

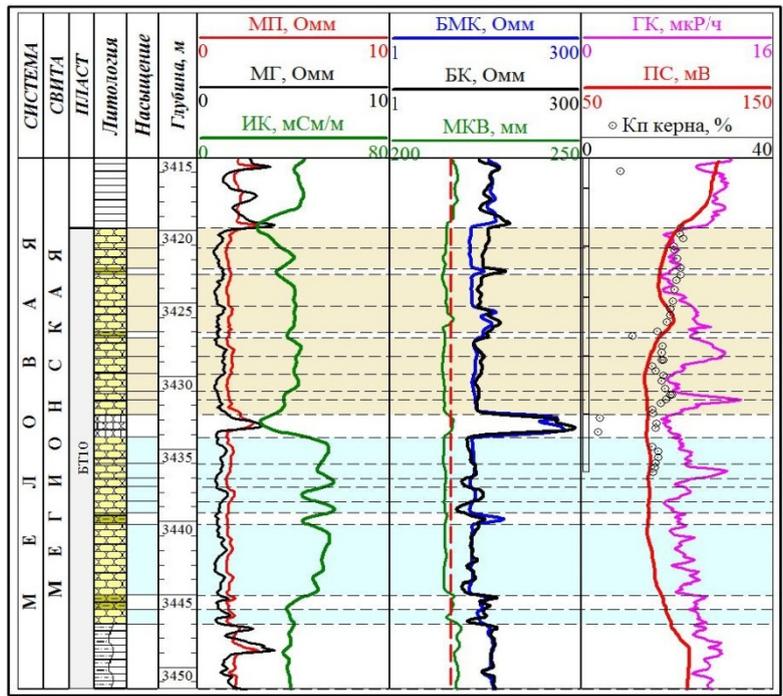
DETERMINATION OF PRODUCTION WELL'S COLLECTORS POROSITY
IN SOUTH-GEOLOGICAL AREA

G. E. Stroyanetskaya

Key words: collectors; well; solution; core; porosity; geophysical researches; gas saturation

2006 . 267, 268, 271,
 281, 282. -
 . 267 10 — 3 415,2–3 439,2 3 479,1–3 498,4 98 %, .
 11 3 267,5–3 274 3 330–3 337 . 282 10 -
 10 11 .

(267). (271, 281, 282),
 (268),
 ()
 : 0,1 · (267), 0,24 · (268), 0,4 · (271), 0,15 ·
 (281), 1 · (282). — 1,12 1,15 / ³,
 — 30-45 10 11 —
 0,216 · — 85-90⁰, 13 / .
 10 11
 (), (), (),
 (), (), (), (),
 (), (), (), (),
 ().
 (· 268, 281).
 () ().
 (· 1).



. 1.

10

267

() .267

()

(α).

$\alpha = 1 - J$, $J =$

(). $= f(\alpha)$

$= 3,62\alpha + 14,8.$ (1)

(1), 2%

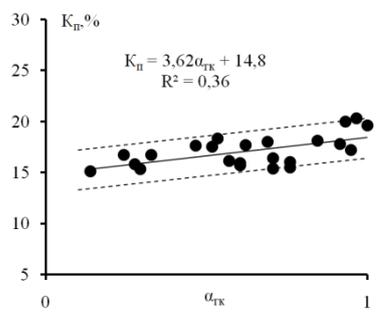
[1]:

$$= (\Delta - \Delta) / (\Delta - \Delta), \quad (2)$$

, Δ , Δ

() Δ

α , Δ



.2.

$\alpha = .267$

[2]:

$$= ((-\Delta)(\alpha - 1)^{0.5} /)^{0.5}, \quad (3)$$

(3)

$$= ((-\Delta)(\alpha - 1)^{0.5} /)^{0.5}. \quad (4)$$

(4) Δ

$$= 0,19 \quad (4)$$

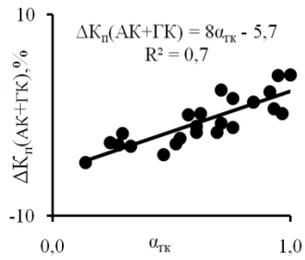
(4),

(+) α .

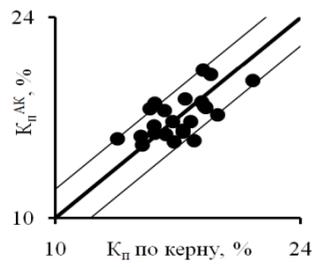
(+) = $8\alpha - 5,7.$ (5)

$$(4) \quad (5)$$

$$= ((-180)(\alpha - 1)^{0.5}/0.19)^{0.5} - 8\alpha + 5.7. \quad (6)$$



3. $\Delta (+) \propto$



4.

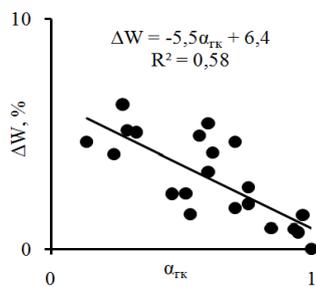
(6), ().
 2 % , . 4, , -
 (6) .

() [1]:

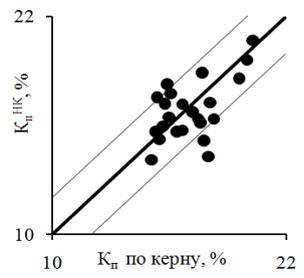
$$= W_{\Sigma} - \Delta w + \Delta w = W_{\Sigma} - \Delta W, \quad (7)$$

W_{Σ} — , Δw — W_{Σ} , Δw —
 $\Delta W = \Delta w - \Delta w$.
 α . ΔW W_{Σ} , (ΔW) -
 W_{Σ}) W_{Σ} .
 W_{Σ} ΔW α . ΔW α . 5 -
 $\Delta W = -5.5\alpha + 6.4$. (8)

W_{Σ} ΔW = $W_{\Sigma} - \Delta W$.
 2 % . 6
 2 % . 267 , , , -
 2 % 3,7 % .
 () .



5. $W \propto \alpha$



6.

$$(6) \quad \dots \quad (7),$$

$$= -(\dots)/(1+ \dots), \quad (9)$$

[3]

$$= -(\dots)/(1+ \dots), \quad (10)$$

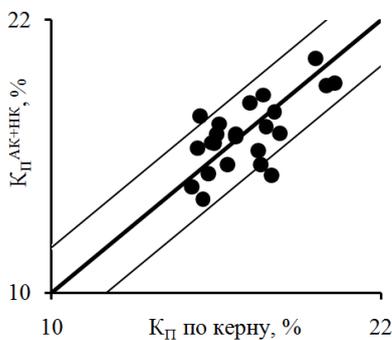
1,8 [3].

$$\dots - (\dots), \quad (9),$$

+

2,3 %

2 %.



.7.

+

+

$$(6), \quad (9) \quad (7).$$

1.

1

2.

$$= -(\dots)/(1+ \dots).$$

1.

2.

3.

...

1984, 110

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