MAR 2 3 1977

Chevron Resources Company
320 Market Street, San Francisco, CA 94111
Mail Address: P.O. Box 3722, San Francisco, CA 94119

March 18, 1977

Mr. H. D. Pilkington
Amax Exploration Inc.
4704 Harlan Street
Denver, CO 80212

Dear Mr. Pilkington:

We enclose data from our 14 drilled temperature holes at Neals-Bully Creek Area. If there are any questions, please feel free to call me. Please sign and return the attached copy.

Sincerely,

E. H. Haynes

EHH:ab

Data received March 23, 1977

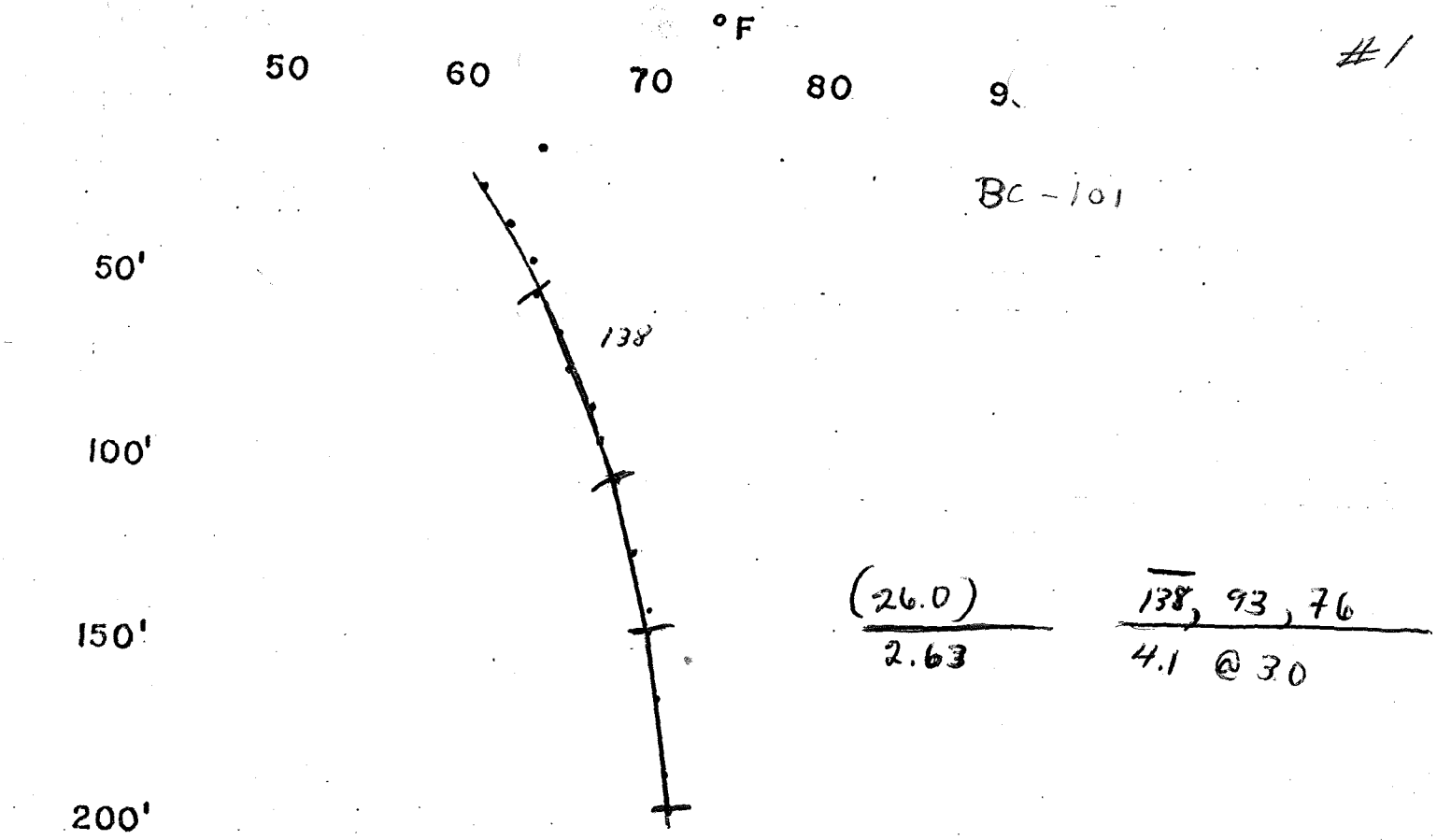
Date H. D. Pilkington
March 24, 1977

NBC #1 = 101

Lithology

0-15'	Clay - tan brown w/caliche
15-30'	Dark igneous (basalt?) soft w/SiO_2 incrustacions - weathered
30-45'	As above
45-60'	As above
60-75'	As above w/anhydrite - gypsum
75-90'	As above
90-105'	As above
105-120'	Claystone - soft - weathered - light tan
120-135'	Clay - tan brown
135-150'	As above
150-165'	Clay - w/numerous qtz frags and muscovite flakes
165-180'	As above
180-195'	Clay - light tan w frags of igneous material (weathered basalt?)

