

ENVIRONMENT OF DEPOSITION OF
THE PENNSYLVANIAN BARTLESVILLE
SANDSTONE, LABETTE COUNTY, KANSAS

A Thesis

by

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MASTER OF SCIENCE

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Major Subject: Geology

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*information within
this folder is from
this thesis.*

SYMBOLS FOR DESCRIBED CORES

ROCK TYPE	STRUCTURES
	conglomerate
	sandstone
	siltstone
	siltstone with sand laminae
	claystone or shale
	no core available
	ACCESSORIES
	carbonaceous matter
	petrified wood fragments
	contorted shale clasts

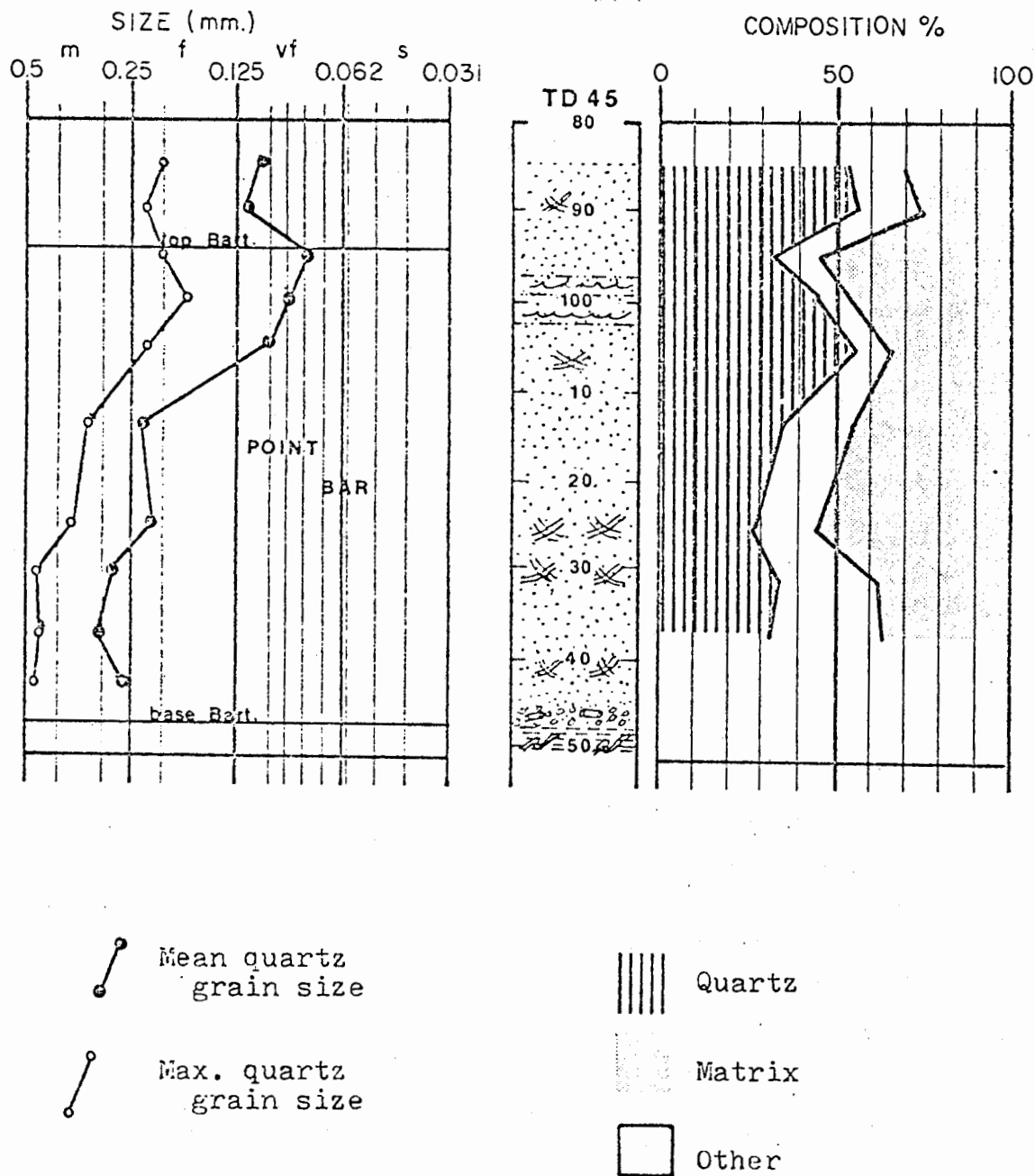


Figure 9. Grain size and composition of Bartlesville Sandstone in cored interval TD45.

