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**ANNEXE 4**

**FEUILLES DE CALCUL DE LA CONDUCTIVITÉ HYDRAULIQUE**



PROJECT		No: H-1587		MONIT. WELL : Forge F-101																																																																																																
LOCATION				Test No. 1																																																																																																
SOIL - DESCRIPTION (at the screen level):				GROUND: 105.58 m																																																																																																
ASSUMED PIEZOMETRIC LEVEL - DEPTH FROM THE GROUND				12.62 m																																																																																																
Elevation theorique d'eaux par le slug				$h_2 = 0.539$ m																																																																																																
TEST - Depth from the ground (center of gravel pack) , m				$h_1 = 14.53$ m																																																																																																
PIPE -DISTANCE FROM TOP TO GROUND , m				$h_3 = 0.56$ m																																																																																																
PIPE -SIZE: S		TOTAL LENGTH: 15.09 m		INT. DIA. OF INJ. PIPE d = 5.20 cm																																																																																																
SHAPE FACTOR		Seep/w c =		cm Hvorslev 281.54 cm																																																																																																
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CALCULATION OF K		RISING HEAD PERMEABILITY TEST																																																																																																		
Sinj = 21.237 cm <sup>2</sup>		<table border="1"> <thead> <tr> <th>Time</th> <th>h (m)</th> <th>H</th> <th>Hr</th> <th>In Hr</th> </tr> <tr> <td></td> <td>Depth from</td> <td>S-h</td> <td>H-Ho</td> <td></td> </tr> <tr> <td>min</td> <td>Top casing</td> <td>m</td> <td>cm</td> <td>—</td> </tr> </thead> <tbody> <tr><td>0.5</td><td>12.36</td><td>2.730</td><td>26.00</td><td>3.258</td></tr> <tr><td>1.0</td><td>12.45</td><td>2.640</td><td>17.00</td><td>2.833</td></tr> <tr><td>1.5</td><td>12.49</td><td>2.600</td><td>13.00</td><td>2.565</td></tr> <tr><td>2.0</td><td>12.52</td><td>2.570</td><td>10.00</td><td>2.303</td></tr> <tr><td>2.5</td><td>12.53</td><td>2.560</td><td>9.00</td><td>2.197</td></tr> <tr><td>3.0</td><td>12.57</td><td>2.520</td><td>5.00</td><td>1.609</td></tr> <tr><td>3.5</td><td>12.58</td><td>2.510</td><td>4.00</td><td>1.386</td></tr> <tr><td>4.0</td><td>12.6</td><td>2.490</td><td>2.00</td><td>0.693</td></tr> <tr><td>4.5</td><td>12.6</td><td>2.490</td><td>2.00</td><td>0.693</td></tr> <tr><td>5.0</td><td>12.6</td><td>2.490</td><td>2.00</td><td>0.693</td></tr> <tr><td>5.5</td><td>12.61</td><td>2.480</td><td>1.00</td><td>0.000</td></tr> <tr><td>6.0</td><td>12.62</td><td>2.470</td><td>0.00</td><td></td></tr> <tr><td>6.5</td><td>12.62</td><td>2.470</td><td>0.00</td><td></td></tr> <tr><td>7.0</td><td>12.62</td><td>2.470</td><td>0.00</td><td></td></tr> <tr><td>7.5</td><td>12.62</td><td>2.470</td><td>0.00</td><td></td></tr> <tr><td>8.0</td><td>12.62</td><td>2.470</td><td>0.00</td><td></td></tr> </tbody> </table>				Time	h (m)	H	Hr	In Hr		Depth from	S-h	H-Ho		min	Top casing	m	cm	—	0.5	12.36	2.730	26.00	3.258	1.0	12.45	2.640	17.00	2.833	1.5	12.49	2.600	13.00	2.565	2.0	12.52	2.570	10.00	2.303	2.5	12.53	2.560	9.00	2.197	3.0	12.57	2.520	5.00	1.609	3.5	12.58	2.510	4.00	1.386	4.0	12.6	2.490	2.00	0.693	4.5	12.6	2.490	2.00	0.693	5.0	12.6	2.490	2.00	0.693	5.5	12.61	2.480	1.00	0.000	6.0	12.62	2.470	0.00		6.5	12.62	2.470	0.00		7.0	12.62	2.470	0.00		7.5	12.62	2.470	0.00		8.0	12.62	2.470	0.00	
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PROJECT		No: H-1587		MONIT. WELL: Forage F-103		
LOCATION				Test	No. 1	
SOIL - DESCRIPTION (at the screen level):				ELEVATIONS		
Profondeur de la nappe		5.29 m	GROUND: 100.56 m			
Elevation theorique d'eaux par le slug			H0 mesuré: 12.10			
TEST - Depth from the ground (center of gravel pack) , m			h <sub>2</sub> = 0.539 m			
PIPE -DISTANCE FROM TOP TO GROUND , m			h <sub>1</sub> = 16.76 m			
-SIZE: S		TOTAL LENGTH: 17.39 m	h <sub>3</sub> = 0.63 m			
			INT. DIA. OF INJ. PIPE d = 5.20 cm			
SHAPE FACTOR		Seep/w	c =	cm	Hvorslev 281.54 cm	
Lefranc or		Hvorslev	c =	cm	L (cm) = 152.4 cm	
Bouwer and Rice		Bouwer and Rice	c =	cm	D (cm) = 10.16 cm	
CALCULATION OF K		RISING HEAD PERMEABILITY TEST				
Sinj = 21.237 cm <sup>2</sup>		Time	h (m)	H	Hr	ln Hr
CONSTANT C = Sinj/c			Depth from	S-h	H-Ho	
C = 7.54E-02 cm		min	Top casing	m	cm	
		0.5	5.01	12.380	28.00	3.332
		1.0	5.1	12.290	19.00	2.944
		1.5	5.13	12.260	16.00	2.773
		2.0	5.2	12.190	9.00	2.197
		2.5	5.22	12.170	7.00	1.946
		3.0	5.23	12.160	6.00	1.792
		3.5	5.23	12.160	6.00	1.792
		4.0	5.235	12.155	5.50	1.705
		4.5	5.25	12.140	4.00	1.386
		5.0	5.26	12.130	3.00	1.099
		6.0	5.27	12.120	2.00	0.693
		6.5	5.275	12.115	1.50	0.405
		7.0	5.29	12.100	0.00	
		9.0	5.29	12.100	0.00	
		9.5	5.3	12.090		
		10.0	5.3	12.090		
GRAPH ln Hr vs TIME						
P' = slope of the straight portion						
P' = -4.50E-01 min <sup>-1</sup>						
K = PC = 5.66E-04 cm/s						

