

#9

1<sup>st</sup> Temp log  
4 day log2-4-85  
1:05 pm

cloudy &amp; cold ~ 35°F, windy

Depth	Res.	Temp.	$\Delta T$ Grad.	Depth	Res.	Temp.	$\Delta T$ Grad.
5	90.51	18.49		130	60.85	28.84	.33
10	83.30	20.68		135	60.06	29.17	.28
15	81.88	21.13	mult. by 200 ie	140	59.41	29.45	.38
20	81.04	21.40	.27 → 54	145	58.55	29.83	.21
25	80.21	21.67	.27 54	150	58.07	30.04	
30	79.29	21.97	.30 60	152	57.31	30.38	
35	78.67	22.18	.21				
40	77.90	22.44	.26				
45	76.71	22.84	.40				
50	75.71	23.18	.34				
55	74.94	23.45	.27				
60	74.27	23.68	.23				
65	73.56	23.93	.25				
70	72.95	24.15	.22				
75	72.20	24.42	.27				
80	69.89	25.26	.84				
85	68.66	25.72	.46				
90	67.71	26.08	.36				
95	66.54	26.53	.45				
100	65.44	26.96	.43				
105	64.50	27.34	.38				
110	63.49	27.74	.40				
115	62.82	28.02	.28				
120	61.90	28.40	.38				
125	61.31	28.64	.24				
			.20				

Hole #9

2nd Temp log  
(9 day log)

2-9-85  
1:05 pm

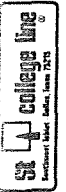
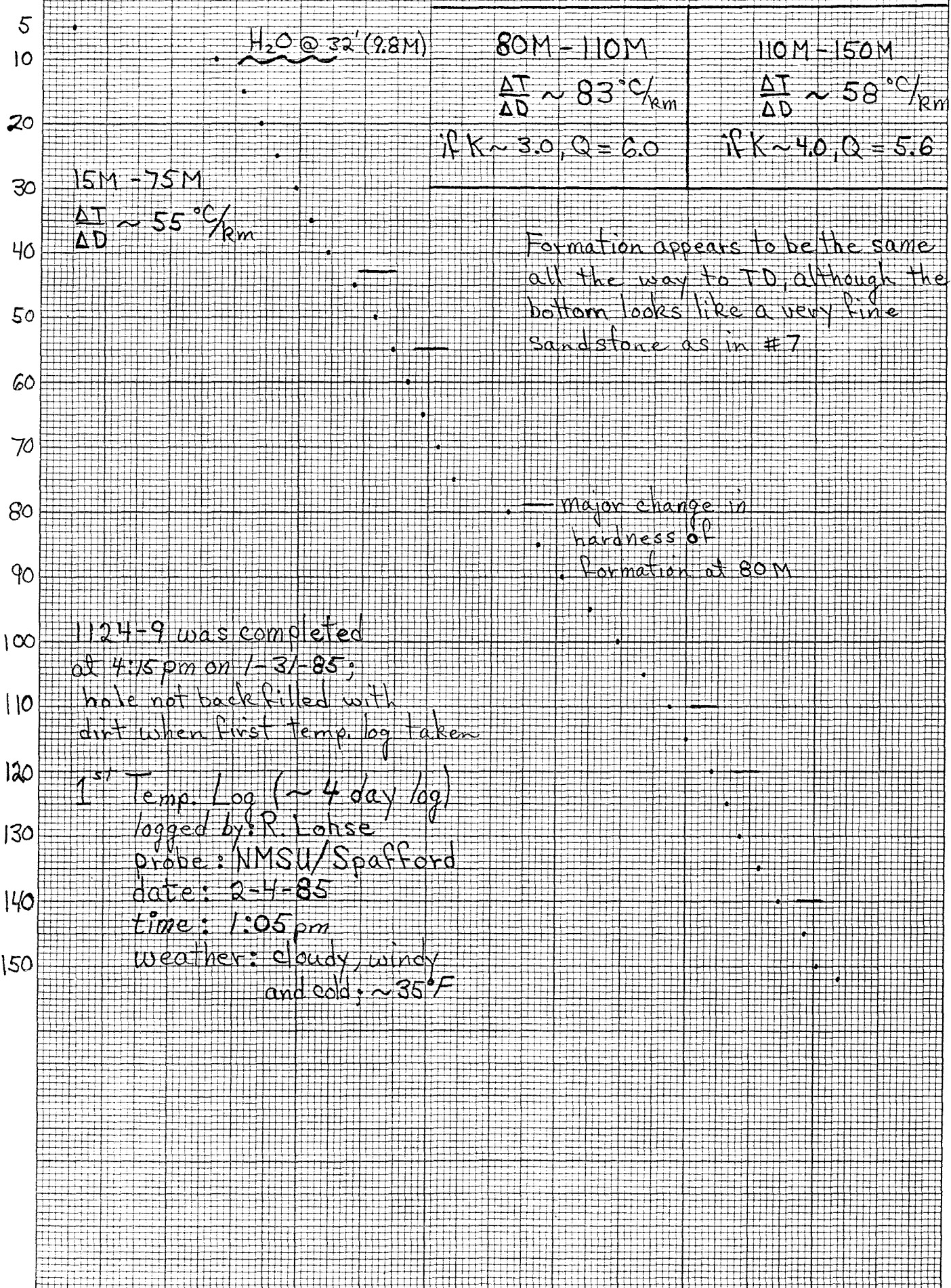
partly cloudy, breezy but warm  
~ 60°F

