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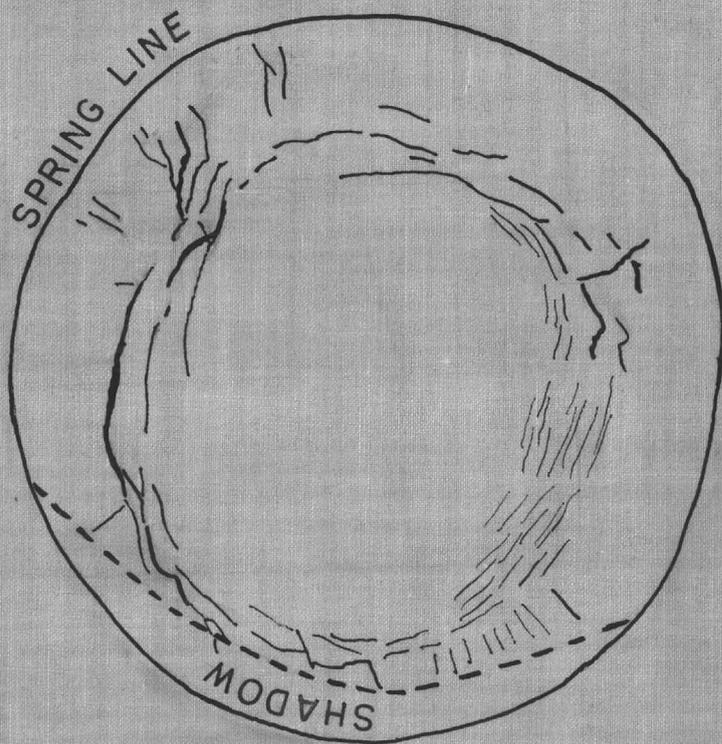
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Fig. 12

