

A00040

TEC-21

Best. Thermal Data Field
Wells #2-23. Temperature Depth
Logs. Utah.

V.H. 2 dup

NOW # 125

of

TEMPERATURE - DEPTH LOG

1000 MDT

Location 0.5 MILE S. OF L. RANCH CANYON RD. Date 18-JULY

Map ADAMSVILLE VT. 15"

Property BEST T 27S R 9W sec 32 NW 1/4 NE 1/4

Drill Hole BLACKWELL # 2 Date Drilled _____ Elevation 5800 ft.

Instrument _____ Operator JED

Comments 1" STEEL PIPE. VON HOENE GRADIENT HOLE

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient		Comments
				°C/Km	Avg.	
0.5	4328					
1.0	4339	20.17				
1.5	4705	18.09				
2.0	5098	16.06				
2.5	5408	14.59				
3.0	5672	13.40				
3.5	5853	12.63				
4.0	5984	12.09				
4.5	6073	11.73				
5.0	6116	11.55				
5.5	6130	11.50				
6.0	6120	11.54	0.04			
6.5	6094	11.64	0.10			
7.0	6055	11.80	0.16			
7.5	6010	11.98	0.18			
8.0	5970	12.15	0.17			
8.5	5935	12.29	0.14			
9.0	5907	12.41	0.12			
9.5	5880	12.52	0.11			
10.0	5860	12.60	0.08			
10.5	5841	12.68	0.08			

TEMPERATURE - DEPTH LOG

Location _____ Date 18-JULY-76

Map _____

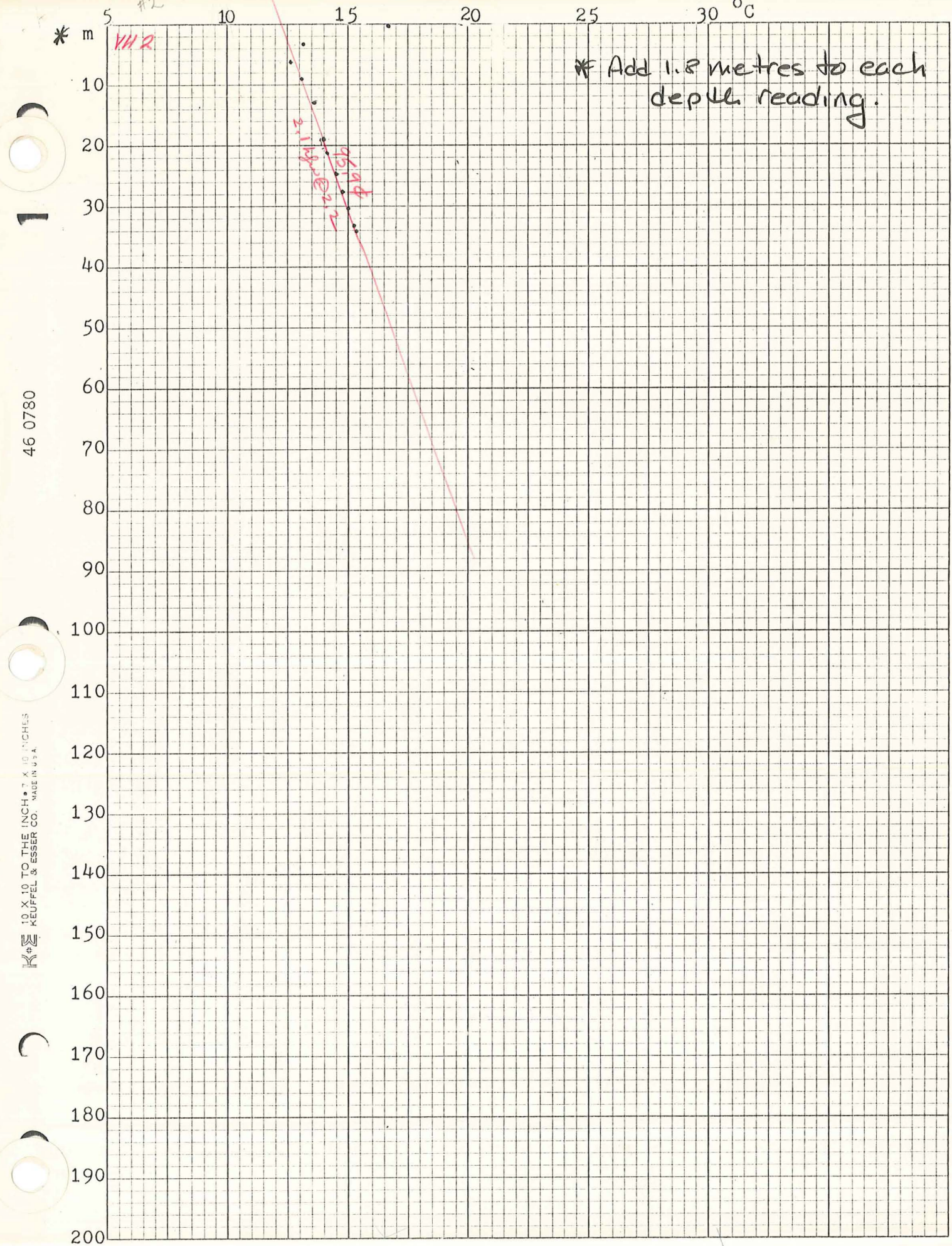
Property _____ T 275 R 9W sec 32 NW 1/4 NE 1/4

Drill Hole BLACKWELL #2 Date Drilled _____ Elevation _____ ft.

Instrument _____ Operator _____

Comments _____

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient		Comments
				°C/Km	Avg.	
11.0	5825	12.75	0.07			
11.5	5810	12.81	0.06			
12.0	5795	12.88	0.07			
12.5	5782	12.93	0.05			
13.0	5770	12.98	0.05			
13.5	5763	13.01	0.03			
14.0	5757	13.04	0.03			
14.5	5749	13.07	0.03			
15.0	5742	13.10	0.03			
15.5	5735	13.13	0.03			
16.0	5728	13.16	0.03			
16.5	5720	13.20	0.04			
17.0	5713	13.23	0.03			
17.5	5706	13.26	0.03			
18.0	5698	13.29	0.03			
18.5	5689	13.33	0.04			
19.0	5679	13.37	0.04			
19.5	5669	13.42	0.05			
20.0	5657	13.47	0.05			
22	5611	13.67	0.20			CHANGE INTERVAL
24	5575	13.83	0.16			



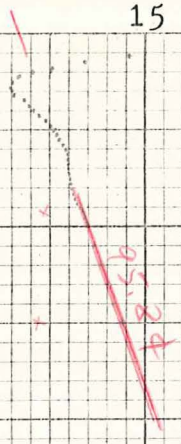
46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

m 5 10 15 20 25 30 °C

BL-2

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200



46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

Date Logged: _____

 ΔT Well No. 3

feet

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		68.0					
16.0		60.3					
26.0		60.5					
36.0		62.5					
46.0		64.9					
56.0		67.0					
66.0		68.1					
76.0		70.0					
86.0		71.5					
96.0		73.0					
106.0		74.5					
116.0		76.0					
126.0		78.0					
136.0		80.0					
146.0		78.6					
156.0		79.3					
166.0		80.1					
176.0		80.9					
186.0		81.2					
196.0		82.2					
206.0		82.9					
216.0		83.0					
226.0		83.6					
236.0		84.0					
246.0		84.6					
256.0		85.0					
266.0		85.2					

K=Conductivity

Date Logged: _____

ΔT Well No. #3

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
276.0		85.8					
286.0		86.0					
296.0		86.0					
306.0		86.6					
316.0		86.9					
326.0		87.1					
336.0		87.4					
346.0		87.9					
356.0		88.1					
366.0		88.4					
376.0		88.8					
386.0		89.0					
396.0		89.4					
406.0		89.8					
416.0		90.2					
426.0		90.4					
436.0		90.7					
446.0		91.0					
456.0		91.3					
466.0		91.7					
476.0		91.9					
486.0		92.2					
496.0		92.5					
506.0		92.8					
516.0		93.0					
526.0		93.4					
536.0		93.7					

K=Conductivity

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 3 LOCATION SEC 10 T25 R10N DATE 10/2/73

AIR TEMPERATURE 70°F

DEPTH	TEMP °F	DEPTH	TEMP	DEPTH	TEMP
0**	68 20°	76.2	250 85 .4 29.4	152.4	92.8 .3 33.8
3.0	10 60.3	15.7	79.3 60 85.2 .2 29.6	155.5	93 .2 33.9
6.1	20 60.5	15.8	82.3 70 85.8 .6 29.9 3.9	158.5	93.4 .4 34.1
9.1	30 62.5	16.9	85.4 80 86 .2 30.	161.6	93.7 .3 34.3
12.2	40 64.9	18.3	88.4 90 86 0 30.	164.6	94 .3 34.4
15.2	50 67	19.4	91.5 300 86.6 .6 30.3	167.7	94.2 .2 34.6
18.3	60 68.1	16.2	94.5 10 86.9 .3 30.5	170.7	94.6 .4 34.8
21.3	70 70/68.3	20.1	97.6 20 87.1 .2 30.6	173.8	94.9 .3 34.9
24.4	80 71.5/69.7	20.8	100.6 30 87.4 .3 30.8	176.8	95.1 .2 35.1
27.4	90 73/71.1	21.6	103.7 40 87.9 .5 31.1	179.9	95.4 .3 35.2
30.5	100 74.5/73	22.4	106.7 50 88.1 .2 31.2	182.9	95.7 .3 35.4
33.5	10 76/74.8	23.4	109.8 60 88.4 .3 31.3	186.0	96 .3 35.6
36.6	20 78/76.2	24.3	112.8 70 88.8 .4 31.1	189.0	96.2 .2 35.7
39.6	30 80/77.9	25.3	115.9 80 89 .2 31.7	192.1	96.6 .4 35.9
42.7	40 78.6	26.3	118.9 90 89.4 .4 31.9	195.1	97 .4 36.1
45.7	50 79.3	26.7	122.0 400 89.8 .4 32.2	645	97
48.8	60 80.1	27.2	125 10 90.2 .4 32.3		60
51.8	70 80.9	27.3	128 20 90.4 .2 32.4		70
54.9	80 81.2	27.9	131.1 30 90.7 .3 32.6		80
57.9	90 82.2	28.3	134.1 40 91 .3 32.8		90
61.0	200 82.9	28.3	137.2 50 91.3 Red clay 32.9		700
64.0	10 83	28.3	140.2 60 91.7 .4 33.2		10
67.1	20 83.6	28.7	143.3 70 91.9 .2 33.3		20
70.1	30 84	28.9	146.3 80 92.2 .3 33.4		30
73.2	40 84.6	29.2	149.4 90 92.5 .3 33.6		40

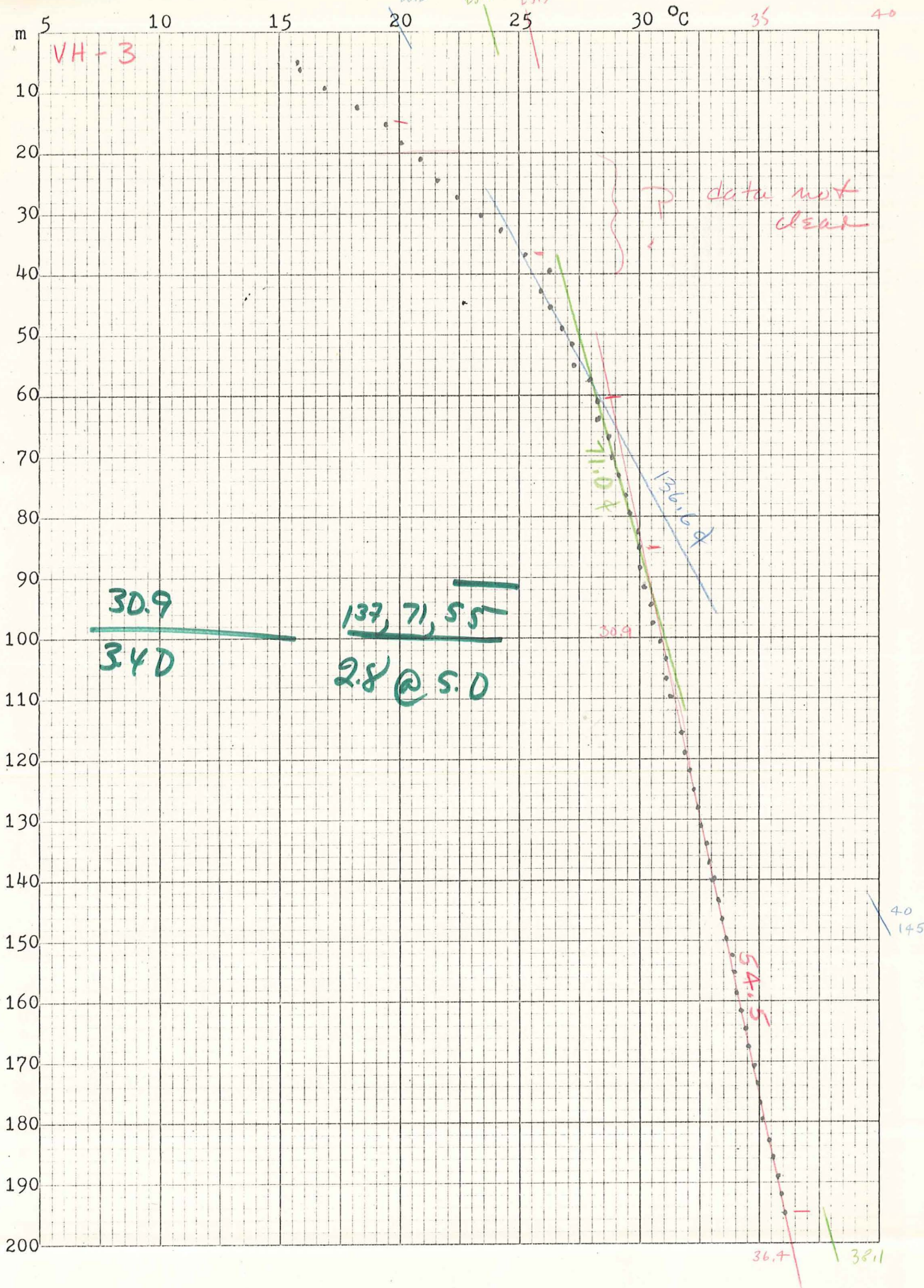
SHIFT TO MID RANGE OF instrument

27.4 30.5
ZWT in pe ->

MID RANGE ONLY

10 X 10 TO THE INCH • X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 0780



VH-3

data not clear

30.9
34D

137, 71, 55
2.8 @ 5.0

30.9

40.16

136.6 d

40
145

54.5

36.4

38.1

20.2

23.9

25.5

40

TEMPERATURE DEPTH LOG

ΔT Well No. 4

Property-Project BEST Depth Logged _____

Map _____ Scale _____ Date: Drilled _____ Logged _____

State _____ County _____ Section _____ T _____ R _____

Instrument _____ Operator _____ Elevation _____ ft.

Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No				Well No						Date Logged			FF							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	*
7	5	5								4	0	3	0	0	7	3				CM

* 19 - Write F if Fahrenheit, 20 - Write F if Feet

Site Description																																																		Operator					Editor				
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																				
7.5 KM ESE OF MURDOCK, UTAH																																																		JVN					MLN				

7.5 KM ESE MURDOCK, UO IS

Card B

Scale Unit		Map Size		N Lat		W Long																							
in	cm	(7.5, 15, 60)	Degree	Min	Degree	Min																							
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
CM		7.5	38.	22.5	113.	00.																							

Use decimals

Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W, -) (E, +)

Northing					Easting					Elev																			
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
					44.5					34.6	5	20.																	

Write M if meters

44.4 Use decimals 36.0 / 5350. ok stat

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	96.0	226.0		
D	416.0	560.0	-5.0	-1.5
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	266.0	416.0		
D	.999			
E				
F				
G				

Final Segment: Start = .999

Date Logged: _____

ΔT Well No. 4

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		63.5					
16.0		59.2					
26.0		59.6					
36.0		61.3					
46.0		63.0					
56.0		64.7					
66.0		66.1					
76.0		67.7					
86.0		68.8					
96.0		69.9					
106.0		69.1					
116.0		70.1					
126.0		71.1					
136.0		72.7					
146.0		73.9					
156.0		75.2					
166.0		76.1					
176.0		77.3					
186.0		78.1					
196.0		79.1					
206.0		80.1					
216.0		81.0					
226.0		82.0					
236.0		82.7					
246.0		83.3					
256.0		84.5					
266.0		85.3					

K=Conductivity

page 1 of 3

Date Logged: _____

 ΔT Well No. _____

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Atr	Lithology, etc.
276.0		86.1					
286.0		87.0					
296.0		87.9					
306.0		88.8					
316.0		89.7					
326.0		90.8					
336.0		91.9					
346.0		92.9					
356.0		93.8					
366.0		94.7					
376.0		95.4					
386.0		96.3					
396.0		97.2					
406.0		98.1					
416.0		99.0					
426.0		99.8					
436.0		100.2					
446.0		101.0					
456.0		101.5					
466.0		102.0					
476.0		102.4					
486.0		103.0					
496.0		103.4					
506.0		104.0					
516.0		104.5					
526.0		105.2					
536.0		105.9					

K=Conductivity

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 4 LOCATION SEC 7, T27S R4W
 AIR TEMPERATURE 48°F

DATE 10/3/73
CJVH

DEPTH	TEMP °F	DEPTH	TEMP	DEPTH	TEMP
1.8 0**	63.5	250	84.5	500	104
4.9 10	59.2	60	85.3	10	104.5
7.9 20	59.6	70	86.1	20	105.2
11.0 30	61.3	80	87	30	105.9
14.0 40	63	90	87.9	40	106.2
50	64.7	300	88.8	50	106.7
60	66.1	10	89.7	60	106.8
70	67.7	20	90.8	70	
80	68.8	30	91.9	80	
90	69.9 / 68.1	40	92.9	90	
100	69.1	50	93.8	600	
10	70.1	60	94.7	10	
20	71.1	70	95.4	20	
30	72.7	80	96.3	30	
40	73.9	90	97.2	40	
50	75.2	400	98.1	50	
60	76.1	10	99	60	
70	77.3	20	99.8	70	
80	78.1	30	100.2	80	
90	79.1	40	101	90	
200	80.1	50	101.5	700	
10	81	60	102	10	
20	82	70	102.4	20	
30	82.7	80	103	30	
40	83.3	90	103.4	40	

T to MID RANGE
 H₂O LEVEL in PIPE

11.7

12

8.7

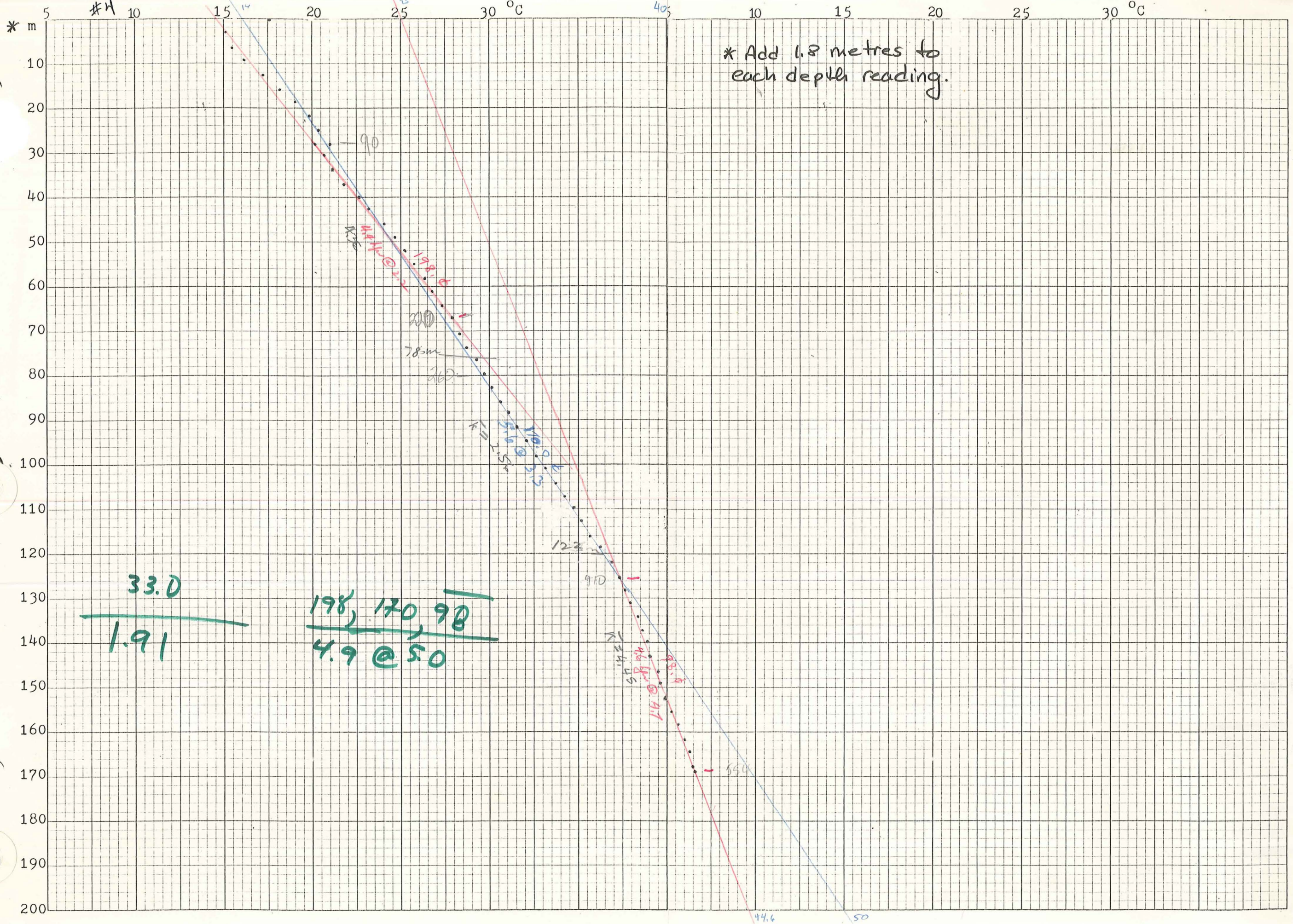
9.3

5.6

554

46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



* Add 1.8 metres to each depth reading.

33.0

 1.91

198, 170, 98

 4.9 @ 50

44.6

50

TEMPERATURE DEPTH LOG

ΔT Well No. 6

Property-Project BEST Depth Logged _____
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No				Well No						Date Logged			FF							
→				→						DA	MO	YR	*							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
7	5	5								6	02		00		73				CM	

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																																		Operator					Editor				
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																				
3.0 KM NW OF BAILEY MOUNTAIN																																																		JVM					MLH				

3.5 KM NW BAILEY MT, UU 20

Card B

Scale Unit		Map Size		Map Location		N Lat		W Long																					
in	cm	(7.5, 15., 60)		Degree	Min	Degree	Min																						
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
CM					15.					38.					15.					113.					00.				

Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W, -) (E, +)

Northing					Easting					Elev																			
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
					42.0										22.9					6390.									F

Write M if meters

42.5 Use decimals 23.0 6390.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	76.0	116.0		
D	246.0	322.0	-5.0	-1.5
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	86.0	246.0		
D	.999			
E				
F				
G				

Final Segment: Start = .999

Date Logged: _____

ΔT Well No. 6

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		62.9					
16.0		55.3					
26.0		55.6					
36.0		57.0					
46.0		58.5					
56.0		59.8					
66.0		60.8					
76.0		61.7					
86.0		62.7					
96.0		63.8					
106.0		64.7					
116.0		65.6					
126.0		66.5					
136.0		67.3					
146.0		68.3					
156.0		69.2					
166.0		70.0					
176.0		69.0					
186.0		69.8					
196.0		70.2					
206.0		71.0					
216.0		71.7					
226.0		72.1					
236.0		72.8					
246.0		73.2					
256.0		73.9					
266.0		74.3					

K=Conductivity

page _____ of _____

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 6 LOCATION Sec 2 T25 R4W
 AIR TEMPERATURE 71°F

DATE 10/2/73
CIVIL

DEPTH	TEMP °F	DEPTH	TEMP	DEPTH	TEMP
0**	62.9	250	73.4 .7	500	
10	55.3	60	74.3 .4	10	
20	55.6 .3	70	74.9 .6	20	
30	57 .4	80	75.2 .3	30	
40	58.5 .15	90	75.7 .5	40	
50	59.8 .3	300	76 .3	50	
60	60.8 .10	10	76.5 .5	60	
70	61.7 .9	20	77.2 .7	70	
80	62.7 .10	30		80	
90	63.8 .11	40		90	
100	64.7 .9	50		600	
10	65.6 .9	60		10	
20	66.5 .9	70		20	
30	67.3 .8	80		30	
40	68.3 .10	90		40	
50	69.2 .9	400		50	
60	70 .8	10		60	
70	70.3/69 .3	20		70	
80	69.8 .8	30		80	
90	70.2 .4	40		90	
200	71 .8	50		700	
10	71.7 .7	60		10	
20	72.1 .4	70		20	
30	72.8 .7	80		30	
40	73.2 .4	90		40	

120 LEVEL
 in pipe

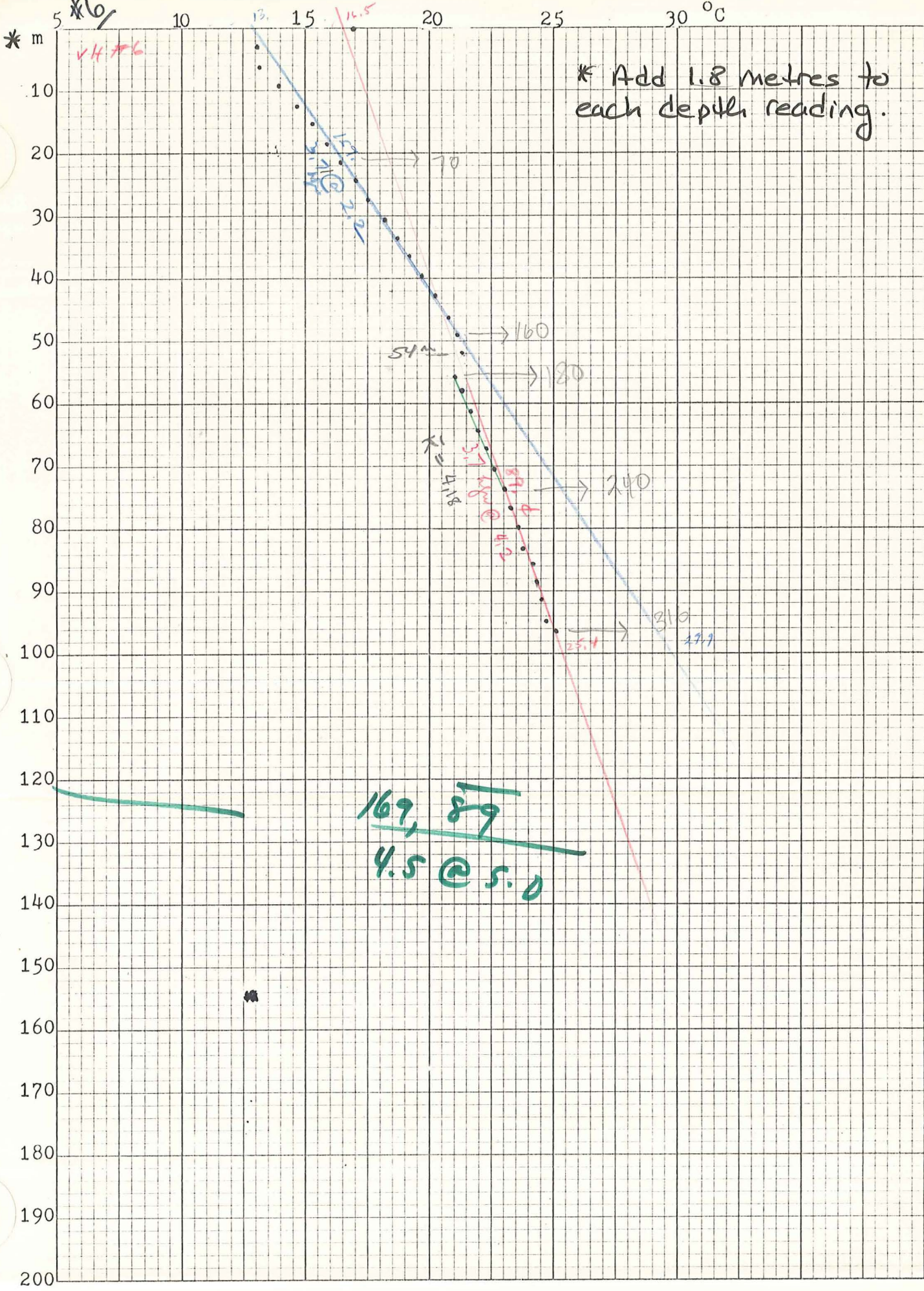
MID RANGE

10.3

316
20
77.2

4.4

7.4



46 0780

10 X 10 TO THE INCH. X 10 LINES
KEUFFEL & ESSER CO. MADE IN U.S.A.

169, 89
4.5 @ 5.0

TEMPERATURE DEPTH LOG

ΔT Well No. 7

Property-Project BEST Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No					Well No					Date Logged			FF
1	2	3	4	5	6	7	8	9	10	DA	MO	YR	*
7	5	3			7	0	2	0		7	0	2	CM

* 19 - Write F if Fahrenheit, 20 - Write F if Feet

Card B

Site Description																																																							Operator					Editor				
4.6 KM WSW OF BAILEY MOUNTAIN																																																							JVH					MLH				
4.6 KM WSW BAILEY MTN, UU 8																																																																

Map Location ^Δ

Scale Unit		Map Size		N Lat		W Long	
in	cm	(7.5, 15, 60)	cm	Degree	Min	Degree	Min
CM		15.		38.	15.	113.	00.

