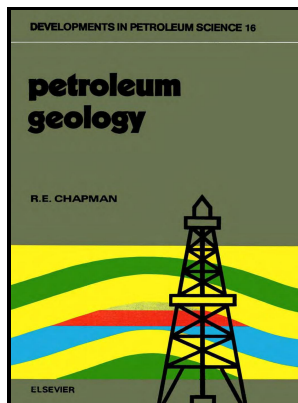


# Oil Recovery and Formation Damage in Permafrost, Umiat Field, Alaska.

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



Description: -

-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.

Notes: 1

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## RI 5642

Conventional versus electrical enhanced oil recovery: a review.

### Oil Production from Frozen Reservoir Rocks, Umiat, Alaska

In addition, they can achieve higher efficiency in heterogeneous reservoir environment as compared with conventional steam flooding Carrizales and Lake. Microwaves produce heat more efficiently in case of absorption inside the material but crude is not a good absorber of microwaves.

### Producing Light Oil from a Frozen Reservoir: Reservoir and Fluid Characterization of Umiat Field, National Petroleum Reserve, Alaska

Reservoir pressures are estimated to range from 50 to 350 psi, increasing with depth, and the small amount of gas dissolved in the oil is the major source of energy for production.

### Conventional versus electrical enhanced oil recovery: a review

As for the recovery time, the effectiveness of using one or another conventional EOR technique depends upon the heterogeneity of the reservoir. Sandstones of the Cretaceous Nanushuk Formation consist of mixed shoreface and deltaic sandstones and mudstones.

### Conventional versus electrical enhanced oil recovery: a review

Increased heat within the reservoir reduces the surface tension and increases the permeability of oil. Numerous lab experiments have been conducted by many researchers on the use of electro osmosis and suggesting it as a good candidate for EOR Amba et al. Examination of legacy

core from Umiat field indicate that fractures are present in the subsurface, but don't provide information on their orientation and density.

**Producing Light Oil from a Frozen Reservoir: Reservoir and Fluid Characterization of Umiat Field, National Petroleum Reserve, Alaska**

Changes in oil chemistry vary with depth; surface samples show signs of microbiological degradation, whereas some subsurface samples taken just above the permafrost show no evidence of degradation and still contain volatiles. In addition, EEOR provides an increase in the production of oil as compared with its counterpart, the conventional EOR. Microwave EOR with added advantages Microwave EOR is the optimum case of EEOR in many cases and helps to extract the best possible quantity of oil within less time as compared with other EEOR methods.

**Producing Light Oil from a Frozen Reservoir: Reservoir and Fluid Characterization of Umiat Field, National Petroleum Reserve, Alaska**

This is because CO<sub>2</sub> forms viscous fingering inside the reservoir resulting in reduced recovery.

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