#1



BC-101

(26.0)
2.63

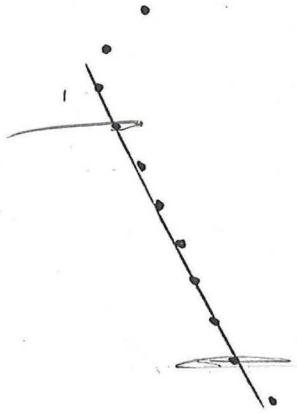
138, 93, 76
4.1 @ 30

#2

°F

50 60 70 80 90

130



50'

100'

150'

200'

250'

300'

350'

400'

450'

FEET

(29.6) / 1.02

185 / 5.6 @ 3.0

NBC #3

Lithology

131

4.6	0-15'	Clay - light tan and dark igneous material (basalt?) with frags of quartz
	15-30'	As above w/chalcedony
13.9	30-45'	Clay - light tan - 100%
18.5	45-60'	Vesicular basalt (blk) - w/clay
	60-75'	Clay - light tan - w/igneous frags
	75-90'	Clay " " " " (basalt)
	90-105'	Silicified clay stone (baked?) - hard 5 - or very fine grained tuff
37	105-120'	As above
	120-135'	Igneous - dark (basalt?) w/qtz veining
	135-150'	As above
	150-165'	As above w/ minor white alt. prod.
	165-180'	As above
	180-190'	As above

#3

°F

50 60 70 80 90

82° c/km

56

197° c/km

FEET

50' 100' 150' 200' 250' 300' 350' 400' 450'

(20.1)

2.30

82 56, 197

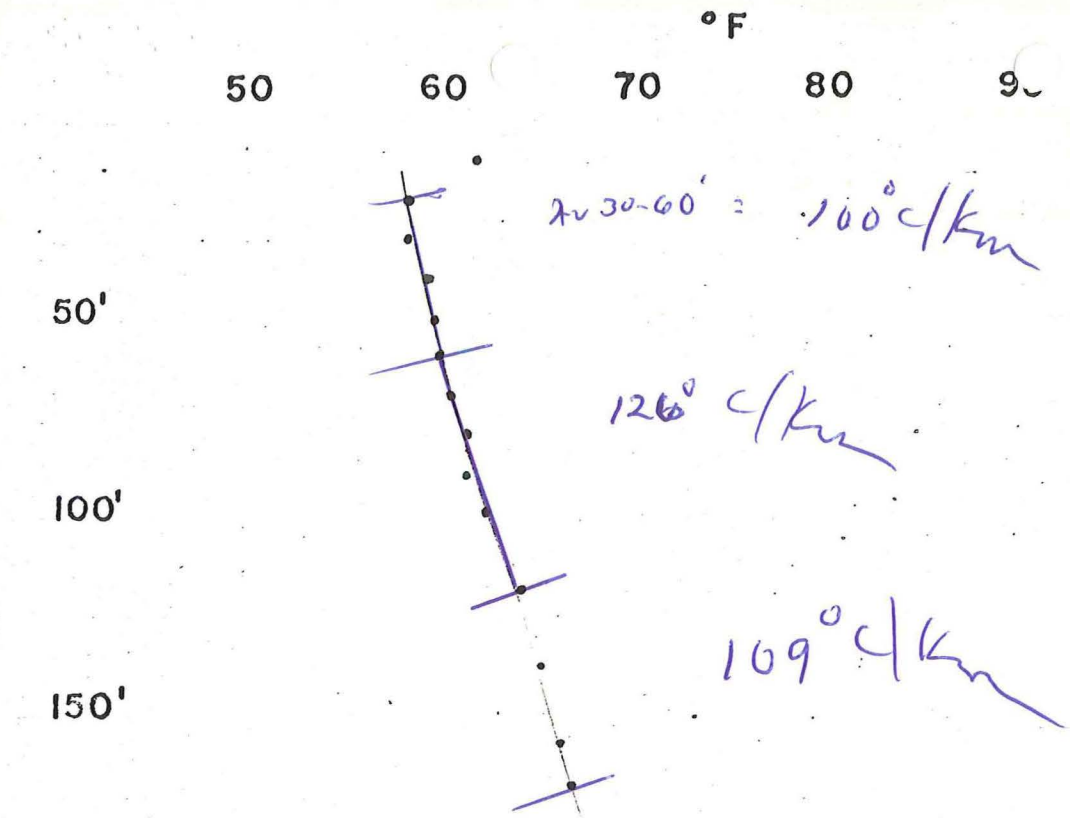
3.1 @ 5.5

NBC #7 = 134

Lithology

0-15'	Clay light tan w/vol frags
15-30'	As above
30-45'	As above
45-60'	Dark - fine grained igneous w qtz frags and clay/minor
60-75'	Tuff - white w/vol frags
75-90'	Buff colored clay or weathered tuff, w/vol frags
90-105'	As above
105-120'	Clay - buff or weathered tuff, vol (basalt) and traces of pyrite or chalcopyrite
120-135'	Weathered vesicular basalt w/chalcedony and pyrite traces
135-150'	Tuff - white, w/vol frags (basalt) & traces of quartz & occasional chards
150-168'	Tuff weathered or claystone w/vesicular basaltic frags

#7



(24.2)