Use decimals

Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W, -) (E, +)

Northing										Easting										Elev									
37.2										19.1										5920.									
37.55										19.3										F									

Write M if meters

SEGMENT DEPTH

	Start	End	K	ΔK
C	76.0	156.0		
D	.999			
E				
F				
G				

Continue each card below.

SEGMENT DEPTH

	Start	End	K	ΔK
C	196.0	286.0		
D				
E				
F				
G				

Final Segment: Start = .999

Date Logged: _____

ΔT Well No. 7

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		71.8					
16.0		72.5					
26.0		78.1					
36.0		85.8					
46.0		92.6					
56.0		98.7					
66.0		106.2					
76.0		113.8					
86.0		120.2					
96.0		125.9					
106.0		131.8					
116.0		137.1					
126.0		142.8					
136.0		148.0					
146.0		153.0					
156.0		157.8					
166.0		162.0					
176.0		165.6					
186.0		169.3					
196.0		173.2					
206.0		176.8					
216.0		179.0					
226.0		182.3					
236.0		185.9					
246.0		187.8					
256.0		191.8					
266.0		195.0					

K=Conductivity

(over)

page _____ of _____

No H₂O in Pipe

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 7

LOCATION Sec 16 T27S R9W

DATE 10/2/73
CJVH

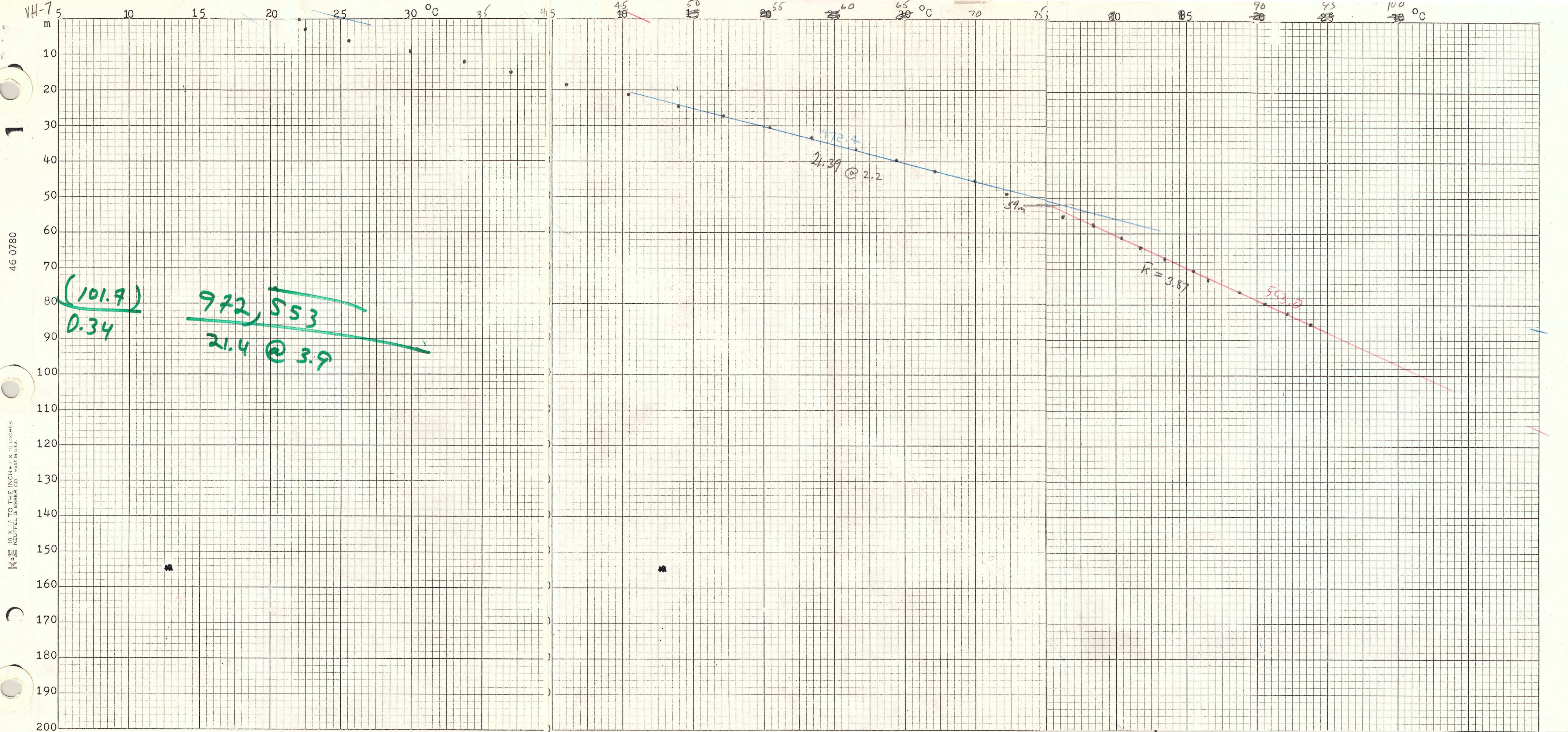
AIR TEMPERATURE 70°F

DEPTH	TEMP °F	DEPTH	TEMP	DEPTH	TEMP
0**	71.8	250	191.8	500	
3 10	72.5	60	195	10	
6.1 20	78.1	70	198	20	
9.1 30	85.8	80	200.9	30	
12.2 40	92.6	90		40	
15.2 50	98.7	300		50	
18.3 60	106.2	10		60	
21.3 70	113.8	20		70	
24.4 80	120.2	30		80	
27.4 90	125.9	40		90	
30.5 100	131.8	50		600	
33.5 10	137.1	60		10	
36.6 20	142.8	70		20	
39.6 30	148	80		30	
42.7 40	153	90		40	
45.7 50	157.8	400		50	
48.8 60	162	10		60	
51.8 70	165.6	20		70	
54.9 80	169.3	30		80	
57.9 90	173.2	40		90	
61.0 200	176.8	50		700	
64.0 10	179	60		10	
67.1 20	182.3	70		20	
70.1 30	185.9	80		30	
73.2 40	187.8	90		40	

131.8
71.8
60.0

176.8
131.8
45.0

40
88.8
3.2
90.6
3.0
92.2
2.9
93.8
31.9
9.6
31.5
Est. 3.2 x 30 = 9.6



46 0780

10 X 10 TO THE INCHES KEUFFEL & ESSER CO. MADE IN U.S.A.

Date Logged: _____

 ΔT Well No. 9

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		64.1					
16.0		60.1					
26.0		60.0					
36.0		60.2					
46.0		61.4					
56.0		62.1					
66.0		63.0					
76.0		64.5					
86.0		65.7					
96.0		66.5					
106.0		67.5					
116.0		68.7					
126.0		68.0					
136.0		69.0					
146.0		70.2					
156.0		71.0					
166.0		72.0					
176.0		73.1					
186.0		74.5					
196.0		75.3					
206.0		76.2					
216.0		77.1					
226.0		77.9					
236.0		78.6					
252.0		79.0					
99999.							

K=Conductivity

page _____ of _____

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 9 LOCATION Sec 21, T27S-R9W
 AIR TEMPERATURE 60°F

DATE 10/3/23
CTVH

DEPTH	TEMP °F	DEPTH	TEMP	DEPTH	TEMP
0**	64.1	246 250	79.5	500	
10	60.1	60		10	
20	60.0	70		20	
30	60.8	80		30	
40	61.4	90		40	
50	62.1	300		50	
60	63.0	10		60	
70	64.5	20		70	
80	65.7	30		80	
90	66.5	40		90	
100	67.5	50		600	
10	68.7	60		10	
20	69.6/68	70		20	
30	69	80		30	
40	70.2	90		40	
50	71.0	400		50	
60	72.0	10		60	
70	73.1	20		70	
80	74.5	30		80	
90	75.3	40		90	
200	76.2	50		700	
10	77.1	60		10	
20	77.9	70		20	
30	78.6	80		30	
40	79.1	90		40	

Water level in pipe

Mid range

9.6

9.1

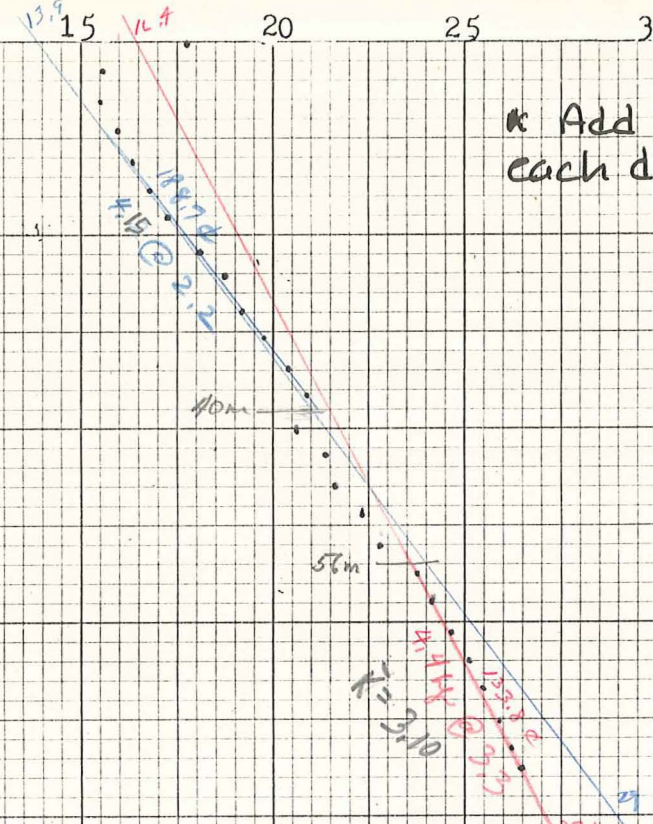
#9

5 10 15 20 25 30 °C

m

VH-9

* Add 1.8 metres to each depth reading.



K=1.5 @ 2.2

K=3.10 @ 3.3

40m

58m

189, 134
4.4 @ 3.3

46 0780

KE 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

100
110
120
130
140
150
160
170
180
190
200

Date Logged: _____

 ΔT Well No. 10

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		66.7					
16.0		62.0					
26.0		61.5					
36.0		62.5					
46.0		64.0					
56.0		65.3					
66.0		66.9					
76.0		68.2					
86.0		69.7					
96.0		70.3					
106.0		71.7					
116.0		72.8					
126.0		73.9					
136.0		74.9					
146.0		75.9					
156.0		77.0					
166.0		78.0					
176.0		79.2					
186.0		80.1					
196.0		81.0					
206.0		81.9					
216.0		82.9					
226.0		83.9					
236.0		84.7					
246.0		85.5					
256.0		86.5					
266.0		87.3					

K=Conductivity

Date Logged: _____

 ΔT Well No. _____

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
276.0		88.1					
286.0		88.8					
296.0		89.5					
306.0		90.2					
316.0		91.0					
326.0		91.6					
336.0		92.1					
346.0		92.6					
356.0		93.0					
366.0		93.7					
376.0		94.1					
386.0		94.8					
396.0		95.2					
406.0		96.2					
416.0		96.6					
426.0		97.0					
436.0		97.3					
446.0		97.8					
456.0		98.0					
466.0		98.3					
476.0		98.8					
486.0		99.2					
496.0		97.7	99.7				
506.0		100.1					
516.0		100.4					
526.0		100.8					
536.0		101.2					

K=Conductivity

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 10

LOCATION Sec. 7 T213-R9W

DATE 10/6/73
CTV#

AIR TEMPERATURE 72.8°F

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	66.7°F	250	86.5	500	100.1
10	62.0	60	87.3	10	100.4
20	61.5	70	88.1	20	100.8
30	62.5	80	88.8	30	101.2
40	64.0	90	89.5	40	101.7
50	65.3	300	90.2	50	102.1
60	66.9	10	91.0	60	102.6
70	68.2	20	91.6	70	103.0
80	69.7	30	92.1	80	103.5
90	71.8/70.3	40	92.6	90	103.9
100	71.7	50	93.0	600	104.5
10	72.8	60	93.7	10	105.1
20	73.9	70	94.1	20	105.7
30	74.9	80	94.8	30	105.9
40	75.9	90	95.2	40	
50	77.0	400	96.2	50	
60	78.0	10	96.6	60	
70	79.2	20	97.0	70	
80	80.1	30	97.3	80	
90	81.0	40	97.8	90	
200	81.9	50	98.0	700	
10	82.9	60	98.3	10	
20	83.9	70	98.8	20	
30	84.7	80	99.2	30	
40	85.5	90	97.7	40	

