#7 Ben Harrelson
& Miscellaneous
Warbasse=HiValley

VII

#28

K & E
REG. U. S. PAT. OFF.

COLLEGE FIELD BOOK
360 C

Grace D. Clark, 16 1N-2E
Padelt & Reservoir 5N-1W

NAME Wm H. Bartlett B.L.
8006 E Culver, Phoenix, Ariz.

18-19

15-16

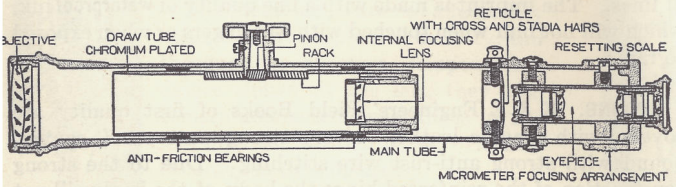
K+E SURVEYING INSTRUMENTS.

The line includes every type of instrument from the Precise Theodolite to the Builders' Level.

K & E Surveying Instruments are in use by the U. S. Coast and Geodetic Survey, the U. S. Geological Survey, the U. S. Engineers, the U. S. Army, the U. S. Navy, the U. S. Forest Service; by most State and Municipal Departments; by Engineers, Surveyors, Architects, Colleges and Schools.

Among the improvements which have created the wide demand for K & E Surveying Instruments, is the **K & E Internal Focusing Telescope** shown below.

The **K & E Internal Focusing Telescope** was first incorporated in K & E instruments in 1925 and is now standard construction on most transits and levels of the better grades.



One of the many advantages of this construction is as follows:

When the conventional type of telescope is focused by the movement of the objective lens, the volume of air in the telescope is changed, since air is pumped in or out of the telescope as the space within is increased or decreased by the change in position of the lens. Dust and moisture present in the air thus find their way into the telescope.

The illustration above plainly shows that the **Internal Focusing Telescope** has a one-piece main tube closed at one end by the objective lens, and at the other by the eyepiece. Focusing is accomplished by means of the internal lens, the movement of which does not change the volume of air within the tube, so that this type of telescope can be made practically dust and moisture proof.

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W½ Lloyd L James et al. E½

N Tp line → E

Wash 10 lks SW } 3.00 Rd NE SW
Road NE SW } 7.30 " NW SE
} 11.50 Wash 25 S
Wash 20 lks SW } 21.30 Rd NE SW
} 21.40 Wash 10 SW
Road NW SE } 37.50 Rd SW NE
} 48.00 1/4 IPB Cp

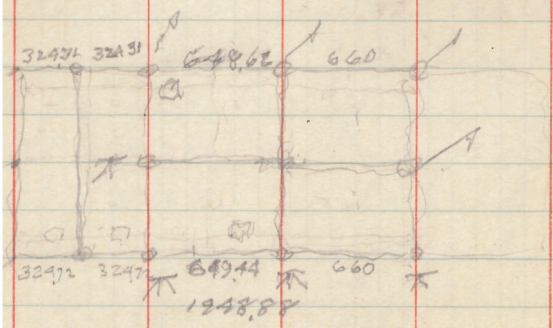
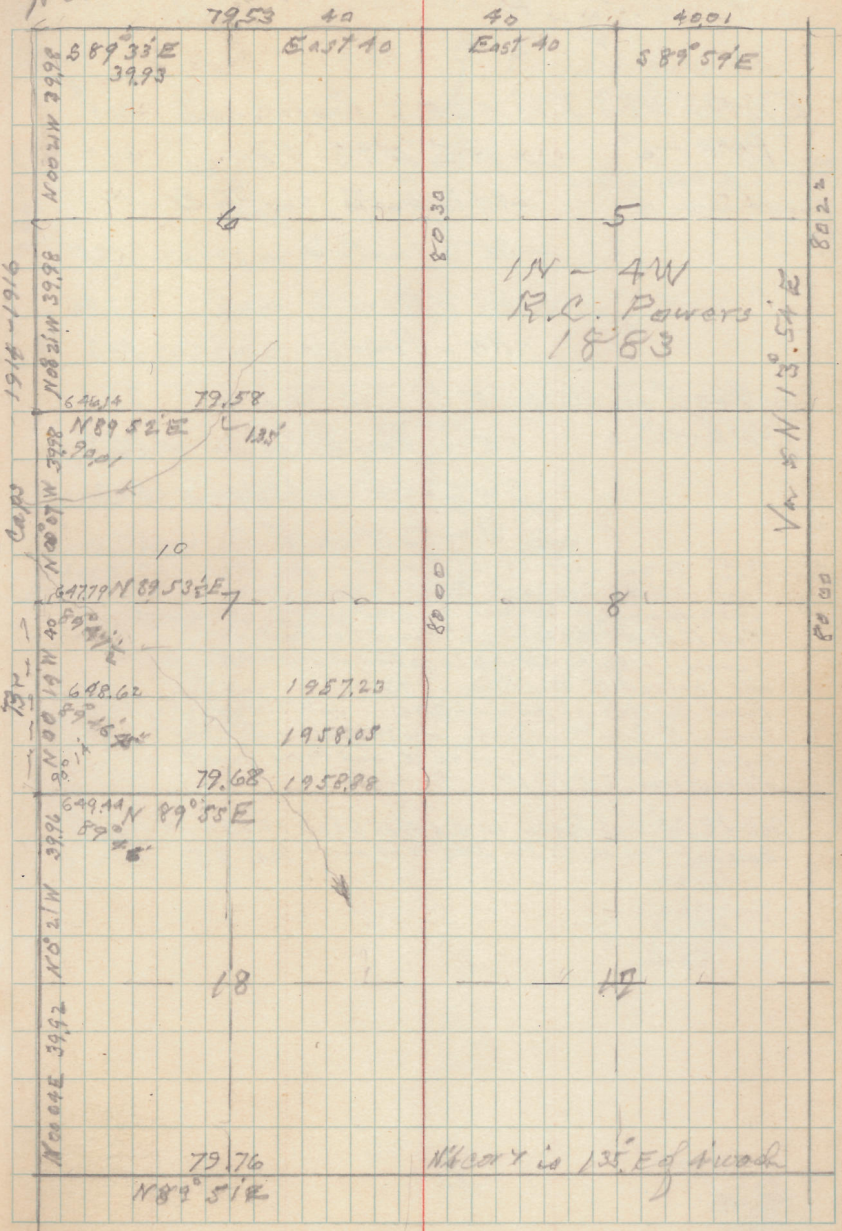
BTN 12° W
4.06

Line

Line = 649.44 + 649.44 + 660.0

66
.3
19.8

5280
5280
10560
20
10580



TP Cor S 89° 33' E Br Caps (32)