

KARCHER NOTES:

Red Book

1921

KARCHER NOTES: Red Book

#5
438
June 11-21

Haseman & Karcher
measured records &
plotted data -

#6
445
June 13-1921

Haseman & Karcher
designed microphone
case - Plans & specification
drawn up for Hg-type.

#7
584
June 14

Haseman & Karcher
made Lab. tests on
characteristics of microphone

#8
603
June 15

Haseman - Karcher
located shale area
and got - D'Hogon's

permission to shoot on
Farm - rented by Mr Stone.

On the PM. O'Heary,
Haseman, Karcher &
Homer - went out.
St. line laid out with
alidade and holes
located every 100 ft with
steel tape - Holes
plotted up on plane
table - 1 microphone hole
and 7-shot holes were
located and drilled.

Haseman & Karcher
made a series of
hole locations at 500 ft.
intervals - 4 in all - By
alidade & Stadia rod.

June 16-21

Haseman & Karcher
assembled - Hg-Microphone
Drove out and shot holes

- (a) Shot 1-100ft- $\frac{1}{2}$ stick {MP
ME
- (b) " 2-200"-1 " - "
- (c) " 3 300"- $1\frac{1}{2}$ " - "
- (d) " 4-400"-2 " - "
- (e) " 5-500"-2 " - "
- (f) " 6-600"-2 " - "
- (g) " 7-700"-2 " - "
- (h) " 8-400" 2 " {ME
MHg
- (i) " 9-200"- $\frac{1}{2}$ " on surface {ME
MHg

Microphone I outside record

June 17-21

Haseman & Karcher

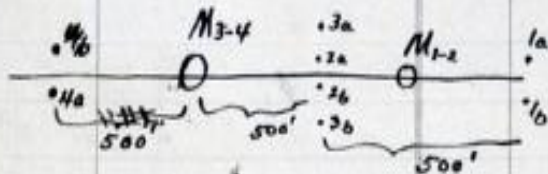
- (a) Shot #1-300'-1stick {ME in all.
MHg
- (b) " #2-400'-1 " 2 $\frac{1}{2}$ " hole
- (c) " #3-500'-2 " "
- (d) " #4-600'-2 " earth hole
- (e) " #5-700'-2 " 2 $\frac{1}{2}$ " hole
earth hole.
- (f) " #6-800'-2 " - earth hole
in water
- (g) " #7-900'-2 " - in water
earth hole
- (h) " #8-1000'-2 " - earth hole

Microphone I - outside record.

June 21-21

Haseman & Karcher

(Barnes) Haseman with car



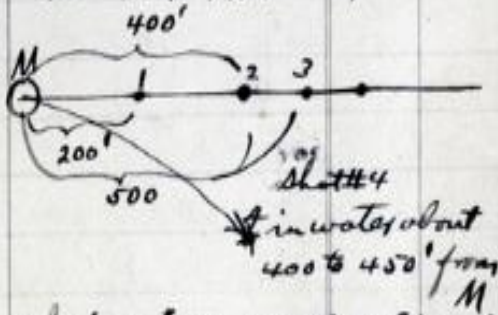
shots 1a-2a-3a-4a - 1 stick

" 1b - - - - 4b - 1/3 "

June 27-21

Haseman & Karcher

(Haseman with car)

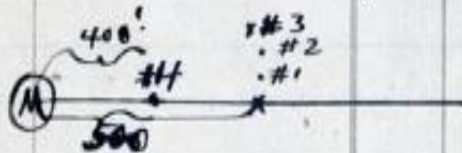


shots 1 to 4 with 1 stick
in old string of holes

June 28-21

Haseman & Karcher

(Haseman with car)



Slot #1 & 2 - 500ft

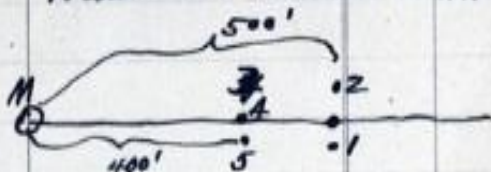
1 stick about 2' deep in side

Shot #3 - 1/2 stick in soil
about 3 ft deep

Shot #4 - 1/2 stick about 3'
deep in soil at 400 ft.

July - 6-21

Haseman & Karcher - With Truck



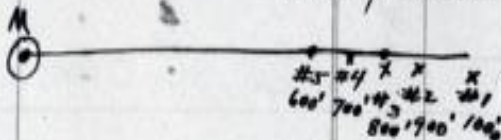
shots 1 & 2 with 1 stick
500'-

" 3-4-5 - 1 stick - 400'

New Mic on outer Record
Old Rem. on center record.