10' Range
↓

12.4

73.9
61.5
12.4

10.0

83.9
73.9

2.7

91.6
83.9
7.7

92.0
91.6
5.4

5.4

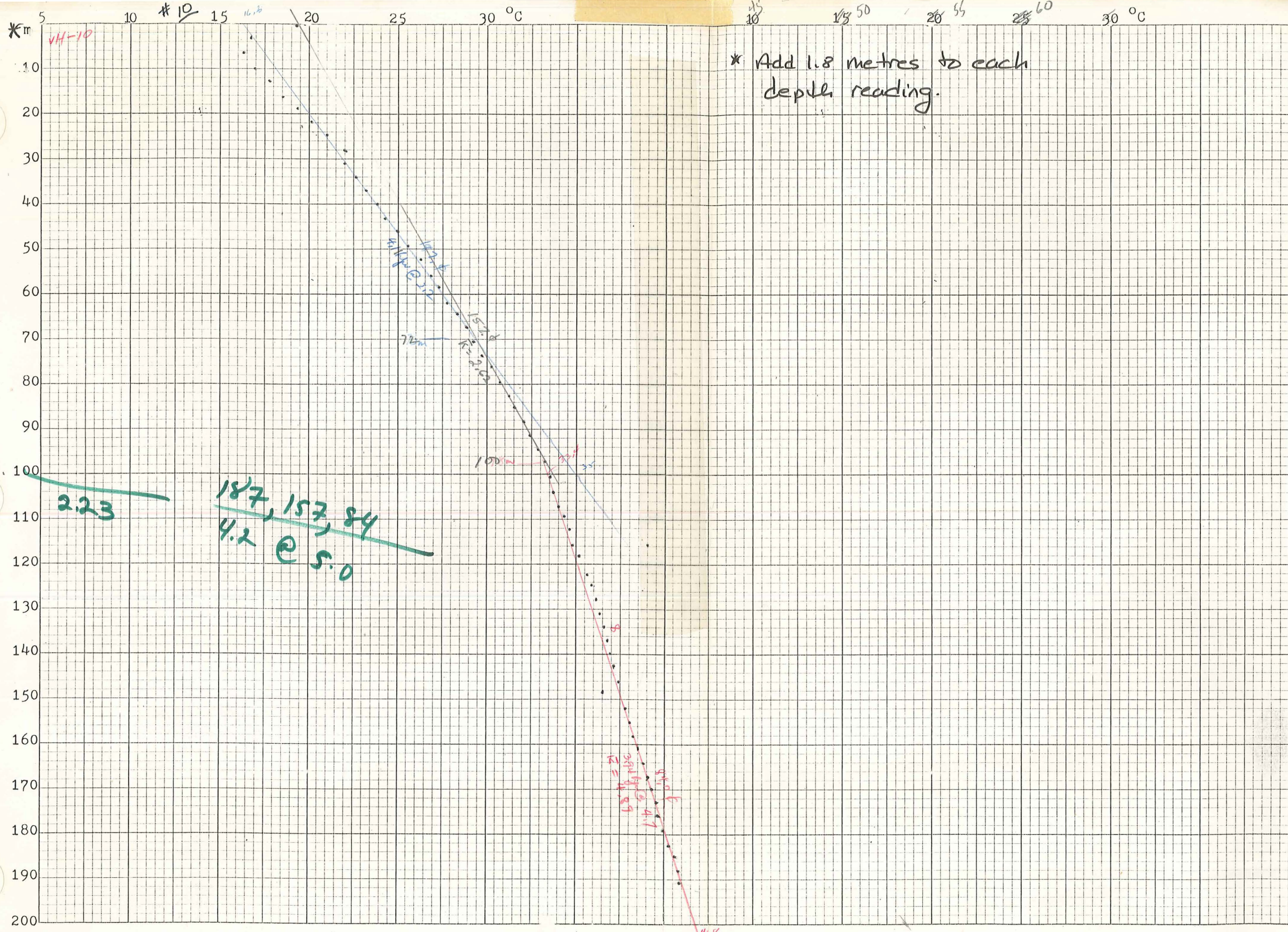
3.8

4.9

105.7
100.8
4.9

100.8
97.0
3.8

100
46 0780
10 X 10 TO THE INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



vH-10

2.23

187, 157, 84
4.2 @ 5.0

4.14 @ 3.2

7.2m

15.7m

100m

68.4 = 21

41.8

TEMPERATURE DEPTH LOG

Property-Project Best ΔT Well No. 11
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: Proj No Well No Date Logged **FF**
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 *
 Card A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
/	/	/	/	/	7	5	5			1	1	0	2	0	0	7	3	0	M

 * 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																																Operator						Editor					
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																				
5.8 KM NW OF BAILEY MOUNTAIN																																																JVA						MLH					
S.8KM NW BAILEY MT, UU 17																																																											

Card B

Scale Unit		Map Size		Map Location ^Δ				N Lat				W Long			
in	cm	(7.5, 15., 60)		Degree	Min	Degree	Min	Degree	Min	Degree	Min	Degree	Min	Degree	Min
/	/	15.		38.	15.	113.	00.								

Use decimals Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-) (E,+)

Northing										Easting										Elev									
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
43.5										18.35700										F									
43.1										18.9 5870.																			

Use decimals Write M if meters

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	66.0	200.0	-3.0	-1.5
D				
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	.999			
D				
E				
F				
G				

Final Segment: Start = .999

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 11

LOCATION Sect 4, T27S R9W

DATE 10/2/73
GJVH

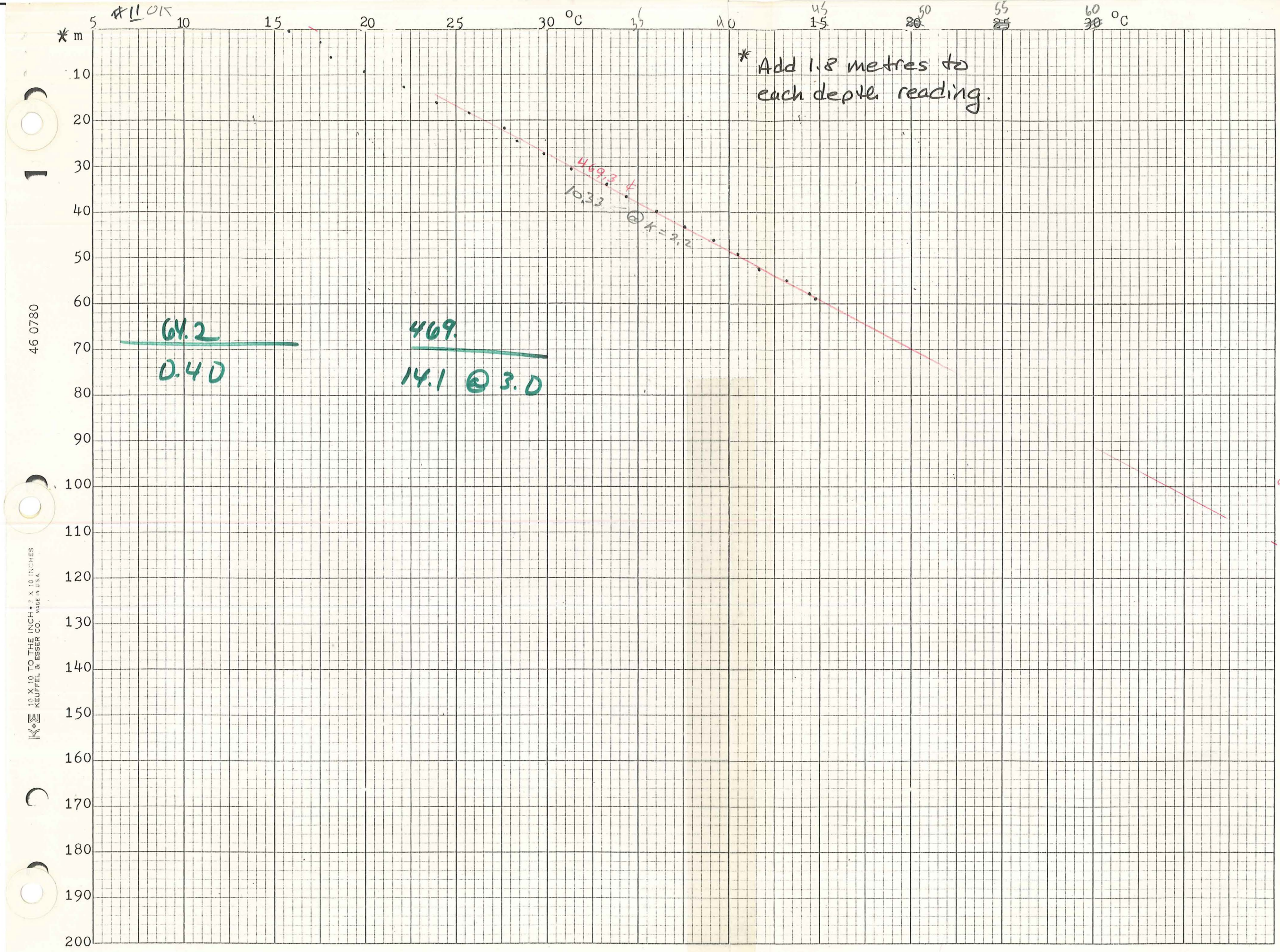
AIR TEMPERATURE 64°F

DEPTH	TEMP °F	DEPTH	TEMP	DEPTH	TEMP
0**	60.5	250		500	
10	63.5 ^{3.0}	60		10	
20	64.8 ^{1.3}	70		20	
30	68 ^{3.2}	80		30	
40	72 ⁴	90		40	
50	75.3 ^{3.3}	300		50	
60	78.2 ^{2.9}	10		60	
70	81.9 ^{3.7} / 79.9 ^{MID}	20		70	
80	82.8 ^{2.9}	30		80	
90	85.7 ^{2.9}	40		90	
100	88.4 ^{2.7}	50		600	
10	92 ^{3.6}	60		10	
20	94 ^{2.0}	70		20	
30	97 ^{3.0}	80		30	
40	99.8 ^{2.8}	90		40	
50	102.7 ^{2.9}	400		50	
60	105 ^{2.3}	10		60	
70	107.2 ^{2.2}	20		70	
80	109.8 ^{2.6}	30		80	
90	112 ^{2.2}	40		90	
1941 200	112.5	50		700	
10		60		10	
20		70		20	
30		80		30	
40		90		40	

29.9

23.6

MID RANGE
↓



46 0780

10 X 10 TO THE INCH KEUFFEL & ESSER CO. MADE IN U.S.A.

64.2
0.40

469.
14.1 @ 3.0

469.3
10.33
K=2.2

64.2

Date Logged: _____

ΔT Well No. 12

Depth (meters)	Instr. Reading	Temp. °C °F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
6.0		64.5					
16.0		61.5					
26.0		61.9					
46.0		65.3					
66.0		67.3					
86.0		69.6					
106.0		70.8					
126.0		72.5					
146.0		74.2					
166.0		76.1					
186.0		77.9					
206.0		79.9					
226.0		81.8					
246.0		83.5					
266.0		85.5					
286.0		87.5					
306.0		89.6					
326.0		91.7					
346.0		93.8					
366.0		95.7					
386.0		97.7					
406.0		99.9					
426.0		102.2					
446.0		103.3					
466.0		104.5					
486.0		106.0					
500.0		106.7					

K=Conductivity
99999.

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 12

LOCATION 32.5° 27.5' - R9W

DATE 10/7/73

AIR TEMPERATURE 53°F

CTVH

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	64.5	250		500	
10	61.5	60	85.5	10	
20	61.9	70		20	
30		80	87.5	30	
40	65.3	90		40	
50		300	87.6	50	
60	67.3	10		60	
70		20	91.7	70	
80	69.6/68.8	30		80	
90		40	93.8	90	
100	70.8	50		600	
10		60	95.7	10	
20	72.5	70		20	
30		80	97.7	30	
40	74.2	90		40	
50		400	99.9	50	
60	76.1	10		60	
70		20	102.2	70	
80	77.9	30		80	
90		40	103.3	90	
200	79.9	50		700	
10		60	104.5	10	
20	81.8	70		20	
30		80	106.0	30	
40	83.5	90		40	
		994	106.7		

72.5
61.9
10.6

Mid Eng



81.8
72.5
9.3

91.7
83.5
8.2

8.2

10.6

102.2
91.7
10.5

10.5

9.3

1.20 EST.
11.0

1.2

1.5

.7

TEMPERATURE DEPTH LOG

ΔT Well No. 13

Property-Project Best Depth Logged _____
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: Card A

Proj No					Well No					Date Logged			*
1	2	3	4	5	6	7	8	9	10	DA	MO	YR	*
7	5	5							13				CM

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																													Operator					Editor				
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	ODB	HLA													

7 KM SSE MURDOCK, UU RHS 5

Card B

Scale Unit		Map Size		Map Location Δ				W Long				△ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-) (E,+)																							
in	cm	(7.5, 15., 60)		N Lat		Degree		Degree		Min																									
				32.5	180	32.	22.5	113.	00.																										
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	CM	7.5	32.	22.5	113.	00.

Use decimals

Northing										Easting										Elev										
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	F
31.9										19.0360																				

Write M if meters

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	44.0	56.0		
D	96.0	146.0	44	-1.5
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	56.0	96.0		
D	99.9		-3.5	.5
E				
F				
G				

Final Segment: Start = .999

TEMPERATURE - DEPTH LOG

Location _____ Date _____

Map _____

Property _____ T _____ R _____ sec _____

Drill Hole _____ Date Drilled _____ Elevation _____ ft.

Instrument _____ Operator _____

Comments BLACKWELL #13

same as VH-13

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient °C/Km Avg.	Comments
22	43				
44	3720	24.21 24.20			WATER AT 44m
46	3667	24.59	0.38		
48	3612	24.99	0.40		
50	3546	25.49	0.50		
52	3487	25.94	0.45		
54	3434	26.35	0.41		
56	3378	26.79	0.44		
58	3366	26.89	0.10		
60	3350	27.02	0.13		
62	3330	27.18	0.16		
64	3307	27.37	0.19		
66	3290	27.51	0.14		
68	3274	27.64	0.13		
70	3261	27.75	0.11		
72	3247	27.87	0.12		
74	3232	28.00	0.13		
76	3221	28.09	0.09		
78	3183	28.41	0.32		
80	3179	28.45	0.04		
82	3161	28.60	0.15		GRADIENT 89-146m 52.6°C/k.

TEMPERATURE - DEPTH LOG

Location _____ Date _____

Map _____

Property _____ T _____ R _____ sec _____

Drill Hole _____ Date Drilled _____ Elevation _____ ft.

