

Catalogue Number	Fossil	Age	Eastings, Northing (NAD83)	Report
O35655	molluscs	Albian	615340, 7376400	GSC 1522A
C-486355	spores	Carboniferous	597594, 7365063	JU-2009-06
C-486356	spores	Carboniferous	592516, 7359967	JU-2009-06

Table 1. Fossil localities.

Section	Note
43BR	Hart River Formation (study section) - Bamber, E.W. 1972; Norris, D.K. 1981
43BR-A	Hart River Formation (study section) - Bamber, E.W. 1972; Norris, D.K. 1981
43BR-B	Hart River Formation (study section) - Bamber, E.W. 1972; Norris, D.K. 1981
45BR	Hart River and Ettrah Formation (study section) - Bamber, E.W. 1972; Norris, D.K. 1981

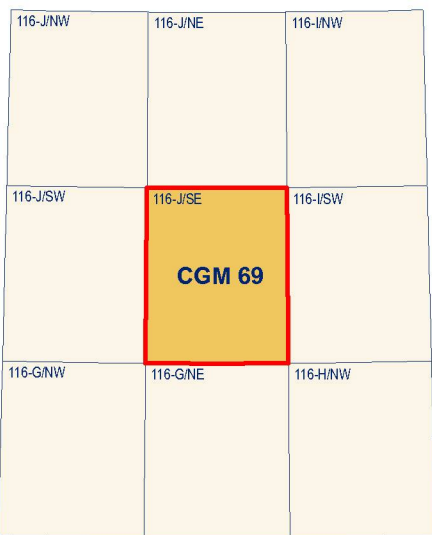
Table 2. Stratigraphic sections.

Abstract

The southeast quadrant of Porcupine River (NTS 116-J) has been mapped only once previously, during Operation Porcupine (1962–1976). The resulting reconnaissance map was issued in 1982 at 1:250 000 scale. This new preliminary GIS map and geodatabase, compiled at 1:50 000 scale, incorporates modern stratigraphic nomenclature, new biostratigraphic data and more accurately located structures and contacts based on air photo analysis, satellite imagery and up-to-date basemaps. Two extensive areas are underlain by very poor exposure. In the southeast, broad expanses underlain by Cody Creek Formation reveal little stratigraphic or structural information. Several structures that appeared on the original reconnaissance map in this area have yet to be corroborated. On the west side of the map, a large area was previously mapped as a broad pediment landform where underlying bedrock was largely unexposed. This map attempts to project the stratigraphy and structure beneath this poorly exposed area.

Résumé

Le quadrant sud est de la rivière Porcupine (NTS 116-J) a été cartographié précédemment une seule fois pendant l'opération Porcupine (1962–1976). La carte de reconnaissance qui en résulte a été émise en 1982 sur une échelle de 1:250 000. Cette nouvelle carte et base de données préliminaire SIG, établie sur une échelle de 1:50 000, constitue la nomenclature stratigraphique moderne, des nouvelles données biostratigraphiques, et plus spécifiquement des structures et des contacts relevés sur l'analyse de photos aériennes, l'imagerie satellite, et des cartographies mises à jour récentes. Deux régions importantes bénéficient d'une exposition très pauvre. Dans le sud est, de vastes étendues sous jacentes siluées au dessus de la formation Cody Creek révèlent peu d'informations stratigraphiques ou structurelles. Plusieurs structures qui sont représentées sur la carte originale de reconnaissance dans cette région doivent être confirmées. Sur le côté ouest du carte, une grande région a été précédemment cartographiée en tant que vaste relief de pédiment où le sous-bassement du substrat rocheux n'était largement exposé. Cette carte essaie de planifier la stratigraphie et la structure sous cette région pauvrement exposé.



National Topographic System reference

Cover illustration
Fireweed flourishes on a recently burned slope underlain by Cretaceous Eagle Plain Group in the southern part of the map area. Photograph by L.S. Lane, 2012-007

Catalogue No. M183-1/69-2012E-PDF
ISBN 978-1-100-20273-0
doi:10.4095/290064

© Her Majesty the Queen in Right of Canada 2013

Natural Resources Canada
Ressources naturelles du Canada

CANADIAN GEOSCIENCE MAP 69
GEOLOGY
PORCUPINE RIVER
(SOUTHEAST)

Yukon
1:100 000



Preliminary

Canadian
Geoscience Maps

Canada

Preliminary

Author: L.S. Lane

Geological interpretation by L.S. Lane based on new mapping by L.S. Lane and stratigraphic sections by K.W. Jackson, P.K. Pedersen, C.J. Schröder-Adams, and J.W. Haggart, 2009 and 2010, and by J. Dixon, 1982–1986; evaluation of archival field data and fossil localities from Operation Porcupine, 1962–1976; and interpretation of public domain seismic reflection data and analysis of air photos and satellite imagery, 2009–2012.

Geomatics and cartography by M. Le and L. MacDonald

CANADIAN GEOSCIENCE MAP 69

GEOLOGY
PORCUPINE RIVER (SOUTHEAST)

Yukon
1:100 000



Preliminary

Initiative of the Geological Survey of Canada, conducted under the auspices of the Yukon Sedimentary Basins project as part of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program.
Map projection Universal Transverse Mercator, zone 7, North America Datum 1983
Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications.
Elevations in metres above mean sea level

Preliminary

Mean magnetic declination 2013, 29°E, decreasing 28' annually. Readings vary from 23°12'E in the NE corner to 22°48' in the SW corner of the map.

The Geological Survey of Canada welcomes corrections or additional information from users.

Data may include additional features not portrayed on this map.

See documentation accompanying the data.

This publication is available for free download through GEOSCAN (http://geoscan.nrcan.gc.ca).

Preliminary publications in this series have not been scientifically edited.

Recommended citation
Lane, L.S., 2013. Geology, Porcupine River (southeast), Yukon; Geological Survey of Canada, Canadian Geoscience Map 69 (preliminary), scale 1:100 000, doi:10.4095/290064

CANADIAN GEOSCIENCE MAP 69
GEOLOGY
PORCUPINE RIVER (SOUTHEAST)
Yukon