July-7-21

Haseaman & Karcher (with Trum
& George driller



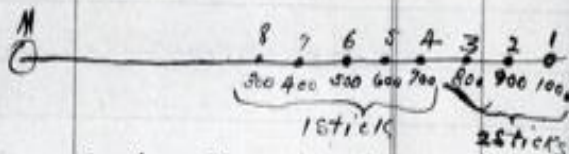
#1 & 2 & 3 - 2 sticks at
1000-900 and 800' depth.

#4 & 5 - 1 stick at 700 and
600' depth.

{ New Mic. on ^{center} ~~center~~ Recd
old Ram. " " ^{center} ~~center~~ Recd

July 8-21

Haseaman & Karcher (with Truck



Center Record - Rem. Mic.

Center " - New Mic.

July 14-21

In Arbuckles - Haseman -

Karver - Oherm - Parrine

3 - Longitudinal shots in
Hunting Limestone

Shot #1 - 472' from microphone

" #2 - 492.5' " "

" #3 - 244' " "

av. speed 11680 $\frac{\text{ft}}{\text{sec}}$

July 15-21

In Arbuckles - H. K. Oherm

2 shots in Sylvan Shale

Shot #1 - 100.85' from Mic.
across bed

Shot #2 - 95.75' from Mic. along
bed.

Average Speed
5780 $\frac{\text{ft}}{\text{sec}}$

July 18916-21

In 2 buckles - H.K.

5 Shots in Viola Limestone

Shot #1 - 506'

" #2 - 516'

" #3 - 513.5'

" #4 - 563.2' no record

" #5 - 549' " "

av. speed from 3 records

14070 $\frac{ft}{sec}$

August - 16 - 21

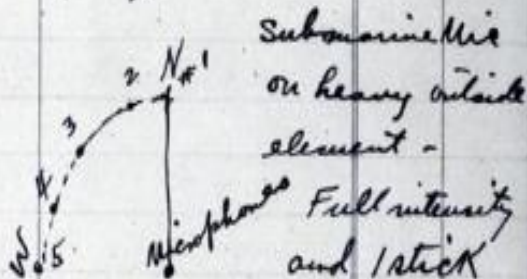
Hazen. Karber - Ryan

Submarine microphone

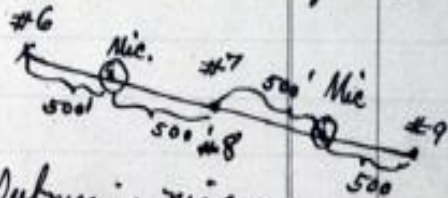
Brass-Tel-mica-microphone

At Stone -

First five shots on
quadrant of circle of radius
300 ft -



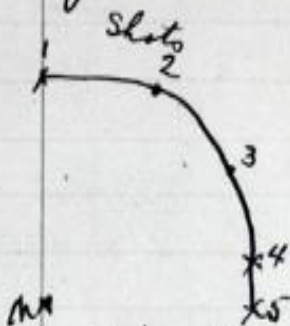
Shots 6-7-8-9 on
line at intervals of 500 ft



Full Int. Submarine mic on
and $1\frac{1}{2}$ sticks heavy outside element

Aug 17 18
Testing microphones

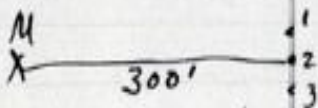
August 19



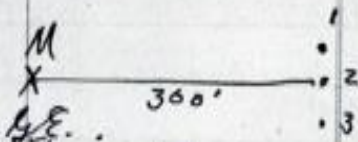
Microphones faced
Shot 1 - used $\frac{1}{2}$ stick
Shot 6 was in small
hole on top of ground
by Shot 5
used G. Co. mic

Aug 22

Three shots at 300 ft
from microphones. Poor
Rec. vds because
Turning fork affected
circuits -



Aug 23

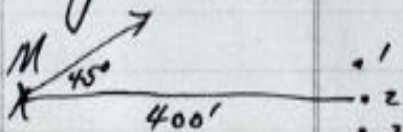


Microphones about
45° from shots. One
planting of Mic -

Shots 1, & 2 in large
hole mudded in. Used
same hole over
Shot 3 in 1 1/2" hole
with mud.

1/3 stick 40% Dynamite

Aug. 24



B.E. microphones
planted 45°. used $\frac{1}{3}$
stick 40% Dy.

Shot 1 in gas pipe
 $1\frac{1}{4}'' \times 3''$ - Iron bomb.

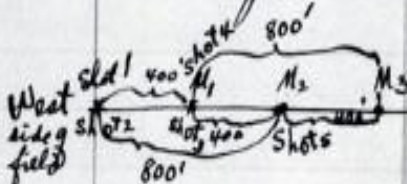
Shot 2 in cans with
plaster paris - Plaster paris
bomb.

