

State Department of Geology and Mineral Industries

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BODNAR RANCH PHOSPHATE

KLAMATH COUNTY

The so-called phosphate beds outcrop along the bank of a dry wash on the Andy Bodnar Ranch which apparently lies in sec. 32, T. 37 S., R. 11 $\frac{1}{2}$ E., Klamath County. The locality is reached by turning north from State Highway 66 three miles east of Dairy at the Shell Service Station. The gravel road should be followed 1 $\frac{1}{2}$ miles due north then half a mile due west, then 1 $\frac{1}{2}$ miles more or less due north. The Bodnar ranch lies just west of the C. & E. railroad track and a rough road leading through the barnyard and along the wheat field should be followed. The attached sketch map shows the general route to be followed.

At the locality only a few fish bones were found in the three foot bank but there were numerous macro fossils such as gastropods and other snail-like forms. Bodnar stated that a dug well 110 feet deep located beside an abandoned shack nearby struck a layer of fossil-bearing material below that exposed in the bank of the dry wash. Moore¹ has mapped the area as diatomite and associated sediments of Pliocene(?) age. The fossils are imbedded in a buff colored tuff.

Four samples were taken and analyzed for P₂O₅ content with the following results:

	<u>P₂O₅</u>	
P-7960	0.664	Fossiliferous material from bank
P-7961	0.343	Dump from 110' well
P-7962	0.280	Weathered tuff lower part
P-7963	0.207	Weathered tuff upper part

Locality visited October 17, 1948 by F. W. Libbey and Ralph S. Mason

¹ B. N. Moore; Nonmetallic Mineral Resources of Eastern Oregon, U. S. Geol. Survey Bulletin 875, 1937.