



# **Enhanced Oil Recovery Field Case Studies**

**James J. Sheng**



# Enhanced Oil Recovery Field Case Studies Chapter 16

## Cyclic Steam Stimulation

**James J. Sheng**



## **Enhanced Oil Recovery Field Case Studies Chapter 16 Cyclic Steam Stimulation:**

**Enhanced Oil Recovery Field Case Studies** James J. Sheng, 2013-04-10 This chapter first reviews the mechanisms theories and screening criteria of cyclic steam stimulation CSS projects Then we will focus on the practice of CSS projects Finally field cases are presented which include Cold Lake in Alberta Canada Midway Sunset in California Du 66 block in the Liaohe Shuguang field Jin 45 Block in the Liaohe Huanxiling field Gudao Field Blocks 97 and 98 in the Karamay field and Gaosheng Field in China The Journal of Canadian Petroleum Technology ,1975 **Petroleum Engineering Handbook** Howard B. Bradley, Fred W. Gipson, 1987 Journal of Petroleum Technology ,1988 **Petroleum Abstracts** ,1989-04

**Enhanced Oil Recovery Field Case Studies** James J. Sheng, 2013-04-10 This chapter first reviews thermal properties of rock and fluids and related energy concepts The fundamentals of heat transfer and heat loss theories to estimate the heated area and oil recovery performance are briefly presented The mechanisms and screening criteria of steam flooding are discussed After the general practice in steam flooding projects is discussed field cases are presented which include Kern River in California Duri steam flood in Indonesia West Coalinga Field in California Karamay Field and the Qi 40 block in Laohe China Government Reports Annual Index ,1994 **Government Reports Announcements & Index** ,1996

**The Engineering Index Annual** ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world's most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly *Enhanced Oil Recovery Field Case Studies* Russell T. Johns, Birol Dindoruk, 2013-04-10 One of the most accepted and widely used technologies for enhanced oil recovery is injection of gas or solvent that is miscible or near miscible with reservoir oil Understanding gas flooding requires a good understanding of the interaction of phase behavior and flow in the reservoir and how oil and gas develop miscibility Conference Papers Index ,1982 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues Enhanced Oil Recovery Field Case Studies Bernard Tremblay, 2013-04-10 Cold production is a solution gas drive process in which a reservoir saturated with live heavy oil reservoir is depleted as quickly as possible to generate relatively stable gas bubbles leading to higher oil recoveries 5 10% original oil in place OOIP than for light oils 2 5%

OOIP More specifically these bubbles increase the oil gas mixture compressibility which maintains the reservoir pressures for longer times than for light oils

**Laboratory Studies of Oil Recovery by Cyclic Steam Injection** August Jean Bogart, University of Southern California, University Microfilms, 1967

A Top-injection Bottom-production Cyclic Steam Stimulation Method for Enhanced Heavy Oil Recovery Eric Robert Matus, 2006 A novel method to enhance oil production during cyclic steam injection has been developed In the Top Injection and Bottom Production TINBOP method the well contains two strings separated by two packers a dual and a single packer the shortstring SS is completed in the top quarter of the reservoir while the long string LS is completed in the bottom quarter of the reservoir The method requires an initial warm upstage where steam is injected into both strings for 21 days then the LS is opened to production while the SS continues to inject steam for 14 days After the initial warm up the following schedule is repeated the LS is closed and steam is injected in the SS for 21 days then steam injection is stopped and the LS is opened to production for 180 days There is no soak period Simulations to compare the performance of the TINBOP method against that of a conventional cyclic steam injector perforated across the whole reservoir have been made Three reservoir types were simulated using 2 D radial black oil models Hamaca 9 API San Ardo 12 API and the SPE fourth comparative solution project 14 API For the first two types a 20x1x20 10 acre model was used that incorporated typical rock and fluid properties for these fields Simulation results indicate oil recovery after 10 years was 57.27% OOIP with TINBOP that is 93% higher than conventional cyclic steam injection 33.14% OOIP Steam oil ratios were also decreased with TINBOP 0.83:1 compared to conventional 1.25:3% resulting from the improved reservoir heating efficiency

*Thermal Methods of Oil Recovery* Thomas C. Boberg, 1988-03-31 A large fraction of the free world's oil reserves is obtainable only by the application of thermal enhanced recovery methods This book provides an introductory overview of the important methods for oil recovery by application of heat It describes the more important field tests of these methods and the operational problems encountered The author offers an integrated approach to making preliminary comparative forecasts for the principal methods of thermal oil recovery and describes a novel method for insulating steam injection wells that is not widely used Simplified calculation methods are presented by which preliminary estimates of process behavior can be made and results of more sophisticated numerical simulations are presented for steam injection applications There is thorough discussion of cyclic steam stimulation steam flooding and in situ combustion Includes numerous case histories

**Enhanced Oil Recovery** Marcel Latil, 1980

*Enhanced Oil Recovery* M. M. Schumacher, 1978

Fundamentals of Enhanced Oil Recovery H.K. Van Poollen and Associates, 1980

*Investigation of the Relationship Between Wellbore Transient Temperature and Length of Fracture Penetration in Cyclic Steam Stimulation* Emmanuel Kayitale, Victor Wobo, University of Regina. Faculty of Engineering, 2013 Heavy oil reservoirs are a challenge to produce due to the high viscosity of the oil which leads to an unfavourable mobility ratio Cyclic Steam Stimulation also known as huff and puff is a thermal enhanced oil recovery technique that uses injection of steam into the formation to reduce

the viscosity of the oil and the capillary pressure This process has been successfully applied in North America to increase the deliverability of heavy oil to the producer      *Deep steam* Sandia Laboratories, R. K. Traeger, B. E. Bader, 1978

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