This map shows the regional variations in bedrock topography and complements those presented in the regional bedrock topography of Alberta (Pawlowicz and Fenton, 1995). A preliminary bedrock sequence, including gas-bearing sandstones of the Bluesky Formation, and into the Devonian Wabamun Group limestone down to an elevation of 25 m asl. Buried valleys are one and the Zama Valley in the north. A deeply incised depression located within the Zama Valley in Township 110, Range 3, west of the 6th Meridian has eroded through the entire Cretaceous.

Present-day rivers include Hay River, which dissects the Rainbow Lake Plain and then flows through Zama Lake before exiting the northeast corner of the map area, and Meander River, is characterized by broad, low-relief areas between 335 and 450 metres above sea level (asl) blanketed by boreal forest and extensive bogs and fens. The southwestern quadrant of the accompanying digital elevation model (Figure 1). The Hay River Plain and the Zama Lake Plain lie within the Fort Nelson Lowland in the northern and eastern parts of the map area. This lowland

References

Acknowledgments

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The Petroleum and Gas Resources Board and the Canadian Natural Resources Agency provided useful comments on the draft report. Most of the engineering work was done by Calspan, Inc. of Fort Collins, Colorado, in cooperation with the Agriculture Canada Laboratory of Geomatics, with Dr. H. W. Pettapiece, W.W. (1986): Physiographic subdivisions of Alberta; Land Resource Research Centre, Research Branch, Agriculture Canada, Ottawa, physiographic map.

Petroleum well, bedrock surface above logged interval

Petroleum well, bedrock surface picked

Water well, bedrock surface above logged interval

Rainfall gauge

Lake

Road - paved

Road - gravel

Road - dirt

Lake

Figure 1: Present-day surface topography and photography

Figure 2: Soil and groundwater

Map 328

Bedrock Topography of Zama Lake Area, Alberta (NTS 84L)


Scale 1:250 000

GeoInfo, Alberta Environment, Edmonton, 1996.

Layer names

Water well, bedrock surface above logged interval

Petroleum well, bedrock surface picked

Water well, bedrock surface below logged interval

Lake

Road - operated

Road - gravel

Road - dirt

Lake

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