PROJECT No: H-1587 MONIT. WELL: Forage F-104  
 LOCATION Test No. 1

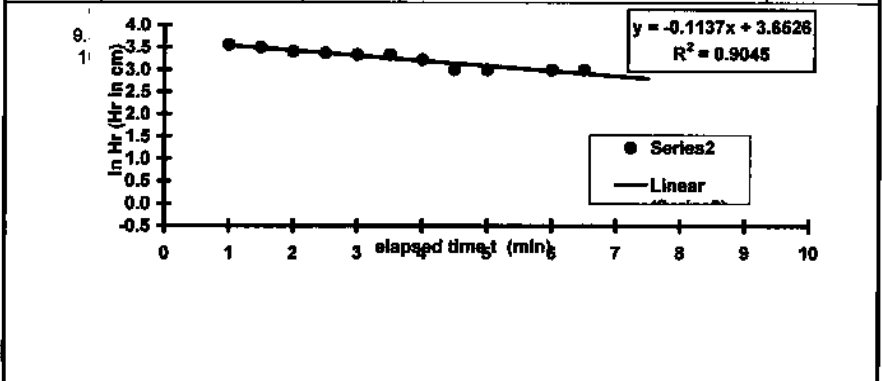
SOIL - DESCRIPTION (at the screen level): GROUND: 105.58 m  
 Profondeur de la nappe 3.60 m H0 mesuré: 11.20  
 Elevation theorique d'eaux par le slug  $h_2 = 0.539$  m  
 TEST - Depth from the ground (center of gravel pack) , m  $h_1 = 14.53$  m  
 PIPE -DISTANCE FROM TOP TO GROUND , m  $h_3 = 0.27$  m  
 -SIZE: S TOTAL LENGTH: 14.80 m INT. DIA. OF INJ. PIPE d = 5.20 cm

