

1124-7'

1<sup>st</sup> Temp. log  
(4 day log)

1-29-85  
11:05 am

Sunny, cool & windy ~ 45-50°F

Depth	Res. Temp.	ΔT	Grad.
5 M	88.00 <sup>(air)</sup>	19.24	
10	88.82 <sup>(air)</sup>	18.99	
15	88.65 <sup>(air)</sup>	19.04	
20	87.90 <sup>(air)</sup>	19.27	
25	86.71 <sup>good reading water</sup>	19.62	
30	86.08	19.82	
35	85.65	19.95	
40	85.36	20.04	
45	85.20	20.09	
50	84.83	20.20	
55	84.17	20.41	
60	83.98	20.47	
65	83.70	20.56	
70	79.15	22.02	
75	76.35	22.96	
80	74.66	23.55	
85	72.91	24.16	
90	71.11	24.81	
95	69.96	25.23	
100	68.05	25.95	
105	66.83	26.42	
110	65.98	26.75	
115	65.29	27.02	
120	64.35	27.40	
125	63.84	27.60	

mult. by 200  
ie  
.23 → 46  
.35 → 70  
.20 → 40

jump →

Depth	Res. Temp.	ΔT	Grad.
130 M	62.22	28.26	.32
135	61.46	28.58	.33
140	60.68	28.91	.34
145	59.88	29.25	.32
150	59.14	29.57	
1530	58.75	29.74	

Hole #  
7

2<sup>nd</sup> Temp log  
(17 day log)

2-11-85  
2:05pm

Sunny, warm - 60°F

Depth	Res.	Temp.	ΔT	Grad.	Depth	Res.	Temp.	ΔT	Grad.
5M	88.77	19.00°C			130M	61.67	28.49		
10	87.80	19.30	.30	60 °C/km	135	60.88	28.82	.33	66 °C/km
15	87.04	19.52	.22	44	140	60.13	29.14	.32	64
20	85.98	19.85	.33	66	145	59.33	29.49	.35	70
25	85.10	20.12	.27	54	150	58.58	29.82	.33	66
30	84.45	20.32	.20	40	152.5	58.13	30.01	.19	
35	84.36	20.35	+03	6					
(39)	(84.28)	(20.37)	-01	-2					
40	84.38	20.34							
45	84.15	20.41	.07	14					
50	83.84	20.51	.10	20					
55	82.91	20.81	.30	60					
56.5m (82.70) (20.87)			.07	14					
58.0m (82.80) (20.84)			.14	28					
60	82.64	20.88	0.14	28					
65	82.23	21.02	1.54	308					
70	77.54	22.56	1.86	372					
75	72.18	24.42	.60	120					
80	70.55	25.02	.58	116					
85	68.98	25.60	.56	112					
90	67.51	26.16	.35	70					
95	66.60	26.51	.23	46					
100	66.00	26.74	.29	58					
105	65.27	27.03	.24	48					
110	64.67	27.27	.23	46					
115	64.10	27.50	.29	58					
120	62.38	27.79	.35	70					
125	62.52	28.14	.35	70					