Instrument _____ Operator _____

Comments BLACKWELL # 13

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient		Comments
				°C/Km	Avg.	
84	3154	28.66	0.06			
86	3140	28.79	0.13			
88	3116					NOTE 3m INTERVAL
89	3116	29.00	0.21			NOTE 1m INTERVAL
90	3108	29.07	0.07			
92	3093	29.20	0.13			
94	3080	29.32	0.12			
96	3068	29.42	0.10			
98	3056	29.53	0.11			
100	3045	29.63	0.10			
102	3035	29.72	0.09			
104	3023	29.83	0.11			
106	3011	29.94	0.11			
108	2999	30.05	0.11			
110	2988	30.15	0.10			
112	2979	30.24	0.09			
114	2969	30.33	0.09			
116			0.18			
118	2950	30.51				
120	2938	30.62	0.11			
122	2925	30.74	0.12			

TEMPERATURE - DEPTH LOG

Location _____ Date _____

Map _____

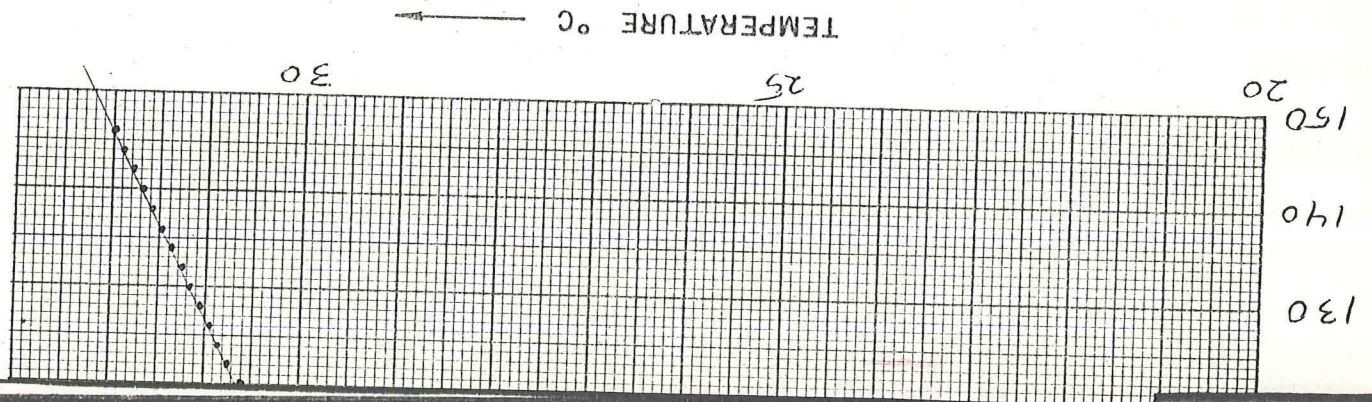
Property _____ T _____ R _____ sec _____

Drill Hole _____ Date Drilled _____ Elevation _____ ft.

Instrument _____ Operator _____

Comments BLACKWELL #13

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient		Comments
				°C/Km	Avg.	
124	2913	30.86	0.12			
126	2902	30.96	0.10			
128	2892	31.06	0.10			
130	2881	31.17	0.11			
132	2871	31.26	0.11			
134	2859	31.38	0.12			
136	2849	31.48	0.10			
138	2839	31.58	0.10			
140	2829	31.68	0.10			
142	2819	31.78	0.10			
144	2808	31.88	0.10			
146	2796	31.9				
99999.						



TEMPERATURE LOG

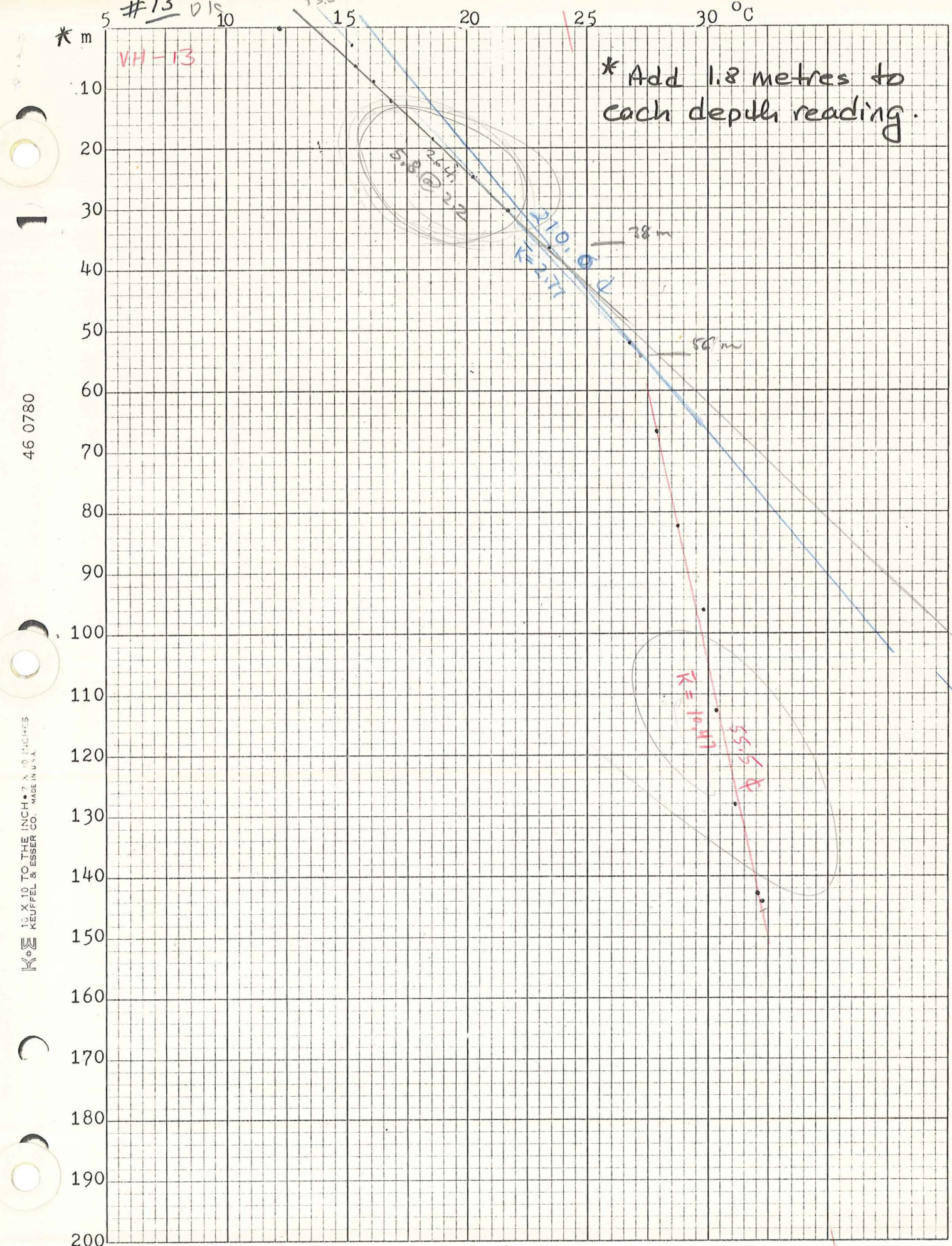
** Zero reading at 6' below surface, add 6' to all readings.

WELL # 13 LOCATION SW 1/4 Sec. 23 T27S R10W
 AIR TEMPERATURE 44.5°F

DATE 12-17-73
CJWH

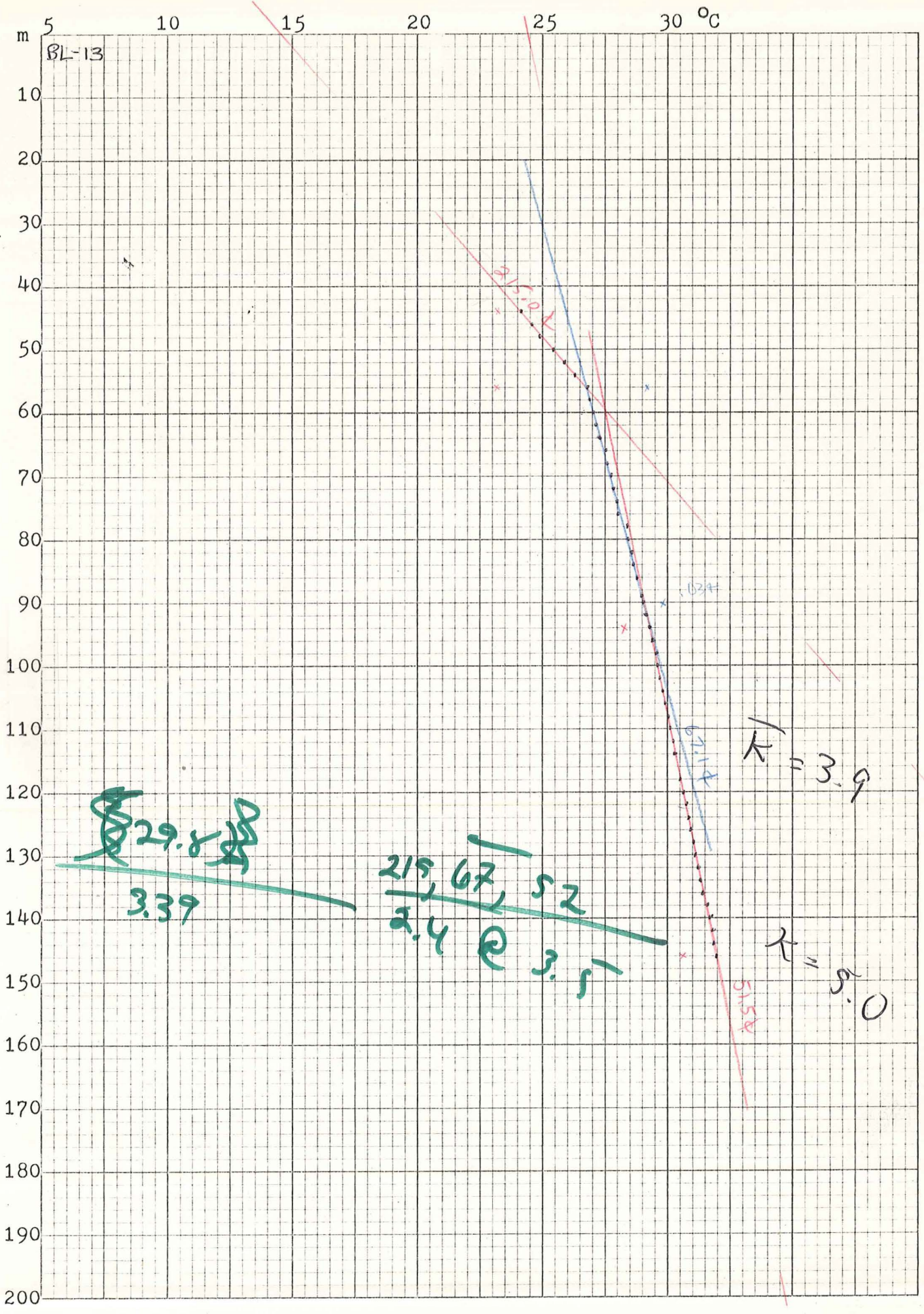
DEPTH	TEMP	OF	DEPTH	TEMP	DEPTH	TEMP
0**	54.0		250		500	
10	59.5	COARSE	60		10	
20	59.8	MAT'L	70	83.7	20	
30	61.0	↓	80		30	
40	62.2		90		40	
50			300		50	
60	65.3		10		60	
70			20	85.2	70	
80	68.5		30		80	
90			40		90	
100	Lo. 71.2 / Mid. 70.2		50		600	
10			60		10	
20	Lo 74.1 / Mid 73.5		70	86.7	20	RED CLAY
30			80		30	
40			90		40	
50			400		50	
60	165 - Fine Grain		10		60	
70	80.0	& Some Clay	20	88.0	70	
80		↓	30		80	
90			40		90	
200			50		700	
10			60		10	
20	82.0		70	89.5	20	
30			475 80	87.8	30	
40			90		40	

CRG. SCALES



46 0780

KE 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



BL-13

~~29.8~~
3.39

$\frac{215.67}{2.4} = 90$

$K = 3.9$

$K = 5.0$

5.54

TEMPERATURE DEPTH LOG

ΔT Well No. 14

Property-Project Rest Depth Logged _____

Map _____ Scale _____ Date: Drilled _____ Logged _____

State _____ County _____ Section _____ T _____ R _____

Instrument _____ Operator _____ Elevation _____ ft.

Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No		Well No		Date Logged																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
				DA	MO	YR	*													
755				1406		38		20												

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																														Operator			Editor		
9.0 KM ENE OF MURDOCK, UTAH																														JVN			HLH		
9 KM ENE MURDOCK, UU 25																																			

Card B

Scale Unit		Map Size		Map Location ^Δ				N Lat				W Long				Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W, -) (E, +)	
in	cm	(7.5, 15., 60)		Degree	Min	Degree	Min	Degree	Min	Degree	Min	Degree	Min				
CM		7.5		38.30				113.00									

Use decimals

Northing						Easting						Elev		
4.8						43.15560						0		F

Use decimals

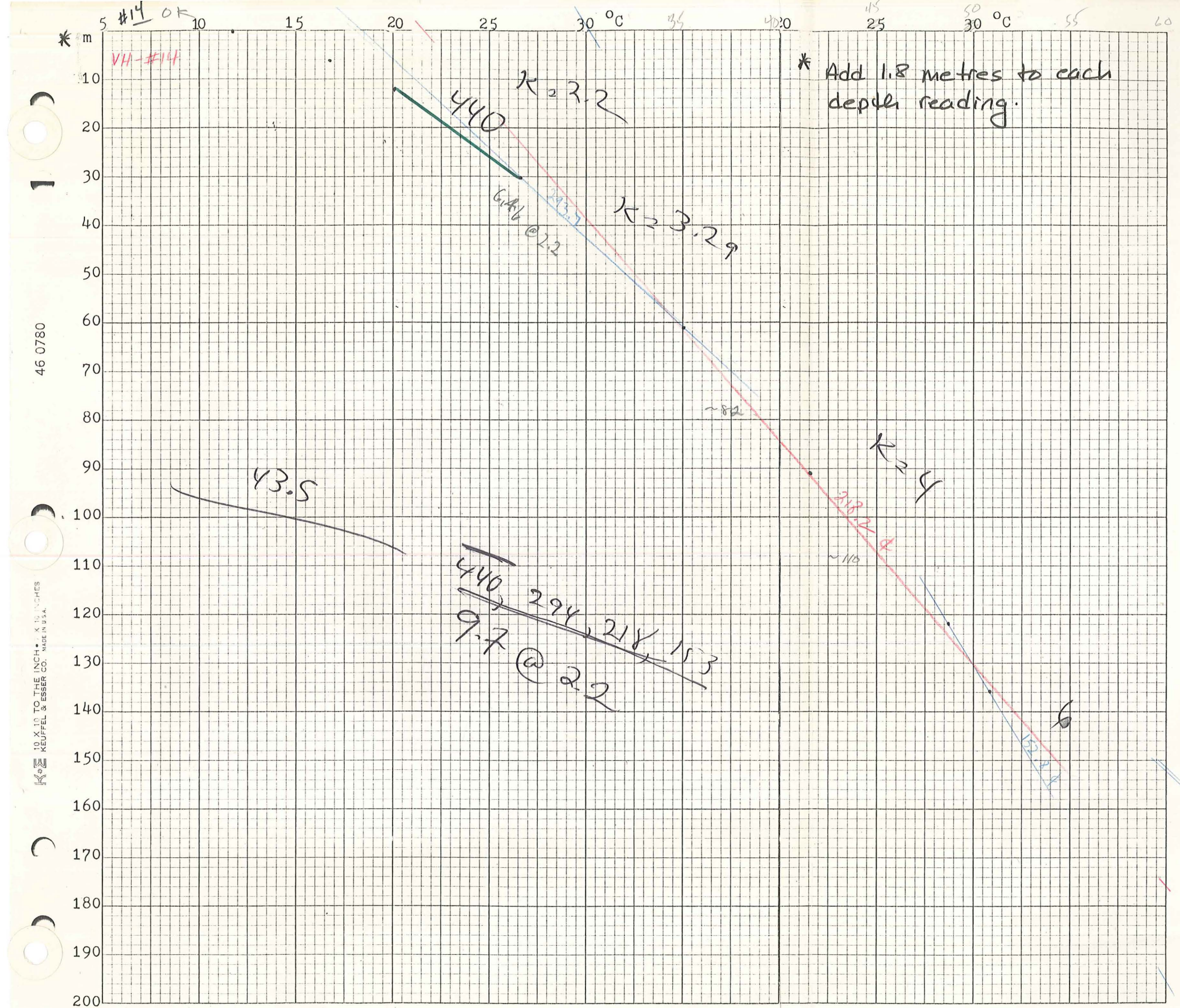
Write M if meters

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	206.0	151.0	-2.2	-.5
D				
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	.999			
D				
E				
F				
G				