1.83

100, 126, 109

3.8 @ 3.0

NBC #8

Lithology

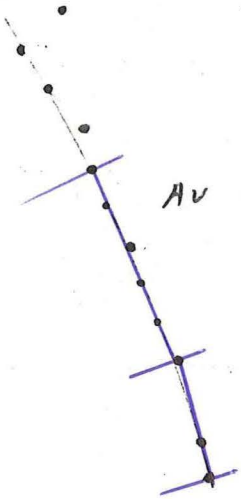
135

0-15'	Clay - buff w/rounded vol frags
15-30'	As above
30-45'	Clay, buff w silicified vol frags (light colored)
45-60'	As above w/pyrite traces on volcanics
60-75'	Clay - buff w/pyrite traces and trace tuff
75-90'	As above
90-105'	As above
105-120'	Aphanitic volcanics (basalt) w/qtz veining & incrustacions
120-130'	As above

#8

°F

50 60 70 80 90



50'

Av 15-30 m = 156°C/Km

100'

Av 30-40 = 97°C/Km

150'

200'

FEET

250'

$\frac{(24.5)}{1.95}$

$\frac{156, \overline{97}}{4.9 \quad @5.0}$

300'

350'

400'

450'

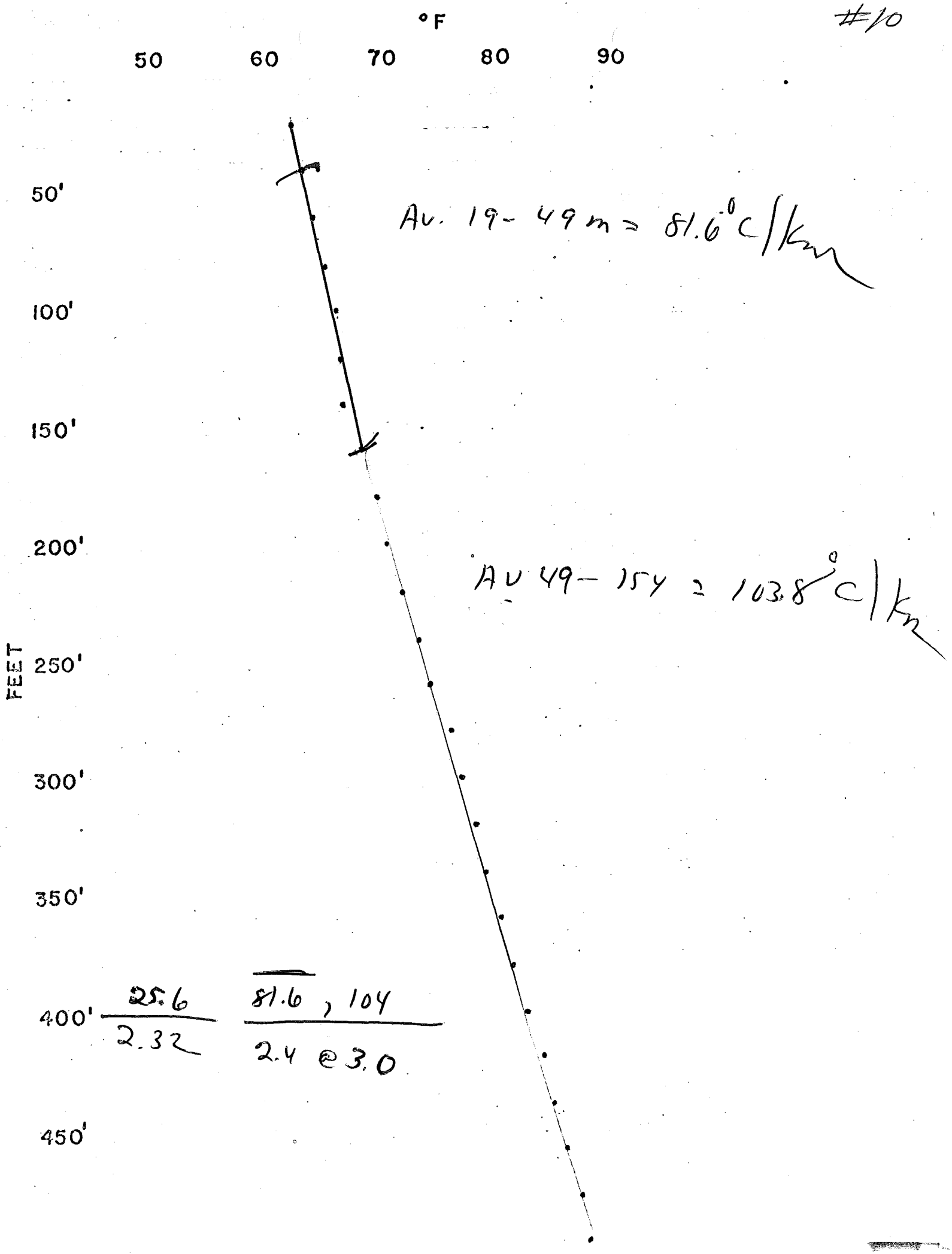
NBC #10 = 136

Lithology

0-15'	Pea gravel - w/basalt? well rounded
15-30'	Basalt?
30-45'	Light tan clay - w rare chards
45-60'	Clay - as above
60-75'	Clay - with 10% chards
75-90'	Ashy vol siltstone or claystone - w/rare basalt frags
90-105'	As above
105-120'	As above no basalt
120-135'	As above no basalt
135-150'	As above no basalt