Wm. Byrd
D. 1526



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Fig. 17

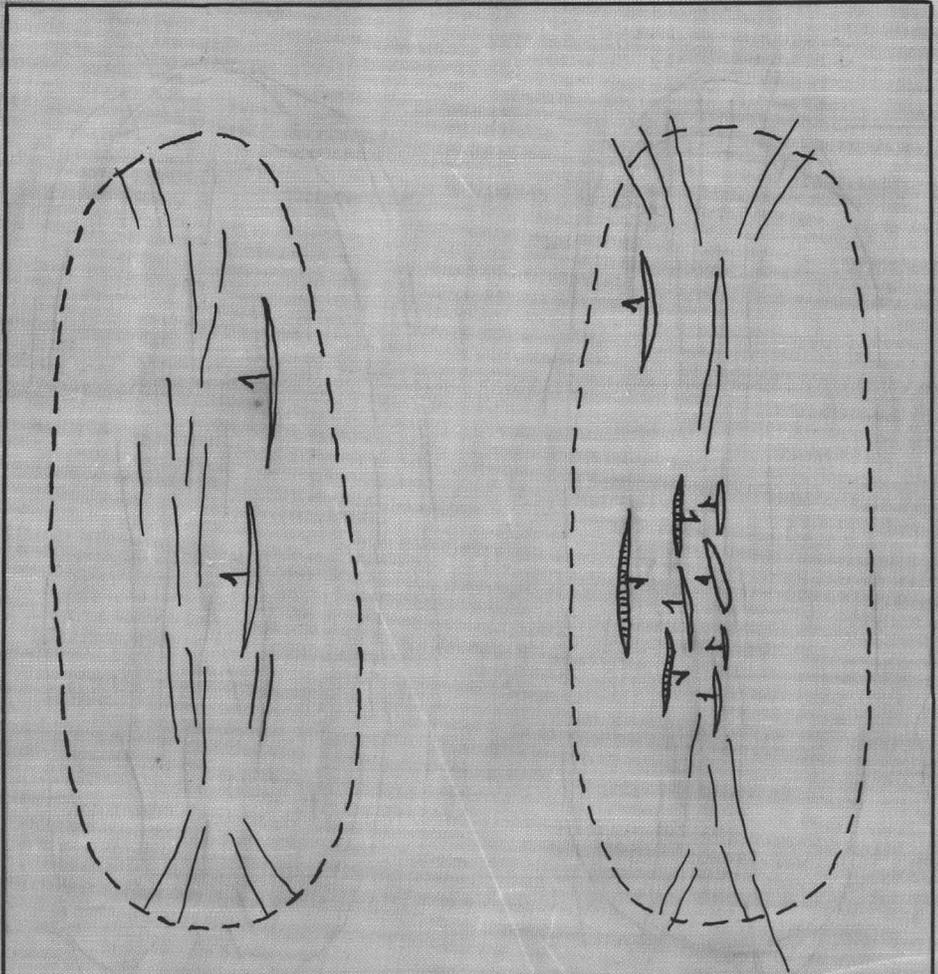
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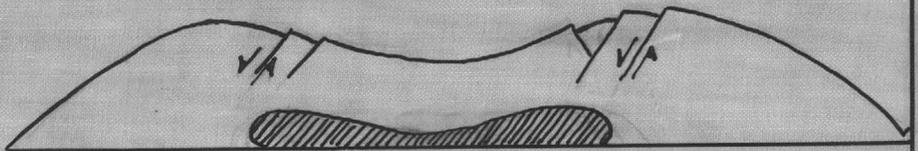
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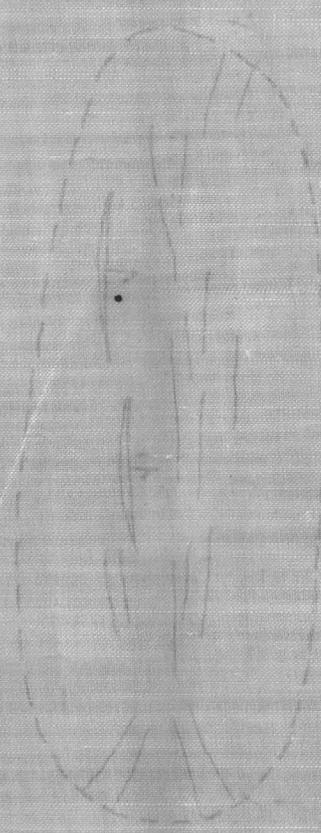


PLAN



SECTION

Wm. Byrd
D. 1526



PLAN



SECTION

WYOMING

W.G. Pierce, 1950, Source & movement of the Heart Mt. thrust blocks, Park Co., Wyo. GSA Bull. v. 61, 1493, VIII C-3.

ate of thrust lower to middle Eocene. Anticlinal uplift of Beartooth Mts. preceded the thrusting, but slope was sufficient to cause gravity sliding down the S limb of the uplift.

A.J. Wardley, 1950, Snake River region of western Wyoming. GSA Bull. v. 61, 1455. XVI.

Sharp uplift in Cordilleran geanticline immediately to W, in latest Jurassic and in early Cretaceous. Cgls shed eastward. To the W in Idaho, in latest Cret. and early Paleocene, Bannock eastward thrusting. Followed immediately in late Paleocene and early Eocene by thrusting east of Bannock; St. John, Absaroka, Darby. Middle and upper Cret., deeply eroded, furnished much of clastic material for late Paleocene sands, shales, accumulated in a trough E of Darby.

3rd episode of thrusting E of Darby: Jackson and related thrusts rode E over late Paleocene sed. Gravels and sands of mid-Eocene (?) shed over the region in front of new thrusts. New thrust sheets (4th) broke out of older thrust complex to W and overrode the mid-Eocene sed. eastward. Gros Ventre-Atton block rose and was thrust steeply SW against the eastward and northeastward-moving Jackson thrust, and over the mid-Eocene cgl.

