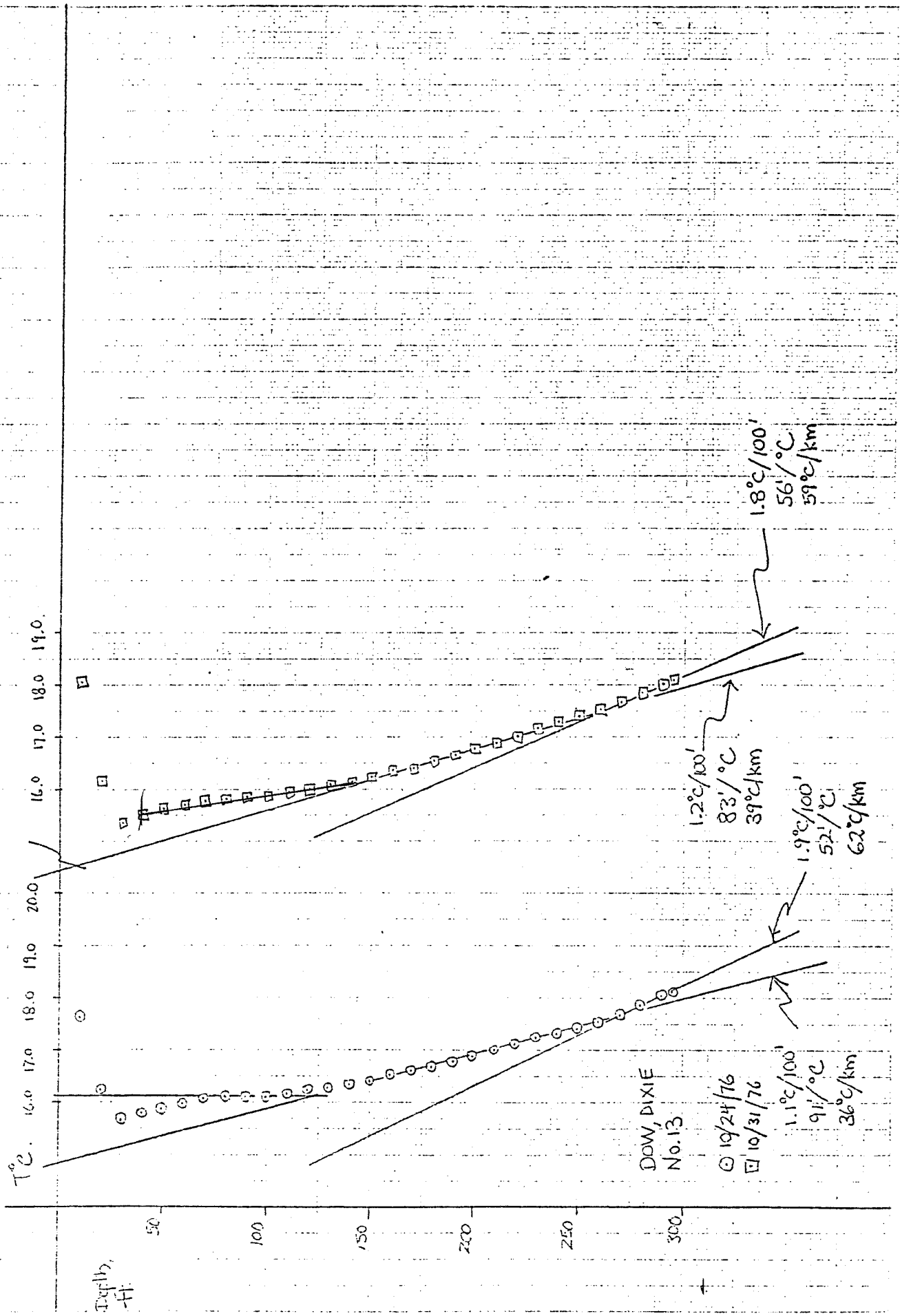


DOW DIXIE NO. 13 - 902-30



DOW DIXIE No. 13

TEMPERATURE LOG

C. Klein

Loc:

Date: 10/31/76

Time: 1430 hrs.

Depth | TC, down.

	10	18.06
	20	16.16
12	30	15.37
	40	15.51
	50	15.63
	60	15.71
21	70	15.78
	80	15.82
	90	15.86
	100	15.88
	110	15.96
	120	16.00
	130	16.10
46	140	16.15
	150	16.23
	160	16.35
	170	16.40
	180	16.53
	190	16.67
	200	16.78
	210	16.89
	220	17.02
	230	17.16
	240	17.30
79	250	17.40
	260	17.52
	270	17.66
	280	17.85
88	290	18.01
	295	18.10
	300	—

block in pipe
TD

39°/km

54°/km

Finish 1545 hrs.