SHAPE FACTOR Seep/w c = cm Hvorslev 281.54 cm  
 Lefranc or Hvorslev c = cm L (cm) = 152.4 cm  
 Bouwer and Rice Bouwer and Rice c = cm D (cm) = 10.16 cm

CALCULATION OF K  
 $Sinj = 21.237$  cm<sup>2</sup>  
 CONSTANT C =  $Sinj/c$   
 $C = 7.54E-02$  cm

**RIISING HEAD PERMEABILITY TEST:**

Time	h (m)	H	Hr	In Hr
	Depth from	S-h	H-Ho	
min	Top casing	m	cm	
1.0	3.25	11.550	35.00	3.555
1.5	3.27	11.530	33.00	3.497
2.0	3.3	11.500	30.00	3.401
2.5	3.31	11.490	29.00	3.367
3.0	3.32	11.480	28.00	3.332
3.5	3.32	11.480	28.00	3.332
4.0	3.35	11.450	25.00	3.219
4.5	3.4	11.400	20.00	2.996
5.0	3.4	11.400	20.00	2.996
6.0	3.4	11.400	20.00	2.996
6.5	3.4	11.400	20.00	2.996



PROJECT		No: F-587		MONIT. WELL: Forage F-108		
LOCATION		Test	No. 1			
SOIL - DESCRIPTION (at the screen level):		ELEVATIONS				
Profondeur de la nappe		8.20 m	GROUND: 100.36 m			
Elevation theorique d'eaux par le slug			HO mesuré: 5.87			
TEST - Depth from the ground (center of gravel pack) , m			h <sub>2</sub> = 0.539 m			
PIPE -DISTANCE FROM TOP TO GROUND , m			h <sub>1</sub> = 13.72 m			
PIPE -SIZE: S		TOTAL LENGTH: 14.07 m	h <sub>3</sub> = 0.35 m			
			INT. DIA. OF INJ. PIPE d = 5.20 cm			
SHAPE FACTOR		Seep/w	c =	cm	Hvorslev 281.54 cm	
Lefranc or		Hvorslev	c =	cm	L (cm) = 152.4 cm	
Bouwer and Rice		Bouwer and Rice	c =	cm	D (cm) = 10.18 cm	
CALCULATION OF K		<b>RISING HEAD PERMEABILITY TEST</b>				
Sinj = 21.237 cm <sup>2</sup>		Time	h (m)	H	Hr	ln Hr
CONSTANT C = Sinj/c		min	Depth from	S-h	H-Ho	
C = 7.54E-02 cm			Top casing	m	cm	
		0.9	8.1	5.970	10.00	2.303
		1.4	8.15	5.920	5.00	1.609
		1.9	8.18	5.890	2.00	0.693
		2.4	8.19	5.880	1.00	0.000
		2.9	8.2	5.870	0.00	
		3.4	8.2	5.870	0.00	
		3.9	8.2	5.870	0.00	
		4.4				
		4.9				
		5.4				
		6.4				
		6.9				
		7.4				
		7.9				
		8.4				
		8.9				
GRAPH ln Hr vs TIME						
P' = slope of the straight portion						
P' = -1.61E+00 min <sup>-1</sup>						
K = P'C = 2.02E-03 cm/s						

