019-04-30 Geothermal Well Test Analysis Fundamentals Applications and Advanced Techniques provides a comprehensive review of the geothermal pressure transient analysis methodology and its similarities and differences with petroleum and groundwater well test analysis Also discussed are the different tests undertaken in geothermal wells during completion testing output production testing and the interpretation of data In addition the book focuses on pressure transient analysis by numerical simulation and inverse methods also covering the familiar pressure derivative plot Finally non standard geothermal pressure transient behaviors are analyzed and interpreted by numerical techniques for cases beyond the limit of existing analytical techniques Provides a guide on the analysis of well test data in geothermal wells including pressure transient analysis completion testing and output testing Presents practical information on how to avoid common issues with data collection in geothermal wells Uses SI units converting existing equations and models found in literature to this unit system instead of oilfield units

Overview of Drilling and Completion Practices in Geopressured-geothermal Wells ,1981 Experience in the DOE s Wells of Opportunity program drilling and testing geopressured geothermal reservoirs is reviewed and some conclusions concerning drilling and completion practices ways to cut operating costs for these tests and long term production applications are presented

Geothermal Resource Assessment Through Well Testing and Production Response Modelling Daher Elmi Houssein,2008

State-of-the-Art Geothermal Well Drilling Case Studies Dan E Scott,Abraham Sam Samuel,2025-03-01 State of the Art Geothermal Well Drilling Case Studies provides updated information on technological advances and research on the state of the art performance of recent geothermal wells drilled for energy in the global push to reduce greenhouse gases The book provides advances in a rapidly growing market that has adopted and adapted oilfield

technologies to rapid scale development and production as demonstrated through global examples in a case study format. Different geologic formations and well trajectories require different drilling tools and drilling parameters to yield optimum results. Showcasing current examples of successful global geothermal well drilling applications, this text provides readers, researchers, and industry professionals with the keys needed to rapidly scale geothermal drilling operations, a clean and abundant source of energy that supports sustainability and reduction of carbon emissions. Presents case studies highlighting global geothermal drilling applications. Highlights best in class performances. Contains no hypothetical examples. Real world examples are provided by energy professionals responsible for real world results.

Geopressured-Geothermal Drilling and Testing Plan, Volume II, Testing Plan; Dow Chemical Co. - Dept. of Energy Dow-DOE Sweezy No. 1 Well, Vermilion Parish, Louisiana, 1982. The Dow D O E L R Sweezy No 1 geopressured geothermal production well was completed in August of 1981. The well was perforated and gravel packed in approximately 50 feet of sand from 13 344 feet to 13 395 feet. Permeabilities of 6 to 914 millidarcies were measured with porosity of 25 to 36%. Static surface pressure after well clean up was 5000 psi. At 1000 B D flow rate the drawdown was 50 psi. The water produced in clean up contained 100 000 ppm TDS. This report details the plan for testing this well with the goal of obtaining sufficient data to define the total production curve of the small 939 acre reservoir. A production time of six to nine months is anticipated. The salt water disposal well is expected to be completed and surface equipment installed such that production testing will begin by April 1 1982. The program should be finished and reports written by February 28 1983. The brine will be produced from the No 1 well passed through a separator where the gas is removed then reinjected into the No 2 SWD well under separator pressure. Flow rates of up to 25 000 B D are expected. The tests are divided into a two week short term test and six to nine month long term tests with periodic downhole measurement of drawdown and buildup rates. Data obtained in the testing will be relayed by phoneline computer hookup to Otis Engineering in Dallas Texas where the reservoir calculations and modeling will be done. At the point where sufficient data has been obtained to reach the objectives of the program production will be ended the wells plugged and abandoned and a final report will be issued.

Drilling, Completion, and Testing of Geothermal Wells CD-1 and CD-2, Caliente, Nevada, 1982. Two geothermal test wells were drilled in January 1983 in Antelope Canyon to access the potential for resource utilization by the City of Caliente's proposed space heating district. Both holes drilled into bedrock at 220 feet encountered hot water in the upper part of the hole 40 to 100 feet and cooler water below 100 to 210 feet. A series of pumping tests were completed in February 1983 including pump efficiency tests stepped draw down tests and 1 2 and 3 day sustained pumping tests. The test results indicated that the transmissivity of the thermal aquifer is very very high. Five water samples were collected for chemical analyses during the course of CD 1 pump tests. The samples were collected to determine the water quality for the proposed space heating district and possible reinjection and to establish a water chemistry base line for comparative analysis of fluid chemistry during the course of the pumping and from subsequent development. 7 refs 18 figs

