
PERMIAN BASIN/MID-CONTINENT EXPLORATIONISTS

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DINNER MEETING—SEPTEMBER 18, 1990

G. PAT BOLDEN—Biographical Sketch

Gerald Pat Bolden is a consulting geologist and explorationist with his own company, Bolden Exploration in Midland. He received his B.S. in geology at the University of Texas at Austin in 1951. Following 27 years with Shell Oil Co., Mr. Bolden has served as consultant and manager with Hinkle Exploration, Ltd., and as exploration manager with Hilliard Oil & Gas. He is a member of AAPG, SIPES and West Texas Geological Society.

SEISMIC AND LANDSAT IN A WRENCH FAULTING SYSTEM

Three high-multiplicity seismic profiles demonstrate the compressional nature of the faulting along the Double Mountain lineament in northeast Garza County in the Permian Basin. NASA high-altitude imagery using Landsat parameters delineate the traces of these faults on the surface.

Both east-west and north-south seismic profiles define the Double Mountain Lineament and the associated faulting. A one-mile-wide pop-up block bound by high-angle reverse faults demonstrates the compressional nature of the faulting. This structure has been drilled with several Strawn and Ellenburger producers, confirming the seismic, high-altitude imagery, and subsurface interpretation.