



How to Increase Oil Production

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Abstract: This article analyzes the occurrence, origin and correction of corrosion of metal structures buried in the soil (for example: metal pipes, semi-buried columns, railway relays, etc.). Various substances in the soil, bacteria, environmental influences, temperature and similar factors cause corrosion in the metal buried in the soil. Corrosion in metal structures can cause the metal to corrode. To prevent this condition or to protect the metal from corrosion, the prevention of corrosion by means of protection has been analyzed.

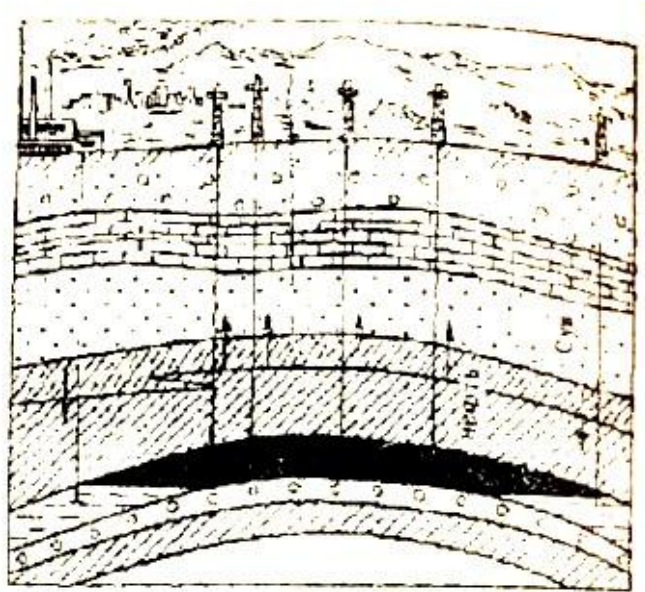
Keywords: oil, gas, mine, sediment Ideal gas, isothermal process, isochoric process, real gas, critical indicator, false critical pressure, compressibility coefficient, pressure, temperature, volume and mass indicator.

Scientists believe that one-third of the oil reserves have been discovered so far. Two-thirds of them are waiting for their discoverers, so there is still a lot of work for geologists and geophysicists. But new mines opening oil and gas reserves increase the only one the way not _ Oilmen for now until opened from mines full use they don't get it . This mines using in them oil reserves only one part we can His the rest part is oil 40-60% of the reserve is specialist in his opinion, in the depths of the earth completely stay goes _

With gas work relatively it's easy, it's gender easily separated. 85-95% of gas is underground out is taken. But underground _ the rest of gas from ten one part too him receivers for big interest wakes up . For example : in Siberia The gas reserve in the super- giant Urengoi mine is 6 trillion cubic meters in the amount rated , him work from the end then 500-600 billion cubic meters of gas will remain underground that prophecy is being done , that is the rest of gas He is a giant . So , now at the time oil affairs and gas workers used divided that calculated in the mines about 50% oil and 10% gas mold is going Use being used methods savages method isn't it ? level himself in the depths of the earth remaining of oil and of gas big the amount get that it is possible hope to do opportunity is giving

From the fold oil completely capillary forces to obtain resistance shows that _ forces oil mountain gender thin in the canals and microscopic in the pores holding stands _ From him except mine at work layer energy decreases, therefore for everyone oil it does not have the strength to "push " it up . Layer energy oil or gas piles resident water pressure with, in oil dissolved and layer pressure when it decreases expanding gas pressure with, as well as gravitational forces with is determined. This is an energy effect under in the well pressure from layer less when, oil and a gas well towards squeeze is released. However of energy decrease with layer pressure decrease, well at the bottom to pressure approaches. Pressures the difference not stay the well of debit to decrease take will come That's why for oil mines initial work stage the fountain method works , work at the end while special depth pumps through of them oil sucking is issued .

From the fold oil to receive of multiplication old methods one border from the outside water is suppression . Oilmen layer energy not decrease for from him out received oil instead of to layer that's it amount water driving need said to the ecision they came Of this for oil limit out special driver wells is drilled and this wells through water driven (Figure 12.1)



In the cut border from outside water driver scheme

Work in the process heap of dimensions decrease with some receiver wells too driver to the wells transfer can _ Border from the outside water suppression oil the well to the bottom squeeze releases _ Water suppression method the first results than expected more than it happened From layers total received oil get some cases increased reserves by 70% . But area big has been heaps at work border from the outside water suppression necessary the results did not give Such cases oil limit from the outside kicked out water energy whole heap across necessary layer pressure same size _ holding stand up for ca n't Then scientists border from within water to suppress recommendation they did Oil heap one how many row driver wells with separately driving to the fields will be cut , this fields while individually is used . This method heap only border around not central _ parts too efficient work enable creates _

Water suppression layers oil give get coefficient just increase it don't stay, mine work the pace increases and work the term reduces oil _ get process makes it cheaper.

Water suppresses different types _ apply layers final oil give it increases what it does not get by 1.5-2.5 times. However this cases too in layers yet not received oil very a lot will be

That's why for scientists search continue made: to the layer water No, what if hydrocarbon gas is expelled will be so ? It is known that oil in hydrocarbons melting ability have _ It depends on the gas, for example , propane oil melt it _ mountain gender separate take out can you Experiments was conducted . Such method with oil reserves up to 80% get possible it is From this except oil _ occupied everyone pore spaces occupied by gas a must not it is Gas too pore Occupying 1.5-2% of the volume of the layer oil to receive sharp increase for enough it is This method with high effect get for a mixture of two gases: methane (85%) and ethane (15%). liquid propane frame the most to the goal appropriate it is This mixture oil 20-30 MPa pressure on the layer under will be driven The gas mixture is underground lost won't go , it's later back is taken . But this of the method has disadvantages. He is very expensive and basically of oil light fractions get enable gives _ that's why for this from the method light oil heaps at work is used.

Last in years oil in getting micellar that named special solutions manual started _ This of the solution main to the composition oil solvent surface-active substances (PAV), sodetergent (alcohol)

hydrocarbon solvent (kerosene, oil, oil light fractions and others) and water enters _ Micellar in dispersions main role SFM- high molecular oil chemistry products plays _ Micellar of the solution appearance to water looks like -u like clear liquid _ To its physical properties according to it is one homogeneous, thermodynamically stable, viscosity in a large (1-10Pa·s) range variable non newton is a liquid. A lot of scientists according to present at the time micellar the solution driving mine work the most efficient method that they count. What for?

Known in moderation in oil dissolved SFM molecules aggregates and micelles harvest does _ Structure "in oil". Water" or "in water" oil" type to the emulsion similar emulsions harvest will be theirs the difference of particles in sizes. In emulsion particles size 10^3 - 10^4 mm, aggregates-micelles 10^{-4} - 10^{-6} mm. Simple by doing so to speak, this Dispersions in itself oil dissolves and him of sex separate takes _ The collector is direct micellar solution with is washed and from oil absolute is cleaned. Harvest has been emulsions very interesting one to the property have: they re recover they get For example, from the bottom of the earth came out this in emulsions water quantity if changed, from the solution immediately free oil separate output occurs.

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