Shot 3 in $1\frac{1}{2}''$ hole with
mud. —

Holes about 3' deep.

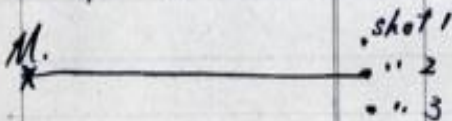
Aug 25

Started to shoot string
of holes 400' apart -
use $1\frac{1}{2}''$ hole full depth of
angel - mudded in. 40%
at 400' intervals used $\frac{1}{2}$ stick
at 800' " used $1\frac{1}{2}$ stick 40'
microphones set at 45° to line

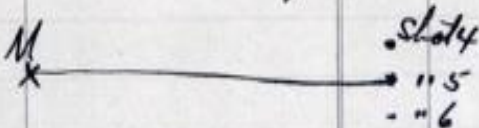


Aug 26-21

Shot three $1\frac{1}{2}$ " holes - open
depth of auger with $\frac{1}{2}$ "
stick 40% at 400 ft.
on fairly level place



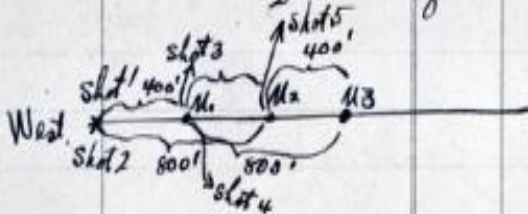
Shot the three preceding
holes after shooting $\frac{1}{2}$ "
stick in them making a
jug form with 1 stick
40% - Holes left open



Shot two 4 inch holes
but lost records.

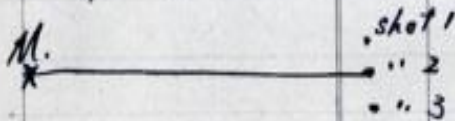
Aug 27-21

Started to shoot
string of holes 400' apart
used $\frac{1}{2}$ " stick and left
holes open for 400 ft.
Used 1 stick and left
holes open for 800 ft -
Used $1\frac{1}{2}$ " holes for each

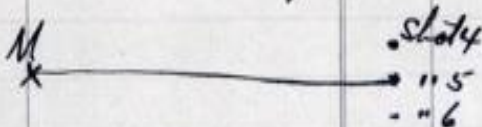


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stick 40% at 400 ft.
on fairly level place



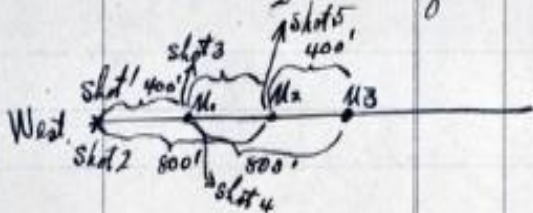
Shot the three preceding
holes after shooting $\frac{1}{2}$ "
stick in them making a
jug form with 1 stick
40% - Holes left open



Shot two 4 inch holes
but lost records.

Aug 27-21

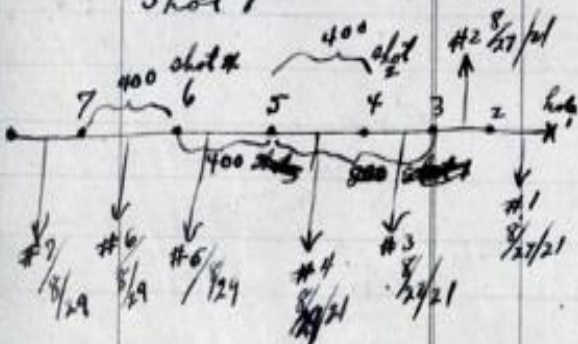
Started to shoot
string of holes 400' apart
used $\frac{1}{2}$ " stick and left
holes open for 400 ft.
Used 1 stick and left
holes open for 800 ft -
Used $1\frac{1}{2}$ " holes for each



Aug 29-21

Continued shooting
string of holes

Shot 1



filenames.

New Kirk dome

9/1/21 photos - 1-2-3-4
positions

used $\frac{1}{2}$ stick - 60 70
in open holes about $3\frac{1}{2}'$

Film #8 - 1-2-3-4

9/2/21 - Shots - 1-2-3-4-...-9.

Shot 1 was at location 3

" 2 at " 4

etc up to shot 9

Film #8 - 1-2-3-4-5-6-7-8-9.

9/3/21 - Shot 1 at position 5 mic at 6
" 2 " " 6-mic at 7

" 3 midway between
position 3 & 4. - mic at 5
shot 4 at position 4 - mic at 5

Film #1-2-3-4.

J. C. KACHER

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