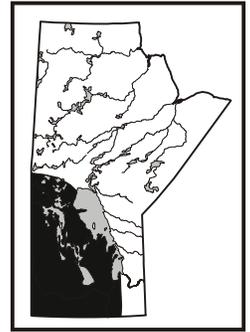


by G.G. Conley



Conley, G.G. 1999: Products of the Manitoba Stratigraphic Database, 1999, *in* Report of Activities 1999, Manitoba Industry, Trade and Mines, Geological Services, p. 125.

SUMMARY

In spring of 1999, the Manitoba Stratigraphic Database (MSD) and all 30 of the stratigraphic map series were released in digital form on a CD-ROM. This was the first digital release of non-confidential Paleozoic and Mesozoic subsurface geologic well data and maps for the Province (Bezys and Conley, 1999).

In March of 1999, the Capital Region Study Mineral Resource Potential and Overburden Thickness and Geology and Bedrock Topography (5 m contour interval) Preliminary Maps were released in printed form (Bezys et al., 1999a-h).

MANITOBA STRATIGRAPHIC DATABASE AND THE STRATIGRAPHIC MAP SERIES

The Manitoba Stratigraphic Database contains well data generated by activities of the Geological Services Branch, Manitoba Energy and Mines. This includes stratigraphic data from oil and gas wells, government stratigraphic coreholes, mineral exploration diamond drill holes, engineering test holes, stratigraphic water well test holes and Manitoba Hydro core holes. At present, the database contains about 1200 verified wells. More detailed information on both the Manitoba Stratigraphic Map Series and Manitoba Stratigraphic Database is available in Conley and Bezys (1998).

Petroleum data is marketed under an agreement with the Land Information Navigator, and as a result, is not included in MSD. Contact the Petroleum Branch for data specific to the Oil and Gas Industry in Manitoba.

MSD projects currently underway

An update of the MSD CD-ROM is planned for early 2000. New items to be included are historical tops picked by H.R. McCabe (formerly of this Department), detailed core descriptions by R. Bezys and several updated and new maps prepared by Petroleum Branch.

The historical tops generated by H.R. McCabe are being added to MSD. H. Thorleifson of the Geological Survey of Canada was instrumental in having the data rendered in a digital form. However, due to 1) the difficulty in the transformation of hand written data to digital format, and 2) the problem of metric vs. imperial measurement, the data requires extensive reworking and editing before it can be included in the database.

Final editing on the detailed core descriptions, prepared by R. Bezys, has been completed and the data will be parsed into MSD.

Petroleum Branch is preparing several maps to be included with the next release of the MSD CD. These maps include: Structure on top of the Mississippian erosional surface (1:125 000) (updated), Isopach Map of the Lower Amaranth Formation, Southwestern Manitoba (1:125 000) (updated), Structure on top of the Upper Virden Member, Virden Field (1:50 000) (updated), Structure on top of the Cruickshank Crinoidal, Daly Field (1:50 000) (updated), Isopach of the Swan River Formation (1:1 000 000) (new).

Capital Region Study, southern half

In 1999, the Capital Region Study preliminary maps were released. These included the Selkirk (62I/2), Stonewall (62I/3), Teulon (62I/6) and Netley Marsh (62I/7) map sheets.

The four map sheets comprising the southern half of the Capital Region Study area are now being prepared for release in 2000. These include Ste. Anne (62H/10), St. Adolphe (62H/11), Winnipeg (62H/14) and Dugald (62H/15). The maps include 5 m contour overburden thickness and geology and bedrock topography maps. Data sources include primarily water wells in addition to wells from MSD. The quality of the water well data is highly variable, so the MSD wells provide important control points.

FUTURE PLANS

An update of the MSD CD-ROM is planned for early in 2000. This release will include corrections as well as new items as detailed above.

R.K. Bezys plans to complete the verification of the Devonian wells and prepare a new set of Devonian Stratigraphic Maps. This information will be released as a future MSD CD-ROM update when completed.

Geological Services and Petroleum Branches will jointly create a new map entitled Lower Paleozoic Oil Shows. The map is planned to be interactive with the Petroleum Lower Paleozoic Drill Stem Test and Oil Shows data.

Petroleum Branch also intends to update M-1 Mississippian Madison Group and M-2 Mississippian Erosion Surface maps.

A long term goal is to create an interactive stratigraphic map series where the user could retrieve data by selecting data points on the map.

REFERENCES

Bezys, R.K., Bamburak, J.D., and Conley, G.G., 1999a: Capital Region Study: mineral resource potential and overburden thickness, Selkirk (N.T.S. 62I/2); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-1 (1:50 000).

1999b: Capital Region Study: geology and bedrock topography, Selkirk (N.T.S. 62I/2); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-2 (1:50 000).

1999c: Capital Region Study: mineral resource potential and overburden thickness, Stonewall (N.T.S. 62I/3); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-3 (1:50 000).

1999d: Capital Region Study: geology and bedrock topography, Stonewall (N.T.S. 62I/3); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-4 (1:50 000).

1999e: Capital Region Study: mineral resource potential and overburden thickness, Teulon (N.T.S. 62I/6); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-5 (1:50 000).

1999f: Capital Region Study: geology and bedrock topography, Teulon (N.T.S. 62I/6); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-6 (1:50 000).

1999g: Capital Region Study: mineral resource potential and overburden thickness, Netley Marsh (N.T.S. 62I/7); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-7 (1:50 000).

1999h: Capital Region Study: geology and bedrock topography, Netley Marsh (N.T.S. 62I/7); Manitoba Energy and Mines, Geological Services, Preliminary Map 1999CAP-8 (1:50 000).

Bezys, R.K. and Conley, G.G. 1999: Manitoba Stratigraphic Database and the Manitoba Stratigraphic Map Series, Open File Report OF98-7, on CD-ROM.

Conley, G.G. and Bezys, R.K., 1998: The Manitoba Stratigraphic Map Series (Paleozoic and Mesozoic Maps) and the Manitoba Stratigraphic Database: new and previously released subsurface geological data; *in* Report of Activities 1998, Manitoba Energy and Mines, Geological Services, p. 210-211.