

**J-**  
THREE-DIMENSIONAL GEOLOGICAL MODELING OF OIL SATURATION  
OF PRODUCTIVE OIL RESERVOIR BASED ON LEVERETT J-FUNCTION

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*Key words: oil and gas saturation; three-dimensional geological modeling;  
permeability and porosity; oil-water transition zone*

[1].

133

[2].

( ) ,

(Pc) —

$$Pc = 2\gamma \cdot \cos\theta / rt, \quad (1)$$

— ,  $r$  — (1)

:  
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[3]

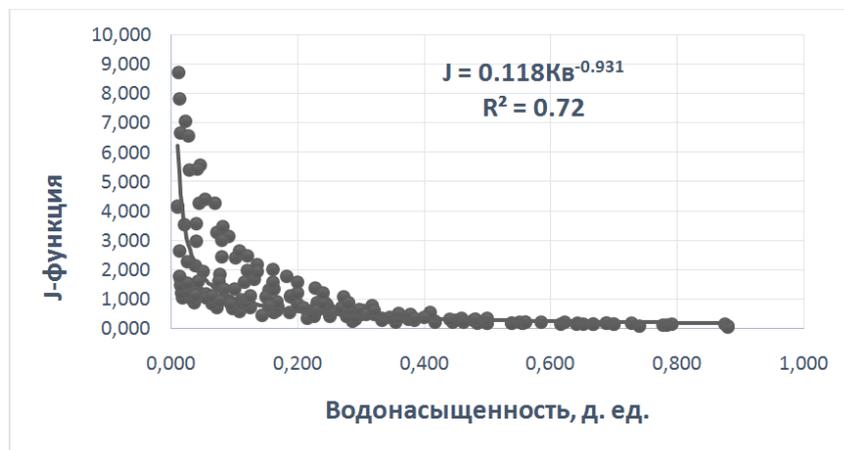
$$J = \frac{3,183 \cdot Pc \cdot \sqrt{\frac{Kn_p}{Kn}}}{\gamma \cdot \cos\theta}, \quad (2)$$

J — J- ;  $K$  — ;  $Pc$  — ; — ;  $K$  —  
/ ; — ; — ( ),

$$Pc = (\delta w \cdot \delta hc) \cdot 0,098 \cdot h, \quad (3)$$

$\delta w$  — ;  $h$  — ;  $\delta hc$  — ; 0,098 —  
[4].

[5]. 16 8  
J- ( . 1).



. 1.  $J = f( )$  ;  $i^1$  ;  $i^2$

100 %

[6].

$$= 0,7 \quad J = 0,17.$$

= 18,4 %.

$$= 38,83 \quad (2)$$

$$P = 0,12 \quad (3),$$

$$P = 0,12 \quad h = 8$$

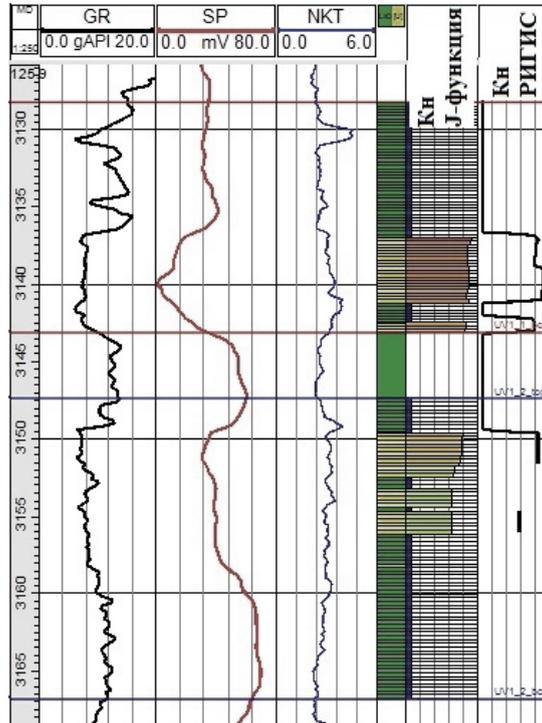
$$J = f(\dots) \quad (4).$$

(«Petrophysical modelling»)

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(.2).

( < 2 , ).



.2.

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[7].

1. (25.00.17) / ;
2. , 2013.
3. « », 2007.
4. , 1971.
5. (25.00.10) / ; , 2012.
6. 2- ; 2- , 2008.
7. // , 2012. – 1(5).
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