Depth	Res.	Temp.	$\Delta T$	Grad.	Depth	Res.	Temp.	$\Delta T$	Grad.
5M	89.18	18.88	2.52	504 $^{\circ}\text{C}/\text{km}$	130M	60.35	29.05	.33	66
10	81.05	21.40	.44	88	135	59.59	29.38	.27	54
15	79.70	21.84	.27	54	140	58.97	29.65	.31	62
20	78.88	22.11	.25	50	145	58.25	29.96	.28	56
25	78.14	22.36	.28	56	150	57.62	30.24	.35	175
30	77.29	22.64	.18	36	152.0	56.84	30.59		
35	76.78	22.82	.29	58					
40	75.92	23.11	.42	84					
45	74.71	23.53	.33	66					
50	73.76	23.86	.24	48					
55	73.09	24.10	.21	42					
60	72.49	24.31	.24	48					
65	71.82	24.55	.21	42					
70	71.24	24.76	.25	50					
75	70.56	25.01	.81	162					
80	68.40	25.82	.48	96					
85	67.15	26.30	.29	58					
90	66.38	26.59	.45	90					
95	65.24	27.04	.37	74					
100	64.31	27.41	.34	68					
105	63.48	27.75	.37	74					
110	62.56	28.12	.25	50					
115	61.97	28.37	.32	64					
120	61.21	28.69	.19	38					
125	60.74	28.88	.17	34					

