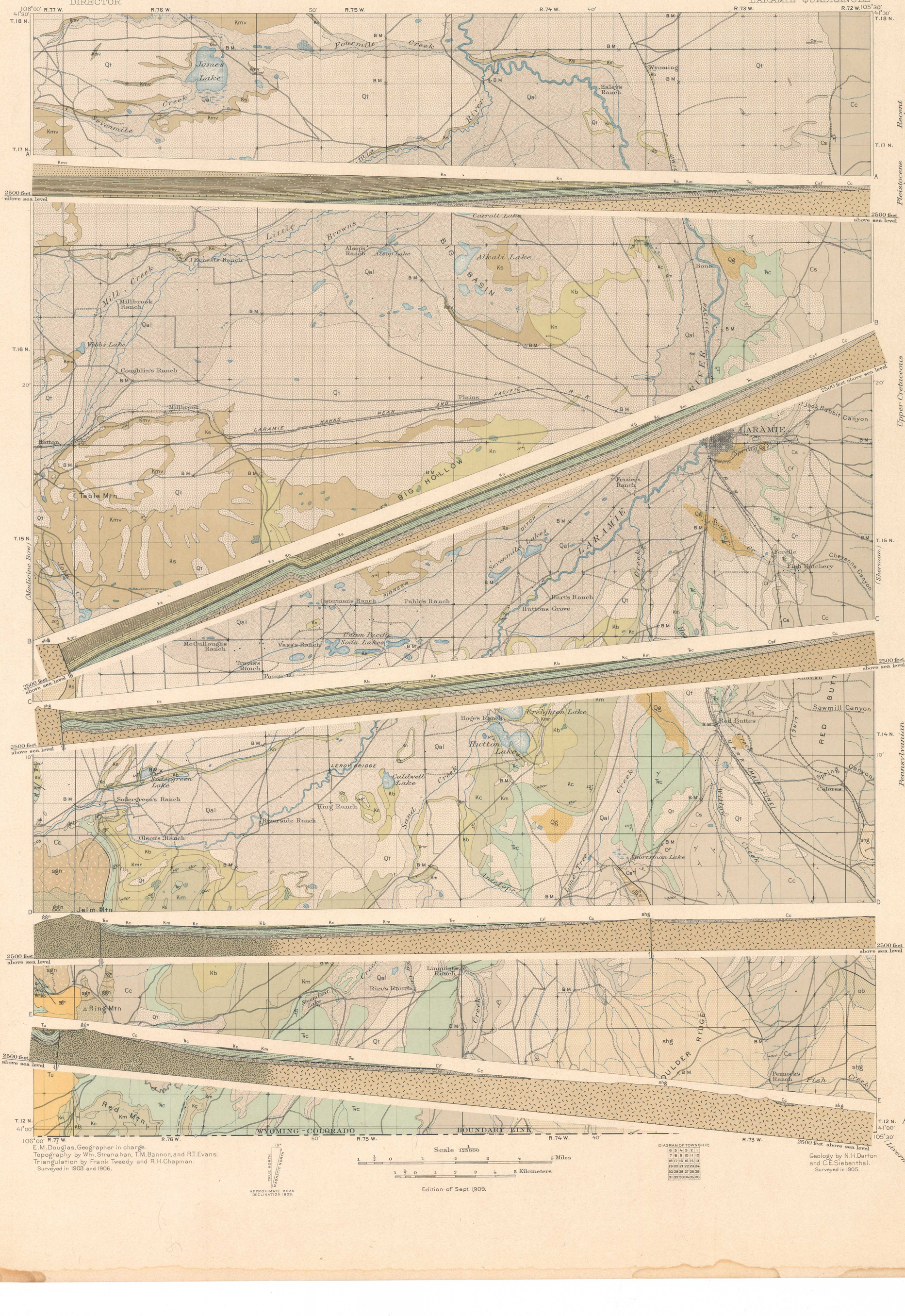
U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH
DIRECTOR

STRUCTURE SECTIONS

WYOMING
(ALBANY COUNTY)
LARAMIE QUADRANGLE



LEGEND

SEDIMENTARY ROCKS

SHEET SYMBOL	SECTION SYMBOL			
Qal		Alluvium (only the larger areas shown)	Recent	QUATERNARY
Qg		Gypsite deposits (in alluvium)	Recent	QUATERNARY
Qt		Higher terrace deposits (gravel and sand)	Pleistocene	QUATERNARY
Tu	Tu	Undifferentiated Tertiary (sand, gravel, and conglomerate)		TERTIARY
		UNCONFORMITY		
Kmv	Kmv	Mesaverde formation (soft gray massive sandstone with gray shale)	Upper Cretaceous, Montana group	CRETACEOUS
Ks	Ks	Steele shale (dark clay shale)	Upper Cretaceous, Montana group	CRETACEOUS
Kn	Kn	Niobrara limestone (impure chalky)	Upper Cretaceous, Colorado group	CRETACEOUS
Kb / Kmr	Kb	Benton shale (gray shale with sandstone at top and Mowry hard shale member Kmr in lower part)	Upper Cretaceous, Colorado group	CRETACEOUS
Kc	Kc	Cloverly formation (hard massive gray to brown sandstone with purple to gray shale in middle)		CRETACEOUS
Km	Km	Morrison formation (massive light greenish-gray to maroon shale and thin limestone)		CRETACEOUS OR JURASSIC
		UNCONFORMITY		
Trc	Trc	Chugwater formation (red sandstone and shale with thick beds of gypsum)		TRIASSIC OR PERMIAN
Cf		Forelle limestone (gray limestone in part gypsiferous) — Combined with Satanka shale on sections A-A, B-B, and C-C	Pennsylvanian	CARBONIFEROUS
Cs	Csf	Satanka shale (red sandy shale with local gypsum deposits)	Pennsylvanian	CARBONIFEROUS
Cc	Cc	Casper formation (red and gray sandstone and gray to purple limestone)	Pennsylvanian	CARBONIFEROUS

IGNEOUS ROCKS

shg	shg	Sherman granite (coarse pink granite penetrated by numerous dikes, includes schists and other crystalline rocks on sections)	PRE-CAMBRIAN
ob		Older basic intrusives (dark diorite, gabbro, syenite and granodiorite, some gneiss; only the larger masses shown)	PRE-CAMBRIAN
ggn	ggn	Granite gneiss (coarse, grayish-pink, biotite gneiss, and fine, pink, muscovite gneiss)	PRE-CAMBRIAN
sgn		Schist and gneiss (schistose basic and acidic lavas, with doubtfully sedimentary schists)	PRE-CAMBRIAN

Faults

10 Strike and dip of stratified rocks

E. M. Douglas, Geographer in charge.
Topography by Wm. Stranahan, T. M. Bannon, and R. T. Evans.
Triangulation by Frank Tweedy and R. H. Chapman.
Surveyed in 1903 and 1906.

APPROXIMATE MEAN DECLINATION 1903.

Scale 1/125000

1 1/2 0 1 2 3 4 5 Miles

1 1/2 0 1 2 3 4 5 Kilometers

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

Edition of Sept. 1909.

Geology by N. H. Darton and C. E. Siebenthal.
Surveyed in 1905.