3 tabs **Geopressured -- Geothermal Drilling and Testing Plan** ,1981 The principal objectives of the geopressured geothermal reservoir resource assessment program are to obtain data related to the following 1 2 1 Reservoir parameters and characteristics including permeability porosity areal extent net thickness of productive sands methane content and formation compressibilities 1 2 2 Ability of a geopressured well to flow at the high rates i e 40 000 bbls day expected to achieve the resource recovery required for economic commercial operations 1 2 3 Reservoir production drive mechanisms and physical and chemical changes that may occur with various production rates and conditions 1 2 4 Aquifer fluid properties including chemical composition dissolved and suspended solids hydrocarbon content in situ temperature and pressure 1 2 5 Techniques and strategies for completion and production of geopressured wells for methane thermal and hydraulic energy production including examination of producibility using computer simulators employing parameters determined by well testing 1 2 6 Disposal well parameters such as optimum injection rate and pressures transient and pseudo steady state chemical compatibility of fluids temperature solubility relationships and the economic considerations of injection including evaluation of filtering and inhibition techniques in the process steam and 1 2 7 The long term environmental effects of an extensive commercial application of geopressured geothermal energy i e subsidence induced seismicity and fluid disposal

Geopressured -- Geothermal Drilling and Testing Plan ,1980 **Drilling and Testing of an Exploratory Well, Truckhaven Geothermal Area, Imperial County, California** Erik B. Layman,Layman Energy Associates, Inc,2008

Geopressured-geothermal Drilling and Testing Plan General Crude Oil - Dept. of Energy Pleasant Bayou No. 2 Well Brazoria County, Texas United States. Dept of Energy,1979 *Drilling Technology Expanded in Geothermal Energy Test* ,1978 **The Importance of geothermal energy** ,2018 **Drilling Completion, and Testing of Geothermal Wells**

CD-1 and CD-2, Caliente, Nevada Thomas Flynn,Caliente (Nev.),1982 Two geothermal test wells were drilled in January 1983 in Antelope Canyon to access the potential for resource utilization by the City of Caliente s proposed space heating district Both holes drilled into bedrock at 220 feet encountered hot water in the upper part of the hole 40 to 100 feet and cooler water below 100 to 210 feet Temperature depth profiles measured in the two holes are nearly identical and are similar to profiles measured in existing nearby wells Lithologic logs constructed from drill chip samples reveal that a clay layer in the vicinity of the temperature reversal represents an aquiclude that limits fluid mixing The diameter of well CD 1 was subsequently increased from 6 inches to 14 inches to a depth of 100 feet The well was cased with 40 feet of 8 5 8 inch diameter screen in the production zone Well completion consisted of gravel packing swabbing and jetting with Barafos solution to remove entrapped drilling fluids installation of a gravel fill tube and cementing the upper 42 feet of the blank cased hole A series of pumping tests were completed in February 1983 including pump efficiency tests stepped draw down tests and 1 2 and 3 day sustained pumping tests The test results indicated that the transmissivity of the thermal aquifer is very very high A pumping rate of 255 gallons per minute at 80 C 178 F may be considered a minimum Drawdowns of 3 to 6

feet were recovered instantly after pumping was stopped Pumping of this well had no apparent effect on the water levels of two nearby observation wells Significant temperature increases were recorded in both observation wells during the last few days of the tests Five water samples were collected for chemical analyses during the course of CD 1 pump tests The samples were collected to determine the water quality for the proposed space heating district and possible reinjection and to establish a water chemistry base line for comparative analysis of fluid chemistry during the course of the pumping and from subsequent development In addition the chemical data were compared to existing analyses of thermal and non thermal waters in Caliente The results of these analyses indicate little or no change in composition over the period of pump testing and demonstrate a high degree of correlation with nearby thermal fluids The water quality meets state health standards for all chemical constituents and may be used as a source of potable water Chemical geothermometers indicated that the maximum temperatures from this resource range from 120 to 140 C The highest temperature measured in this resource is 96 C

