

NORTH DAKOTA GEOLOGICAL SURVEY CIRCULAR NO. 207

Summary of the Reelfoot Development Co., Inc. - Louis and Alvina Bryl #1
Nelson County, North Dakota
Well No. 1934 - Permit No. 1946

by Jay Garske
September 1958

Reelfoot Development Co., Inc. - Louis and Alvina Bryl #1. Location:
C SE/4 SE/4, Section 5, T. 152N., R. 60W. Elevation: 1511 ground level.

The Reelfoot Development Co., Inc., Louis and Alvina Bryl #1 was spudded July 16, 1958, drilled to a total depth of 2743 feet, found dry, and plugged August 22, 1958. No drill stem tests were taken and no cores were cut.

Logs: Electrical, and microlog

Casing Record:

Set 8 5/8" surface casing at 351 feet with 200 sacks of cement.

Plugging Record:

Cement plugs of 15 sacks each were set at 1970', 1570', and 1190'. Plugs were also set in the bottom of surface casing with 10 sacks, and in top of surface with 5 sacks.

Formation tops were determined from samples and electrical log, corrected to the electrical log. Doubtful or obscure formations were not picked. Colors and descriptive numbers were taken from the Goddard, et. al., 1951 Rock Color Chart distributed by the Geological Society of America, New York, New York.

FORMATION TOPS

Cretaceous System

Niobrara formation	465
Greenhorn formation	872
Newcastle ("Muddy") sandstone	1188
Fall River sandstone	1275

Jurassic System

"Red Beds"	1514
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Silurian System

Interlake group	1565
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Ordovician System

Stony Mountain formation	1827
Lower Member	1920
Red River formation	1970
Winnipeg	2540
Precambrian	2743

0-46	No samples.
46-255	Shale, medium light gray, compact.
255-305	Shale, medium light gray to dark gray, lumpy, compact.
305-387	Missing.
387-394	Shale, as above (255-305).

394-454 Missing.
 454-476 Shale, medium gray to dark gray, lumpy, compact.
 476-479 Missing.
 479-499 Shale, very light gray, lumpy, compact.
 499-521 Shale, medium light gray, lumpy, compact.
 521-790 Shale, medium dark gray, lumpy, compact.
 790-857 Shale, medium dark gray, fissile to lumpy, compact.
 857-900 Shale, a above with numerous prismatic fragments of Inoceramus.
 900-948 Missing.
 948-1010 Shale, light gray to dark gray, lumpy, compact to brittle.
 1010-1030 Shale, medium dark gray, lumpy, compact, with abundant soft, white, calcareous specks, and little limestone, fragmental, prismatic, grayish orange 10YR7/4, and brownish gray.
 1030-1090 Shale, medium light gray to dark gray, lumpy, compact, and some limestone as above.
 1090-1100 Shale, as above.
 1100-1110 Missing.
 1110-1180 Shale, as above.
 1180-1190 Shale, as above and few pieces of sandstone, very fine grained, friable, light gray.
 1190-1210 Shale, medium dark gray, lumpy, compact.
 1210-1220 Sand, quartzose medium to coarse grained, rounded to well rounded, frosted, colorless, and little shale as above.
 1220-1250 Shale, as above.
 1250-1260 Shale as above, much sand as above (1210-1220) and few pieces of very fine to fine grained sandstone, well cemented, calcareous, glauconitic, light gray.
 1260-1300 Shale, medium dark gray, lumpy, compact, and few pieces of sandstone, as above.
 1300-1310 Sand, quartzose, medium to very coarse grained, subangular to well rounded, vitreous to pitted, colorless, and little pyrite.
 1310-1320 Sand, as above, some very fine grained sandstone, friable, calcareous, white, and numerous light brown to moderate reddish orange siderite concretions.
 1320-1328 Missing.
 1328-1346 Sand, as above.
 1346-1350 Sand, as above, and abundant siderite concretions.
 1350-1360 Missing.
 1360-1370 Sand, and numerous siderite concretions as above.
 1370-1380 Missing.
 1380-1400 Sand, quartzose, medium to very coarse grained, subangular to well rounded, pitted to frosted, colorless, and abundant siderite concretions, light brown 5YR6/4 to moderate red 5R5/4.
 1400-1430 Sandstone, very fine grained, friable to moderately well cemented, calcareous, very light gray, and little dark gray shale.
 1480-1460 Sandstone, as above, some loose quartz, coarse to very coarse grained, subangular to well rounded, vitreous to frosted, colorless, and numerous siderite concretions.
 1460-1470 Sandstone, and little loose quartz, as above.
 1470-1480 Limestone, argillaceous, very fine granular, dense, very arenaceous in part, very light gray and very pale orange to grayish orange 10YR7/4.
 1480-1487 Missing.
 1487-1490 Limestone, as above.

1490-1500 Limestone, very arenaceous, argillaceous, very fine granular, dense, very pale orange to grayish orange.

1500-1525 Limestone, very fine crystalline to very fine granular, some to medium oolitic, dense, very pale orange to pale yellowish brown.

1525 Circulation 1/2 hour. As above.

1525-1535 Limestone, as above, and some dark gray shale.

1535-1545 Shale, dark gray, fissile, compact, and little fine crystalline to fine granular limestone, dense, very pale orange to pale yellowish brown.

1545-1550 Missing.

1550-1565 Shale, moderate reddish orange to moderate reddish brown, and pale red 10R6/2, calcareous, lumpy, and little earthy, white gypsum.

1565-1570 Dolomite, subcrystalline, dense, moderate orange pink 10R7/4, with some shale and much gypsum as above.

1570-1580 Dolomite, as above.