WELL BULLY CREEK NO. 1

#10

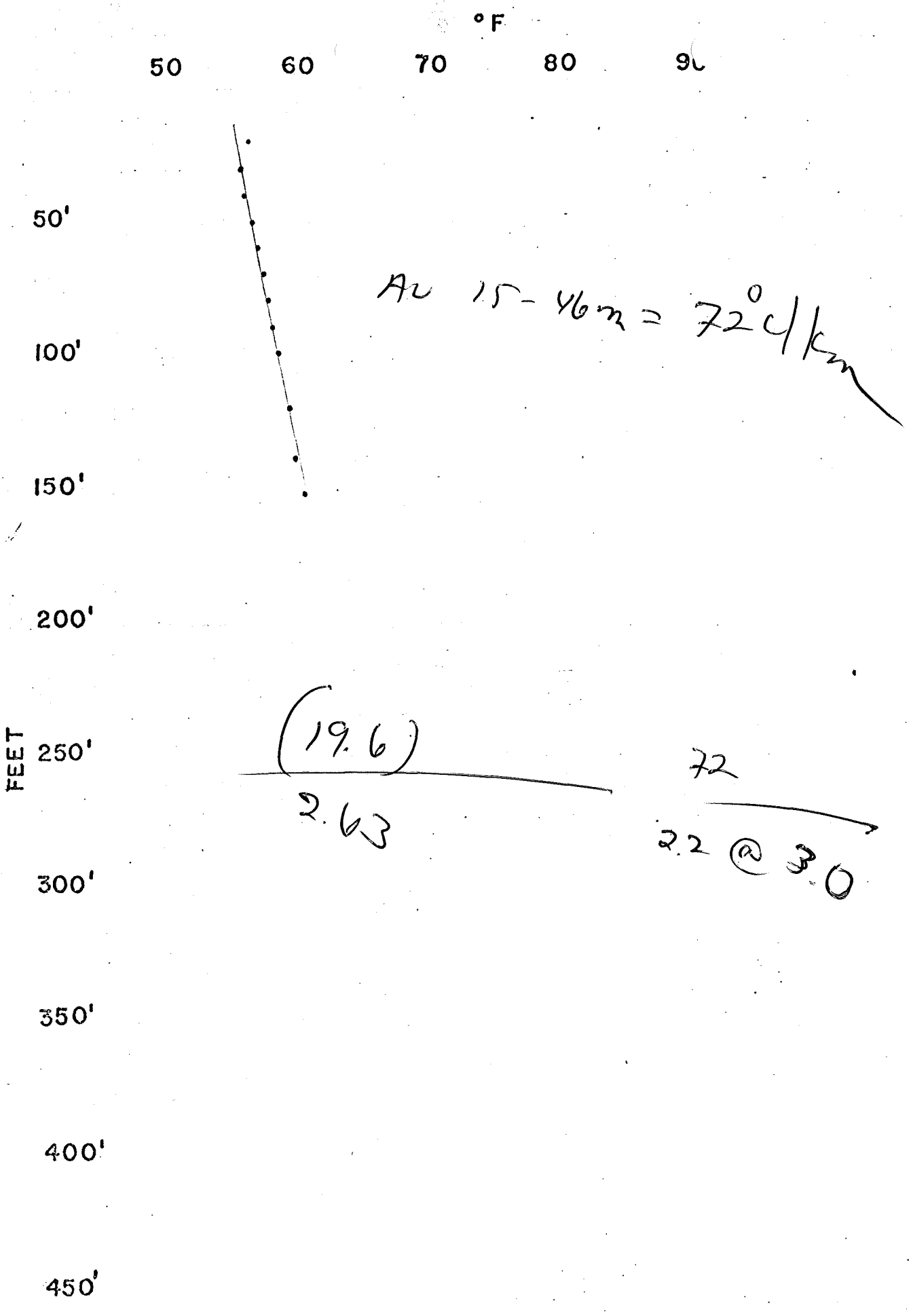


NBC #11
Lithology

137

0-15	Basalt, well rounded w/clay
15-30	As above
30-45	Clay - Buff w/igneous frags
45-60	" " "
60-75	" " "
75-90	" " "
90-105	" " "
105-120	" " "
120-135	" " "
135-150	" " "

#11


°F
50
60
70
80
90
50'
100'
150'
200'
250'
300'
350'
400'
450'
FEET
Δt 15 - 46 m = 72° C/km
(19.6)
2.63
72
2.2 @ 3.0

NBC #20

Lithology

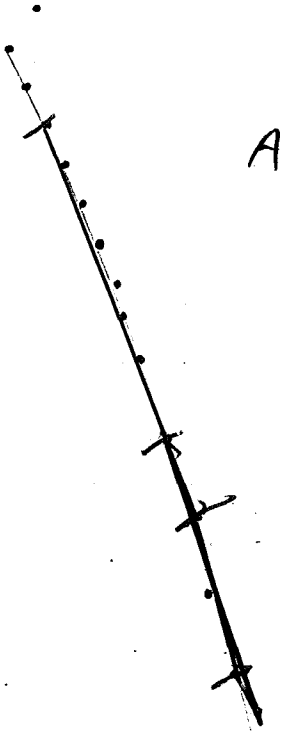
132

0-15'	Buff colored clay - consolidated - 100%
15-30'	Clay reddish brn w qtz frags w/minor caliche
30-45'	Dark aphanitic volcanic - w pyrite incrustacions
45-60'	" " " w/clay - minor amount
60-75'	As above
75-90'	" " w/no clay
90-105'	As above w silicified tuff - white
105-120'	Silicified basalt, minor clay & tuff - trace caliche w/qtz frags
120-135'	Silicified basalt w qtz frags
135-150'	As above
150-165'	As above w trace caliche
165-180'	As above w clay traces and inclusions of red volcanic (rhyolite ?)
180-195'	As above

