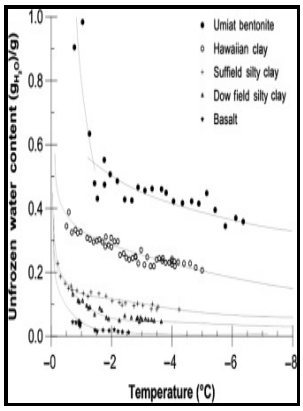
Oil Recovery and Formation Damage in Permafrost, Umiat Field, Alaska.

s.n - Oil Production from Frozen Reservoir Rocks, Umiat, Alaska



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-Oil Recovery and Formation Damage in Permafrost, Umiat Field, Alaska.
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Report of investigations (United States. Bureau of Mines) -- 5642Oil Recovery and Formation Damage in Permafrost, Umiat Field, Alaska.
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These fluids should be tested at low temperatures in order to determine the potential for formation damage, the fluid properties under these conditions and to ensure that the freezing point is below that of the reservoir. Microwave generator is placed on the ground surface and provides power to the microwave antenna installed down hole.

Conventional versus electrical enhanced oil recovery: a review

Key to understanding the flow behavior of the Umiat reservoir is determining the permeability structure of the sands.

Conventional versus electrical enhanced oil recovery: a review

However since freezing filtrate is another cause of formation damage, a simple water-based-mud may not a viable option. In case of induction heating, a number of inductors are normally installed at the bottom of production tubing facing the production zone.

Oil recovery and formation damage in permafrost, Umiat field, Alaska. [Effect of permafrost thawing by drilling mud; gas depletion drive] (Technical Report)

Analog switches are installed inside the injection well and controlled from the control circuit to switch on or switch off a specific arrangement and number of ultrasonic transducers.

Conventional versus electrical enhanced oil recovery: a review

Ultrasonic-based EOR model Similarly, Fig. Switching technique between different EEOR processes can also be employed based on the need. This is because CO 2 forms viscous fingering inside the reservoir resulting in reduced recovery.

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Moreover, the dielectric heating can produce 10 times more heat as compared with the electricity of same power level. According to some authors, small oil droplets, which usually are found in the reservoir after primary recovery, may coalesce to form larger ones leading to the flow of oil which results in oil recovery Beckham ; Jeong et al. It is because of the dielectric heating effect of microwaves, when microwaves are applied to a material medium, it directly interacts with the polar molecules.

Conventional versus electrical enhanced oil recovery: a review

The Umiat anticline has been tested by 11 wells, six of which produced oil; however, the productive capacity and recoverable reserves of the field are subject to considerable speculation because of unusual reservoir conditions and because several wells appear to have been seriously damaged during drilling and completion. Moreover, the dielectric heating can produce 10 times more heat as compared with the electricity of same power level.

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