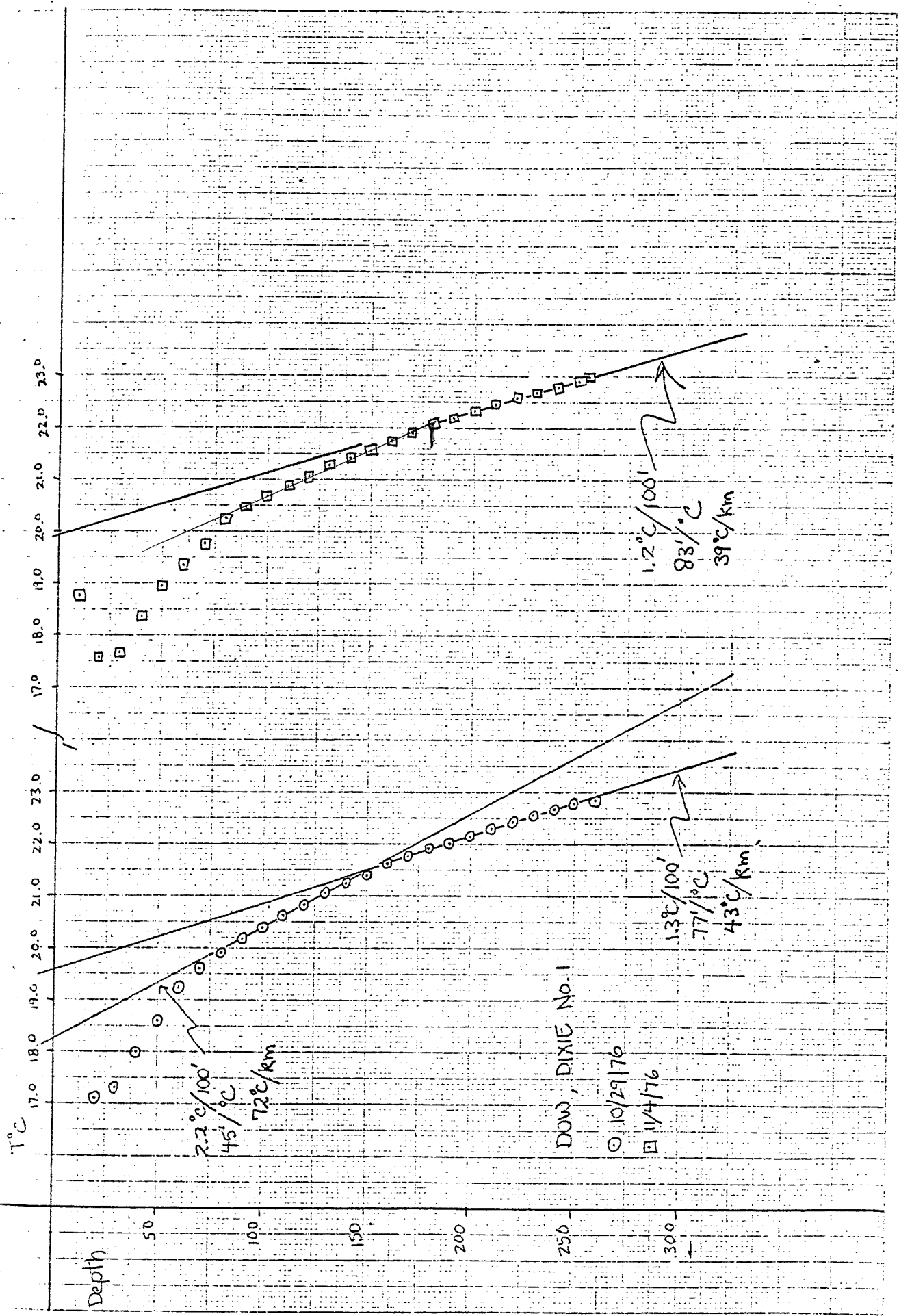


Appendix 4
Drilling, Temperature Logs, Lithologic Logs

DOW DIXIE NO. 1 = 903-21



2.2°C/100'
45°F/°C
72°C/km

1.2°C/100'
83°F/°C
39°C/km

DOW, DIXIE No. 1
○ 10/29/76
□ 11/4/76

DOW, DIXIE No. 1

TEMPERATURE LOG

C. Klein

Loc:

Date: 11/4/76

Time: 0915 hrs

Depth °C, down

	10	18.77
	20	17.58
	30	17.68
	40	18.34
	50	18.93
	60	19.35
	70	19.78
24	80	20.26
	90	20.48
58° c/km	100	20.69
	110	20.88
	120	21.09
	130	21.29
	140	21.42
	150	21.57
	160	21.77
	170	21.90
55	180	22.07
	190	22.17
	200	22.34
47° c/km	210	22.45
	220	22.58
	230	22.69
	240	22.79
70	250	22.91
c. 255	22.98	← block

