



EXPLANATION

<p>Quaternary</p> <ul style="list-style-type: none"> Alluvium Older gravel 	<p>Tertiary</p> <ul style="list-style-type: none"> Volcanic rocks (Lava flows and tuffs) Intersive igneous rocks (Mostly quartzite and trachyte porphyry) 	<p>Upper Cretaceous</p> <ul style="list-style-type: none"> High Park formation (Flaggy limestone; may include some beds younger than Eagle Ford) Buda limestone (Massive limestone) Del Rio shale (Green clay shale) Georgetown limestone (Massive limestone and interbedded marly limestone) Edwards limestone (Massive cherty limestone) Comanche Peak limestone and Walnut clay (Of Pretertiary age) and Kainer sandstone of Tertiary age (Marly limestone, marl, and massive sandstone) Glen Rose formation (Massive limestone interbedded with marl and clay) 	<p>Middle Cretaceous</p> <ul style="list-style-type: none"> Maravilla chert (Limestone and bedded chert) Woods Hollow shale (Clay shale with thin limestone and sandstone beds) Fort Penn formation (Massive limestone, bedded chert, and conglomerate; of Black River or Chazy age) Albino shale (Underlaid shale and thin limestone beds) Marathon limestone (Flaggy limestone, interbedded with shale; limestone sparse disconformity member, Coe, near middle) Dagger Flat sandstone (Massive sandstone interbedded with shale) 	<p>Lower Cretaceous</p> <ul style="list-style-type: none"> Thrust faults (Thrust faults; the solid line shows where down, dotted where up, and dashed where covered by alluvium, etc.) Normal fault (Normal fault; U, upthrown side; D, downthrown side) Strike and dip of beds Strike and dip of overturned beds Axis of anticline Axis of syncline Water well Well drilled for oil (Abandoned) 	<p>Permian</p> <ul style="list-style-type: none"> Opalino limestone (Massive limestone) Word formation (Siliceous shale and clay shale with limestone members, co., and sandstone and conglomerate members, Co.) Leonard formation (Siliceous shale, clay shale, and sandstone with gray massive limestone members, Co. 1, 2, and a basal member of massive limestone and conglomerate, Co.) Wolfcamp formation (Shale, sandstone, and coarse conglomerate) UNCONFORMITY Oshtank formation (Shale and sandstone with limestone members, Co.) Harmond formation (Thin-bedded sandstone and shale, with some beds, Co., and beds of boulder-bearing sandstone, Co.) Dinwiddie limestone (Thick-bedded limestone) Thomas formation (Thick-bedded sandstone and shale with shale members, Co., and sandstone and shale of Arns, and massive white quartzite members, Co.) UNCONFORMITY 	<p>Carboniferous</p> <ul style="list-style-type: none"> UNCONFORMITY 	<p>Devonian (?)</p> <ul style="list-style-type: none"> UNCONFORMITY
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Base from U. S. G. S. topographic maps of Monument Spring and Marathon quadrangles, Texas, and east of 103° a reconnaissance survey by P. B. King Surveyed in 1919-1920

Geology by Philip B. King Surveyed in 1930-1931

GEOLOGIC MAP OF MONUMENT SPRING AND MARATHON QUADRANGLES, TEXAS

