

Date Received FEB 23 1916

ORDER No. [] Delivered

Name Anaconda Copper Mining Co Butte State Mont.

Inst. No. Shop No.

INSTRUMENT.

TRANSIT NO. 62 Mg.
WYE LEVEL, for extra
DUMPY LEVEL, erecting } see below.
" " inverting }
ROAD BUILDER'S LEVEL.
PLANE TABLE NO.
CURRENT METER NO.

DIA. 7. 6 1/2. 5. 4 1/2. 4.

Table with handwritten numbers 8182 and 8182 in the first two rows.

Foot Screws.

Three Leveling Screws with Shifting Center. Steel Center.

Finish.

Standards, leather finish.
" metal " in Black. in Yellow.

Silver.

Compass Bottom. " "
Finish Instrument in leather.
Horizontal Circle on Solid Silver.

Vertical Circles.

Vertical " " "
Vertical Arc Silvered.
Aluminum Guard to Vertical Circle.
Pennsylvania Arc. (Movable Vernier)
Movable Arc.
Double Opposite Verniers A & B to Vertical Circle.

Beaman stadia arc

GRADUATIONS.

Horizontal Circle, reading to 30 Sec. Size of Circle 6 1/4.
" " " " " " " " 20 " " " " " " 6 1/4.
" " " " " " " " 10 " " " " " " 7.
Vertical Circle, Dia. 6. 5 1/2. 5. 4 1/2. 4.
" " " " " " " " 30 Sec. Size of Circle 5.
" " " " " " " " 20 " " " " " " 5 & 5 1/2.

Compass.

Verniers of Horizontal Circle at 35 degrees to line of sight.
Variation Plate.
Oblong Compass.
Twisted Needle.
Reading Glasses for Horizontal Circle.

TELESCOPE.

Inverting. Aperture: 1 1/8. 1 1/4. 1 3/8. 1 1/2. 1 5/8. 1 3/4.
Power of Eye Pieces 4/10, 5/10.
Striding Level for telescope axis, between standards.
" " at points of contact in Wyes.
" " vial mounted by springs.
" " for the telescope parallel to line of collimation.

Levels.

Reverston Level.
Level to Vertical Vernier Frame.
Focussing Screw on Side.
Offsetting Arrangement.
Center Point on top of telescope.
Graddenter Attachment.

Clamps.

Reversible Clamp & tangent screw to telescope.
" " " " vertical frame with level.

Wires.

Fixed Stadia Wires.
" " and Inclined Wires. Fig. X, Fig.
Inclined Square. Fig. C.
Disappearing Cross and Stadia Wires.

PRISMS etc.

Prism. Plain kind with colored glass. (Must swing thru standards. When drawn out fully, use high standards.)
Improved " " " "
Roof Prism.
Short Focus Lens. 1. 2.
Reflector for illuminating cross-wires.
Small Reflector in center of telescope axis.
Table for Lamp.

Style I.

Style I Auxiliary Telescope } Threaded side extensions to telescope axis.
" II " "
Solar Equatorial Adapter.
Solar Screen.

Solars.

Single Colored Glass. (For all telescopic solars.)
Pearson's Solar } threaded extensions to telescope axis.
Latitude Level }
Solar Attach't & Top Telescope Large, with weight. (Erect or invert. (see main teles.)
" " " " " Small, without " } Smallest inverted telescope.
Quick Leveling attachment.
Bracket.
Trivet.
Lateral Adjuster.

TRIPOD.

Regular Stiff Split Leg.
Half Length " " "
Extension Tripod.
Half length Extension Tripod.
Tunnel " "
LEVEL with steel center.

Gossamer Bag.
Silk "
Cravenette "
Stick. - Brush.
Leather Case.
" " with shoulder straps.
Pack Upright.
Pack Lying Down.

WYE LEVEL OF DUMPY

" " micrometer screw. (Engineers.)
" " three leveling screws.
" " metal mirror.
Extra Sunshade with small aperture.

HORIZONTAL CIRCLE.

Single Verniers, A & B (in place of Fig. 1 or 2.) One row 0-360 clock'w. Straight figures. Middle Vernier line in center of opening.
Inner Row 0-360 clockwise } Inclined Figures.
Outer " 0-90-0
Inner Row 0-90-0 } Inclined Figures.
Outer " 0-360 clockwise
Inner Row 0-360 " } Mine
Outer " 0-360 contra " } Transite
Third " m'kd every 10°, N°, NEtc., NWetc. 3, SE, SWetc. Only.
Double Vernier, A, at eye end with Single Vernier, B, at object end; Inner Row 0-360, Outer Row 0-360 inclined figures.
Grad. & Verniers Figs. 3, 1/4 double 4, 5, 1/2 single 6, 7, 7a Double Ver. Inclined Fig.
Other Figuring.
When Circle is turned out to size the shortest lines of a 10" Grad. should be only 2 1/2 times longer than the smallest spaces are wide.
Place Inner Row Figures as close as 1/100 to 1/100 in. to end of degree lines.

VERTICAL CIRCLE.

One Row 0-360 (Clockwise } Middle vernier line in center of opening
(Straight figures. } Single A & B }
One " 0-90-0 regular, inclined, figures } Double } A & B } Verniers
Other Figuring.

COMPASS.

One Single Row 0-90-0 large straight figures, Regular
Inner Row 0-90-0 " " " } Zero at N. } for mine
Outer " 0-360 inclined " " } transite
One Single Row 0-360 large straight " " " N.
One " 0-360 " " " " " B. } Special order. See blue print.