(23.9) (21) 58, 40
4.50 1.8 @ 4.5

DOW DIXIE No. 1

TEMPERATURE LOG

M. Gardner,
transcribed by
C. Klein

Loc: East of intersection, SW $\frac{1}{4}$ Sec. 18, T22N, R35E

Date: 10/29/76

Time:

<u>Depth</u>	<u>T°C, down</u>
10	34.5
20	17.1
30	17.31
40	18
50	18.6
60	19.21
70	19.6
80	19.92
90	20.18
100	20.37
110	20.62
120	20.84
130	21.05
140	21.24
150	21.39
160	21.61
170	21.76
180	21.91
190	22.0
200	22.14
210	22.3
220	22.44
230	22.57
240	22.69
250	22.78
260	22.84
300	TD

block in pipe
TD

Gradient:

$$90-150' : 20.4-18.2/100 = 2.2^{\circ}\text{C}/100'$$

45'/°C

$$150-260' : 20.85-21.57 = 1.3^{\circ}\text{C}/100'$$

77'/°C

Hole No. 1
Operation Summary

M. Gardner,
transcribed by
C. Klein

Loc: East of intersection, sec. 18, T22N, R35E (.4 mi N of USBM H103 (1958); BM x 3469 in SW 4).

Drilling Log:

10/27/76 Driller: R. Cardell to c. 2100; L. Millard 2100 hrs to completion
1900 Arrive and set up.
2130 Kelly down,
2200 breakdown main pump, repairs by crew.
2400 repairs fail, second attempt at maintenance - Successful,
renew drilling
— secure logger
10/28/76
0745 reach 300' TD, circulate
0815 pull string
0930 place pipe, clean up.
1045 secure to load and transport gear to east side valley.

Geologic Setting: Distal, gently sloping region of alluvial fan, 1 mile from range front; at about 3500 ft. altitude, 2 miles from edge of basin low at 3380 ft. to east. Cold springs issue from base of NE striking scarps in fan deposits passing 1/2 mile to east of site.

Geologic Summary: Entire section 0-300 ft. is fan deposits. Alternating sandy-gravelly zones; coarsest returns in some samples are about 5 mm, in others pebbles to 1.5 cm, rarely to 3 cm, are present. Rocks include basalt, andesite and rhyolite porphyry, shale, silt.

LITHOLOGIC LOG

Dow
 Dixie No. 1

INTERVAL	SCHEMATIC OF STRATIGRAPHY	LITHOLOGIC DESCRIPTION	COMMENTS, INTERPRETATION
0 - 10		pebbles to 15 mm of belt, ^{rhys +} fault, etc. fragments of same shale	gang.
10 - 20		do; some to 20 mm on long axis	do
20 - 30		do; 10% fines	do, one sand lens
30 - 40		do; 20% fines	do
40 - 55		do; 2 sizes 10-15 mm + 1-2 mm	gang + sd shifting deposition
55 - 70		do; very coarse pebbles + fragments, to 30 mm	gang
70 - 85		do	do
85 - 100		do; 25% fine fraction	gang + sd shifting deposition
100 - 115		do, 30% fine fraction	and

D000
Dixie II

LITHOLOGIC LOG

GeothermEx, Inc.
Site Scientist gmc
Date 10/27/76

INTERVAL	SCHEMATIC OF STRATIGRAPHY	LITHOLOGIC DESCRIPTION	COMMENTS, INTERPRETATION
115' - 130'		do; 30% fine fraction	do
130' - 145'		do; 20% fine fraction	do
145' - 160'		do; even 1.5 - 7 mm size, few grains to 12 mm	do; gravel deposition shifting into sequence
160' - 175'		do; more coarse pebbled fragments	do.
175' - 190'		do; even size distribution	med. grained sand
190' - 205'		do; 1-8 mm, some pebbles to 12 mm	do
205' - 220'		do; 1-4 mm, some pebbles to 10 mm	do
220' - 235'		do; 1-5 mm, few pebbles to 15 mm	do
235' - 240'		do; 1-5 mm, 2 mm predominates	do

Dew

GeothermEx, Inc.
Site Scientist
Date 6/27-28/76

DIXIE #1

LITHOLOGIC LOG

INTERVAL	SCHEMATIC OF STRATIGRAPHY	LITHOLOGIC DESCRIPTION	COMMENTS, INTERPRETATION
265 - 265		do; 1-3 mm size predominates	do
265 - 280		do; 2-12 mm, mostly larger sizes predominate	do; shift to greater deposition
285 - 295		do; 2-12 1-6 mm	do
295 - 305		do; 2-7 mm	do
		 	