# Centigrade

18      20      22      24      26      28      30      32

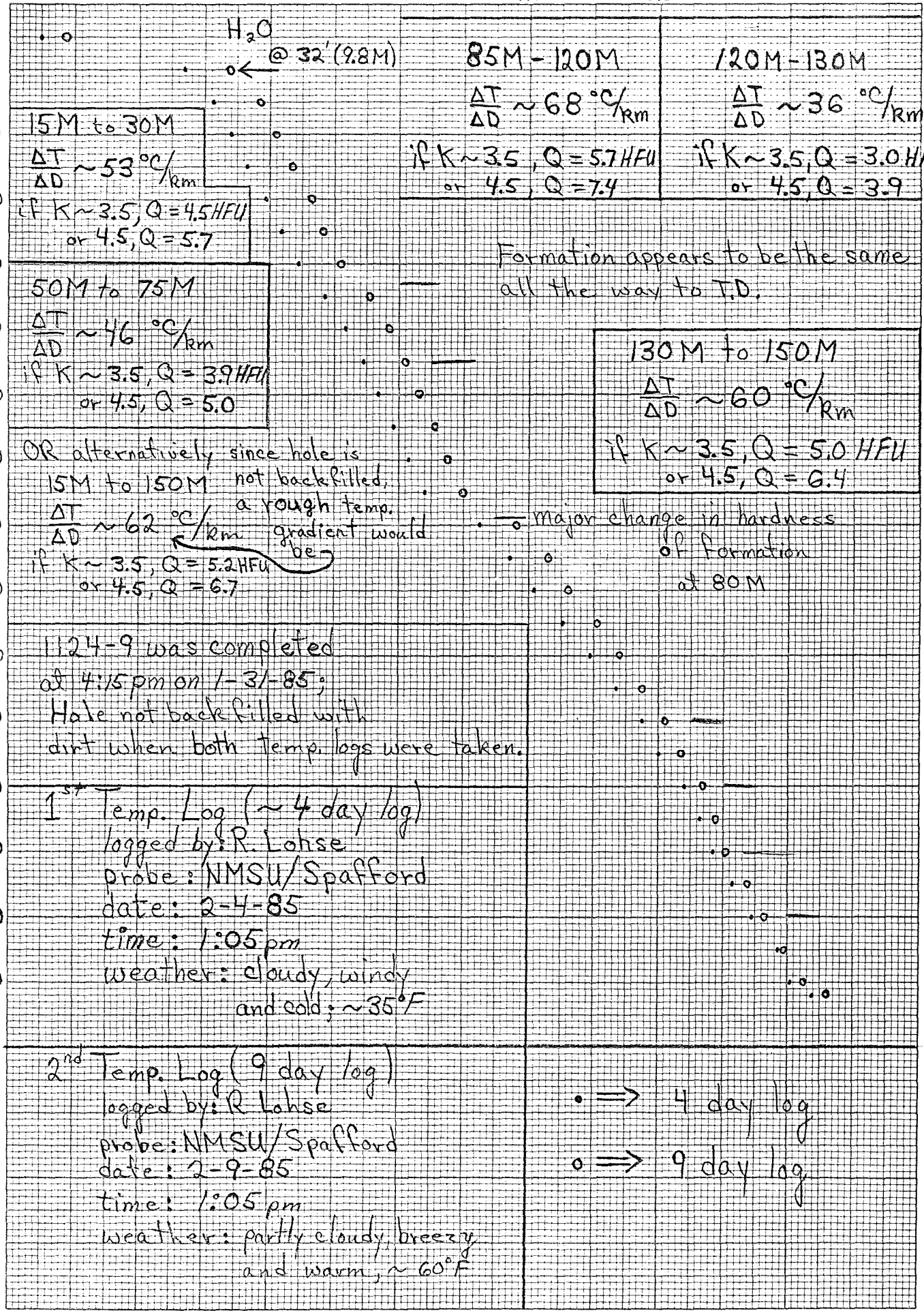
25120  
Meters



# Centigrade

18      20      22      24      26      28      30      32

Meters



H<sub>2</sub>O @ 32' (9.8M)

85M - 120M	120M - 130M
$\frac{\Delta T}{\Delta D} \sim 68^\circ\text{C}/\text{km}$	$\frac{\Delta T}{\Delta D} \sim 36^\circ\text{C}/\text{km}$
if $K \sim 3.5, Q = 5.7 \text{ HFU}$ or $4.5, Q = 7.4$	if $K \sim 3.5, Q = 3.0 \text{ HFU}$ or $4.5, Q = 3.9$

15M to 30M  
 $\frac{\Delta T}{\Delta D} \sim 53^\circ\text{C}/\text{km}$   
if  $K \sim 3.5, Q = 4.5 \text{ HFU}$   
or  $4.5, Q = 5.7$

50M to 75M  
 $\frac{\Delta T}{\Delta D} \sim 46^\circ\text{C}/\text{km}$   
if  $K \sim 3.5, Q = 3.9 \text{ HFU}$   
or  $4.5, Q = 5.0$

130M to 150M  
 $\frac{\Delta T}{\Delta D} \sim 60^\circ\text{C}/\text{km}$   
if  $K \sim 3.5, Q = 5.0 \text{ HFU}$   
or  $4.5, Q = 6.4$

OR alternatively since hole is 15M to 150M not back-filled, a rough temp. gradient would be  
 $\frac{\Delta T}{\Delta D} \sim 62^\circ\text{C}/\text{km}$   
if  $K \sim 3.5, Q = 5.2 \text{ HFU}$   
or  $4.5, Q = 6.7$

Formation appears to be the same all the way to T.D.

Major change in hardness of formation at 80M

1124-9 was completed at 4:15 pm on 1-31-85; Hole not back-filled with dirt when both temp. logs were taken.

1<sup>st</sup> Temp. Log (~ 4 day log) logged by: R. Lohse  
probe: NMSU/Spafford  
date: 2-4-85  
time: 1:05 pm  
weather: cloudy, windy and cold; ~ 35°F

2<sup>nd</sup> Temp. Log (9 day log) logged by: R. Lohse  
probe: NMSU/Spafford  
date: 2-9-85  
time: 1:05 pm  
weather: partly cloudy, breezy and warm, ~ 60°F

• ⇒ 4 day log  
○ ⇒ 9 day log