Centigrade

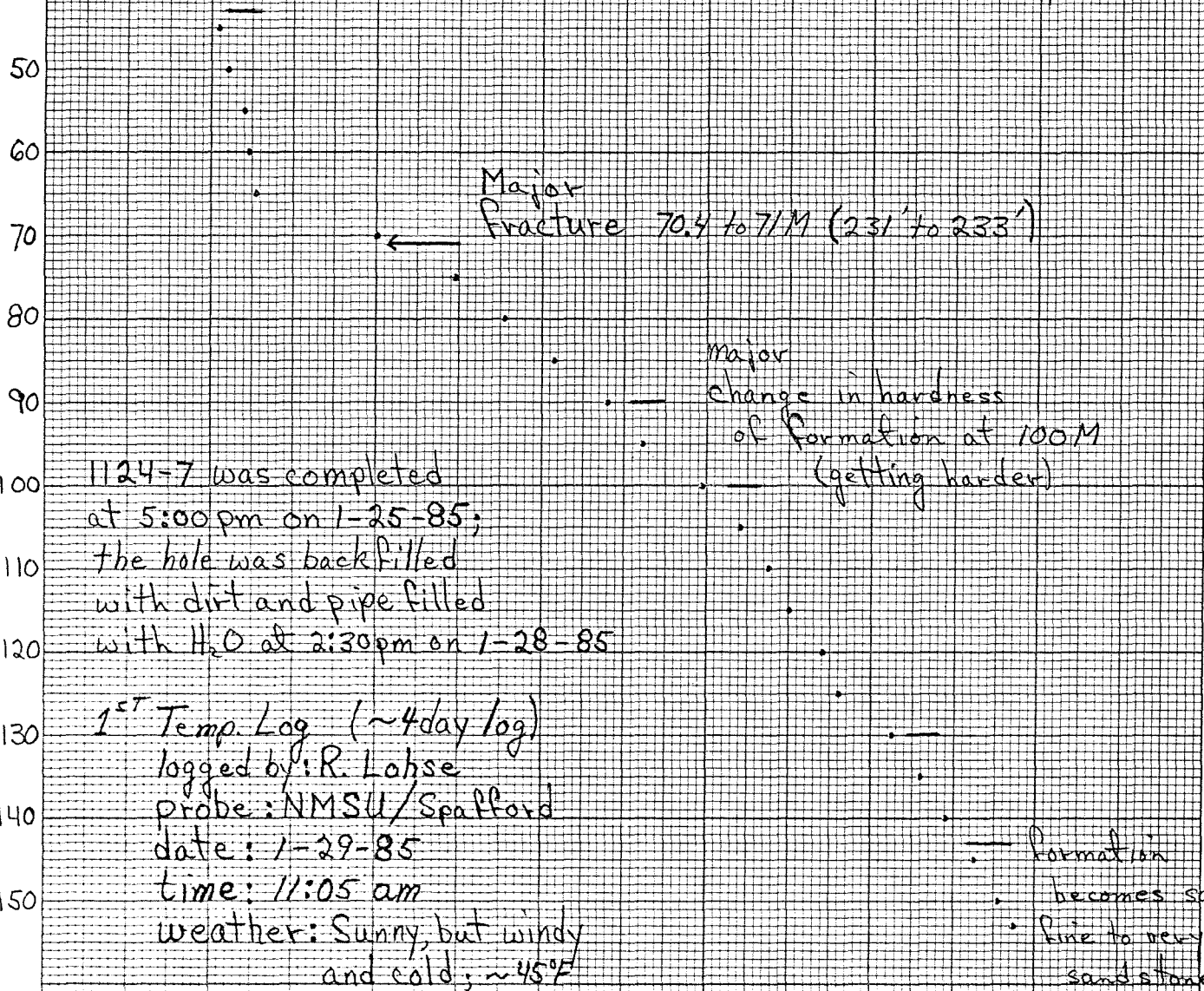
18 20 22 24 26 28 30 32

70M - 100M	100M - 150M
$\frac{\Delta T}{\Delta D} \sim 131^\circ\text{C}/\text{km}$	$\frac{\Delta T}{\Delta D} \sim 72^\circ\text{C}/\text{km}$
if $K \sim 3.0, Q = 9.4 \text{ HFU}$	if $K \sim 4.0, Q = 6.9 \text{ HFU}$

Formation appears to be the same down to ~140M (volcanic breccia)

From 140 to 150M appears to be a fine to very fine sandstone

Meters 25120



1124-7 was completed at 5:00 pm on 1-25-85; the hole was backfilled with dirt and pipe filled with H<sub>2</sub>O at 2:30 pm on 1-28-85