#20

°F

50 60 70 80 90



50'

100'

150'

200'

FEET 250'

300'

350'

400'

450'

Av 15 – 43 m 2 136°/km

Av 43 – 89 m 132

(26.2)
1.43

136, 132
4.1 @ 30

NBC #21 = 106
Lithology

0-15'	Clay light tan w vesicular basalt
15-30'	Vesicular basalt w minor amount of clay
30-45'	Basalt, clay w/minor sulphur deposition
45-60'	Bi-modal - basalt w red oxidized volcanics (rhyolite?) w minor amounts of clay
60-75'	Silicified basalt - some vesicular (top of flow) - weathered
75-90'	Fine grained silicified igneous (?) - lighter than 60-75
90-105'	" " " " "
105-120'	As above
120-135'	As above
135-150'	As above, w/minor sulphur deposition
150-165'	As above w 50% clay - (transition - contact)
165-180'	Clay w vol frags
180-195'	" " "
195-210'	Clay (baked or silicified?)
210-225'	Clay - with basalt frags & traces of muscovite
225-240'	As above
240-255'	As above
255-270'	As above
270-280'	As above

#21

°F

50 60 70 80 90

FEET

50'

100'

150'

200'

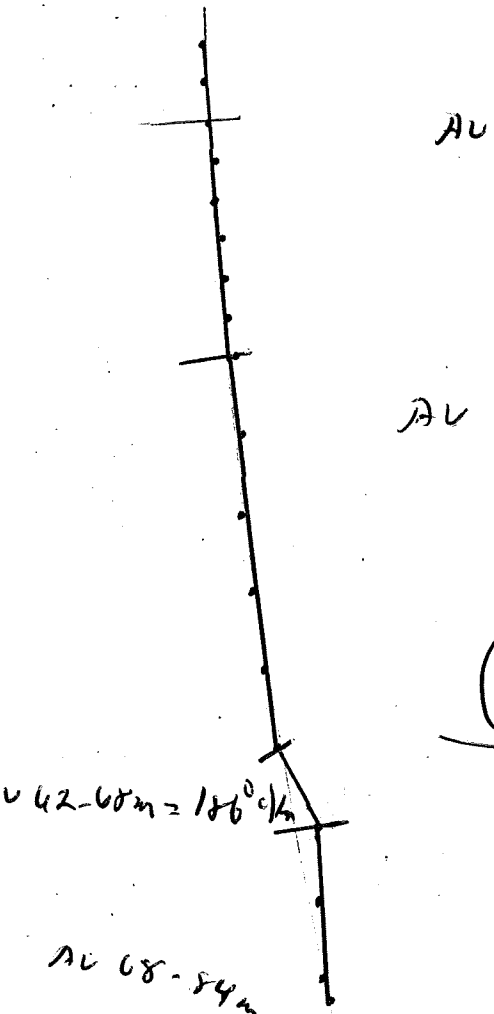
250'

300'

350'

400'

450'