PROJECT		No. H4587		MONIT. WELL: Forage F-106		
LOCATION				Test No. 1		
				ELEVATIONS		
SOIL - DESCRIPTION (at the screen level):				GROUND: 102.79 m		
ASSUMED PIEZOMETRIC LEVEL - DEPTH FROM THE GROUND 10.14 m				HO mesuré: 8.75		
Elevation theorique d'eaux par le slug				$h_2 = 0.539$ m		
TEST - Depth from the ground (center of gravel pack) , m				$h_1 = 18.29$ m		
PIPE -DISTANCE FROM TOP TO GROUND , m				$h_3 = 0.60$ m		
PIPE -SIZE: S		TOTAL LENGTH: 18.89 m		INT. DIA. OF INJ. PIPE $d = 5.20$ cm		
SHAPE FACTOR		Seep/w $c =$		cm Hvorslev 281.54 cm		
Lefranc or		Hvorslev $c =$		cm L (cm) = 152.4 cm		
Bouwer and Rice		Bouwer and Rice $c =$		cm D (cm) = 10.16 cm		
CALCULATION OF K		RISING HEAD PERMEABILITY TEST				
Sinj = 21.237 cm <sup>2</sup>		Time	h (m)	H	Hr	ln Hr
CONSTANT C = Sinj/c		min	Depth from	S-h	H-Ho	
C = 7.54E-02 cm			Top casing	m	cm	
		1.0	9.75	9.140	39.00	3.684
		1.5	9.78	9.110	36.00	3.584
		2.0	9.79	9.100	35.00	3.555
		2.5	9.81	9.080	33.00	3.497
		3.0	9.85	9.040	29.00	3.367
		3.5	9.88	9.010	26.00	3.258
		4.0	9.9	8.990	24.00	3.178
		4.5	9.9	8.990	24.00	3.178
		5.0	9.91	8.980	23.00	3.135
		6.0	9.92	8.970	22.00	3.091
		6.5	9.92	8.970	22.00	3.091
		7.0	9.97	8.920	17.00	2.833
		7.5	9.97	8.920	17.00	2.833
		8.0	9.99	8.900	15.00	2.708
		8.5	9.99	8.900	15.00	2.708
		9.0	10	8.890	14.00	2.639
		9.5	10.01	8.880	13.00	2.565
		10.0	10.02	8.870	12.00	2.485
		10.5	10.04	8.850	10.00	2.303
		11.0	10.04	8.850	10.00	2.303
		11.5	10.04	8.850	10.00	2.303
		12.0	10.08	8.830	8.00	2.079
		12.5	10.08	8.830	8.00	2.079
		13.0	10.08	8.830	8.00	2.079
		13.5	10.09	8.800	5.00	1.609
		14.0	10.085	8.785	4.50	1.504
GRAPH ln Hr vs TIME		14.5	10.1	8.790	4.00	1.386
P' = slope of the straight portion		15.0	10.1	8.790	4.00	1.386
P' = -1.97E-01 min <sup>-1</sup>		15.5	10.1	8.790	4.00	1.386
		16.0	10.1	8.790	4.00	1.386
		16.5	10.115	8.775	2.50	0.916
		17.0	10.115	8.775	2.50	0.916
K = P' C = 2.47E-04 cm/s		17.5	10.13	8.760	1.00	0.000
		18.0	10.13	8.760	1.00	0.000
		18.5	10.135	8.755	0.50	-0.693
		19.0	10.14	8.750	0.00	
		19.5	10.14	8.750	0.00	
		20.0	10.14	8.750	0.00	



