

551.3: 551.34:553

ACTIVATION OF CRYOGENIC PROCESSES AT CONSTRUCTION  
OF GAS PIPELINE BOVANENKOVO — UKHTA

A. A. Gubarkov, I. R. Idrisov, A. V. Kirillov

« - « », .  
: , , ,  
*Key words: cryogenic processes, permafrost, construction, Bovanenkovo-Ukhta gas pipeline*

( ) - -  
,  
( ) -  
( ), , [1, 2],  
[3, 4].  
-  
[1, 2, 5, 6, 7].  
2006–2009 : -  
[7, 8].  
2006 . , -  
2009 .  
,  
,  
,  
2008–2009 . —  
100,45–122,0 . 2009 .  
21,55 455 -  
502 , 72 . , -  
-

100,45–122,0

2009 .

/			, %
1		218	43,4
2		95	18,8
3		77	15,3
4		35	6,9
5		65	12,9
6		6	1,2
7		6	1,2
8		2	0,4

(218) (95) 313 ( ), 63 %

(35) (77) (65). (6),

(218), (95)

2009 .

2009 .

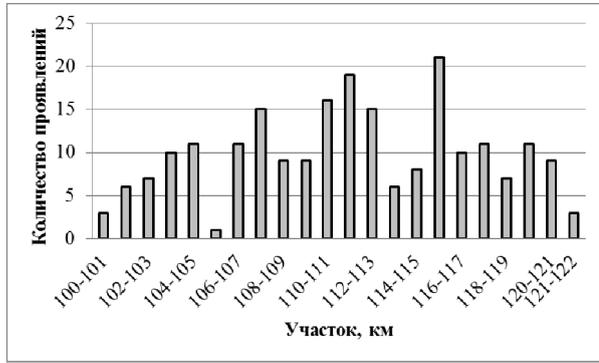
(77).

6 11 21 — 10.

2

100,45 ( .1). (116,0 ),

122,0



. 1.

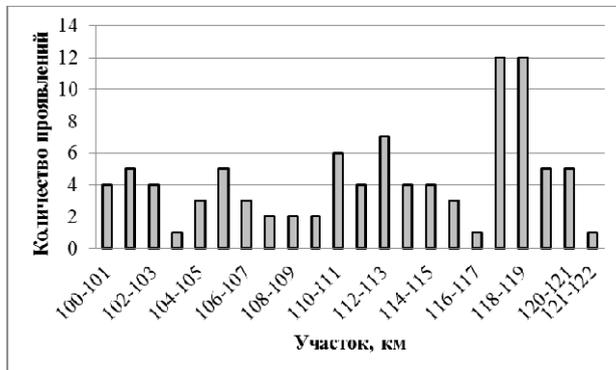
100,45–122,0

45 , 17 100 , 7  
 300 ,  
 410 .  
 16 .  
 1,2 .

50  
 200 .  
 4 ,  
 — 0,49 , —

( . 2).  
 118–119 .  
 4,3 ) 12 1 .

1–6 ( —  
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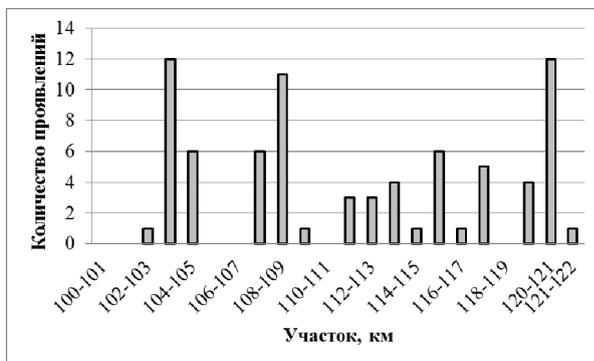


. 2.

100,45–122,0

25 , 15 — 100 , 1 50  
 200 .  
 400 ,  
 — 968 .  
 8,9 , 110 .  
 — 0,72 , — 1,35 .  
 ( ) 77 —  
 ( . 3). 3,5 1 .  
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 11–12 1  
 1 — 3,5.

. 3.  
100,45–122,0

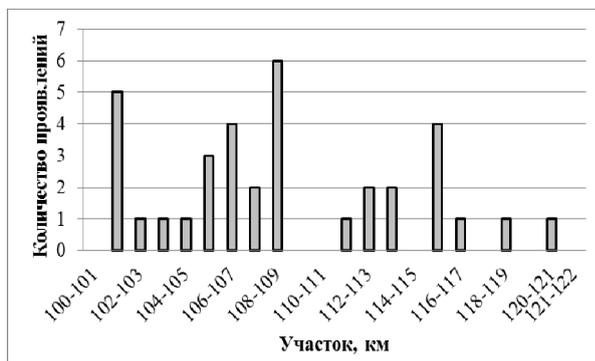


152 (120,77 ).  
66 .

103,41

( .4).

. 4.  
100,45–122,0



100 , 1

200 .

1 .

50

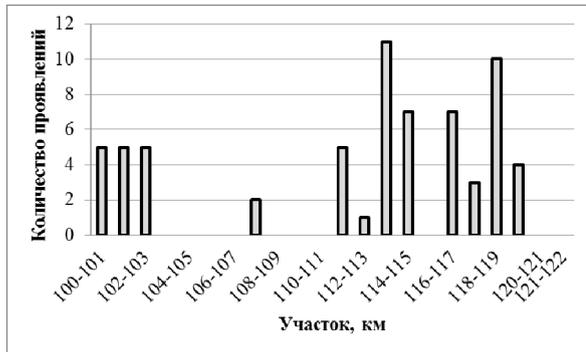
4–6

3 .

2 —

0,71 ,

— 0,50 , — 0,75 1,5 .  
 ( . 5). 10-11 1 . 112 120 ,



. 5.  
 100,45-122,0

9 — 50 , 5 10 15 ,  
 200 , 100 . 433 .  
 5,13 , — 0,3 ,  
 27 . — 0,4 . 6  
 2009 .  
 :  
 • (43 %),  
 ;  
 • (19 %), ( ;  
 ),  
 • 77 ; (15 %)  
 ;  
 • — (7 %)  
 ;

- , 2009 . (13 %),
- — ; (1 %),

1. / . . . . , 1989. – 456 .
2. . . . . 2. // . . . . , . . . . . 2013. – 424 .
3. 22-01-95. . . . .
4. . . . . « » , 2009.
5. . . . .

1995. – 198 .

6. . . . . // . . . . . , 2007. – . 317-319.
7. . . . . // . . . . . – 2011. – 4. – . 30-35.
8. // . . . . . – 2013. – 4. – . 6-11.

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 A STRUCTURE AND CONDITIONS OF FORMATION OF BED BP<sub>16</sub>  
 IN THE OIL FIELD VYNGAYAKHINSKOYE (WEST SIBERIA)

K. A. Khasanova

*Key words: sedimentation model, depositional environment, electrometric model of facies, reservoir*