
[1,2,3]

0,72-0,62 . . .

14

« - » 1,0 .

1,5 2,0 .

2,5-12,5 .

112 .

6,5-7,5 .

:
-
«Crosshole»;

- 3-4

0,35-0,50

84

;

- 7, 28 48
 «Crosshole»;

22

18 24%.
 0,3-3,2 , 20

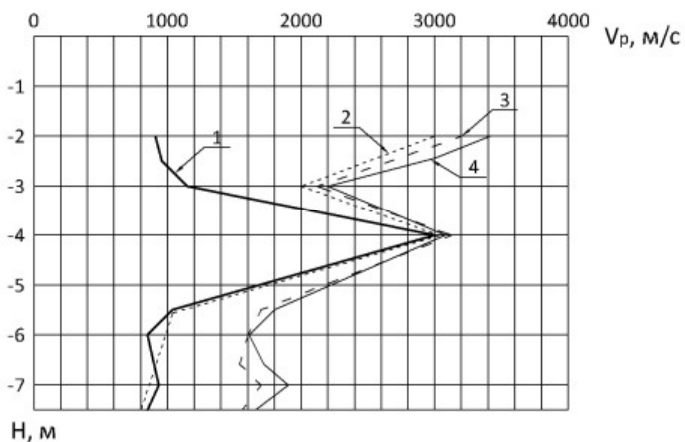
«Crosshole»

1,7-1,9 ,

2,0 .

10-

12%.



.1 V /
 . 1- , 2- 7 , 3- 24
 , 4- 48

27

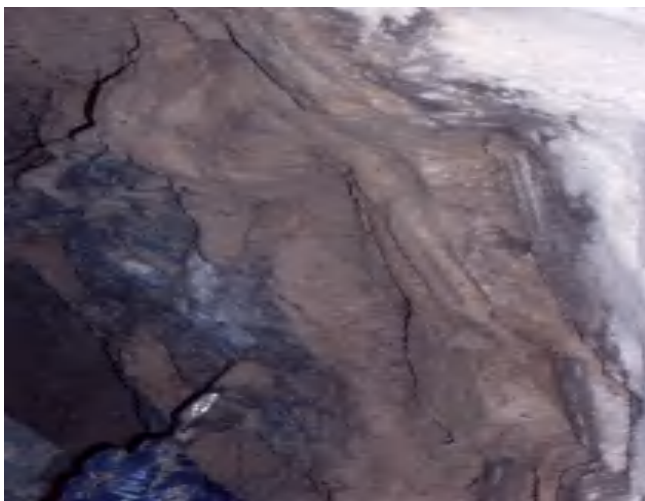
0,30...1,0

2, 3 4.



.2

: - , - .



.3



.3

1,46...1,62 / 3 1,82...2,03 / 3,
 1,55...2,85 , 25... 50%,
 12-20%.

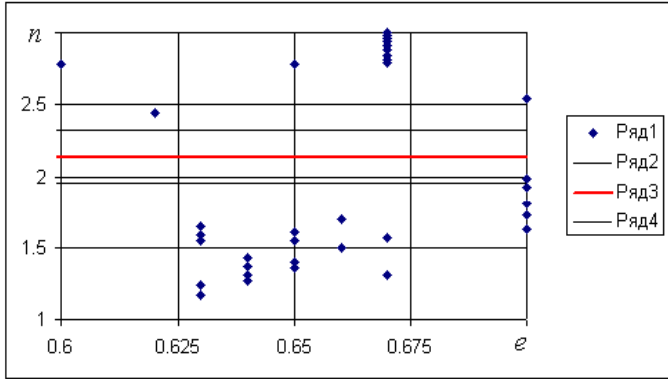
[1,2,3]

$$P = k_1 \cdot \frac{4 \cdot (x^2 + y^2 + z^2)^{n/2} \cdot [\gamma_I \cdot (H - z) \cdot \sin \varphi_I + c_I \cdot \cos \varphi_I]}{(3 - \sin \varphi_I) \cdot R^n};$$

(. . . 4 5)

$$\left. \begin{aligned} n &= (-1,41 \pm 0,75) + (4,2 \pm 8,66) \cdot I_L - \\ n &= (-0,78 \pm 4,58) + (4,45 \pm 6,96) \cdot e - \end{aligned} \right\}$$

$I_L -$; $e -$



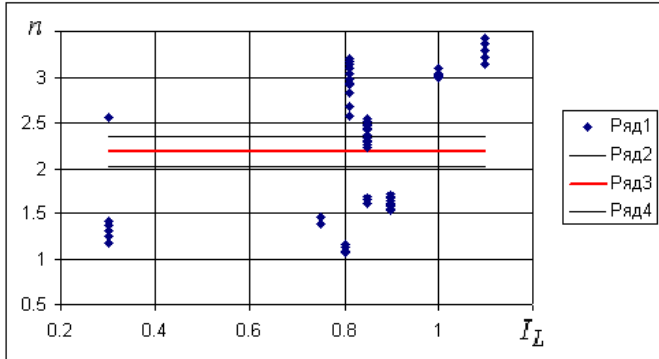
. 4.

n

. 1 -

, 3

, 2 4 -



. 5.

n

. 1 -

,

, 2 4 -

n

3 -

60

« »

0,5...7,5 ,

2,25-12,5 ,

19-24 .

(

), 15...5 20

1. t_0 ().

2. -

3. 1. ; . 21.- - : , 2002, .92-

96. 2. « », .61, , 2004,- .42...47.

3. ; , 2010 - 247 . 4. .2.1-10-2009. , 2009, -104 . 5. 20522-75.