MAP OF LA HARPE QUADRANGLE

Showing structural contours based upon the elevation of No. 1 reel (red) and upon the elevation of the Burlington structure (black) above sea level.

DESCRIPTION OF MAP

The heavy black lines show the position of the base of the Missouri limestone above sea level, and are to be contrasted with the fine black lines which represent the surface of the rocks.

The contour is delineated in regular lines. In a vertical section and all the beds that overlie it are removed so that the upper surface of the underlying Burlington is exposed, and that the deep is invaded by a sea three hundred feet deep and not above present sea level. The dotted black lines show the position of the surface of the sea 160 feet below the level of the land, that is, if the sea rose one hundred feet above the land it would cover the whole of the land excepting the larger lakes and swamps.

In a similar manner the red outline lines show the position of the No. 1 reel above sea level and the reader may readily obtain his surface similar to the method just described for the Burlington structure.

It is impossible to predict the presence of oil at any given area. The fact that the living oil sand is exposed at only a comparatively few places adds an additional element of uncertainty to the western counties of Illinois. These are known beds of oil and gas, where the sand has been flooded upward, and since the downward folds or anticlines are usually filled with salt water, a map which shows the position of the beds previous to drilling is very valuable.

The purpose of these lines is simply to identify where anticlines would take place if the other conditions were favorable. Thus one element of design is eliminated.

SPECIAL NOTICE

No. 1 reel above sea level.