Δv 15-31 m = 40°c/km

Δv 31-42 m = 39°c/km

Δv 42-68 m = 186°c/km

Δv 68-84 m = 40°c/km

(16.4) / 5.0 | 40 / 1.2 @ 3.0

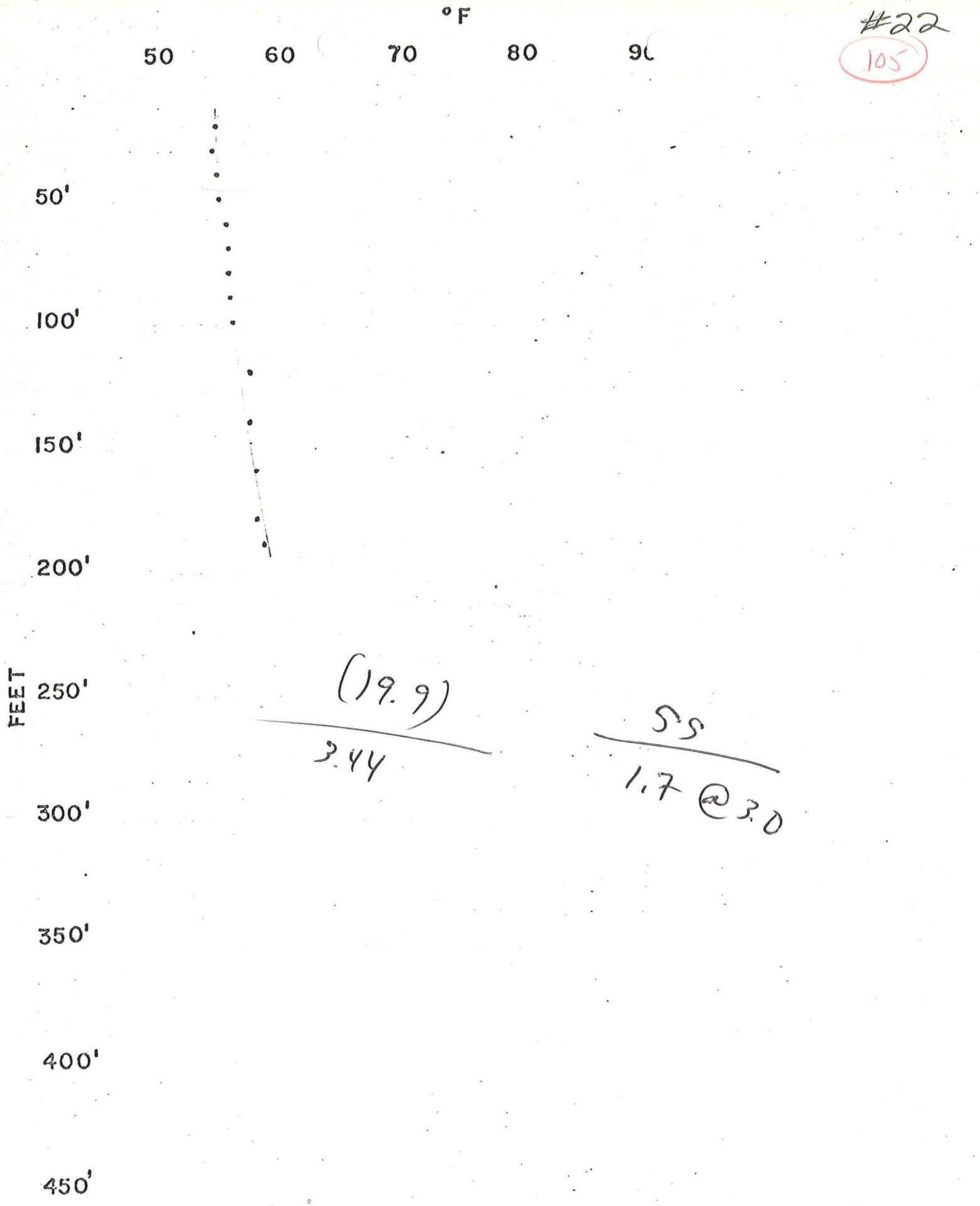
Ohm log

(16.9) / 5.0 | 40, 186 4 / 1.2 @ 3.0

NBC #22 = 105

Lithology

0-15'	Weathered silicified basalt
15-30'	As above
30-45'	As above w/trace sulphur deposition
45-60'	As above w/qtz veining (minor)
60-75'	As above
75-90'	Clay 50% light tan with vol frags
90-105'	As above
105-120'	As above
120-135'	Fine grained igneous, silicified (basalt) w/minor alt prod. & minor sulphur dep.
135-150'	Vesicular basalt w clay & great % 40% milky qtz (qtz vein?)
150-165'	Silicified basalt - weathered
165-180'	As above
180 -	As above


