HARDTNER POOL

By Everest E. Wible, Aurora Gasoline Company

October 28, 1955

LOCATION Barber County

> Sections 19, 29, 30, 31, 32-34S-12W Section 5-35S-12W

METHOD OF EXPLORATION LEADING TO DISCOVERY

Based on a combination of Economics and Subsurface Geology.

DISCOVERY October 26, 1954

Aurora Gasoline Company and Barber Drilling Company's #1 Rathgeber, C NE SE Section 31-34S-12W. Tested 19,700,000 CFG thru $2\frac{1}{2}$ tubing on 30-minute test, SIP 1680# in 15 minutes.

NATURE OF TRAP

Both producing zones appear to be stratigraphic, pinching out northwest and northeast and getting too low to produce gas to the south in the Mississippi chat.

Regionally, the area is low with respect to areas to the northeast and northwest. Locally, there are structural nosings plunging southsouthwest.

PRODUCTIVE AREA AND TYPE DRIVE

Conglomerate - Limits not yet defined - present area 500 / acres. Mississippi chat - Limits not yet defined - present area 2,900-3,000 acres.

Both zones produce by gas cap and gas solution drive.

THICKNESS AND LITHOLOGY OF RESERVOIR

Conglomerate - weathered chert and shale grading laterally to finegrained sandstone in various wells.

Mississippi chat - conglomeratic in top consisting of weathered chert and shale grading to bedded tripolitic chert. Dolomite at the base.

THICKNESS OF PRODUCTIVE ZONE

Conglomerate -	Feet
Gas Column	10
Mississippi chat	
Gas Column	43
Oil Column	30?

CHARACTER OF OIL

Gravity API @ 60° F., 15°

COMPLETION

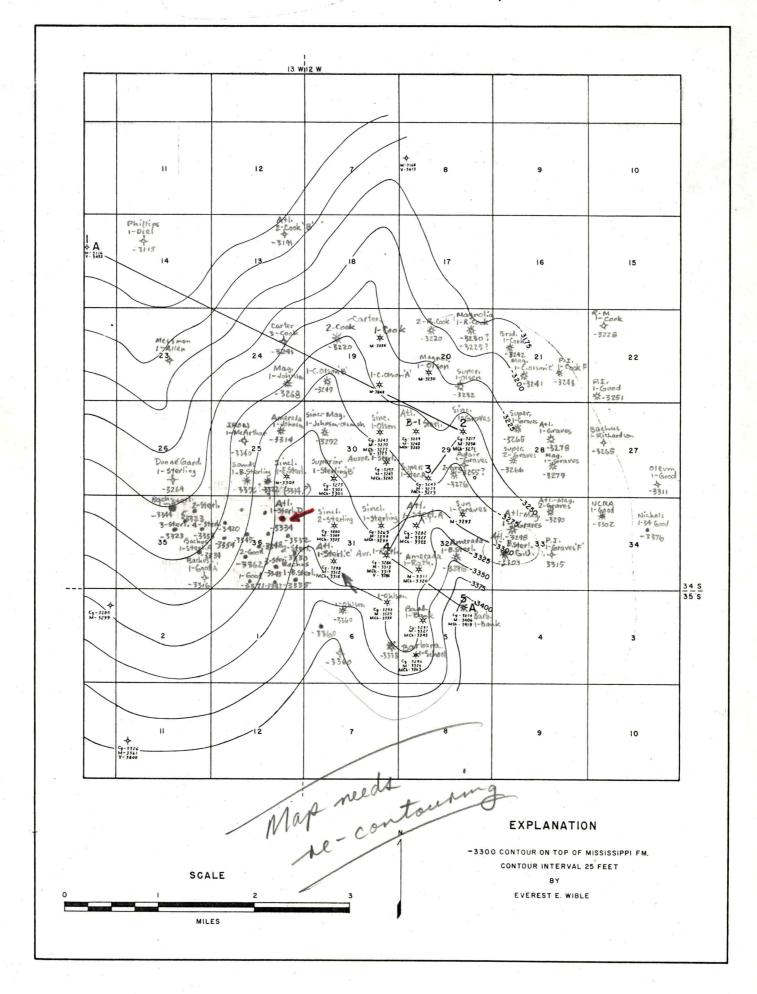
Most of the wells have been fractured.

PRODUCTION HISTORY

CONGLOMERATE AND MISSISSIPPI CHAT

Year	Producing Wells Oil Production Oil Gas Annual Cum.			Gas Production Annual Cum.		
Sept. 30 1955	0	6	0	0	923	,221,000 CFG
Total* Oct. 28,	0 1955	19				late - approx. per 1,000,000

^{*4} Wells on the south end of the Pool have low gravity oil in the Mississippi chat zone.



HARDTNER POOL

BARBER

COUNTY,

KANSAS