

NORTH DAKOTA GEOLOGICAL SURVEY CIRCULAR NO. 178

Summary of the North Plains Petroleum Inc. - F. F. Danner #1
Grand Forks County, North Dakota

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North Plains Petroleum Inc. - F. F. Danner #1, Grand Forks County, North Dakota. Location: C SW SE Sec, 24-T152N-R54W. Elevation: 963 G.L., 969 K.B.

The North Plains Petroleum Inc. - F. F. Danner #1 was spudded January 8, 1957; drilled to a total depth of 1062 feet; completed. as a dry hole January 23, 1957.

Casing Record:

Set 8" casing at 160 feet with 45 sacks of cement.

Tests: None

Cores: None

Logs: Electric

Plugging Record:

160 feet 15 sacks of cement
490 feet 15 sacks of cement
905 feet 15 sacks of cement

Formation tops were determined from samples and electric logs. Color names and identifying numbers are from the 1948 Rock-Color chart distributed by the National Research Council, Washington D.C.

FORMATION TOPS

Cretaceous System	
Dakota sandstone	305
Ordovician System	
Red River formation	500
Winnipeg formation	840
Winnipeg sandstone	902
Cambrian System?	
Deadwood formation	965
Precambrian	1056

* Ninety-three feet of sedimentary rocks overlying the granite are tentatively placed in the Cambrian system on the basis of lithologic similarity to the Deadwood formation, rather than the Winnipeg formation on the basis of studies of the Winnipeg and older rocks which are now in progress.

170-190 Sand, fine to medium, loose subrounded to subangular quartz and carbonates.

190-200 Shale, medium gray, lumpy, compact.

210-230 Coarse pebbles of shale, medium gray and dolomite, yellowish gray and a little quartz.

230-240 Sand, medium to coarse, subangular to subrounded quartz grains.

240-250 Pebbles of carbonates and shale, some very coarse sand to pebble size quartz.

250-260 Glacial drift, as above and sandstone, light gray, very fine to fine grained, calcareous; much pyrite.

260-270 Sandstone, as above, some pyrite.

270-300 Siltstone, very light brownish gray, sandy, calcareous, some pyrite.

300-320 Siltstone as above, and sandstone, very light brownish gray, very fine grained; much pyrite.

320-350 Sandstone, medium to very coarse, loose, subrounded quartz, some pyrite cemented.

350-370 Sandstone, fine to coarse, subrounded quartz firmly cemented with pyrite; some fragments of pyritized wood; much medium grained to pebble size, loose, subrounded quartz.

370-460 Sandstone, as above, mostly loose quartz grains, medium grained to pebble size, some pyrite.

460-470 Sandstone, as above, with some shale, moderate reddish brown, containing some sand grains.

470-490 Shale, moderate reddish brown, silty; much sand in samplers as above.

490-500 Chert, very light gray to pinkish gray and dolomite, very light gray to pinkish gray, fine to medium crystalline, some good intergranular porosity, some dense.

500-520 Dolomite, as above.

520-540 Dolomite, as above; a little white chert.

540-570 Dolomite, pinkish gray, very finely crystalline in part; medium grained, granular with good intergranular porosity in part, a little light gray chert.

570-620 Dolomite, as above, mostly finely crystalline; a little chert, very light gray to white.

620-645 Dolomite, pinkish gray, finely crystalline to medium grained, granular; some limestone, white, fine grained, fragmental, a few crinoid stems (30-40).

645-650 Limestone, white to very light gray, fine to medium grained, fragmental; some dolomite, pinkish gray, finely crystalline to medium grained, granular, limey.

650-670 Dolomite, as above; a little limestone, as above.

670-685 Limestone, very light gray, fine to medium grained, fragmental; some dolomite, as above.

685-720 Limestone as above.

720-735 Limestone, as above and dolomite, grayish orange pink, fine grained, granular, limey.

735-745 Limestone, very light gray, fine grained, fragmental with a little reddish mottling.

745-770 Limestone, grayish orange pink to very light gray, fine grained, fragmental, fossiliferous.

770-805 Limestone, very light gray to pale red, finely crystalline to fine grained, fragmental.

805-835 Limestone, pale red to grayish orange pink, fine grained, fragmental in part.

835-850 Limestone, light gray to pale red, fine grained, grainy.

850-860 Limestone, white to pinkish gray, fine grained to finely crystalline; a few pieces of chert, light gray to white.

860-875 Limestone, light gray, fine grained to finely crystalline, a little chert, light gray.

875-880 Limestone, light gray to very light gray, fine grained to finely crystalline, fragmental.

880-890 Shale, light greenish gray 5G8/1 and pale red 5R6/2, lumpy, compact, calcareous.

890-895 Sandstone, pale yellowish orange, medium to coarse, rounded grains, calcareous and pyrite cement, firmly cemented.

895-900 Sandstone, as above, and pinkish gray; a little limestone, pinkish gray, fine grained, sandy and a little limestone, very light gray, composed of shell fragments in a fine grained matrix.

900-910 Sandstone, pale yellowish orange to pale reddish brown, medium to coarse, rounded grains, calcareous.

915-920 Sandstone, as above.

920-930 Sandstone, loose, medium to fine, rounded quartz, colorless to a yellowish tinge.

930-935 Sandstone, loose, as above and pale yellowish orange, medium grained, calcareous cemented.

935-960 Sandstone, pale yellowish orange to moderate red, medium to coarse grained, rounded, calcareous, firmly cemented; loose sand grains as above.

960-965 Sandstone, medium, rounded, loose quartz grains; some cemented sandstone as above.

965-975 Limestone, light gray, fine grained, to finely crystalline, white mottled; some sandstone as above.

975-980 Sandstone, pale yellowish orange to moderate red, medium to coarse grained, calcareous, some limestone, as above.

980-995 Sandstone, as above; a little chert, light gray; much dolomite and shale cavings? in the samples.

995-1010 Sandstone, medium to coarse, rounded, loose quartz grains, some cemented sandstone as above.

1010-1015 Shale, light gray to light greenish gray, lumpy to platy, slightly calcareous.

1015-1030 Shale, as above and pale red; much loose sand, medium grained, rounded cave?

1030-1050 Sandstone, fine to coarse, subrounded to subangular quartz; some shale, as above.

1062 Total Depth.