°F
50
60
70
80
90
50'
100'
150'
200'
250'
300'
350'
400'
450'
FEET
(19.9)
3.44
55
1.7 @ 3.0

#22
105

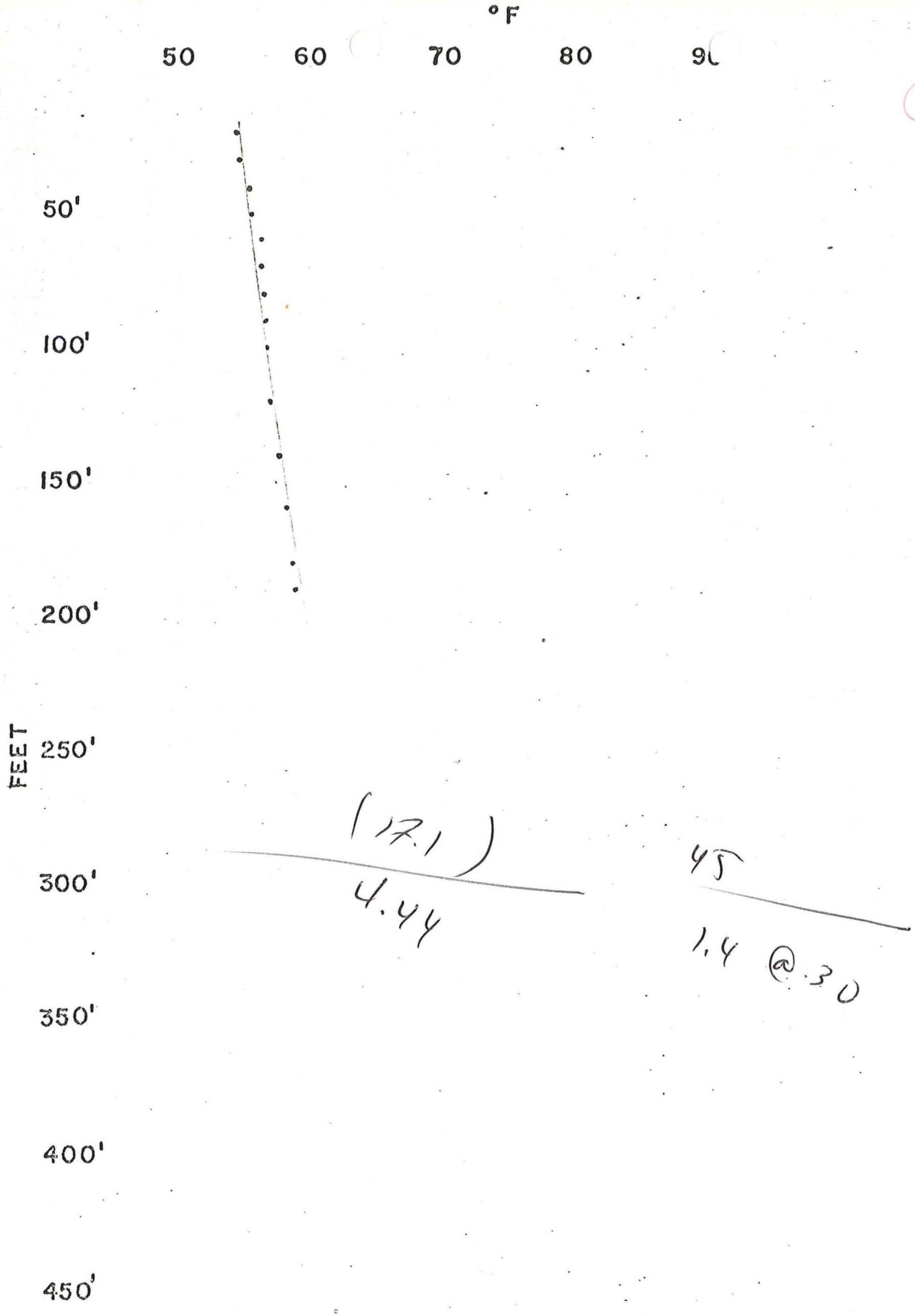
NBC #23 = 104

Lithology

0-15'	Vesicular basalt weathered w/clay - tan & caliche
15-30'	Silicified basalt
30-45'	" " w/trace sulphur deposition
45-60'	As above
60-75'	As above
75-90'	As above
90-105'	As above
105-120'	As above
120-135'	As above
135-150'	As above
150-165'	As above
165-180'	As above

#23

104



(17.1)
4.44

45
1.4 @ .30

NBC #24 = 103

Lithology

0-15'	Buff colored clay w/$CaCO_3$ (caliche)
15-30'	Qtz sand, coarse, moderately rounded 95% - many grains possibly were subject hydrothermal dissolution - w/trace caliche
30-45'	Clay, buff colored (or weathered tuff) w qtz frags (from up hole?)
45-60'	As above w muscovite and biotite chips
60-75'	As above
75-90'	As above
90-105'	As above
105-120'	As above
120-135	Coarse grained qtz sand, moderately rounded - 100%

#24

°F

50 60 70 80 90

50'

100'

150'

200'

(19.2)
3.2 ~~g~~

61
1.8 @ 3.0

250'

FEET

300'

350'

400'

450'

NBC #33 = 102

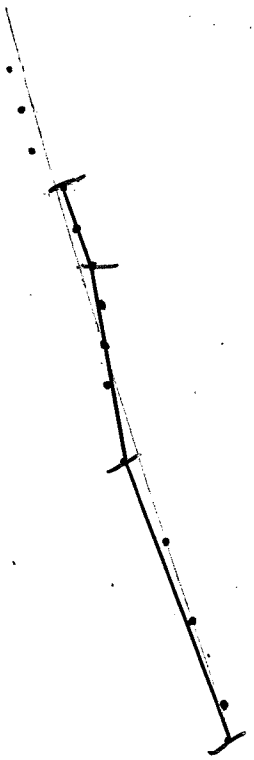
Lithology

0-15'	Clay - buff, vol frags & qtz frags
15-30'	Clay - buff w pink weathered vol (rhyolite?)
30-45'	Tuff - white
45-60'	Tuff & clay mixed
60-75'	Weathered tuff w chards - light buff w rare muscovite flakes & clay
75-90'	As above
90-105'	As above
105-120'	As above
120-135'	As above w/greater amount of clay
135-150'	As above
150-165'	Clay w vol chards
165-180'	As above
180-190'	As above

#33

°F

50 60 70 80 90



BC-102

50'

100'

150'

200'

250'

300'

350'

400'

450'

