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538.9:548.51

## INFLUENCE OF PHYSICAL AND CHEMICAL PROPERTIES OF OIL UPON GAS HYDRATE GENERATION IN THE WATER-IN-OIL EMULSIONS

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*Key words: hydrate, water-in-oil emulsion, gas hydrate*

80 %

[1].

[2].

10–15

[3].

1. ( — ).

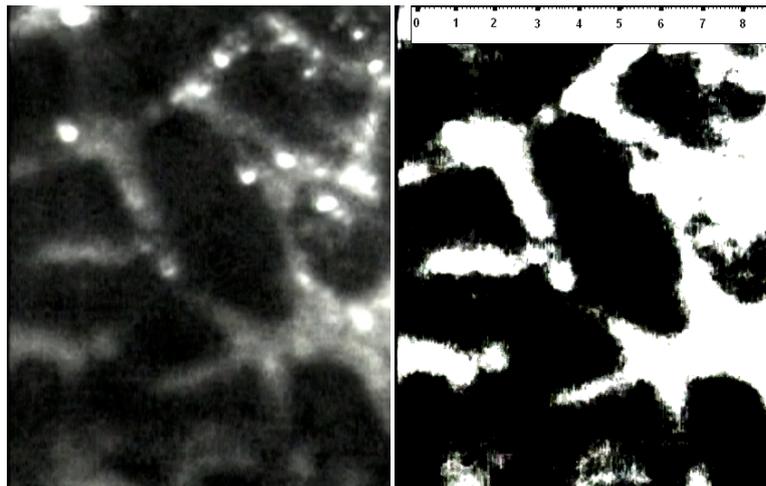
1

	$T=20^{\circ}\text{C}, \text{ / }^3$	$T=20^{\circ}\text{C},$	$[ \text{ / } ]$	$[ \text{ / } ]$
	$867 \pm 9$	$59,1 \pm 0,6$	$39 \pm 2$	$8,2 \pm 0,2$
-	$836 \pm 8$	$174 \pm 2$	$36 \pm 2$	$5,1 \pm 0,2$
	$881 \pm 9$	$659 \pm 11$	$125 \pm 3$	$66 \pm 7$

« »  
[4, 5].

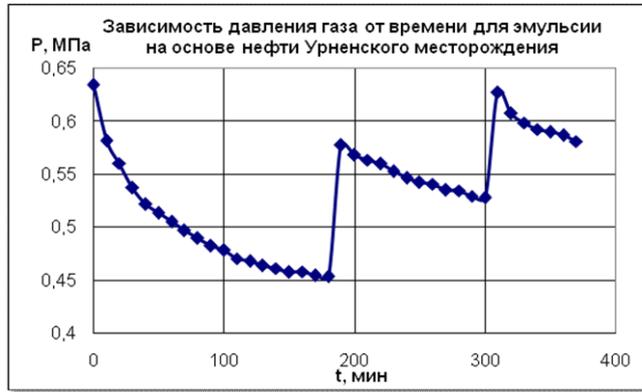
. 1

$-4^0$ ,  
 $-5^0$ .



. 1.  
( — / — 50/50): —  
Paint.Net

(t)  $\left( = 1,1^0 \right) \cdot 2$



. 2.

, + + -  
[6].

, (t)

$$P_{\text{э}}(t) = P_{\text{в}}^i + (P_{\text{max}} - P_{\text{в}}^i) \exp(-t/\tau_i), \quad (1)$$

(t)

—

, . 3.

, -

:

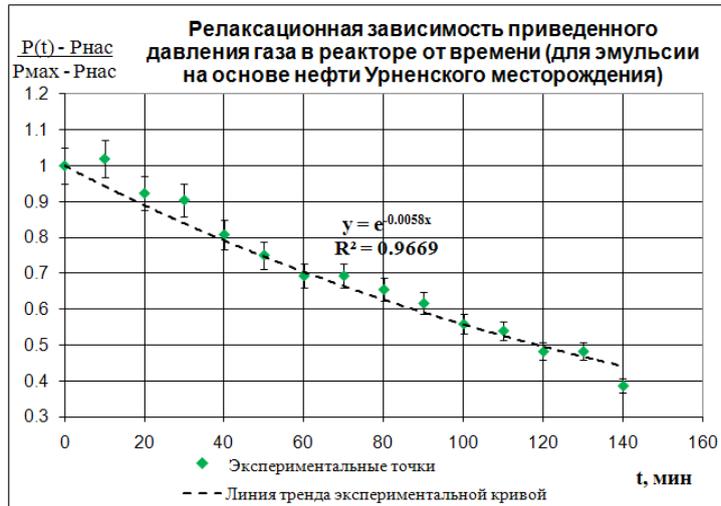
:

$$P(t) = P_1(t) + P_2(t), \quad (2)$$

$P_1(t)$  — ,  $P_2(t)$  (2)

$$P_1(t) = \varphi \cdot P(t), P_2(t) = (1 - \varphi) \cdot P(t), \quad (3)$$

— ( ),  $P(t)$  — , (t) —



. 3.

(2)

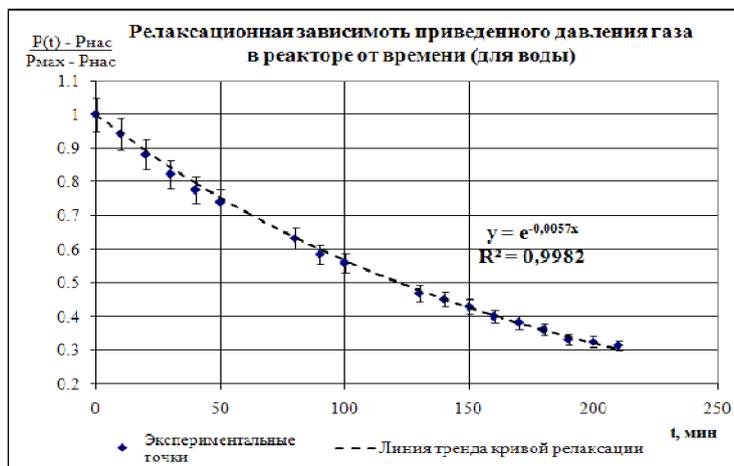
(3)

$$P_B(t) = P_H^i + (P_{max} - P_H^i) \exp(-t/\tau_1),$$

$$P_H(t) = P_H^i + (P_{max} - P_H^i) \exp(-t/\tau_1). \quad (4)$$

. 4, 5

$$= 1,1^0 .$$



. 4.



. 5.

2.

2

(2)

	,					, %
		,	$R^2$	,	, 1/	
	138,9	172,4	0,97	163,9	0,366	5
-	129,9	169,5	0,97	161,3	0,372	5
	126,6	161,3	0,98	158,7	0,378	2

5 %

2 %

( . . 2).

$R^2$  . 2),

( . . 1, 2) [7].

1. . . . .

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2. . . . . 48, – 3, 2003. – . 70-79. //
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AUTOMATIC SYSTEM OF PREDICTION OF PETROLEUM COMPLEX  
HEAT-MECHANIC EQUIPMENT RESIDUAL LIFE

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« - « »,  
», .

Key words: *system of calculation of equipment remaining life, actual technical condition of heat-mechanic equipment*

60–70 %