In latest Miocene, northerly trending normal faults cut the thrust complex and brought into relief Attons, Jackson Hole, Grand Valley in Idaho, and the Hoback Range.

E.W.: Imlay: Jurassic-Lower Cret. map. Oxfordian, greatest marine invasion in Jurassic. W Interior and coastal seas large. 157-154. But geanticline between them although narrow, rose. Inyo batholith on W edge. By early Kimmeridgian, geanticline had jumped radically west, E edge about the same. Geanticline "high hills". Frenchie Creek intrusive on cl.

Middle Kimmeridgian to early Portlandian, 147-144. Nevadan folding. Geanticline jumped W to coast. W Interior sea continental, fluviatile.

Middle to late Portlandian: W Interior sea vanished. All land, except new trough in W coastal area. 143-141. Rocklin and Guadalupe plutons, W S.N.

Portlandian-Purbeckian 141-135 (Schuchert). All land except SW Oregon & W half of central Calif. Whitehorse QM stock. Helden GD, W S.N.

Above checks Wardley's sharp uplift, latest Ju. Cgls. prove sharpness.

~~Lower Comanchean 118-115.~~ ¹³⁵⁻¹¹⁸ Conditions same as at end of Jurassic: all land except toward coast. Cgls still being deposited. Shasta Bally batho., Dollyarden stock; Cortez GD, center line of former, and probably present spine. Ely porphyry and ore, high on E flank of spine.

Lower Comanchean. 118-115. As above. Only trough was in NW Calif., SW Ore. Osceola stock, far E Nevada.

Upper Comanche: 112-110. Nans S W Interior seas advancing toward each other. Meligman stock. Terington porphyry.

Upper Cret, to Middle Eocene Map: Bardley, latest Cret., early Paleocene, part of progressive eastward thrusting. These thrusts are precisely in the area of greatest eastward jumping of the geanticline, Campanian to Maestrichtian. Conforms Fig. 3, Deformation in the Cordilleran region of western United States, Colorado School of Mines Quarterly, vol. 52, July, 1957. Mt. front in Eocene proved by gravels and sands shed over mid-Eocene ~~xxxxxxx~~ shed over region in front of the new thrusts. These were thrusts overriding the then surface. See Longwell, Muddy Mts.

WYOMING

Helen I. Foster, 1946: Geology of the northern Gros Ventre mts. and Mt. Leidy Highlands, Teton Co. Wyo. GSA Bull. v. 57, p. 1194.

W Wyo., S of Yellowstone Park, on E side of Jackson Hole. Rocks Precambrian to Tertiary. Most structures were formed during 3 phases of the Laramide orogeny:

1. Early folding in latest K.
2. Thrusting and folding, middle Eocene.
3. Final period of faulting, late Middle or Late Eocene.

1. Large parallel, asymmetrical folds, which make up Gros Ventre Rge.
2. Gentle folds, present in Mt. Leidy Highlands; apparently the thrusts mentioned above.
3. See above.

Miocene, great rift faults cut across the Laramide structures. These were apparently normal because Camp Davis formation deposited in a down-faulted block.

XLI C-3

GSA Spec. Pap. 82, 1964, p. 342

**Influence of Precambrian Basement Structure on Laramide Tectonics,
Horn Area, Bighorn Mountains, Wyoming**

PALMQUIST, JOHN C., *Monmouth College, Monmouth, Ill.*



XLI C-3

GSA Spec. Pap. 76, 1963, p. 83

Control by Precambrian Basement on the Location of the
Tensleep-Beaver Creek Fault, Bighorn Mountains, Wyoming