PROJECT		No: H-1587		MONIT. WELL : Forage F-167		
LOCATION				Test No.		
SOIL - DESCRIPTION (at the screen level):				ELEVATIONS		
ASSUMED PIEZOMETRIC LEVEL - DEPTH FROM THE GROUND 8.40 m				GROUND: 102.47 m		
Elevation theorique d'eaux par le slug				H0 mesuré: 8.56		
TEST - Depth from the ground (center of gravel pack) , m				h <sub>2</sub> = 0.539 m		
PIPE - DISTANCE FROM TOP TO GROUND , m				h <sub>1</sub> = 16.76 m		
-SIZE: S TOTAL LENGTH: 16.96 m				h <sub>3</sub> = 0.20 m		
				INT. DIA. OF INJ. PIPE d = 5.20 cm		
SHAPE FACTOR		Seep/w c =		Hvorslev 281.54 cm		
Lefranc or		Hvorslev c =		L (cm) = 152.4 cm		
Bouwer and Rice		Bouwer and Rice c =		D (cm) = 10.16 cm		
<b>CALCULATION OF K</b>  Sinj = 21.237 cm <sup>2</sup>  CONSTANT C = Sinj/c C = 7.54E-02 cm		<b>RIISING HEAD PERMEABILITY TEST</b>				
		Time	h (m)	H	Hr	In Hr
			Depth from	S-h	H-Ho	
		min	Top casing	m	cm	
		0.5	7.95	8.010	45.00	3.807
		1.0	8	8.980	40.00	3.689
		1.5	8.02	8.940	38.00	3.638
		2.0	8.05	8.910	35.00	3.555
		2.5	8.1	8.860	30.00	3.401
		3.0	8.15	8.810	25.00	3.219
		3.5	8.14	8.820	26.00	3.258
4.0	8.18	8.780	22.00	3.081		
4.5	8.2	8.760	20.00	2.996		
5.0	8.2	8.760	20.00	2.996		
5.5	8.21	8.750	19.00	2.944		
6.0	8.22	8.740	18.00	2.890		
6.5	8.22	8.740	18.00	2.890		
7.0	8.23	8.730	17.00	2.833		
7.5	8.23	8.730	17.00	2.833		
8.0	8.23	8.730	17.00	2.833		
8.5	8.24	8.720	16.00	2.773		
9.0	8.27	8.690	13.00	2.565		
9.5	8.3	8.660	10.00	2.303		
10.0	8.31	8.650	9.00	2.197		
GRAPH In Hr vs TIME P' = slope of the straight portion  P' = -1.42E-01 min <sup>-1</sup>  K = P'C = 1.79E-04 cm/s						

PROJECT No: H-1587 MONIT. WELL : Forage F-108  
 LOCATION Test No.

SOIL - DESCRIPTION (at the screen level): ELEVATIONS  
 Profondeur de la nappe 5.50 m GROUND: 100.61 m  
 H0 mesuré: 13.52

Elevation theorique d'eaux par le slug  $h_2 = 0.539$  m  
 TEST - Depth from the ground (center of gravel pack) , m  $h_1 = 18.29$  m  
 PIPE -DISTANCE FROM TOP TO GROUND , m  $h_3 = 0.73$  m  
 -SIZE: S TOTAL LENGTH: 19.02 m INT. DIA. OF INJ. PIPE d = 5.20 cm

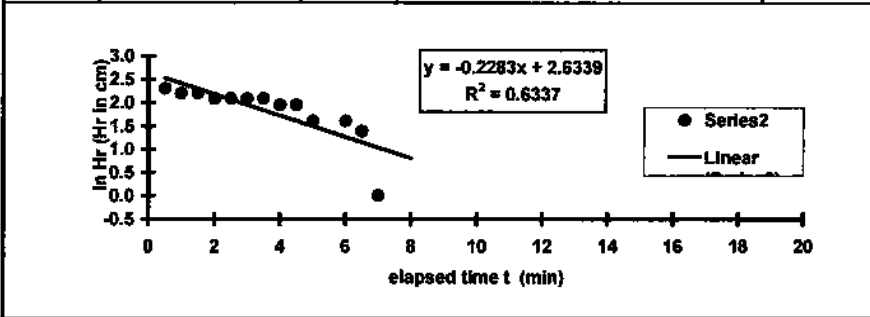
SHAPE FACTOR  
 Lefranc or Seep/w c = cm Hvorslev 281.54 cm  
 Bouwer and Rice Hvorslev c = cm L (cm) = 152.4 cm  
 Bouwer and Rice c = cm D (cm) = 10.16 cm

