



Carbon Dioxide Flooding

H Kauffman



Carbon Dioxide Flooding:

Carbon Dioxide Flooding : Basic Mechanisms and Project Design Mark A. Klins,1984-09-10 *Field Demonstration of Carbon Dioxide Miscible Flooding in the Lansing-Kansas City Formation, Central Kansas*,2007 A pilot carbon dioxide miscible flood was initiated in the Lansing Kansas City C formation in the Hall Gurney Field Russell County Kansas The reservoir zone is an oomoldic carbonate located at a depth of about 2900 feet The pilot consists of one carbon dioxide injection well and three production wells Continuous carbon dioxide injection began on December 2 2003 By the end of June 2005 16 19 MM lb of carbon dioxide were injected into the pilot area Injection was converted to water on June 21 2005 to reduce operating costs to a breakeven level with the expectation that sufficient carbon dioxide has been injected to displace the oil bank to the production wells by water injection By December 31 2006 79 072 bbls of water were injected into CO2 I 1 and 3 923 bbl of oil were produced from the pilot Water injection rates into CO2 I 1 CO2 No 10 and CO2 No 18 were stabilized during this period Oil production rates increased from 4 7 B D to 5 5 to 6 B D confirming the arrival of an oil bank at CO2 No 12 Production from wells to the northwest of the pilot region indicates that oil displaced from carbon dioxide injection was produced from Colliver No 7 Colliver No 3 and possibly Graham A4 located on an adjacent property There is evidence of a directional permeability trend toward the NW through the pilot region The majority of the injected carbon dioxide remains in the pilot region which has been maintained at a pressure at or above the minimum miscibility pressure Our management plan is to continue water injection maintaining oil displacement by displacing the carbon dioxide remaining in the C zone If the decline rate of production from the Colliver Lease remains as estimated and the oil rate from the pilot region remains constant we estimate that the oil production attributed to carbon dioxide injection will be about 12 000 bbl by December 31 2007 Oil recovery would be equivalent to 12 MCF bbl which is consistent with field experience in established West Texas carbon dioxide floods The project is not economic *FIELD DEMONSTRATION OF CARBON DIOXIDE MISCIBLE FLOODING IN THE LANSING-KANSAS CITY FORMATION, CENTRAL KANSAS.* G. Paul Willhite,Timothy Carr,W. Lynn Watney,Don Green,William Flanders,Rodney Reynolds,John Doveton,Martin Dubois,Willard Guy,Alan Byrnes,Richard Pancake,Dave Murfin,James Daniels,Russell Martin,Dave Vander Griend,Eric Mork,Paul Cantrell,2006 A pilot carbon dioxide miscible flood was initiated in the Lansing Kansas City C formation in the Hall Gurney Field Russell County Kansas The reservoir zone is an oomoldic carbonate located at a depth of about 2900 feet The pilot consists of one carbon dioxide injection well and two production wells on about 10 acre spacing Continuous carbon dioxide injection began on December 2 2003 By the end of June 2005 16 19 MM lb of carbon dioxide were injected into the pilot area Injection was converted to water on June 21 2005 to reduce operating costs to a breakeven level with the expectation that sufficient carbon dioxide has been injected to displace the oil bank to the production wells by water injection Wells in the pilot area produced 100% water at the beginning of the flood Oil production began in February 2004 increasing to an average of about 3 78 B D for the six

month period between January 1 and June 30 2005 before declining By June 30 2006 41 566 bbls of water were injected into CO2I 1 and 2 726 bbl of oil were produced from the pilot Injection rates into CO2I 1 declined with time dropping to an unacceptable level for the project The injection pressure was increased to reach a stable water injection rate of 100 B D However the injection rate continued to decline with time suggesting that water was being injected into a region with limited leakoff and production Oil production rates remained in the range of 3 3 5 B D following conversion to water injection Oil rates increased from about 3 3 B D for the period from January through March to about 4 7 B D for the period from April through June If the oil rate is sustained this may be the first indication of the arrival of the oil bank mobilized by carbon dioxide injection A sustained fluid withdrawal rate of about 200 B D from CO2 No 12 and CO2 No 13 appears to be necessary to obtain higher oil rates There is no evidence that the oil bank generated by injection of carbon dioxide has reached either production well Water injection will continue to displace oil mobilized by carbon dioxide to the production wells and to maintain the pressure in the PPV region at a level that supports continued miscible displacement as the carbon dioxide is displaced by the injected water