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XLI C-3

GSA S.P. 68, 1961, p. 301

WISE, DONALD U., *Franklin and Marshall College, Lancaster, Pa.*

Gravity Thrusting Driven by Basement Uplift in the
Owl Creek Mountains, Wyoming

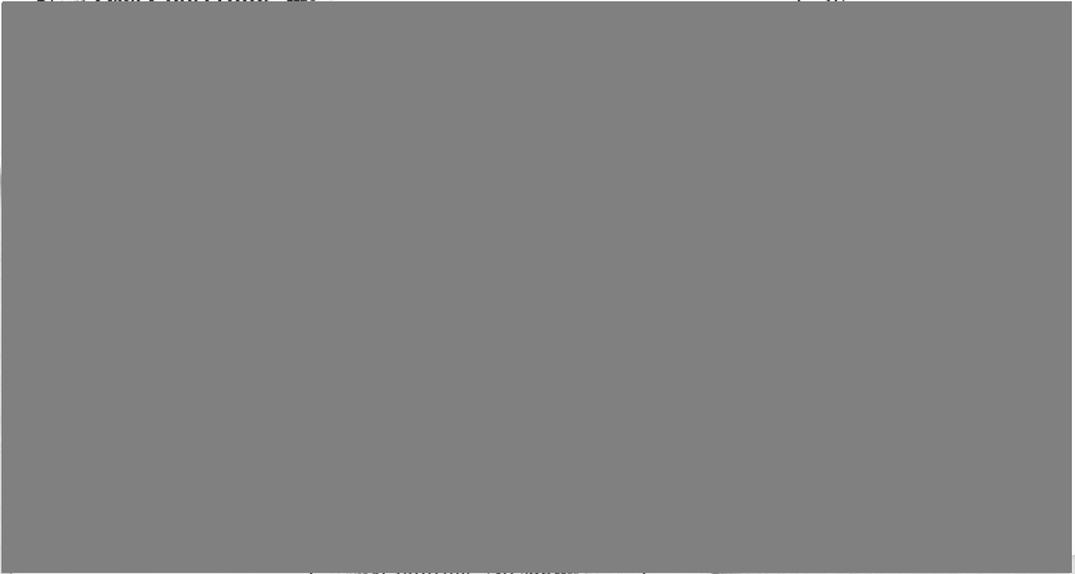


Gravity Thrust

X21 C-3

65A S.P. 73, 1962, p. 27

New Data Concerning the Seminoe Thrust, Wyoming



by gravity movement and normal faulting. No

Gravity Thrust

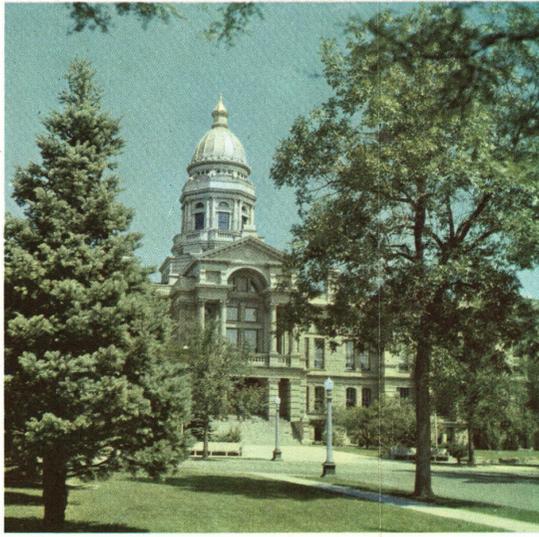
		APPROXIMATE MILEAGE	
		Casper	Cheyenne
Basin	311	481	137
Buffalo	438	1072	982
Casper	368	1254	1199
Cheyenne	454	289	375
Cody	249	1904	1798
Douglas	419	645	500
Dubois	170	417	469
Evanston	121	1175	1228
Gillette	500		947
Glenrock	392		
Granger Jct.	144		
Green River	168		
Greybull	303		
Jackson	72		
Kemmerer	98		
Lander	247		
Laramie	404		
Lovell	295		
Lusk	474		
Midwest	409		
Moorcroft	528		
Moran Jct.	105		
Newcastle	554		
Pinedale	122		
Powell	273		
Rawlins	291		
Riverton	250		
Rock Springs	183		
Sheridan	402		
Shoshoni	272		
Sundance	575		
Thermopolis	306		
Torrington	507		
Wheatland	446		
Worland	341		
Yellowstone	170		