Final Segment: Start = .999



46 0780

10 X 10 TO THE INCH KEUFFEL & ESSER CO. MADE IN U.S.A.

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 14 LOCATION NE 1/4, Sec 32, T26S, R9W DATE 1-6-74

AIR TEMPERATURE 27°

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	53.0°	250		500	
10		60		10	
20	62.0°	70	12	20	
30		80		30	
40	68.0°	90		40	
50		300	107.0°	50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
100	79.9°	50	12.5	600	
10		60		10	
20		70		20	
30		80		30	
40	15.1	90		40	
50		400	119.5°	50	
60		10		60	
70		20		70	
80		30	4.0	80	
90		40		90	
200	95.0°	45	123.5°	700	
10		50		10	
20		60		20	
30		70		30	
40		80		40	
		90			

TEMPERATURE DEPTH LOG

ΔT Well No. 15

Property-Project Rest Depth Logged _____
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No		Well No		Date Logged			FF													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
7	5	5								1	5	3	0	0	0	0	0	0	0	0
* 19- Write F if Fahrenheit, 20- Write F if Feet																				

Site Description																																																Operator		Editor	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60												
3.6 KM WEST OF BAILEY MOUNTAIN																																																JYH		MLH	
3.6 KM W. BAILEY MT, UU 10																																																			

Card B

Scale Unit		Map Size		Map Location Δ		N Lat		W Long	
in	cm	(7,5,15,60)		Degree	Min	Degree	Min	Degree	Min
CM			15	38	15	113	00		
Use decimals									

Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-) (E,+)

Northing						Easting						Elev																	
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
38.3						20.8						6115		F															
Use decimals																													

Write M if meters

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	76.0	184.0	-3.0	-.5
D				
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	.999			
D				
E				
F				
G				

Final Segment: Start = .999

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 15

LOCATION NE 1/4 Sec 15

DATE 10/30/73

AIR TEMPERATURE 40.2°F

T-275 R-9W

CTW

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	60.3	250		500	
10	60.0	60	Comments	10	
20	61.0	70	Pipe open on	20	
30	63.8	80	Bottom-H ₂ O	30	
40	66.1	90	STANDING free in	40	
50	68.2	300	PIPE AT 112 feet.	50	
60	70.3 / 69.0	10		60	
70	71.0	20	Driller lost circulation	70	
80	73.1	30	on this hole at	80	
90	75.3	40	240ft. - Could not	90	
100	77.3	50	regain circ. -	600	
10	79.7	60	hole CAVED AT	10	
20	82.1	70	About 190 ft.	20	
30	84.4	80	LEVEL. LOST FIVE	30	
40	86.9	90	strings of pipe-	40	
50	88.8	400		50	
60	90.5	10		60	
70	93.1	20		70	
80	178.1 - 94.5	30		80	
90		40		90	
200		50		700	
10		60		10	
20		70		20	
30		80		30	
40		90		40	

14.7

11.0

day 1964

Med Ring



* m #15 0 15 20 25 30 °C

VH-15

* Add 1.8 metres to each depth reading.

401.5
8.83 @
t=2.2

52.6
0.47

402
12.1 @ 3.0

46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200

TEMPERATURE DEPTH LOG

ΔT Well No. 16

Property-Project Best Depth Logged _____
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No		Well No		Date Logged			FF												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				DA	MO	YR	*												
755				16		15		08		24		CM							

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																																Operator				Editor			
10.8 KM SE OF READ, UTAH																																																JVH				MLA			

Card B

Scale Unit		Map Size		Map Location ^Δ				N Lat				W Long			
in	cm	(7.5, 15., 60)	cm	Degree	Min	Degree	Min	Degree	Min	Degree	Min	cm	cm	cm	cm
CM		7.5		38.30				113.00							

Use decimals

Northing						Easting						Elev			
13.2						43.1						5490.0			

Use decimals 44.7

Write M if meters

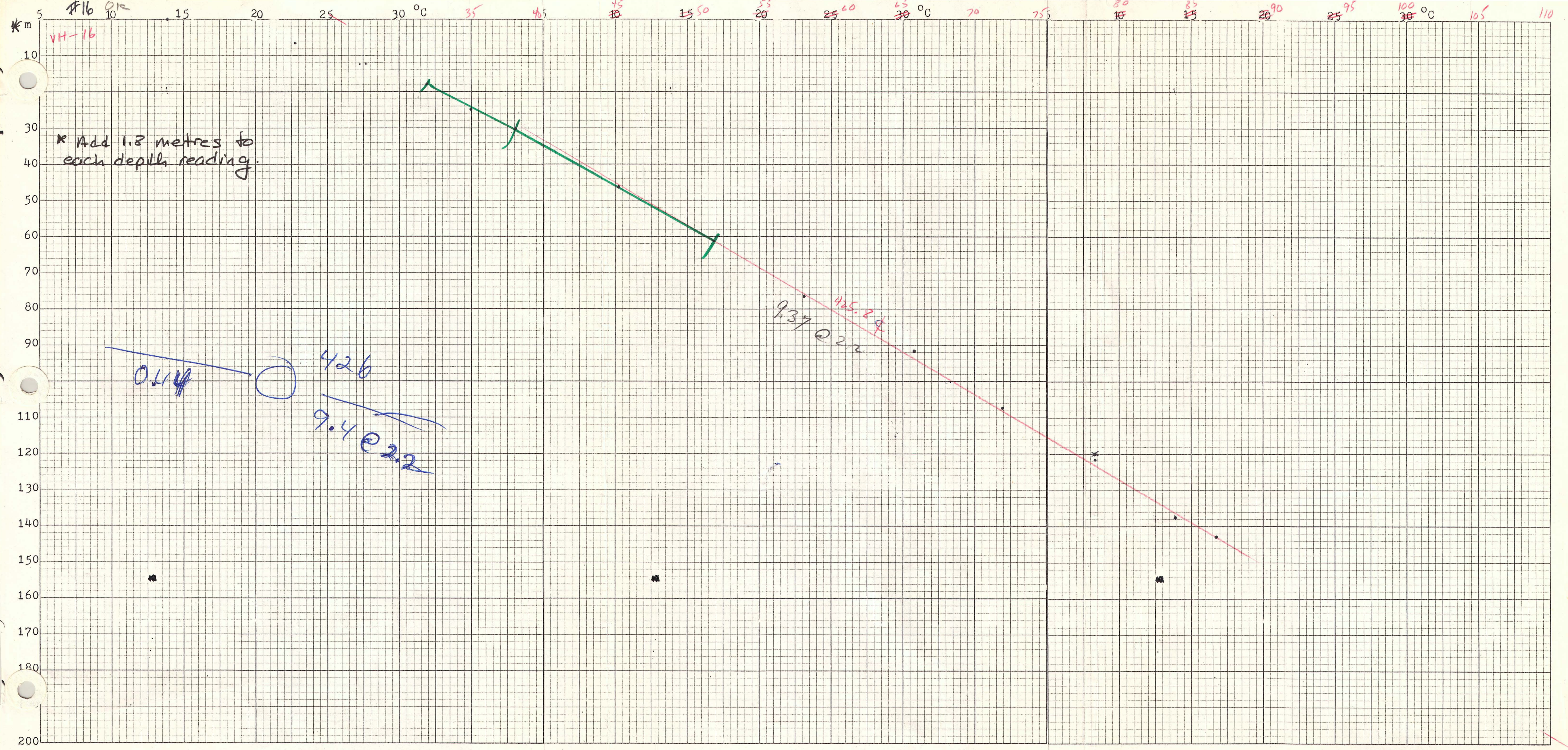
Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W, -) (E, +)

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	66.0	476.0	-2.2	-.5
D				
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	.999			
D				
E				
F				
G				

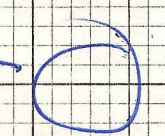
Final Segment: Start = .999



VH-16

* Add 1.2 metres to each depth reading.

0.44



426

9.4 @ 2.2

9.37 @ 2.2
425.2

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 16 LOCATION SW Cor Sec 21 T26S-R9W
AIR TEMPERATURE _____ °F

DATE JAN 15, 1974

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	57°	250	136.0° 5	500	
10		60		10	
20	73° Lo - 72° Mid	70		20	
30		80		30	
40	81.9° 89.7° Mid Rng	90		40	
50		300	150°	50	
60	89.1	10		60	
70		20		70	
80	95.1°	30		80	
90		40		90	
100	100.5	50	161° Mid 160° HC Rng	600	
10		60		10	
20		70		20	
30		80		30	
40		90		40	
50	113.2°	400	171.5°	50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
200	125.0°	50	181.5°	700	
10		60		10	
20		70	186.5°	20	
30	(227.5 54.5°C)	80		30	
40		90		40	

Date Logged: _____

ΔT Well No. 18

feet

Depth (meters)	Instr. Reading	Temp. °C/°F	ΔT	Grad. °C/km	K (Est.)	H ₂ O Air	Lithology, etc.
0		50.5					
20.0		55.5					
40.0		56.0					
100.		58.0					
200.		61.0					
300.		64.5					
390		67.0					
99999.							
6.0		50.5					
26.0		55.5					
46.0		56.0					
106.0		58.0					
206.0		61.0					
306.0		64.5					
396.0		67.0					
99999.							

K=Conductivity

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 18 LOCATION E. Quarter Corn Sec 18
T25S - R9W

DATE Jan 20, 1974

AIR TEMPERATURE

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	50.5	250		500	
10		60		10	
20	55.5	70	(3.5)	20	
30		80		30	
40	56	90		40	
50		300	64.5	50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
100	58	50	(2.5)	600	
10		60		10	
20		70		20	
30		80		30	
40	(3)	90	<u>67</u>	40	
50		400		50	
60	58	10		60	
70		20		70	
80		30		80	
90		40		90	
200	61°F	50		700	
10		60		10	
20		70		20	
30		80		30	
40		90		40	

100

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5 10 15 20 25 30 °C

VH-18

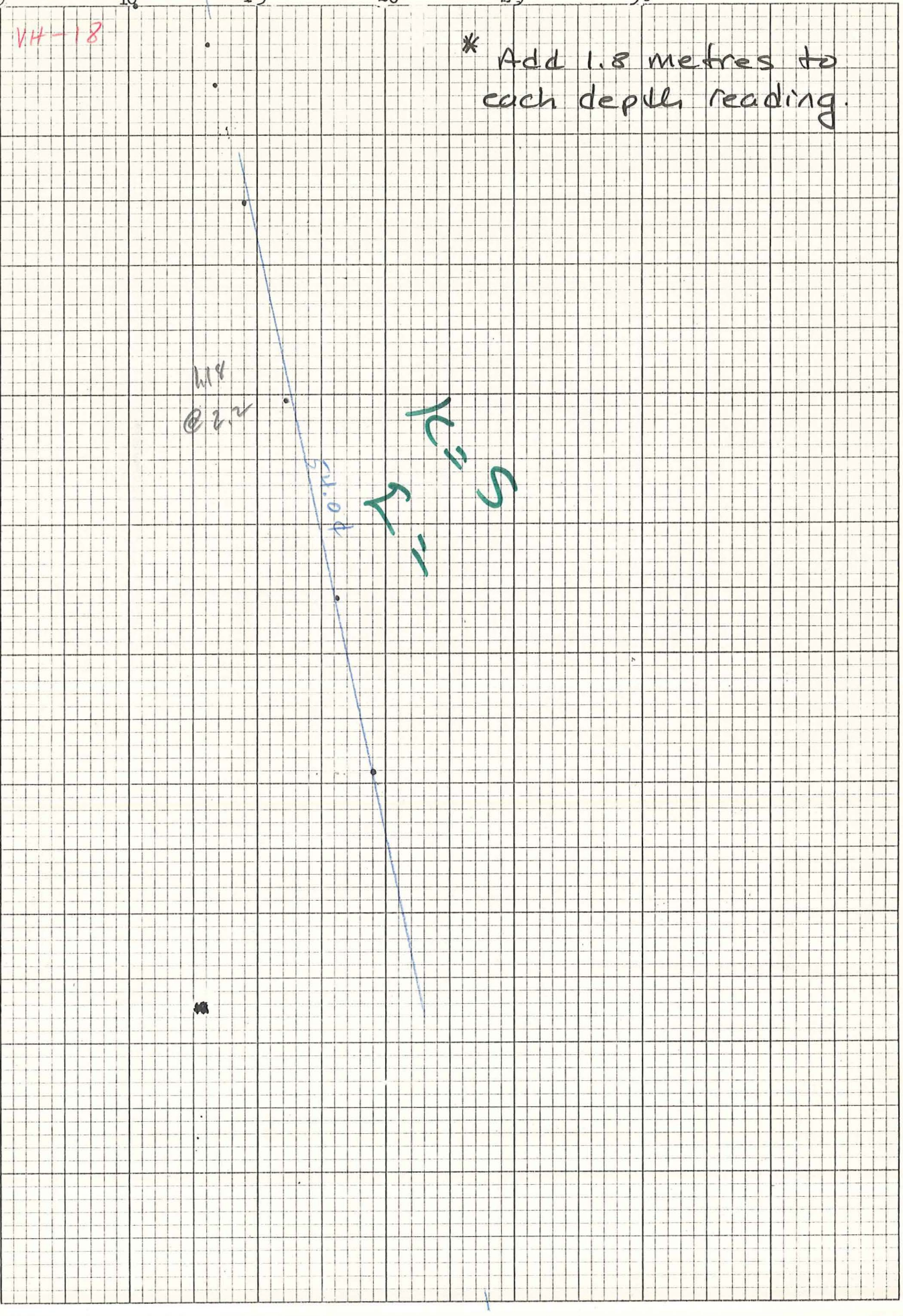
* Add 1.8 metres to each depth reading.