**CALCULATION OF K**  
 $S_{inj} = 21.237$  cm<sup>2</sup>  
 CONSTANT C =  $S_{inj}/c$   
 $C = 7.54E-02$  cm

**RISING HEAD PERMEABILITY TEST**

Time	h (m)	H	Hr	ln Hr
	Depth from	S-h	H-Ho	
min	Top casing	m	cm	
0.5	5.4	13.620	10.00	2.303
1.0	5.4	13.610	9.00	2.197
1.5	5.41	13.610	9.00	2.197
2.0	5.41	13.600	8.00	2.079
2.5	5.42	13.600	8.00	2.079
3.0	5.42	13.600	8.00	2.079
3.5	5.42	13.600	8.00	2.079
4.0	5.42	13.590	7.00	1.946
4.5	5.43	13.590	7.00	1.946
5.0	5.45	13.570	5.00	1.609
6.0	5.45	13.570	5.00	1.609
6.5	5.46	13.560	4.00	1.386
7.0	5.49	13.530	1.00	0.000
9.0	5.5	13.520	0.00	
9.5	5.5	13.520	0.00	
10.0	5.5	13.520	0.00	

GRAPH ln Hr vs TIME  
 $P'$  = slope of the straight portion  
 $P' = -2.28E-01$  min<sup>-1</sup>  
 $K = P'C = 2.87E-04$  cm/s





PROJECT No: H-1587 MONIT. WELL: Forage P-110

LOCATION Test No. 1

ELEVATIONS

SOIL - DESCRIPTION (at the screen level): GROUND: 100.26 m

Profondeur de la nappe 7.90 m H0 mesuré: 5.55

Elevation theorique d'eaux par le slug  $h_2 = 0.539$  m

TEST - Depth from the ground (center of gravel pack), m  $h_1 = 12.85$  m

PIPE -DISTANCE FROM TOP TO GROUND, m  $h_3 = 0.60$  m

PIPE SIZE: S TOTAL LENGTH: 13.45 m INT. DIA. OF INJ. PIPE d = 5.20 cm

SHAPE FACTOR Seep/w c = cm Hvorslev 281.54 cm

Lefranc or Hvorslev c = cm L (cm) = 152.4 cm

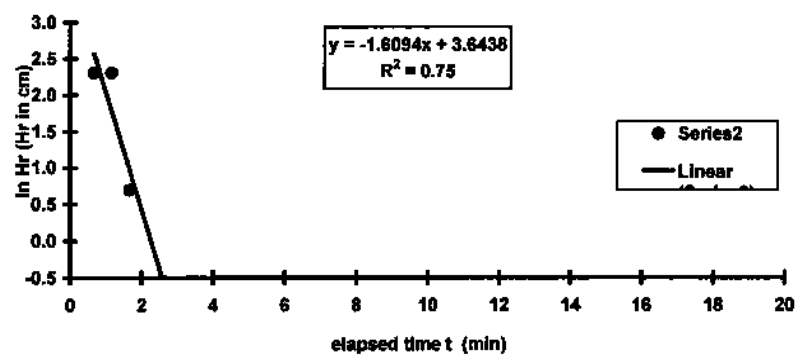
Bouwer and Rice Bouwer and Rice c = cm D (cm) = 10.16 cm

CALCULATION OF K RISING HEAD PERMEABILITY TEST

Time	h (m)	H	Hr	ln Hr
	Depth from	S-h	H-Ho	
min	Top casing	m	cm	
0.7	7.8	5.850	10.00	2.303
1.2	7.8	5.650	10.00	2.303
1.7	7.88	5.570	2.00	0.693
2.2	7.9	5.550	0.00	
2.7	7.9	5.550	0.00	
3.2	7.9	5.550	0.00	
3.7	7.9	5.550	0.00	
4.2	7.9	5.550	0.00	
4.7				
5.2				
5.7				
6.7				
7.2				
7.7				
8.2				

Sinj = 21.237 cm<sup>2</sup>  
 CONSTANT C = Sinj/c  
 C = 7.54E-02 cm

GRAPH ln Hr vs TIME  
 P' = slope of the straight portion  
 P' = -1.61E+00 min<sup>-1</sup>  
 K = P'C = 2.02E-03 cm/s