		Casper	Cheyenne	Rock Springs	Sheridan
Billings	208	481	390	137	
Chicago	1072	982	1254	1199	
Denver	289	375	447		
New York	1904	1798	2021	2031	
Omaha	645	500	772	821	
Salt Lake	417	469	189	550	
San Francisco	1175	1228	947	1308	

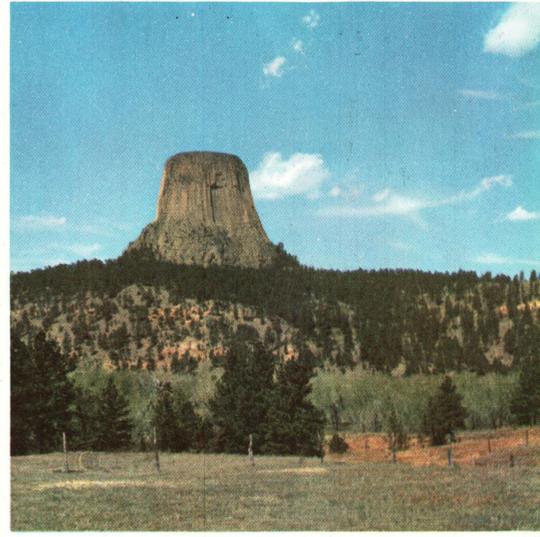
MILEAGE CHART
 The mileage between two points is found at the intersection of the horizontal line of figures opposite name of one point or town, and the vertical line of figures under the name of the other.
 Distances to Yellowstone National Park are computed to "Lake Junction" (26 miles west of East entrance, or 43 miles north of South entrance).



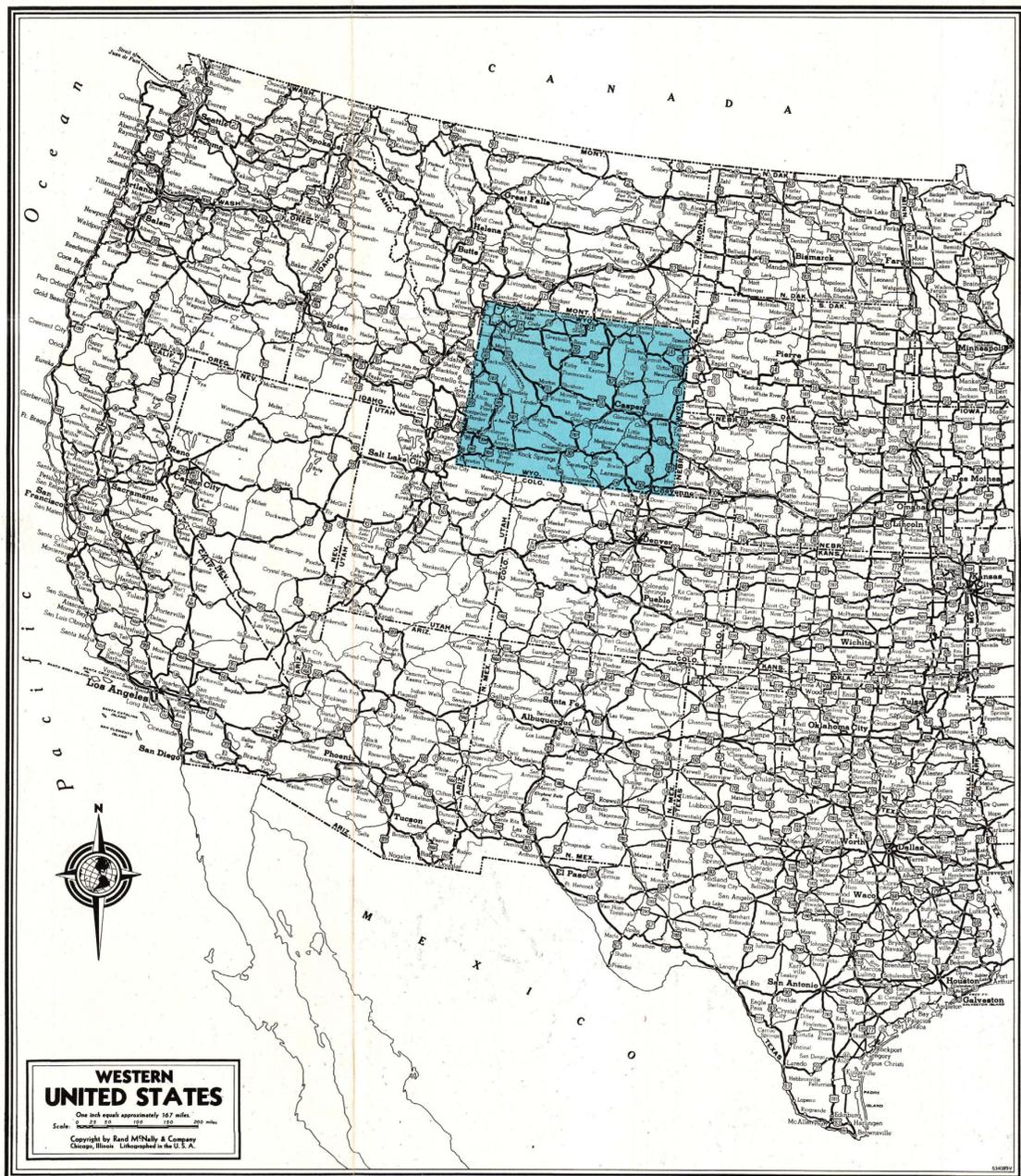
VACATIONING IN THE TETONS Photo by Union Pacific Railroad Co.



