

00320

COUNTY Jackson

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sec. 14 T. 50 R. 31

Owner - Erni

Elev. 914 MGS#

farm Erni

No. 1 TD 326 Shows oxy Spls.

Status

Date Completed 7-23-36 FmCID

Remarks: gas well - prod = 60M+

ER 004

out, to prove the northeast flank of the structure, before deeper drilling is attempted.

(3) The long westward plunging nose that extends through the north half of T. 49 N., Rg's. 29, 30, 31, and 32 W.

(4) ~~The area in the vicinity of the Erni well (Map No. 1), NW $\frac{1}{4}$ Sec. 14, T. 50 N., R. 31 W. This isolated well is the northeasterly of the producing gas wells in Jackson County. It appears to be on the western edge of another westward plunging nose.~~ Detailed mapping of this region will be difficult due to the heavy covering of drift and loess in the upland areas.

In addition to these specific areas and structures it is worthwhile to point out the fact that in view of the lack of control in a great many parts of these maps that no area should be condemned without additional work. Even the major synclines are in many places such broad features as to possibly be the site of small anticlinal structures such as those which make up the Blue Ridge or Bannister Ridge anticlines. In the main it is thought the numerous minor structures which make up these larger features are in no way related to any diastrophic movements but rather are the result of differential compaction of sediments over and around lenticular sands in the Pennsylvanian section¹. This being the case they can be expected to occur at most any place. In this connection careful surface mapping, using the top of the Bethany Falls limestone, as a datum, may uncover numerous structures of this type if any of the unproven areas.

POSSIBLE AREAS FOR DEEPER PROSPECTING

"What are the possibilities of obtaining deeper production?" (from the pre-Pennsylvanian section) is a difficult question to answer. The accompanying data sheet (Appendix II), and map (fig. 10) covering wells that penetrated the formations older than the Pennsylvanian show how little deep drilling has actually been carried on in the two counties. Additionally it shows that of the deep drilling, already done, none has been advantageously located "on structure" as outlined on the accompanying maps. As previously pointed out, it is believed that most of these structures are purely Pennsylvanian in their

¹F. C. Greene, personal communication.