PROJECT		No: H-1587		MONIT. WELL: Forage F-111																																																																																											
LOCATION		Test		No. 1																																																																																											
SOIL - DESCRIPTION (at the screen level): Profondeur de la nappe				ELEVATIONS GROUND: 99.56 m H0 mesuré: 11.89																																																																																											
Elevation theorique d'eaux par le slug				$h_2 = 0.539$ m																																																																																											
TEST - Depth from the ground (center of gravel pack) , m				$h_1 = 18.29$ m																																																																																											
PIPE -DISTANCE FROM TOP TO GROUND , m				$h_3 = 0.55$ m																																																																																											
PIPE -SIZE: S		TOTAL LENGTH: 18.84 m		INT. DIA. OF INJ. PIPE d= 5.20 cm																																																																																											
SHAPE FACTOR		Seep/w c =		cm Hvorslev 281.54 cm																																																																																											
Lefranc or		Hvorslev c =		cm L (cm) = 152.4 cm																																																																																											
Bouwer and Rice		Bouwer and Rice c =		cm D (cm) = 10.16 cm																																																																																											
CALCULATION OF K		RISING HEAD PERMEABILITY TEST																																																																																													
Sinj = 21.237 cm <sup>2</sup>		<table border="1"> <thead> <tr> <th>Time</th> <th>h (m)</th> <th>H</th> <th>Hr</th> <th>ln Hr</th> </tr> <tr> <th></th> <th>Depth from</th> <th>S-h</th> <th>H-Ho</th> <th></th> </tr> <tr> <th>min</th> <th>Top casing</th> <th>m</th> <th>cm</th> <th></th> </tr> </thead> <tbody> <tr><td>0.8</td><td>6.9</td><td>11.940</td><td>5.00</td><td>1.609</td></tr> <tr><td>1.3</td><td>6.905</td><td>11.935</td><td>4.50</td><td>1.504</td></tr> <tr><td>1.8</td><td>6.91</td><td>11.930</td><td>4.00</td><td>1.396</td></tr> <tr><td>2.3</td><td>6.915</td><td>11.925</td><td>3.50</td><td>1.253</td></tr> <tr><td>2.8</td><td>6.915</td><td>11.925</td><td>3.50</td><td>1.253</td></tr> <tr><td>3.3</td><td>6.915</td><td>11.925</td><td>3.50</td><td>1.253</td></tr> <tr><td>3.8</td><td>6.92</td><td>11.920</td><td>3.00</td><td>1.099</td></tr> <tr><td>4.3</td><td>6.92</td><td>11.920</td><td>3.00</td><td>1.099</td></tr> <tr><td>4.8</td><td>6.93</td><td>11.910</td><td>2.00</td><td>0.693</td></tr> <tr><td>5.3</td><td>6.93</td><td>11.910</td><td>2.00</td><td>0.693</td></tr> <tr><td>5.8</td><td>6.935</td><td>11.905</td><td>1.50</td><td>0.405</td></tr> <tr><td>6.8</td><td>6.94</td><td>11.900</td><td>1.00</td><td>0.000</td></tr> <tr><td>7.3</td><td>6.95</td><td>11.890</td><td>0.00</td><td></td></tr> <tr><td>7.8</td><td>6.95</td><td>11.890</td><td>0.00</td><td></td></tr> <tr><td>8.3</td><td>6.95</td><td>11.890</td><td>0.00</td><td></td></tr> </tbody> </table>				Time	h (m)	H	Hr	ln Hr		Depth from	S-h	H-Ho		min	Top casing	m	cm		0.8	6.9	11.940	5.00	1.609	1.3	6.905	11.935	4.50	1.504	1.8	6.91	11.930	4.00	1.396	2.3	6.915	11.925	3.50	1.253	2.8	6.915	11.925	3.50	1.253	3.3	6.915	11.925	3.50	1.253	3.8	6.92	11.920	3.00	1.099	4.3	6.92	11.920	3.00	1.099	4.8	6.93	11.910	2.00	0.693	5.3	6.93	11.910	2.00	0.693	5.8	6.935	11.905	1.50	0.405	6.8	6.94	11.900	1.00	0.000	7.3	6.95	11.890	0.00		7.8	6.95	11.890	0.00		8.3	6.95	11.890	0.00	
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