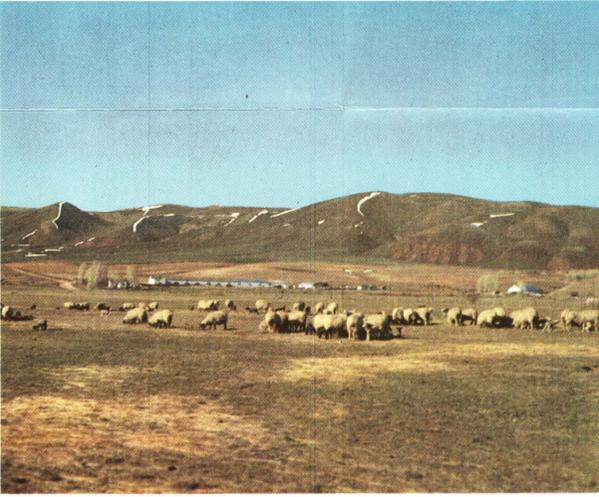
CAPITOL BUILDING Photo by Wyoming Highway Department



DEVILS TOWER Photo by Wyoming Highway Department



WESTERN UNITED STATES
 One inch equals approximately 167 miles.
 Scale: 1" = 167 miles
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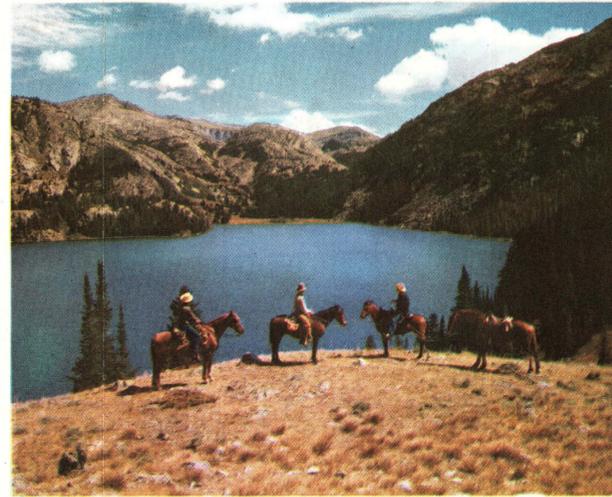
ANNUAL SUN DANCE ON WIND RIVER INDIAN RESERVATION Photo by George Case, Lander



SQUARE TOP MOUNTAIN Photo by Union Pacific Railroad Co.



