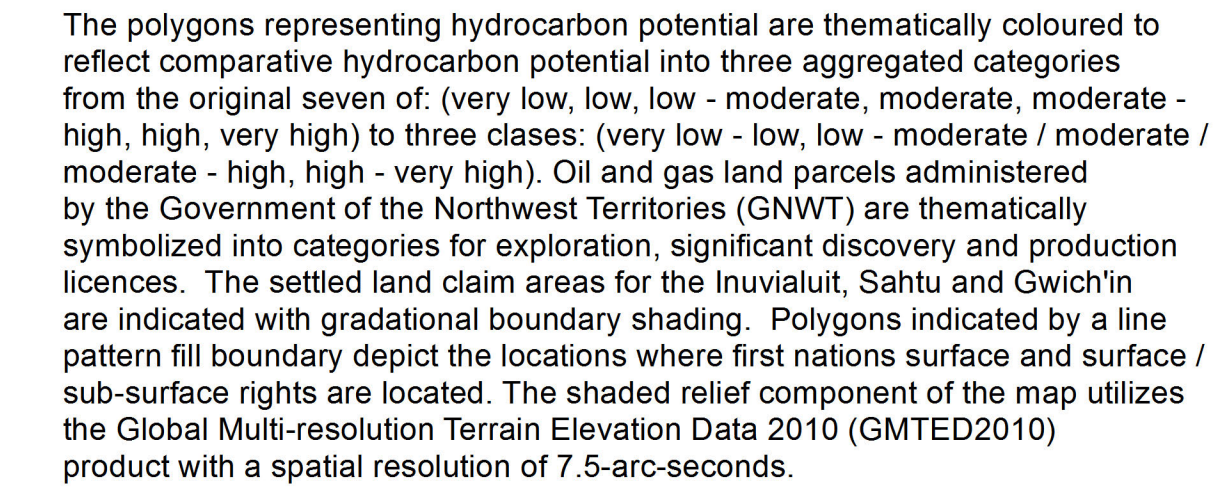




The following introduction and methodology are taken directly from the NTGO: NWT Open File Report 2005 - 004, for the purposes of clarity and preservation of the contextual material. Hydrocarbon potential map citations are also directly taken from the original publication.

only in a general sense in this broad based study. Equal weighting is given to both oil and gas. For a reconnaissance-scale study such as this, it is the number and type of plays present that dominantly contribute to the assignment of hydrocarbon potential. The criteria for rankings of very low to very high potential (Table 1) follow Gal and Jones (2003) and Gal and Larivière (2004).

The Map illustrates the locations within the Northwest Territories where expressions of interest will be accepted for the purposes of oil and gas exploration and development. The map also shows the locations where expressions of interest will be accepted for the purposes of oil and gas development. Current oil and gas rights; significant discovery licences and exploration licences are shown in the context of hydrocarbon potential. The specific areas where expressions of interest will be accepted are illustrated by the oil and gas grid (section and unit numbers). The unit areas which are the smallest squares on the map show the smallest divisible area of land where a piece of land can be licensed for oil and gas exploration leading to significant discovery and/or production. If an expression of interest for any particular section does not fully contain all the units within the section, or sections within a grid, the grid, section and units must be referenced must still be used to provide a full legal land description of the parcel of land under the government of the Northwest Territories.

Oil and Gas Rights and Grid References

A reproduction of the original 1968a representative figures illustrating the Oil and Gas Rights in the Northwest Territories and Nunavut were created for inclusion in this map. The original illustration can be found via the following URL:
<http://www.aadnc-aa.gc.ca/DAM/DAMD-INTER-HQ-NOCS/STAGING/texte-texte/0168a.pdf>

At the time of the creation of the original graphic the Northwest Territories and Nunavut were one territory.

The Oil and Gas Rights and Gas Grid Reference system can be found via the following URL: <http://www.nrcan.gc.ca/earth-sciences/geomatics/canada-lands-surveys/110929/0168a>

The 2000 National Framework for Oil and Gas Grid Reference was compiled from Natural Resources Canada and can be found via the following URL:
<http://www.nrcan.gc.ca/earth-sciences/geography/topographic-information/110929/0168a>

The Northwest Territories oil and gas rights GIS data can be found via the following URL: <http://www.gov.nt.ca/en/services/oil-and-gas-gis-data>

Hydrocarbon Potential Map Citation:
Gal, L.P., 2005. Hydrocarbon Potential Ranking Map of the Sahtu and Gwich'in Settlement Areas, Map 1 of 2; Northwest Territories Geoscience Office, NWT Open File 2005-04, 2 maps, scale 1:1,000,000.