FEET

(27.2)
1.35

111, 148
4.4 @ 3.0

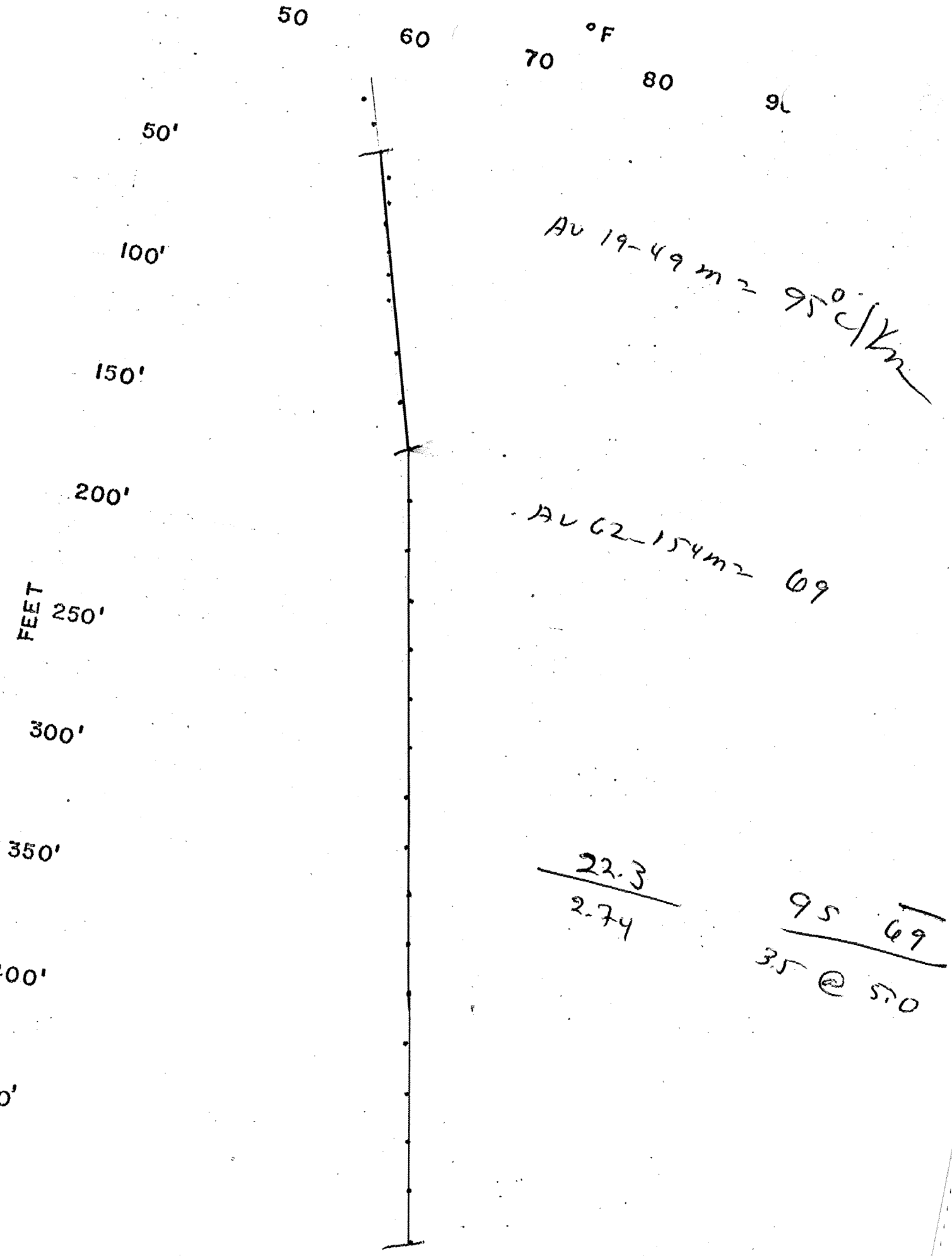
NBC #35

Lithology

133

0-15'	Clay - light tan - possibly 5% v. fine grain sand.
15-30'	V. fine light tan sand composed dominantly of SiO_2 volcanic chards? Chard size is fairly uniform, all angular - w/small amount of clay present.
30-45'	As above - with more clay.
45-60'	As above - 50% clay and v. fine sand.
60-75'	As above - w/rare basalt? (dark igneous frags).
75-90'	Grey-grn-clay - ~ 10% igneous chips - less amount of fine light sand ~ 20%.
90-105'	Grey-grn clay - 70% - SiO_2 chips (chards?)
105-120'	Light tan-grn-volcanic decop - clay - soft - white streak - 75% w/some basalt? 15% trace of pyrite - some in small qtz vein.
120-135'	Tan-grn-clay 70% w/volcanic decop sand ash flow 20%.
135-150'	Clay - as above 80% w/smaller % of chards.
150-165'	Dark 90% aphanitic volcanic (basalt?) 10% - clay - trace chalcedony
165-180'	As above (basalt?) pyrite frags xls w/ash
180-195'	As above - w/qtz filling some depressions (rare)
195-210'	Basalt (?) 95% covered with ash and clay
210-225'	Basalt ? Gabbro? 99% - small amount chalcedony & pyrite
225-240'	Dark igneous - ? - with small amount of trace mineral - malochite? dark green w/pyrite
240-255'	As above
255-270'	As above
270-285'	As above ~ 5% pyrite
285-300'	As above
300-315'	As above with clay (grey-grn)
315-330'	As above
330-345'	Dark basalt 80% - with small amount chards

345-360'	Basalt? 80% clay & chards
360-375'	Clay now missing sieved - 50% w/basalt? 40% with traces of pyrite & weathered andesite?
375-390'	As above
390-405'	Clay - 60% - chards & basalt? 10% clay - 80% - w/glass chards
405-420'	Trace of basalt?
420-435'	As above
435-450'	90% clay & chards
450-465'	" "
465-480'	" "
480-495	Clay - as above
495-500	" "


50
60
70
80
°F
50'
100'
150'
200'
250'
300'
350'
FEET
Δv 19-49 m = 95°C/Km
Δv 62-154m = 69
22.3
2.74
95 69
3.5 @ 5.0