(18.7) (30) $21, 39, 54$
 3.33 $2.1 @ 4.0$

Dow, DIXIE No. 13

TEMPERATURE LOG

C. Klein

Loc.: Near bench mark, NW $\frac{1}{4}$, Sec. 1, T23N, R33E

Date. 10/24/76

Time. 1015

<u>Depth</u>	<u>T°C, down</u>
10	17.62
20	16.23
30	15.67
40	15.80
50	15.88
60	15.97
70	16.07
80	16.10
90	16.10
100	16.10
110	16.16
120	16.23
130	16.28
140	16.34
150	16.40
160	16.51
170	16.60
180	16.68
190	16.79
200	16.87
210	17.00
220	17.11
230	17.23
240	17.32
250	17.40
260	17.53
270	17.67
280	17.85
290	18.04
c. 295	18.10 ← bottom

Gradient from c. 140-260:

$$1.1^{\circ}\text{C}/100' \equiv 91' / ^{\circ}\text{C}$$

270-290:

$$1.9^{\circ}\text{C}/100' \equiv 52' / ^{\circ}\text{C}$$

Hole No. 13

by: C. Klein

Operation Summary

Loc.: Near bench mark, NW $\frac{1}{4}$, Sec. 1, T23N, R35E.

Drilling Log:

10/21/76

- 1200 Move onto site
- 1300 Spud-in
- 1345 At 40 ft, engine dies
- 1430 Engine restarted
- 1500 At 85 ft, rapid penetration (15 ft/5 min.)
- 1604 At 175 ft.
- 1614 At 190 ft. (15 ft/10 min.)
- 1730 At 250 ft, shutdown

10/22/76

- 0820 Start-up
- 0940 Reach TD 300 ft, plus 5 ft cellar total 305 ft.
- 1130 P/C pipe in place, remove to site no. 12

Geologic Setting: Alluvial fan, 1 mile from source area on mountain range front, 120' above basin floor. Closest portion of range front (not source of alluvium) is $\frac{1}{3}$ mile to NW.

Geologic Summary: Entire 300 ft. is fan deposit of brown clay and silt, with sand, pebbles and probable cobbles of gabbro and silicious to mafic volcanics. Fragments of clasts coarser than sand below 20 ft are uncertain, as all returns 20-300 ft are sand-sized and smaller; zones of rough and relatively slow drilling are inferred to be cobbly.

DDW
DIXIE No. 13

LITHOLOGICAL LOG

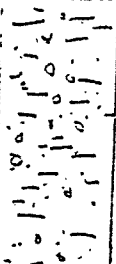
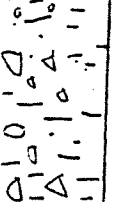
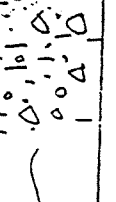





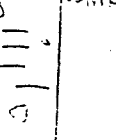
Geophysical Ex, Inc.
Site Director: C. Klein
Date 10/21/76

INTERVAL	SCHEMATIC OF STRATIFICATION	LITHOLOGIC DESCRIPTION	COMMENTS, INTERPRETATION
0-20'		<p>Fan deposit = angular, occas subangular sand, pebbles to 2.5 cm (largest returns), brown silt and clay. Gabbro, volcanics, silicious to mafic</p>	
20-30'		<p>similar, but largest returns coarse sand.</p>	<p>Smooth, rapid drilling, all clasts probably cobbles and smaller.</p>
30-40'		<p>same</p>	
40-50'		<p>largest returns medium sand-sized (2 mm), most ≤ 1 mm</p>	
50-60'		<p>same</p>	
60-70'		<p>same</p>	<p>70-85' / 5 min - typical of section drilling rate</p>
70-80'		<p>same</p>	
80-90'		<p>same</p>	
90-100'		<p>same</p>	

DOW
DIXIE No. 13

LITHOLOGICAL LOG

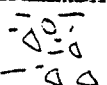
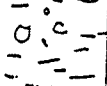
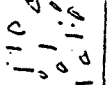
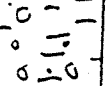
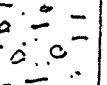
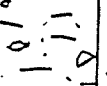
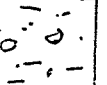
Geological Ex, Inc.
Site Scientist C. Klein
Date 10/21/76

INTERVAL	SCHEMATIC OF STRATIGRAPHY	LITHOLOGICAL DESCRIPTION	COMMENTS, INTERPRETATION
100-110'		Same	
110-120'		Same	Drilling somewhat rough, slight slower: infer cobbles, small boulders(?)
120-130'		Same	
130-140'		Same	
140-150'		Same	
150-160'		Same	
160-170'		Same	
170-190'		Same	175-190'/10 min.
190-200'		Same	190-205'/16 min. Slower rate. Infer coarser clasts in favor deposit.

DOW
DIXIE No. 13

LITHOLOGICAL LOG

Geotechnical, Inc.
Site: Industrial c. Klein
Date: 10/21/76

INTERVAL	SCHEMATIC OF STRATIGRAPHY	LITHOLOGICAL DESCRIPTION	COMMENTS, INTERPRETATION
200-220'		Same	Gravelly-sandy fan deposit
220-235'		Same	
235-250'		Same	
250-265'		Same	
265-280'		Same	
280-295'		Same	
295-300'		Same	
TD-300'	