Original NTGO Hydrocarbon Potential Map Reference Citations:
Fischbuch, N.R., 1984. Facies and reservoir analysis, Kee Scarp Formation, Norman Wells area, Northwest Territories; Geological Survey of Canada, Open File 1116.

Gal, L.P. and Jones, A.L., 2003. Evaluation of oil and gas potential in the Deh Cho territory; C.S. Lord Northern Geoscience Center, Yellowknife, NWT. NWT Open File 2003-03, 88 p.

Gal, L.P. and Lariviere, J.M., 2004. Edzhzie candidate protected area non-renewable resource assessment (Phase I), Northwest Territories; C.S. Lord Northern Geoscience Centre, Yellowknife, NWT. NWT Open File 2004-03, 100 p.

File 2004-01, 125 p.
International Frontier Resources Corporation, 2004.
Progress Report, Summit (Wilma) B-44 Production
Testing. News release dated October 8, 2004.
Janicki, E. P., 2004. Hydrocarbon pool studies of the
Colville Hills, Northwest Territories Geoscience Office.
NWT Open Report 2004-006.

Jones, T.A., Jefferson, C.W., and Morrell, G.R., 1992.
Assessment of mineral and energy resource potential
in the Brock Inlier-Bluenose Lake area, N.W.T.;
Geological Survey of Canada, Open File 2434.
Northwest Territories Protected Areas Strategy, 2003.
Mackenzie Valley Five-Year Action Plan (2004-2009).

Conservation planning for pipeline development. Report prepared by NWT Protected Areas Strategy Secretariat. Paramount Resources Ltd., 2004. Paramount Resources Ltd. updates its Northwest Territories Activities. Press release dated September 8, 2004.

Reinson, G.E., Lee, P.J., Watters, W., Osadetz, K.G., Bell, L.L.,

Price, P.R., Trollope, F., Campbell, R.I., and Barclay, J.E., 1993. Devonian gas resources of the Western Canada Sedimentary Basin. Part I: Geological play analysis and resource assessment; Geological Survey of Canada, Bulletin 452, p. 10-127.

Scoates, R.F.J., Jefferson, C.W., and Findlay, D.C., 1986. Northern Canada mineral resource assessment; in Prospects for mineral

resource assessment on public lands: Proceedings of the
Leesburg Workshop; edited by S.M. Cargill and S.B. Green;
U.S. Geological Survey, Circular 908, p. 111-139.
Unocal Corporation, 2005. Unocal announces discovery in Northwest
Territories, Canada. News Release dated March 30, 2005.

Danielson, J.J., and Gesch, D.B., 2011, Global multi-resolution terrain elevation data 2010 (GMTED2010); U.S. Geological Survey Open-File Report 2011-1073, 26 p. <http://pubs.usgs.gov/of/2011/1073/>

Amante, C. and B.W. Eakins, 2009. ETOPO1 1-Arct-Minute Global Relief Model: Procedures, Data Sources and Analysis. NOAA Technical Memorandum NESDIS NGDC-24, National Geophysical Data Center, NOAA. doi:10.7289/V5C8276M [access date, <http://www.ngdc.noaa.gov/mgg/global/global.html>]

Document Title: Hydrocarbon_Potential_OnG_Constraints_Grid_v3_Feb7_2017.mxd
Source: Petroleum Resources Division
Industry Tourism and Investment
Document Status: FINAL

Document Status: FINAL
Document Security Level: PUBLIC
Date: February 7, 2017
Projection: UTM, Zone 9
Datum: NAD 27

If you have questions, comments, or feedback, please contact:
 Petroleum Resources Division
 1st Floor Semmler Building, Inuvik NT
 Email: petroleum@gov.nt.ca
 Website: www.nwtpetroleum.com
 Phone: (667) 777-7475