



Map projection: Transverse Mercator  
 Central Meridian: 101°  
 North American Datum 1983

- SYMBOLS**
- Major highways
  - Railways
  - Federal and provincial parks
  - - - Provincial boundary
  - - - DLS system (township/range grid)
  - Manitoba Geological Survey data
  - ▲ Manitoba Petroleum Branch data
  - Saskatchewan data
  - Formation edge (subcrop, outcrop)
  - Large-scale geological structure
  - Limit of Phanerozoic outcrop



Targeted Geoscience Initiative (TGI)  
**WILLISTON BASIN ARCHITECTURE AND HYDROCARBON POTENTIAL**  
**Mississippian Charles Formation, Middle Beds: Structure Contour**

Stratigraphic Map SM2008-MMB-S

Contour Interval: 20 metres Scale: 1:1 000 000



**Geological compilation:** TGI Williston Basin Working Group: R.K. Bezys<sup>1</sup>, K. Kreis<sup>2</sup>, C. Martinuk<sup>3</sup>, D. Barchyn<sup>4</sup>, J. Christopher<sup>5</sup>, J. Coolican<sup>6</sup>, G.G. Conley<sup>7</sup>, A. Costal<sup>8</sup>, F. Haid<sup>9</sup>, G.R. Keller<sup>10</sup>, D. Kerd<sup>11</sup>, A. Mason<sup>12</sup>, M.P.B. Nicolas<sup>13</sup>, P. Thomas<sup>14</sup>, S. Spooner<sup>15</sup>, M. Yurkowski<sup>16</sup>, A. Nimegeers<sup>17</sup>, E. Nadek<sup>18</sup>, M. Opatosh<sup>19</sup>, T. Masi<sup>20</sup>

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<sup>6</sup> Geological consultant  
<sup>7</sup> Formerly of Manitoba Geological Survey, Stratigraphic Map SM2008-MMB-S, scale 1:1 000 000, URL: www.WillistonTGI.com

**Suggested Reference:**  
 TGI Williston Basin Working Group 2008: Mississippian Charles Formation, Middle Beds: structure contour; Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Stratigraphic Map SM2008-MMB-S, scale 1:1 000 000, URL: www.WillistonTGI.com