Evaluation and Enhancement of Carbon Dioxide Flooding Through Sweep Improvement, 2009 Carbon dioxide displacement is a common improved recovery method applied to light oil reservoirs 30 45 API The economic and technical success of CO2 floods is often limited by poor sweep efficiency or large CO2 utilization rates Projected incremental recoveries for CO2 floods range from 7% to 20% of the original oil in place however actual incremental recoveries range from 9% to 15% of the original oil in place indicating the potential for significant additional recoveries with improved sweep efficiency This research program was designed to study the effectiveness of carbon dioxide flooding in a mature reservoir to identify and develop methods and strategies to improve oil recovery in carbon dioxide floods Specifically the project has focused on relating laboratory theoretical and simulation studies to actual field performance in a CO2 flood in an attempt to understand and mitigate problems of areal and vertical sweep efficiency In this work the focus has been on evaluating the status of existing swept regions of a mature CO2 flood and developing procedures to improve the design of proposed floods The Little Creek Field Mississippi has been studied through laboratory theoretical numerical and simulation studies in an attempt to relate performance predictions to historical reservoir performance to determine sweep efficiency improve the understanding of the reservoir response to CO2 injection and develop scaling methodologies to relate laboratory data and simulation results to predicted reservoir behavior Existing laboratory information from Little Creek was analyzed and an extensive amount of field data was collected This was merged with an understanding of previous work at Little Creek to generate a detailed simulation study of two portions of the field the original pilot area and a currently active part of the field This work was done to try to relate all of this information to an understanding of where the CO2 went or is going and how recovery might be improved New data was also generated in this process Production logs were run to understand where the CO2 was entering the reservoir related to core and log information and also to corroborate the simulation model A

methodology was developed and successfully tested for evaluating saturations in a cased hole environment Finally an experimental and theoretical program was initiated to relate laboratory work to field scale design and analysis of operations This work found that an understanding of vertical and areal heterogeneity is crucial for understanding sweep processes as well as understanding appropriate mitigation techniques to improve the sweep Production and injection logs can provide some understanding of that heterogeneity when core data is not available The cased hole saturation logs developed in the project will also be an important part of the evaluation of vertical heterogeneity Evaluation of injection well production well connectivities through statistical or numerical techniques were found to be as successful in evaluating CO2 floods as they are for waterfloods These are likely to be the lowest cost techniques to evaluate areal sweep Full field simulation and 4D seismic techniques are other possibilities but were beyond the scope of the project Detailed simulation studies of pattern areas proved insightful both for doing a post mortem analysis of the pilot area as well as a late term active portion of the Little Creek Field This work also evaluated options for improving sweep in the current flood as well as evaluating options that could have been successful at recovering more oil That simulation study was successful due to the integration of a large amount of data supplied by the operator as well as collected through the course of the project While most projects would not have the abundance of data that Little Creek had integration of the available data continues to be critical for both the design and evaluation stages o

Carbon Dioxide Flooding for Enhanced Oil Recovery Franklin Mattes Orr,John P. Heller,Joseph J. Taber,1982 **Carbon Dioxide Flooding : Basic Mechanisms and Project Design** Mark A. Klins,1984-09-10 *Enhanced Oil Recovery by Carbon Dioxide Flooding in New Mexico* W. Timothy Dowd,New Mexico Energy Research and Development Institute,Interstate Oil Compact Commission. Project on Enhanced Recovery and the States,1985 Target Reservoirs for CO2 Miscible Flooding John H. Goodrich,1980 **The Potential of Enhanced Oil Recovery by Carbon Dioxide Flooding in New Mexico** ,1986 *The Potential of Enhanced Oil Recovery by Carbon Dioxide Flooding in New Mexico* J. P. Brashear,A. B. Becker,New Mexico Research and Development Institute,1986 **Carbon Dioxide Flooding** Necmettin Mungan,1985 *New Concepts for Improving Oil Recovery in Carbon Dioxide Flooding--final Report* United States. Department of Energy,D. L. Whitman,R. E. Terry,R. E. Ewing,1988 Carbon Dioxide Flooding N. Mungan Necmettin,Mungan Petroleum Consultants Ltd,1998 **A Review and Evaluation of Carbon Dioxide Flooding** Necmettin Mungan,Mungan Petroleum Consultants Ltd,1979 **Evaluation and Enhancement of Miscible Carbon Dioxide Flooding** Nghia Tan Tran,2005 **Fossil Energy Update** ,1984 **A Thermodynamic Correlation for the Minimum Miscibility Pressure of Carbon Dioxide Flooding of Petroleum Reservoirs** Robert Michael Enick,1985 **Carbon Dioxide Flooding** Mark A. Klins,1988-11-01 Practical Aspects of CO2 Flooding Perry M. Jarrell,2002 Practical Aspects of CO2 Flooding serves as a logical guide to the practicing engineer focused on the how to and why of miscible and immiscible CO2 flooding The book outlines the entire project development sequence from conception and

justification through field design and operation Discussion centers on current and practical CO₂ flooding technologies and industry experiences and it targets those involved in planning designing and implementing CO₂ floods The book has five appendices including a compendium of practical field specific publications Energy Research Abstracts ,1984

Whispering the Techniques of Language: An Psychological Quest through **Carbon Dioxide Flooding**

In a digitally-driven earth where monitors reign supreme and immediate connection drowns out the subtleties of language, the profound strategies and mental nuances concealed within phrases frequently get unheard. However, located within the pages of **Carbon Dioxide Flooding** a interesting fictional prize sporting with organic feelings, lies an exceptional journey waiting to be undertaken. Published by a talented wordsmith, that wonderful opus attracts readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within ab muscles cloth of each and every word. Within the psychological depths of this emotional review, we can embark upon a genuine exploration of the book is primary styles, dissect their charming writing model, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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