

NORTH DAKOTA GEOLOGICAL SURVEY CIRCULAR NO. 229

Summary of the Traugott Drilling Company - Grimsi Goodman #1
Cavalier County, North Dakota
Well No. 2342 - Permit No. 2354

by Herbert A. Mendoza
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The Traugott Drilling Company, Grimsi Goodman #1, located in NW 1/4, SW 1/4, sec. 3, T. 160N., R. 57W., Cavalier County, North Dakota. Elevation of K.B. 1558.6 feet; ground level 1554.6 feet.

The well was spudded May 24, 1959 and drilled to a depth of 2325 feet, plugged and abandoned as a dry hole on July 15, 1959.

Logs run: Induction-Electrical

Core Record:

2187-89 recovered 2 feet
2315-18 recovered 3 feet

Tests: None

Casing Record:

Surface pipe set at 160' and cement to surface.

Plugging Record:

#1 2290' with 15 sacks of cement
#2 1600' with 20 sacks of cement
#3 1010' with 10 sacks of cement
#4 970' with 15 sacks of cement
#5 153' with 15 sacks of cement

Formation tops were determined by the samples and mechanical logs. Color names used are those of the National Research Council Color Chart.

FORMATION TOPS

Cretaceous System	
Niobrara formation	304
Greenhorn formation	686
Dakota group	932
Jurassic System	1143
Silurian System	
Interlake formation	1340
Ordovician System	
Stony Mountain formation	1455
Red River formation	1587
Winnipeg formation	
Shale member	2180
Sandstone member	2290
Precambrian	2318

0-160 Missing.

160-170 Shale, medium light gray, soft, blocky, clayey, slightly calcareous, rare calcite prisms.

170-180 Shale, medium light to medium dark gray, soft, slightly waxy, common white specks.

180-220 Shale, medium light gray, blocky, clayey.

220-300 As above, common bentonite, very light gray, spongy.

Niobrara 304

300-310 Shale, medium to medium light gray, blocky to spongy, rare bentonite, medium bluish gray, soft.

310-400 "White specks", medium light gray, highly calcareous, little bentonite as above.

400-500 Shale, dark gray, platy, carbonaceous, common white specks as above, rare quartz grains, rounded.

500-690 Shale, medium light gray, platy to blocky, common calcite prisms and white specks.

Greenhorn 687

690-700 Same as above.

700-980 Shale, medium dark to medium light gray, silty, blocky to platy, abundant "white specks", common bentonite, light gray, common calcite prisms.

Dakota 980

980-1100 Sandstone, light gray, fine to very coarse grained, quartzose, loosely cemented, subrounded, highly porous, common shale cavings (?).

1100-1240 Shale, medium light to medium gray, blocky to platy, common white specks, bentonite, rare lignite.

1240-1270 Shale as above, common siltstone, light brown (5YR6/4), fine grained, argillaceous, little limestone, medium light gray, medium crystalline, pseudo-oolitic.

1270-1320 Shale, medium gray, platy, common siltstone as above, common limestone, white, fine crystalline to sublithographic, dense.

1320-1340 Shale, medium gray to light greenish gray (5G8/1), platy, common siltstone, pale reddish brown (10R5/4), fine grained, argillaceous, common limestone as above.

Silurian 1340

1340-1350 Shale, dark gray, platy, common limestone, white to light gray, sublithographic to finely crystalline, dense.

1350-1360 Limestone, very pale orange (10YR8/2) to yellowish gray (5Y7/2), fine crystalline, sucrosic, pinpoint porosity, common chert, smooth, porcelaneous.

1360-1400 Cavings (?).

1400-1410 Limestone, yellowish gray (5Y7/2), fine crystalline, sucrosic, common chert as above, abundant anhydrite, moderate orange pink (10R7/4), grainy, abundant cavings (?).

1410-1455 Limestone, very pale orange (10YR8/2) to moderate orange pink (10R7/4), fine crystalline, interstitial to pinpoint porosity, anhydritic, common chert as above.

Ordovician 1455

- 1455-1485 Limestone, yellowish gray (5Y7/2), fine crystalline, interstitial porosity, little sandstone, white, medium grained, rounded, calcareous cementation.
- 1485-1500 Same as above, slightly dead oil-stained, no fluorescence.
- 1500-1525 Limestone, very pale orange (10YR8/2) to pale red (10R6/2), fine crystalline, slightly porous to dense, dolomitic, common quartz grains, rounded.
- 1525-1550 Limestone as above, common shale, dark gray, platy.
- 1550-1590 Limestone, yellowish gray (5Y7/2) to mottled pale red purple (5RP6/2), fine grained, pinpoint porosity, slightly dead oil-stained, no fluorescence, abundant shale as above.
- 1590-1605 Limestone as above, ramose bryozoan and brachiopod fragments.
- 1605-1675 Limestone, yellowish gray (5Y7/2), finely crystalline, dense, common dolomite, moderate orange pink (10R7/4), very fine crystalline, dense, common quartz grains, rounded.
- 1675-1720 Same as above, common shale, dark gray, splintery, abundant cavings (?).
- 1720-1745 Limestone, very pale orange (10YR8/2), fine crystalline, grainy to pinpoint, porosity slightly dolomitic common shale cavings (?), bryozoan fragments.
- 1745-1750 Limestone as above, common chert, white to very pale orange (10YR8/2), smooth, porcelaneous.
- 1750-1835 Limestone, very pale orange (10YR8/2) to white, grainy to chalky, common chert as above, common quartz grains, rounded.
- 1835-1910 Limestone, very pale orange (10YR8/2) to yellowish gray (5Y7/2), fine crystalline, grainy to pinpoint porosity.
- 1910-1970 Limestone, grayish pink (5R8/2) to moderate orange pink (10R7/4), grainy to chalky, slightly porous, common quartz grains, rounded, clear to frosted, brachiopod Nanorthis?, rare chert, white, smooth.
- 1970-2000 Same as above, abundant fossils and fragments, brachiopods, bryozoans, favositids and crinoids.
- 2000-2035 Limestone, very pale orange (10YR8/2), fine crystalline, dense to grainy, slightly oil-stained, dry, no fluorescence.
- 2035-2120 Limestone, light gray, fine crystalline, dense, slightly oil-stained, no cut.
- 2120-2180 Limestone, medium light gray, fine crystalline, dense to chalky.

Winnipeg 2180

- 2180-2200 Same as above, rare shale, dark gray, splintery.
- 2200-2220 Shale, greenish gray (5G6/1) to dark gray, blocky, soft, common limestone as above.
- 2220-2250 Shale, greenish gray (5G6/1), soft, platy, waxy, common conodonts and ostracods.
- 2250-2287 Shale, greenish gray (5G6/1) to dark yellowish brown (10YR4/2) platy, soft.

Core #1

- 2287-2288 Shale as above.
- 2288-2289 Shale, greenish gray (5G6/1), blocky, waxy, indurated, inter-bedded limestone, medium gray, coarse crystalline, fragmental.
- 2290-2310 Shale, greenish gray to pale brown (5YR5/2) to dark gray, soft, platy.

2310-2317 Shale as above, common sandstone, white, fine to coarse grained, quartzose, poorly cemented.

Core #2

2317-2318 Sandstone, medium light gray, fine to medium grained, calcareous cement.

2318-2325 Granite gneiss, foliated.

2325 Total depth.