*This data from a nearby well.
Not from TD46*

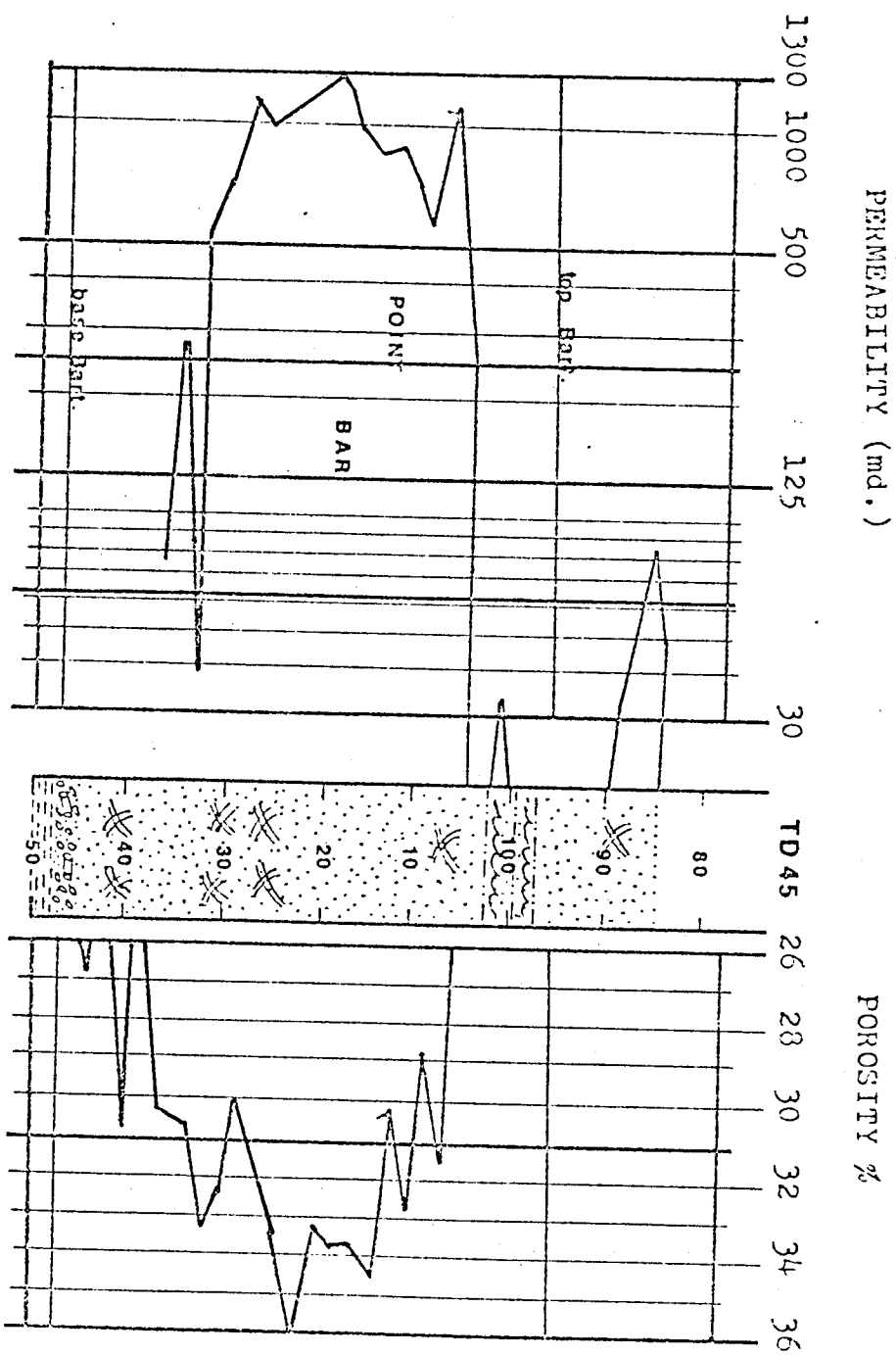
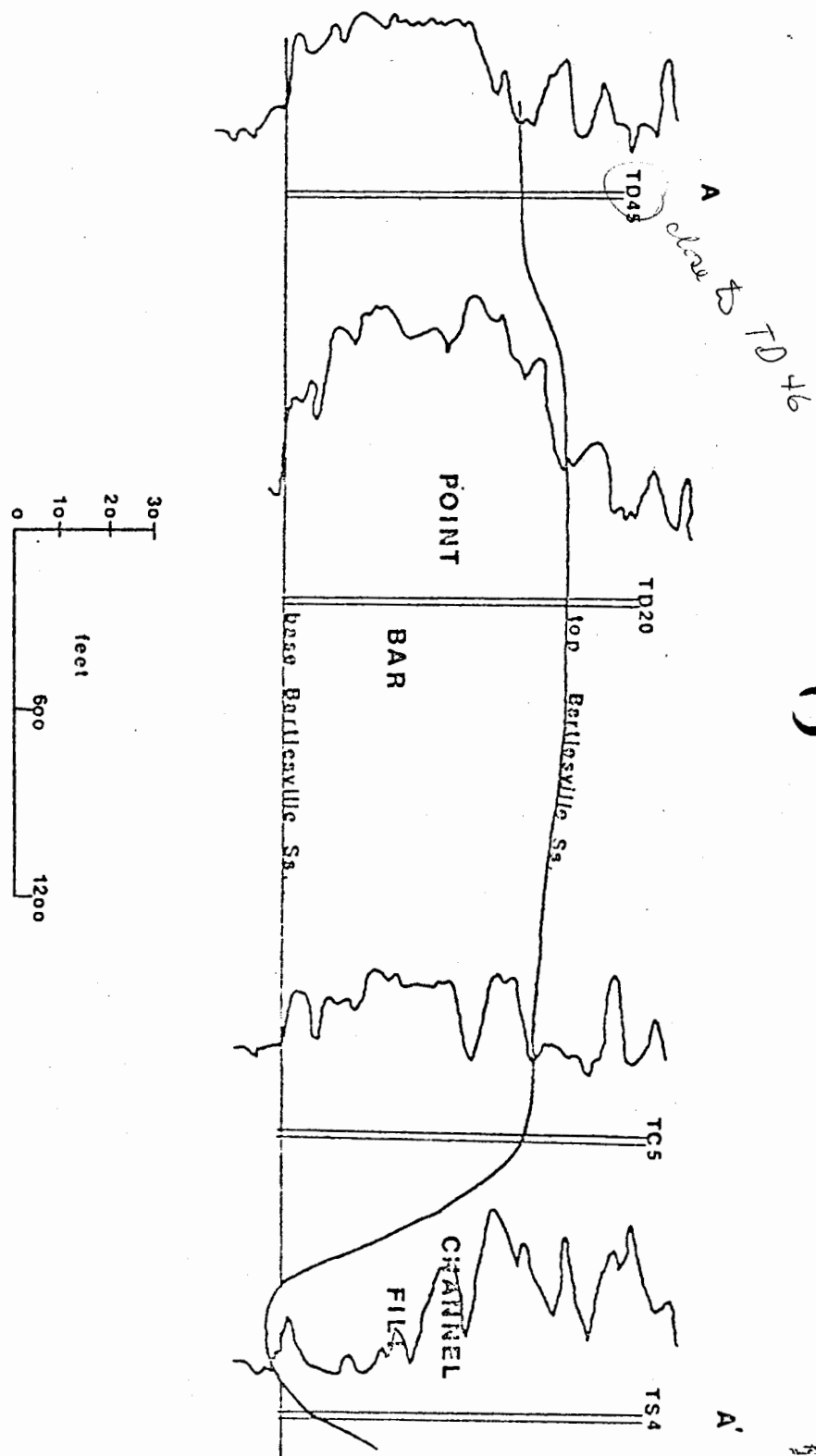