VH @ 2.2

point

TEMPERATURE

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200



TEMPERATURE DEPTH LOG

ΔT Well No. 19

Property-Project Best Depth Logged _____
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No		Well No		Date Logged			FF												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
756				1920			JA	74	SM										

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																																Operator				Editor			
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																
5.4 KM NE AF ROAD, UTAH																																																JYH				MLH			

Card B

Scale Unit		Map Size		Map Location Δ				N Lat				W Long																	
in	cm	(7.5, 15.60)		Degree		Min		Degree		Min		Degree		Min															
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
CM		7.5		38		30		113		00																			

Use decimals

Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-) (E,+)

Northing						Easting						Elev																	
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
50.2						21.94930						F																	

Use decimals

Write M if meters

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	26.0	206.0		
D	.999			
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	306.0	491.0	-3.5	-1.5
D				
E				
F				
G				

Final Segment: Start = .999

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 19 LOCATION E. Quarter Corn Sec 26 T-253-R10W DATE Jan 20, 1974

AIR TEMPERATURE

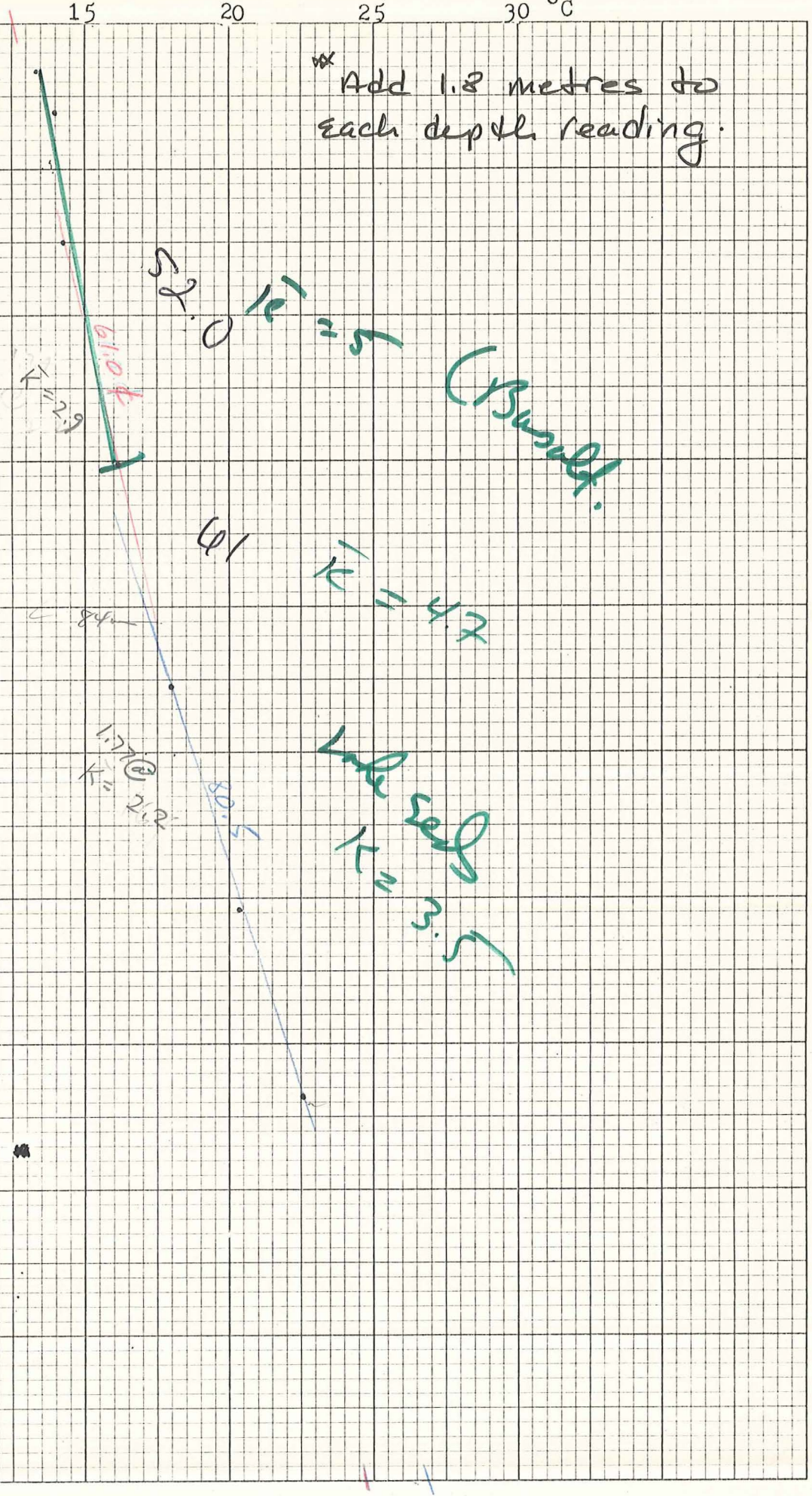
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	50.0	250		500	
10		60	(3.5)	10	
20	56	70		20	
30		80		30	
40	57	90		40	
50		300	64.5	50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
100	57.5	50	(4.0)	600	
10		60		10	
20		70		20	
30		80		30	
40	(3.5)	90		40	
50		400	68.5	50	
60		10		60	
70		20		70	
80		30		80	
90		40	(4.0)	90	
200	61	50		700	
10		60		10	
20		70		20	
30		485 80	72.5	30	
40		90		40	

5 #19 015 10 15 20 25 30 °C

m 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

VH-19

** Add 1.8 metres to each depth reading.



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TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 20 LOCATION CENTER of NW Quarter Sec 28 T25S-R10W DATE _____

AIR TEMPERATURE

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**		250		500	
10		60		10	
20	59.5° F Air	70	230 ft.	20	
30		80		30	
40		90		40	
50	Well was ARtension According to Driller				
		300		50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
100		50		600	
10		60		10	
20		70		20	
30		80		30	
40		90		40	
50		400		50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
200		50		700	
10		60		10	
20		70		20	
30		80		30	
40		90		40	

TEMPERATURE DEPTH LOG

Property-Project Best ΔT Well No. 21
 Map _____ Scale _____ Date: Drilled _____ Logged _____
 State _____ County _____ Section _____ T _____ R _____
 Instrument _____ Operator _____ Elevation _____ ft.
 Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No										Well No										Date Logged													
																				DA	MO	YR	*										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	18	19	20				
755										2120										JA	24	CM											

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																																		Operator										Editor									
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	51	52	53	54	55	56	57	58	59	60																				
0.5 KM NORTH OF ROAD, UTAH																																																		JVM										MLH									

Card B

Scale Unit										Map Size										Map Location ^Δ																			
										(7.5, 15., 60)										N Lat Degree Min W Long Degree Min																			
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	41	42	43	44	45	46	47	48	49	50
CM										7.5										38.30. 113.00.																			

Use decimals

^Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-) (E,+)

Northing										Easting										Elev									
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
37.2										5.8482										F									

Use decimals

Write M if meters

	SEGMENT DEPTH			
	Start	End	K	ΔK
C	106.0	321.0	-2.2	-.5
D				
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH			
	Start	End	K	ΔK
C	.999			
D				
E				
F				
G				

Final Segment: Start = .999

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

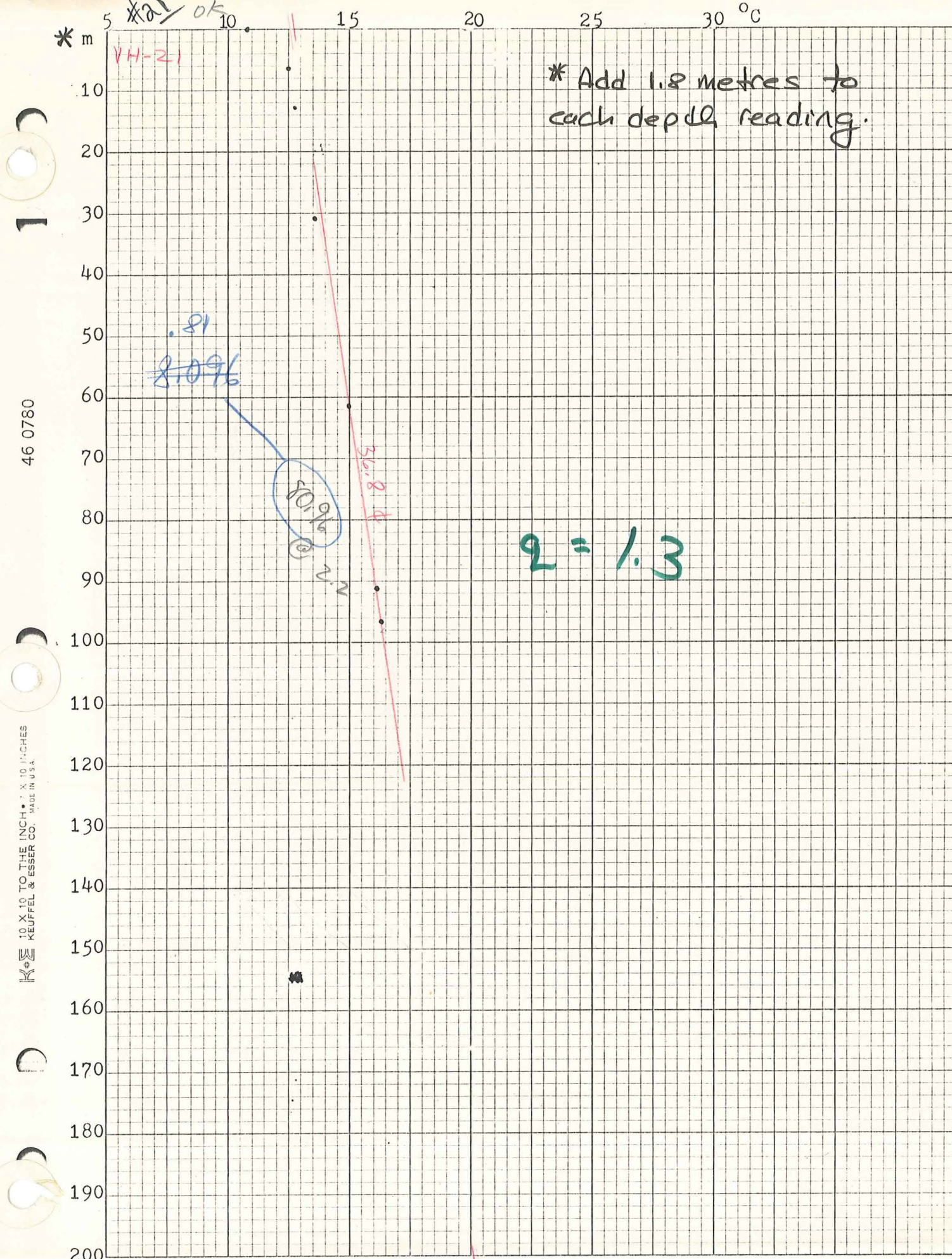
WELL # 21

LOCATION CENTER of SE 4

DATE JAN 20, 1974

AIR TEMPERATURE 72.5 - 210W

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	57.5	250		500	
10		60		10	
20	54.5	70	(2)	20	
30		80		30	
40	55	90		40	
50		300	61.0	50	
60		10		60	
70		315	61.3	70	
80		20		80	
90		30		90	
100	56.5	40		600	
10		50		10	
20		60		20	
30		70		30	
40	(2.5)	80		40	
50		90		50	
60		400		60	
70		10		70	
80		20		80	
90		30		90	
200	59.0	40		700	
10		50		10	
20		60		20	
30		70		30	
40		80		40	
		90			



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KEUFFEL & ESSER CO. MADE IN U.S.A.

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 22

LOCATION North Brady - Center SW 4 Sec 6 R 275 - 10 W

DATE _____

AIR TEMPERATURE _____

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	51.5	250		500	
10		60	(2.5)	10	
20	56	70		20	
30		80		30	
40	57	90	64.0	40	
50		300		50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
100	59	50		600	
10		60		10	
20		70		20	
30		80		30	
40		90		40	
50	(2.5)	400		50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
200	61.5	50		700	
10		60		10	
20		70		20	
30		80		30	
40		90		40	



5 #22 10 15 20 25 30 °C

m 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

* Add 1.8 metres to each depth reading.