Geothermal Well Technology Program ,1978 The high cost of drilling and completing geothermal wells is an impediment to the development of geothermal energy resources Technological deficiencies in rotary drilling techniques are evidenced when drilling geothermal wells The Division of Geothermal Energy DGE of the U S Department of Energy has initiated a program aimed at developing new drilling and completion techniques for geothermal wells The goals of this program are to reduce well costs by 25% by 1982 and by 50% by 1986 An overview of the program is presented Program justification which relates well cost to busbar energy cost and to DGE power on line goals is presented Technological deficiencies encountered when current rotary drilling techniques are used for geothermal wells are discussed A program for correcting these deficiencies is described Geothermal Well Construction Hani Ibrahim,2024-11-01 Geothermal Well Construction offers well construction solutions to unleash the enormous potential of heat trapped underneath the Earth s crust and provides a roadmap for innovators to apply technologies and methodologies to reduce the cost of well construction for geothermal applications This reference provides a toolbox of proven drilling plans for geothermal wells and explores innovative ideas and technologies that have evolved to exploit geothermal power for marked improvements in energy generation The book progresses from origins of geothermal energy extraction the evolution of tools design basics requirements and environmental considerations to provide the understanding needed to minimize costs of geothermal well construction facilitating incremental increases in clean energy and power generated by geothermal resources and ultimately reducing carbon dioxide emissions Geothermal industry professionals energy engineers well design engineers tool design engineers and students will find in this book a welcomed resource that aggregates approaches tools and technologies into one toolkit that can be utilized in geothermal well construction applications Pre-feasibility Drilling of Geothermal Well Near Bozeman Hot Springs to Determine Extent of Geothermal Resource Charles Page,Montana. Renewable Energy and Conservation Program,1981 Geopressured-geothermal Well Report. Volume I. Drilling and Completion ,1982 Gladys

McCall site activities are covered through the completion of the test well and salt water disposal well. The test well was drilled to a total depth of 16 510 feet then plugged back to 15 831 feet. Three 4 diameter diamond cores were taken for analysis. An existing well on site the Getty Butts Gladys McCall No 1 was reentered and completed to a depth of 3514 feet as a salt water disposal well. The geologic interpretation of the Gladys McCall site indicated target sands for testing at 15 080 feet through 15 831 feet. Reservoir fluid temperature at this depth is estimated to be approximately 313 F and pressure is estimated to be 12 800 psi. The preliminary reservoir volume estimate is 3.6 billion barrels of brine. The design wells program includes environmental monitoring of the Gladys McCall site by Louisiana State University. Field stations are set up to monitor surface and ground water quality, subsidence, land loss and shoreline erosion and seismicity. As of December 31 1981 the study shows no significant impact on the environment by site operations.

Slimhole Handbook, 1999 *Field Testing Advanced Geothermal Turbodrill (AGT). Phase 1 Final Report*, 1999. Maurer Engineering developed special high temperature geothermal turbodrills for LANL in the 1970s to overcome motor temperature limitations. These turbodrills were used to drill the directional portions of LANL's Hot Dry Rock Geothermal Wells at Fenton Hill, New Mexico. The Hot Dry Rock concept is to drill parallel inclined wells, 35 degree inclination, hydraulically fracture between these wells and then circulate cold water down one well and through the fractures and produce hot water out of the second well. At the time LANL drilled the Fenton Hill wells the LANL turbodrill was the only motor in the world that would drill at the high temperatures encountered in these wells. It was difficult to operate the turbodrills continuously at low speed due to the low torque output of the LANL turbodrills. The turbodrills would stall frequently and could only be restarted by lifting the bit off bottom. This allowed the bit to rotate at very high speeds and as a result there was excessive wear in the bearings and on the gauge of insert roller bits due to these high rotary speeds. In 1998 Maurer Engineering developed an Advanced Geothermal Turbodrill AGT for the National Advanced Drilling and Excavation Technology NADET at MIT by adding a planetary speed reducer to the LANL turbodrill to increase its torque and reduce its rotary speed. Drilling tests were conducted with the AGT using 12 1/2 inch insert roller bits in Texas Pink Granite. The drilling tests were very successful with the AGT drilling 94 ft/hr in Texas Pink Granite compared to 45 ft/hr with the LANL turbodrill and 42 ft/hr with a rotary drill. Field tests are currently being planned in Mexico and in geothermal wells in California to demonstrate the ability of the AGT to increase drilling rates and reduce drilling costs.

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