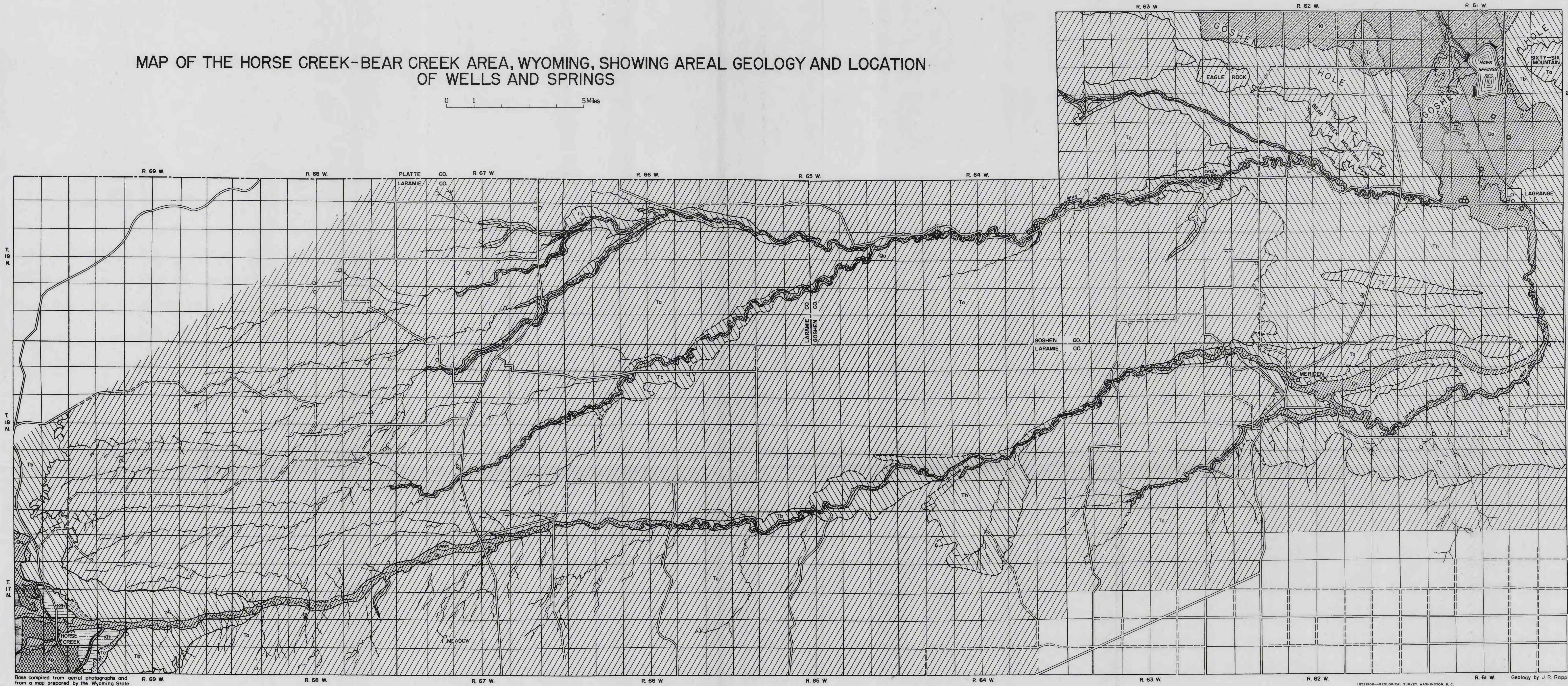
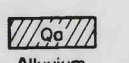
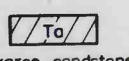
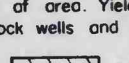
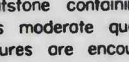
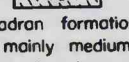
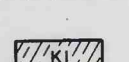
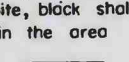
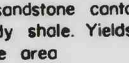
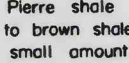








MAP OF THE HORSE CREEK-BEAR CREEK AREA, WYOMING, SHOWING AREAL GEOLOGY AND LOCATION OF WELLS AND SPRINGS

0 1 5 Miles



EXPLANATION

-  Alluvium
Sand, gravel, cobbles, boulders, silt, and clay. Yields moderate to large quantities of water to irrigation wells near Laramie.
-  Arikaree sandstone
Coarse sand, gravel, sandstone, and conglomerate in western part of area; fine-grained sand and sandstone containing volcanic ash in eastern part of area. Yields small quantities of water to domestic and stock wells and springs.
-  Brule formation
Predominantly bentonitic siltstone containing lenses of volcanic ash and sandstone. Yields moderate quantities of water to irrigation wells where fissures are encountered; otherwise, yields only small quantities to domestic and stock wells and springs.
-  Chadron formation
In western part of area mainly medium to coarse-grained sandstone but conglomeratic in places. Contains volcanic ash. In eastern part of area, variegated silt and clay containing channel sandstones. Yields a small amount of water to one well in the area.
-  Lance formation
Variegated sand and shale, cross-bedded channel sandstone, and a few beds of light, black shale and limestone. Supplies one small spring in the area.
-  Fox Hills sandstone
Medium-grained brown sandstone containing beds of gray and tan shale and sandy shale. Yields a small amount of water to one well in the area.
-  Pierre shale
Fine-grained dark gray to brown shale, sandy shale, and stobby sandstone. Yields small amount of water to one well in the area; in general not a good aquifer.
-  Colorado group
Niobrara formation
Limestone and calcareous shale. Contains some layers of impure shaly limestone. Yields no water to wells in the area.
-  Benton shale
Gray to black shale interbedded with thin beds of limestone and sandstone. Yields no water to wells in the area.
-  Stock, domestic, or unused well
-  Flowing well
-  Irrigation well
-  Spring
-  Well sampled for chemical analysis
-  Stream sampled for chemical analysis

Base compiled from aerial photographs and from a map prepared by the Wyoming State Highway Department