1580-1590 Dolomite, calcitic, microsugrosic to subcrystalline, dense, very pale orange to moderate orange pink 5YR8/4 and pale red 10R6/2.

1590-1620 Dolomite, calcitic, microsugrosic, little interstitial porosity, grayish orange pink 10R8/2.

1620-1630 Dolomite, very fine granular to subcrystalline, dense, very pale orange to moderate orange pink 5YR8/4 and grayish pink to grayish red 5R4/2.

1630-1640 Dolomite, very fine granular, scattered pinpoint porosity, grayish pink to grayish red 5R4/2.

1640-1660 Dolomite, microsugrosic to sugrosic, mostly dense, little interstitial porosity, grayish pink to pale red 5R6/2 and moderate orange pink 10R7/4.

1660-1670 Limestone, dolomitic, very fine granular to fine crystalline, dense, very pale orange to moderate orange pink 10R7/4.

1670-1680 Dolomite, very fine granular, very pale orange, and grayish pink to pale red 5R6/2, and some limestone, lithographic, dense, grayish orange pink 5YR7/2.

1680-1700 Dolomite, as above to grayish red 5R4/2.

1700-1720 Limestone, lithographic, dense, grayish pink to grayish red 5R4/2.

1720-1730 Dolomite, calcitic, very fine granular, fair intergranular porosity, grayish pink to pale red 5R6/2.

1730-1740 Dolomite, very fine granular and fine to medium oolitic, fair to good interstitial porosity, grayish orange pink 10R8/2, moderate orange pink 10R7/4.

1740-1760 Dolomite, subcrystalline, dense, grayish orange pink to moderate orange pink 10R7/4.

1760-1780 Dolomite, fine crystalline to subcrystalline, dense, white to moderate pink 5R7/4.

1780-1790 Missing.

1790-1800 Dolomite, as above.

1800-1830 Dolomite, calcitic, very fine granular, grayish pink to pale red 5R6/2, and white.

1830-1850 Dolomite, as above to subcrystalline, dense, moderate orange pink to moderate reddish orange, and little shale, moderate reddish orange to moderate reddish brown.

1850-1870 Dolomite, calcitic, very fine crystalline to very fine granular, arenaceous in part, grayish orange pink to moderate orange pink, and little loose quartz, medium to coarse grained, rounded, frosted, colorless.

1870-1900 Dolomite, very fine crystalline to subcrystalline, dense, moderate orange pink 10R7/4.

1900-1920 Dolomite, very fine crystalline, dense, white to pale red 5R6/2, and some shale, moderate orange pink 10R7/4, lumpy, soft.

1920-1950 Dolomite, as above.

1950-1970 Dolomite, as above, and little shale, moderate reddish orange to moderate reddish brown, and dark gray, fissile to lumpy, compact.

1970-2000 Dolomite, calcitic, very fine granular to very fine crystalline, dense, very pale orange and grayish pink to moderate pink.

2000-2040 Dolomite, as above to light red 5R6/6.

2040-2070 Limestone, dolomitic, sublithographic, dense, very pale orange to moderate orange pink 5YR8/4.

2070-2100 Limestone, as above, very pale orange.

2100-2110 Dolomite, very fine granular to sucrosic, little pinpoint porosity, very pale orange to pale yellowish brown.

2110-2130 Dolomite, calcitic, very fine crystalline, dense, pale yellowish brown, and few pieces of moderate reddish brown shale.

2130-2140 Dolomite, as above.

2140-2190 Dolomite, sucrosic, fair interstitial porosity, very pale orange to moderate orange pink 10R7/4.

2190-2220 Limestone, fine granular, little intergranular porosity, grayish orange pink 5YR7/2.

2220-2240 Limestone, as above to moderate orange pink 10R7/4.

2240-2260 Limestone, dolomitic, fine crystalline to fine granular, dense, moderate orange pink 10R7/4.

2260-2270 Missing.

2270-2430 Limestone, fine crystalline to very fine granular, dense, arenaceous in part, grayish pink to pale red 5R6/2.

2430-2480 Limestone, as above, to very pale orange.

2480-2550 Limestone, very fine crystalline to very fine granular, little intergranular porosity, very pale orange and grayish pink to pale red 5R6/2.

2550-2560 Limestone, as above, and few pieces of very fine grained, friable, white sandstone.

2560-2590 Limestone, as above.

2590-2600 Limestone, as above and some shale, greenish gray 5GY6/1, waxy, fissile, compact.

2600-2615 Shale, pale green 10G6/2 and greenish gray 5GY6/1, waxy, fissile, compact, and much limestone, fine to medium fragmental to very fine granular, very pale orange to pale yellowish brown.

2615-2620 Shale, brownish gray, pale green 10G6/2, and light olive gray 5Y5/2, waxy, fissile to splintery, compact.

2620-2640 Shale, greenish gray 5G6/1 and brownish gray, calcareous, splintery, compact to brittle.

2640-2700 Shale, as above to light olive gray 5Y6/1.

2700-2720 Shale, greenish gray 5G6/1 and olive gray 5Y4/1, fissile to splintery, compact to brittle.

2728 Circulation sample. Sandstone, fine to medium grained, subangular to rounded, siliceous cement, colorless to light brown 5YR6/4, much loose quartzose sand, coarse to very coarse grained, angular to well rounded, vitreous to frosted, colorless and some shale, as above.

2720-2740 Sandstone, loose sand and shale, as above.

2740-2742 Shale, greenish gray 5G6/1, fissile to splintery, compact, and
some black to greenish black 5G2/1 amphibolite schist.
2743 Circulation 3/4 hour. Schist and shale, as above.
2743 Total Depth.