Figure 10. Permeability and porosity of Bartlesville Sandstone in cored interval TD45. *close to TD46*

ASBESTI MINORITATI 1107 3744

Figure 20. Interpretive cross section A-A', from gamma ray logs of indicated wells, through point bar and channel-fill facies.



TD 45 notice that this is not a description of Tenneco 46 Davis 54!

CORE DESCRIPTIONS

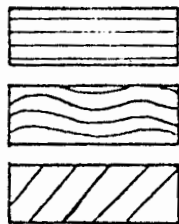
Format Used for Core Descriptions

Field
 Well Name
 Location
 Formation Name - Age
 Cored Interval (in feet)

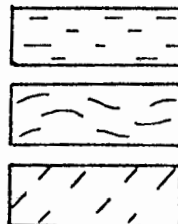
<u>Depth</u>	<u>Thickness</u>	<u>Description</u>	<u>Environment</u>
Feet	Feet	Rock type, color, grain size, sorting dominant mineral, accessory minerals	(Example) Upper point bar
		Primary sedimentary structures*	

*Sedimentary structure description:
 Laminae less than 4 inches thick
 Thin beds greater than 4 inches thick

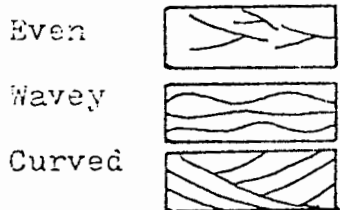
Parallel Continuous



Parallel Discontinuous



Nonparallel



Chetopa Field
 TD45: Tenneco Roy Davis No. 45
 Sec. 3-31S-21E Labette Co. Kansas
 Bartlesville Sandstone Pennsylvanian
 Core 85-150 feet

<u>Depth</u>	<u>Thickness</u>	<u>Description</u>	<u>Environment</u>
85- 91	6	Sandstone, brown, very fine grained, moderately sorted, quartzose Laminae indistinct at top to nonparallel wavy to parallel inclined about 10° at base.	Upper point bar
91- 106	15	Sandstone, light gray, very fine grained, moderately sorted, quartzose Alternating laminae of light gray to dark gray siltstone at top becoming sandy at base; parallel continuous even laminae at top to wavy to contorted at base.	Point bar
106- 118	12	Sandstone, black (hydrocarbon stained), very fine to fine grained (downward), moderately sorted quartzose, becomes silty at base Laminae parallel continuous inclined at 10° at top to indistinct at base.	Point bar

Depth	Thickness	Description	Environment
118- 137	19	Sandstone, brown to gray, fine to medium grained (downward), moderately sorted, quartzose, clay and carbonaceous stringers Laminae indistinct to parallel continuous even to parallel continuous inclined about 15° at 135'.	Point bar
137- 143	6	Sandstone, light gray, medium grained, well sorted, quartzose, little carbonaceous material Laminae nonparallel even at 20°.	Lower point bar
143- 146	3	Sandstone, gray, medium grained, moderately sorted, quartzose, with abundant silicified wood fragments Laminae indistinct.	Base point bar
146- 150	4	Shale, gray, with brown contorted areas Laminae contorted to indistinct becoming parallel.	Shale under- lying fluvial point bar