

in the extreme northern portion by the Warfield syncline, in a northeast-southwest direction. The Quincy syncline extends for a short distance into the western portion in an almost east-west direction. The Warfield anticline enters the district for a short distance in the vicinity of Winifrede on Fielders creek. The Coalburg syncline crosses the Kanawha river in a northeast-southwest direction near Coalburg. The Hansford anticline runs nearly north across the Kanawha river at Hansford. The Handley syncline crosses the Kanawha river in a northeastern direction at Handley, and in the extreme southern end of the county the Wake Forest anticline crosses Cabin creek at Wake Forest in a northeastern direction. Gas of commercial value has been found in several portions of the district, but thus far no oil pool of economic value has been discovered in Cabin Creek district.

The records of several wells will now be given to show the occurrence of the different oil and gas sands:

Thompson No. 1 Well Record (691).

Located in Cabin Creek district on Mile Branch, one-half mile northeast of Monarch. Authority, Kanawha Valley Products Company. Completed April, 1912. Elevation, 685' A. T. B.

	Thickness Total	
	Feet.	Feet.
Unrecorded	103	103
Sand	112	215
Unrecorded	85	300
Sand	28	328
Slate	122	450
Sand	88	538
Slate	182	720
Lime shells	180	900
Slate	130	1030
Salt sand	220	1250
Red rock	15	1265
Slate	105	1370
Little Lime	20	1390
Pencil Cave	10	1400
Slate	30	1430
Big Lime	90	1520
Red rock and shells	161	1681
Sand, "Squaw," gas	152	1833

First gas at 1717 feet; second gas at 1755 feet; third gas at 1790 feet; gas capacity, 2,750,000 cu. ft.; rock pressure, 480 lbs.; 12" wood conductor, 18 feet; 10" casing, 312 feet; 6 $\frac{1}{8}$ " casing, 1450 feet. The well begins 5 feet under the Cedar Grove Coal.