MATHEMATICAL STATISTICS AS A TOOL FOR ANALYZING THE EFFECTIVENESS OF MEASURES IN OIL PRODUCTION

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Key words: *mathematical statistics; associative analysis; multivariate analysis; Fisher criterion; correlation analysis; injectivity; geological and technological parameters*

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, 3/ *			
	< 4,3	> 4,3	
< 6,5	6	1	7
6,5 12	5	3	8
> 12	0	2	2
	11	6	17

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- (Q/P) ;
 - (Q/P) .
- 3 (. 2).

2

86

	B (, %)								
	B ₁			B ₂			B ₃		
	< 19 %			19–21 %			> 21 %		
	A (, ²)			A (, ²)			A (, ²)		
	< 0,05	0,05–0,1	> 0,1	< 0,05	0,05–0,1	> 0,1	< 0,05	0,05–0,1	> 0,1
C ₁ < 2							121		
							49,3		
2 < C ₂ < 4	52,5	121,5		80,8			8,9		438,3
				24,6					
C ₃ > 4	101			77,1					
				37,2	206		110,5		
				98,7					

2 : (m_j),

$$\left(\sum_1^{m_j} y_{ij}\right), \quad \left(\frac{1}{m_j} \sum_1^{m_j} y_{ij}\right), \quad \frac{\sum_1^g Z_j}{m_j} = \frac{1}{m_j} \left(\sum_1^{m_j} y_{ij}\right)^2.$$

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(σ₁²), (σ₀²) , -

(θ),

(f₁ = g – 1; f₂ = N – g)

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2) ;

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3) ;

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4) ,

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$\sum_1^g Z_j$	298465,4	177037,7	167977,7	302343,5	303869,8	201980,8	308213,3
$\frac{1}{N} \left(\sum_1^N y_i \right)$	166639,34						
$\sum_1^N y_i^2$	315827,08						
$\sum_1^g Z_j - \frac{1}{N} \left(\sum_1^N y_i \right)^2$	131826,1	10398,35	1338,406	135704,2	137230,5	35341,5	141573,9
$\sum_1^N y_i^2 - \sum_1^g Z_j$	17361,65	138789,4	147849,3	13483,58	11957,24	113846,2	7613,822
f_1	2	2	2	5	5	5	8
f_2	11	11	11	8	8	8	5
σ_1^2	65913,04	5199,177	669,2031	27140,83	27446,1	7068,299	17696,74
σ_0^2	1578,332	12617,22	13440,85	1685,448	1494,655	14230,78	1522,764
θ	41,76121	0,41207	0,049789	16,10304	18,36283	0,496691	11,62146
$F_{0,2}$	3,98	3,98	3,98	3,69	3,69	3,69	4,82

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[1].
1)
2)
3)
4)
5)
6)
7)
4.
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(2)

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1	0,003–0,032	0,018	6	0,43
2	0,032–0,062	0,047	6	0,43
3	0,062–0,091	0,076	1	0,07
4	0,091–0,12	0,105	0	0
5	0,12–0,149	0,135	1	0,07
			14	1
				0,951
				37,51

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