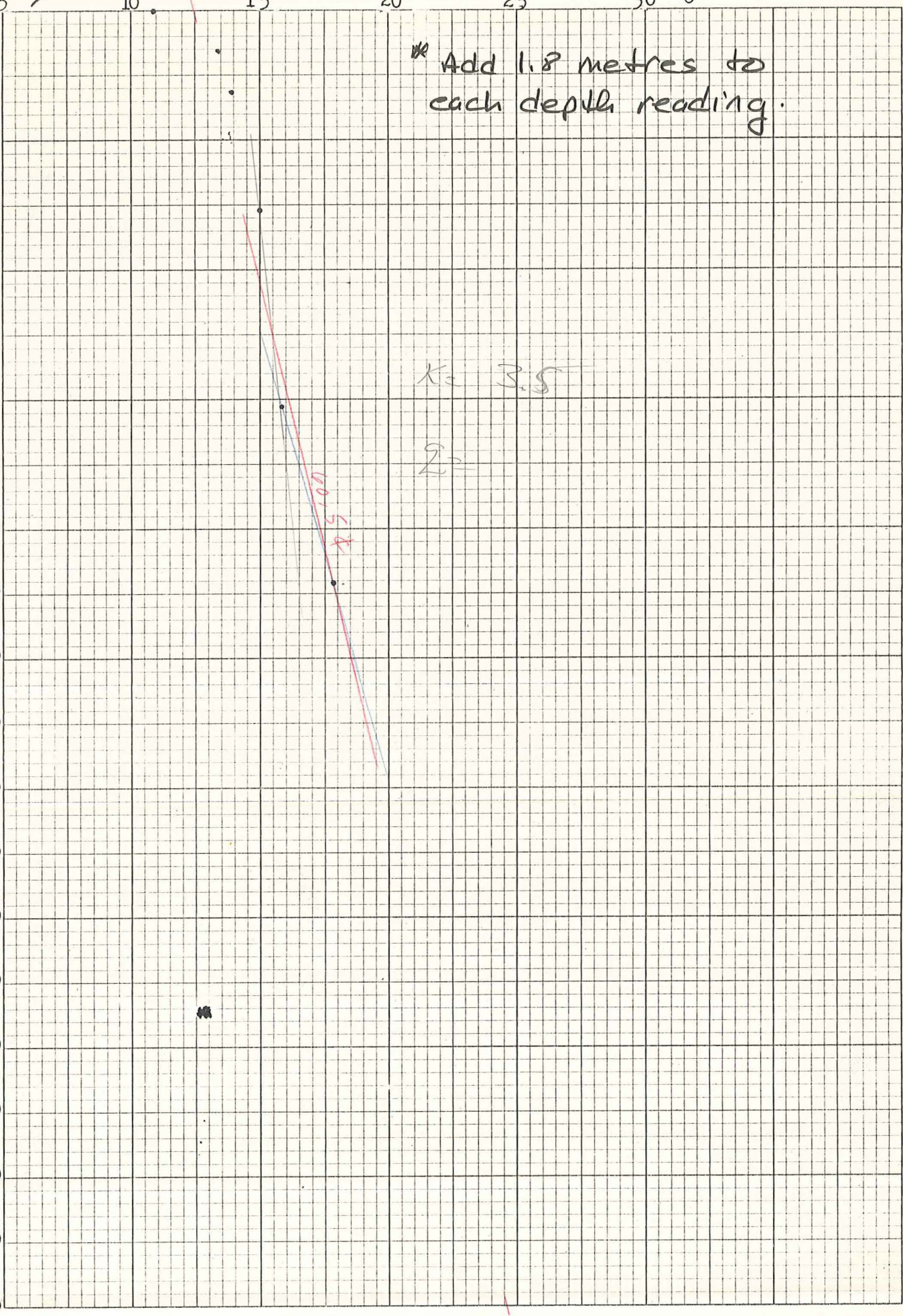
$K = 3.5$

$Z =$

10.15
K

46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



TEMPERATURE DEPTH LOG

ΔT Well No. 23

Property-Project Best Depth Logged _____

Map _____ Scale _____ Date: Drilled _____ Logged _____

State _____ County _____ Section _____ T _____ R _____

Instrument _____ Operator _____ Elevation _____ ft.

Comments _____

COMPUTER PROCESSING

RT JUSTIFY: **Card A**

Proj No		Well No		Date Logged															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
				DA	MO	YR	*												
755				23															CM

* 19- Write F if Fahrenheit, 20- Write F if Feet

Site Description																																													Operator		Editor	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60									
7.5 KM EAST OF LIME MOUNTAIN																																													JWH		MLH	

Card B

Scale Unit		Map Size		Map Location ^Δ					
in	cm	(7.5, 15., 60)		N Lat		W Long			
				Degree	Min	Degree	Min		
CM		15.		38.	30.	113.	15.		

Use decimals

Δ Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W, -) (E, +)

Northing					Easting					Elev																			
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
6.95					30.34930.					F																			

Use decimals

Write M if meters

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	206.0	406.0	-2.2	-1.5
D				
E				
F				
G				

Continue each card below.

	SEGMENT DEPTH		K	ΔK
	Start	End		
C	.999			
D				
E				
F				
G				

Final Segment: Start = .999

TEMPERATURE LOG

** Zero reading at 6' below surface, add 6' to all readings.

WELL # 23

LOCATION CENTER NE 4 SEC 24 T26S R11W

DATE _____

AIR TEMPERATURE _____

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
0**	57.0	250		500	
10		60		10	
20	57.0	70	(3.5)	20	
30		80		30	
40		90		40	
50		300	65.5	50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
100	60°	50	(3.5)	600	
10		60		10	
20		70		20	
30		80		30	
40		90		40	
50		400	69.0	50	
60		10		60	
70		20		70	
80		30		80	
90		40		90	
200	62	50		700	
10		60		10	
20		70		20	
30		80		30	
40		90		40	

8 Aug 75 Phillips NM hole (about 20' N of seismic shot hole)

Time	Depth	Temp	Notes
M			Hole in alluvium of wash floor
1.83	6'	57.5°F	same as 101
10.98	36'	60.5°	
20.12	66'	65	
29.27	96'	69	
	97'		

Phillips NM-Ridgeline hole
Hole in weathered granite?

Time	Depth	Temp	Notes
	6'	50°F	same as 102
4.88	16'	47.5°	
7.93	26'	49	
	36'	49.5	
17.07	56'	50°	
	66'	50	
23.17	76'	50.2	
26.28	86'	50.5	
	96'	50.9	
32.32	106'	51°	
41.46	136'	51°	
50.18	166'	51.1	
55.79	183'	51.3	apparent TD

Phillips Delta Canyon Ridgeline
(north of Roosevelt #5)
Hole in crystalline gray granite

Time	Depth	Temp	Notes
	6'	60°F 55°F	
	16'	48.9°	
	26'	47.5°	
	36'	47.5°	
	56'	47.7	
	106'	47.9	
	156'	48°	
	206'	48°	
	256'	48.2	
	286'	48.5	apparent TD

Field site survey

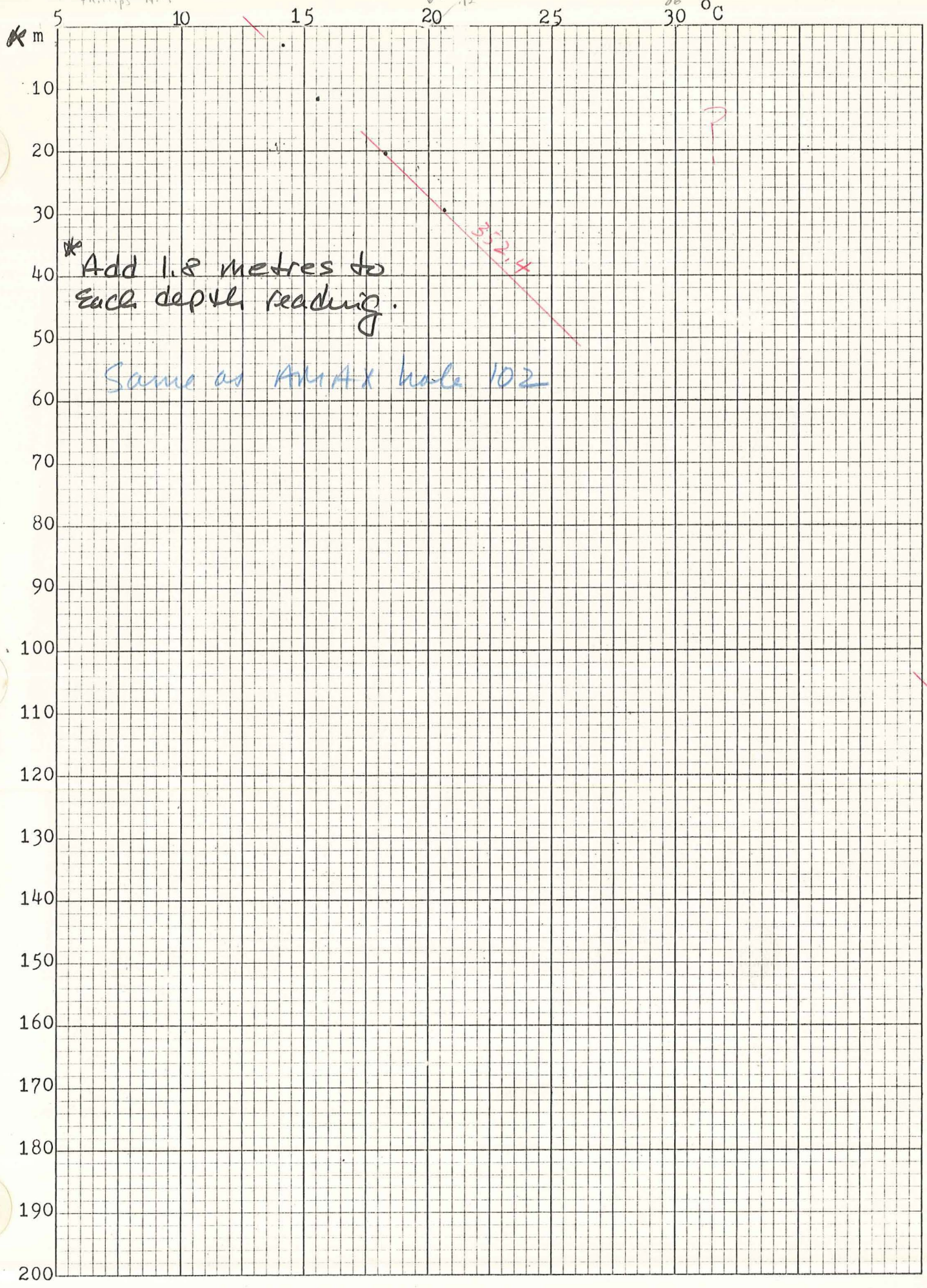
Hole D NW Cor Sec 36 JACK O'CONNOR

Photo 201 300-400 yds off O'Connor trail
basalt ledge rock on topo nose
or none on surface in flat towards
trail BEAVER USA NW Cor Sec 35

047 Roll 1/5

Phillips NM

86
30 °C



* Add 1.8 metres to each depth reading.

Same as ALMAX hole 102

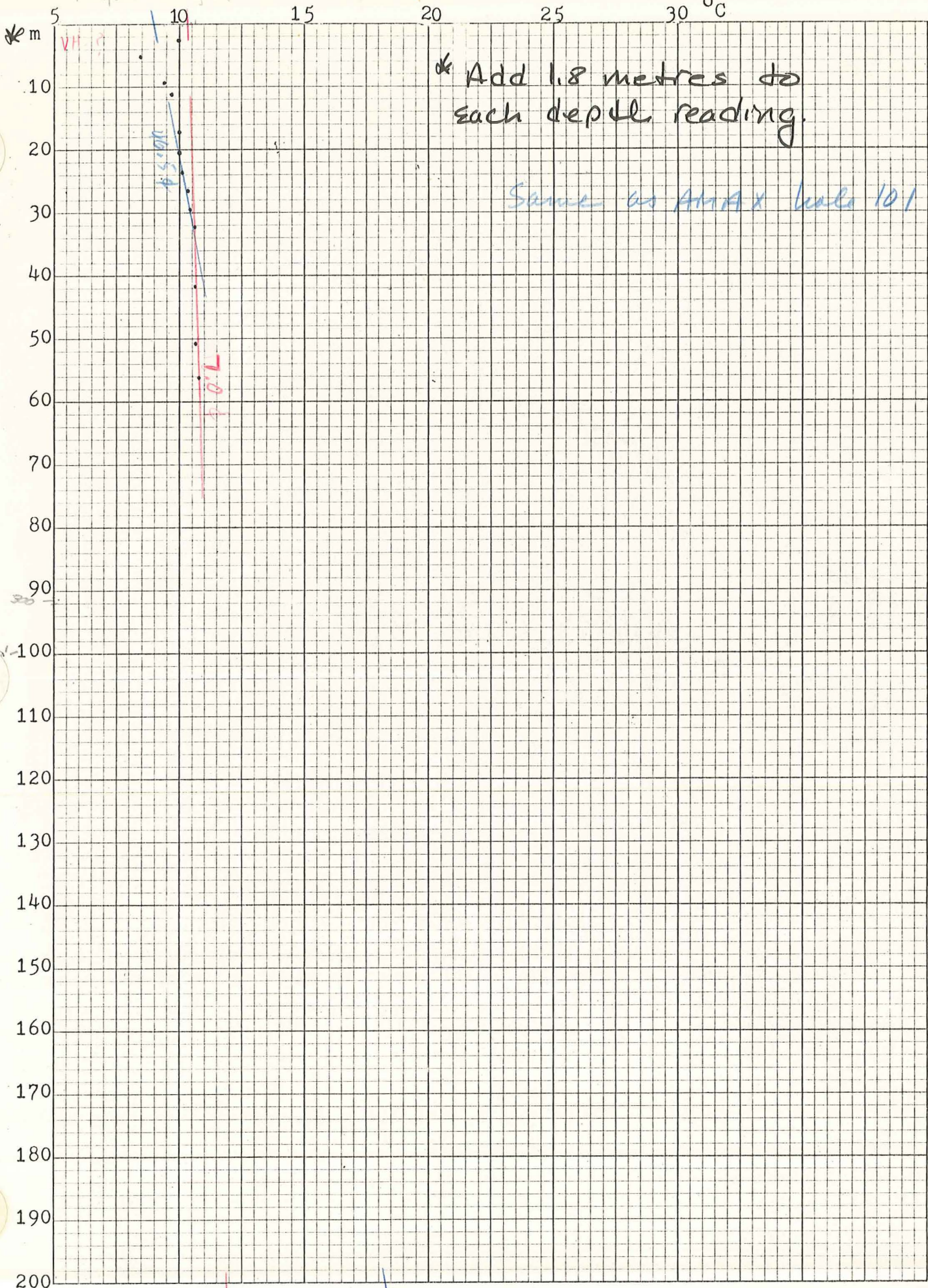
352.4

?

46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

Phillips NM- Ridge Lake



* Add 1.8 metres to each depth reading.

Same as AMAX hole 101

46 0780

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

INTER-OFFICE MEMORANDUM

SUBJECT:

DATE June 25, 1976

TO: John Deymonaz

FROM: M. L. Hege (for Art Lange)

Could you ask Mr. Von Hoene for the following information?

I have data, but am missing locations on the following holes:

#18, #22, #23
Phillips NM
Phillips NM Ridgeline
Phillips Drlg. Ridgeline

I have the locations but no data for the following holes:

#3 and #20

M. L. Hege

M. L. Hege

MLH:d

#18 - T255 R9W SEC 18 ~~WEST~~^{EAST} QUARTER CORNER

#22 T275 R10W SEC 7 CENTER OF NE4 OF SW4

#23 T265 R10W SEC 24 CENTER OF SE4 OF NE4

0102? Phillips NM - T275 R9W SEC 1 WEST QUARTER CORNER

01? 4 NM Ridgeline - T275 R8W 600 FT WEST OF SEC. 6 EAST
Boundary Along South boundary of NE4 of NE4

Phillips Drlg. Ridgeline - T265 R8W SEC 30 - 200 FT EAST of NW
CORNER OF SE4 OF NW4.