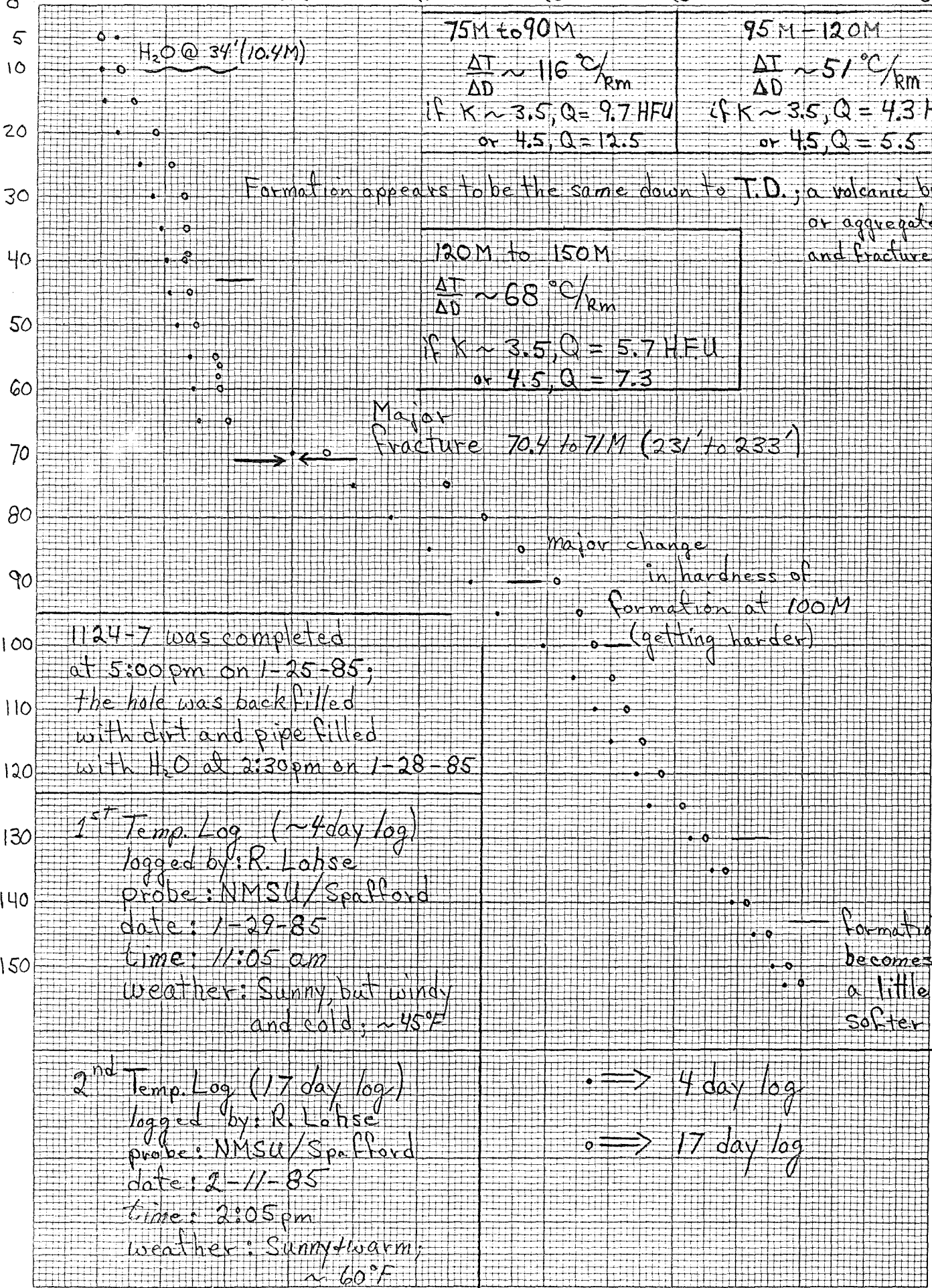
1<sup>st</sup> Temp. Log (~4 day log) logged by: R. Lohse  
 probe: NMSU/Spafford  
 date: 1-29-85  
 time: 11:05 am  
 weather: Sunny, but windy and cold; ~45°F

Formation becomes softer, fine to very fine sandstone



# Centigrade

18                      20                      22                      24                      26                      28                      30                      32



H<sub>2</sub>O @ 34' (10.4M)

75M to 90M

95M - 120M

$$\frac{\Delta T}{\Delta D} \sim 116 \text{ } ^\circ\text{C/Rm}$$

$$\frac{\Delta T}{\Delta D} \sim 51 \text{ } ^\circ\text{C/Rm}$$

if K ~ 3.5, Q = 9.7 HFU  
or 4.5, Q = 12.5

if K ~ 3.5, Q = 4.3 HFU  
or 4.5, Q = 5.5

Formation appears to be the same down to T.D.; a volcanic breccia or aggregate, hard and fractured

120M to 150M

$$\frac{\Delta T}{\Delta D} \sim 68 \text{ } ^\circ\text{C/Rm}$$

if K ~ 3.5, Q = 5.7 HFU  
or 4.5, Q = 7.3

Major Fracture 70.4 to 71M (231' to 233')

major change in hardness of formation at 100M (getting harder)

1124-7 was completed at 5:00 pm on 1-25-85; the hole was backfilled with dirt and pipe filled with H<sub>2</sub>O at 2:30 pm on 1-28-85

1<sup>st</sup> Temp. Log (~4 day log) logged by: R. Lohse probe: NMSU/Spafford date: 1-29-85 time: 11:05 am weather: Sunny, but windy and cold; ~45°F

Formation becomes a little softer

2<sup>nd</sup> Temp. Log (17 day log) logged by: R. Lohse probe: NMSU/Spafford date: 2-11-85 time: 2:05 pm weather: Sunny + warm; ~60°F

⇒ 4 day log  
⇒ 17 day log

Meters

25120

