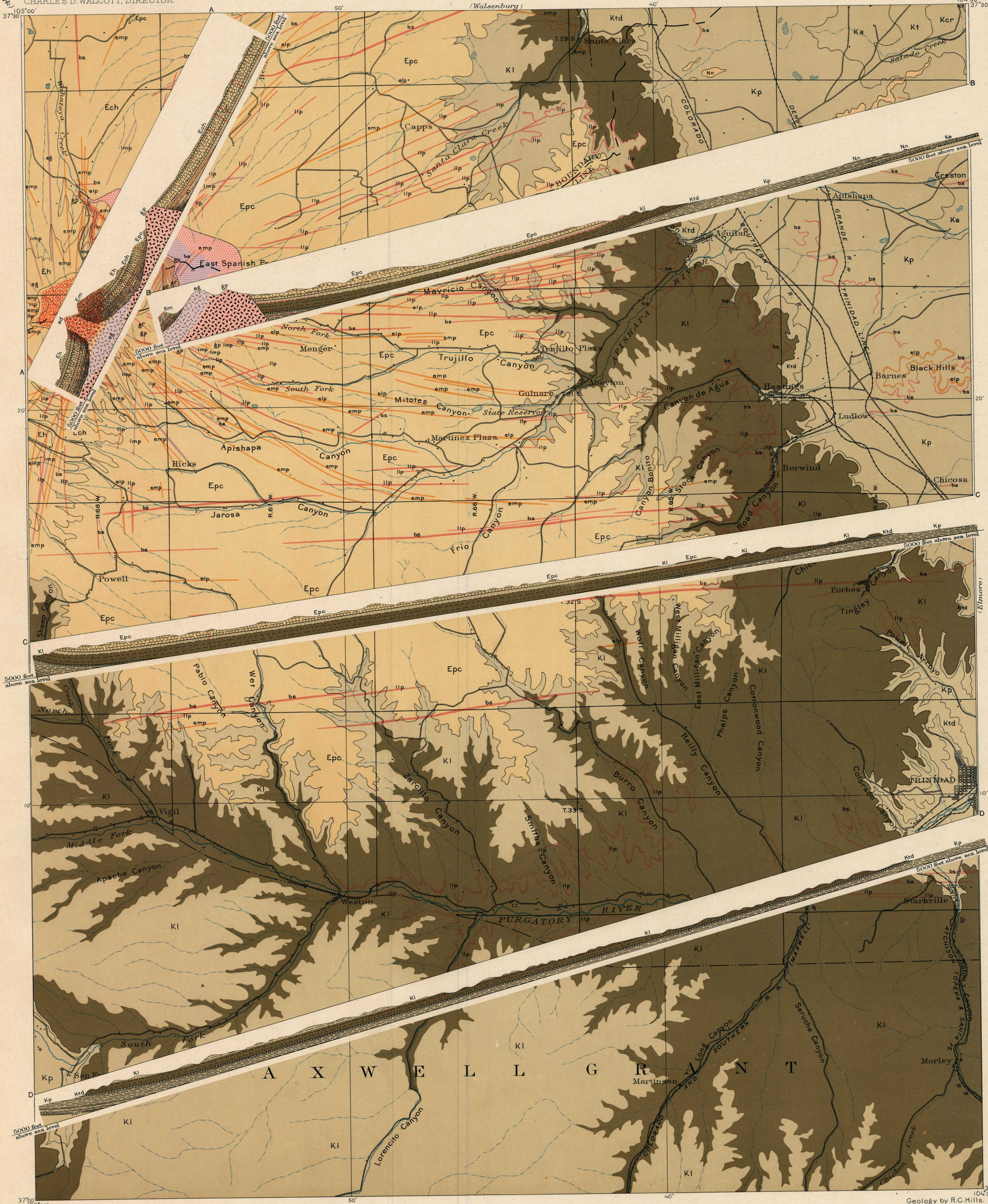
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

STRUCTURE-SECTION SHEET

COLORADO
SPANISH PEAKS QUADRANGLE

(Huerfano Park) (Walsenburg) (Apishapa)

105°00' 50' 40' 104°30' 37°30'



LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL	SECTION SYMBOL		
Nn	Nn	Nussbaum formation (sandstone and conglomerate)	NEOCENE
Eh	Eh	Huerfano formation (coarse, brown or reddish sandstone and conglomerate; red or brown clay at base)	EOCENE
Ech	Ech	Cuchara formation (cavernous variegated sandstone, brown clay and sand at base)	EOCENE?
Epc	Epc	Poison Canyon formation (conglomerate and sandstone with beds of yellow clay)	
Em	Em	Metamorphosed Eocene (quartzite and quartzitic conglomerate grading into unaltered rocks)	
Kl	Kl	Laramie formation (sandstone and shale with beds of coking and domestic coal.)	CRETACEOUS
Ktd	Ktd	Trinidad sandstone (massive and shaly sandstone)	
Kp	Kp	Pierre shale (shale of various shades of gray, with concretions)	
Ka	Ka	Apishapa formation (coarsely laminated shale often bituminous; paper shale at base)	Subdivisions of the Niobrara formation (Elmore)
Kt	Kt	Timpas formation (calcareous shale with thin-bedded gray limestone)	
Kcr	Kcr	Carlile shale (gray shale capped by soft sandstone)	
Km	Km	Metamorphosed Cretaceous (slate, quartzite, and partly altered sandstone)	

IGNEOUS ROCKS

SHEET SYMBOL	SECTION SYMBOL		
gp bs llp	gp llp	Basalt, granite-porphyry, granite-felsophyre, and late lamprophyre (stock, dikes, and sheets)	EOCENE and NEOCENE
ag lmp	ag	Augite-granite-porphyry and late monzonite-porphyry (stock and dikes)	
emp elp ad	elp ad	Augite-diorite, early lamprophyre, and early monzonite-porphyry (stock, dikes, and sheets)	

Dikes and sheets are shown in detail on the Igneous Geology sheet.

Faults

Known productive formations

Metalliferous deposits (area containing metalliferous deposits, chiefly silver and lead)

Slightly auriferous gravels

Coal (Laramie formation contains coal beds in its lower portion. Coking coal occurs to the south of the Apishapa River; domestic coal to the north)

Henry Gannett, Chief Topographer.
E.M. Douglas, Topographer in charge.
Triangulation by A.H. Thompson.
Topography by W.H. Herron and W.J. Lloyd.
Surveyed in 1895.

Lloyd
Herron
Lloyd

Scale 1/125000
1 1/2 0 1 2 3 4 5 Miles
1 1/2 0 1 2 3 4 5 Kilometers

Edition of Mar. 1901.

Geology by R.C. Hills.
Surveyed 1894-1895.