YELLOWSTONE LAKE Photo by National Park Service



LAKE SOLITUDE Photo by Senitt Studio, Greybull



BUFFALO IN HOT SPRINGS STATE PARK Photo by Shirlee Willy, Casper

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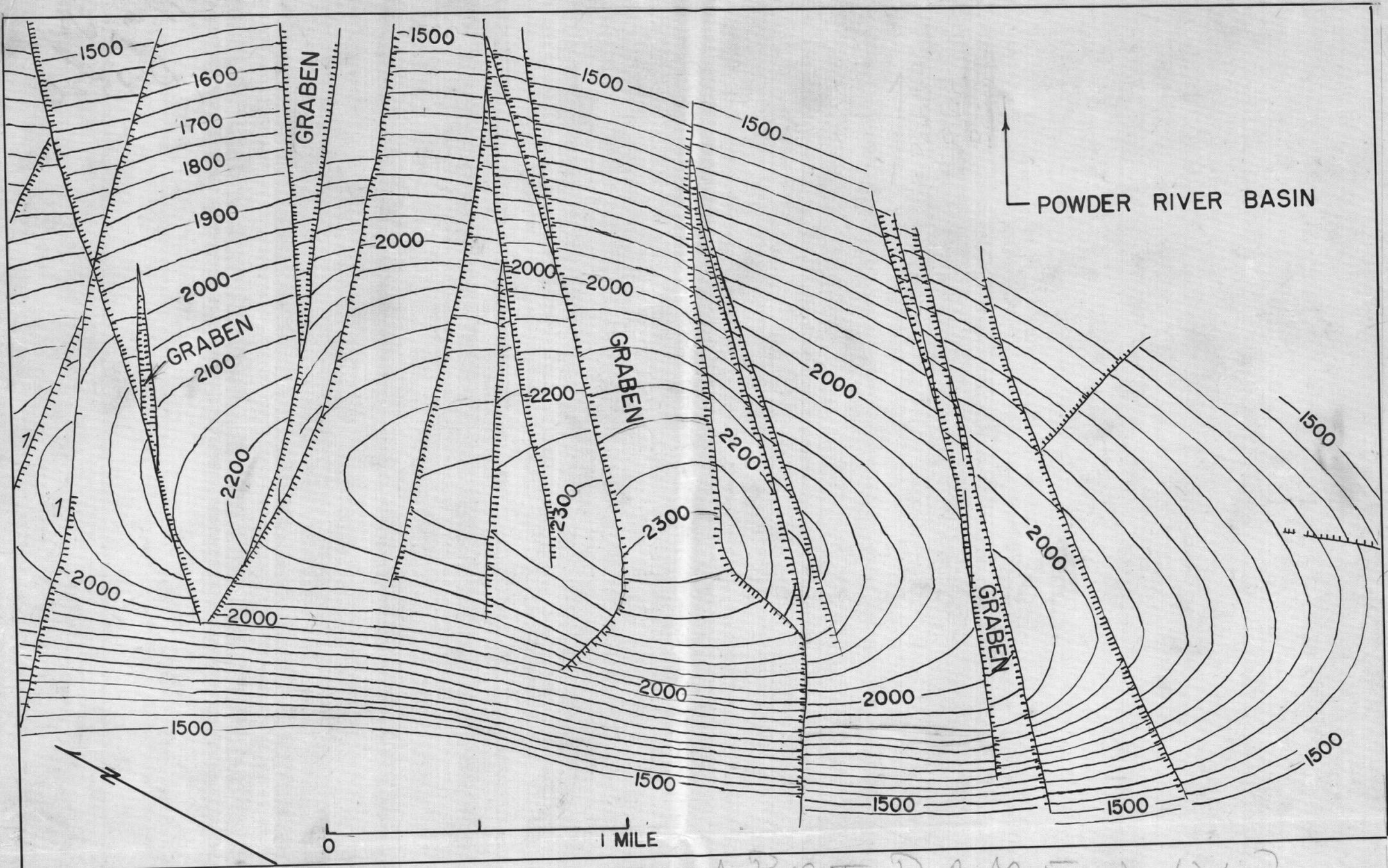


Fig 16

TEAPOT DOME, WYO.

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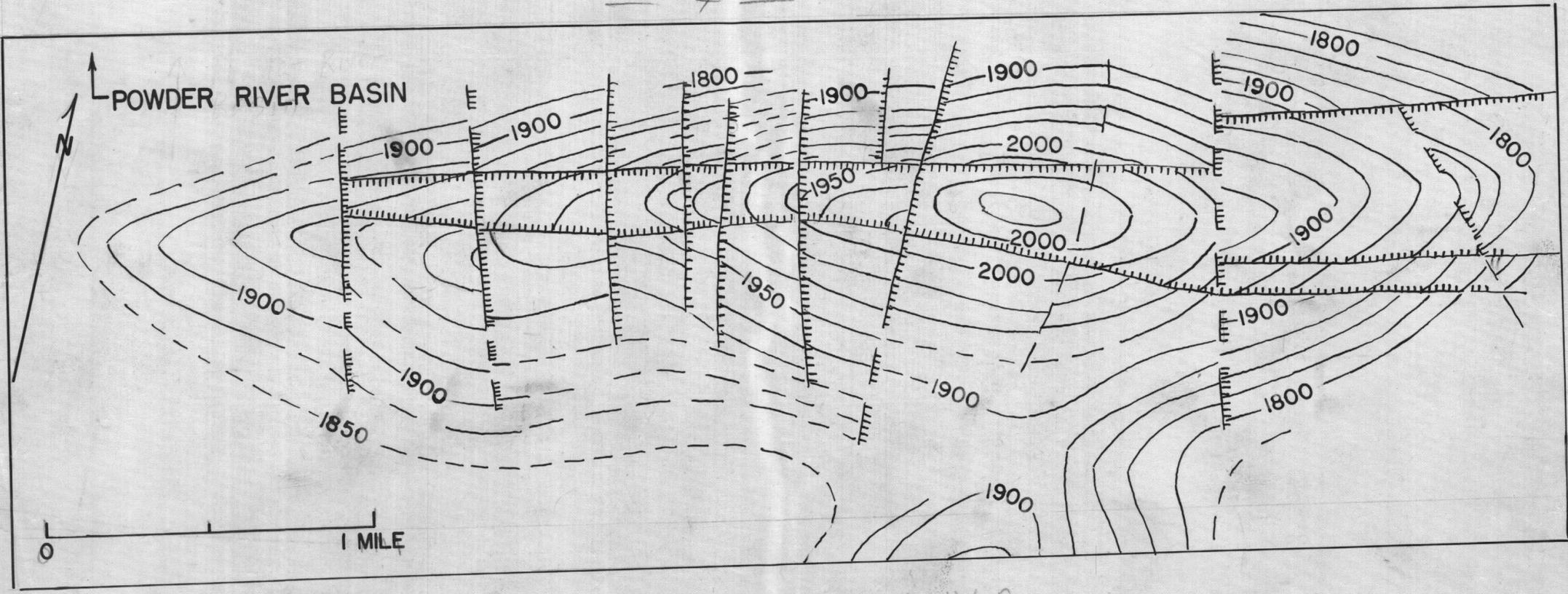


Fig 15

BIG MUDDY OIL FIELD, WYO.

WYOMING

XLI C-3
WYOMING
INDEX MAP