## AN ASSESSMENT OF VERTICAL AND LATERAL PRESSURE COMMUNICATION AT SURMONT IN THE WABISKAW-McMURRAY FORMATIONS

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Prepared for

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Figure G-90: Pool Cross Section 53-53'; Results Traces, which include Gamma Deleted: Calibrated Ray (GR), Effective Porosity (PhiE), and Water Saturation (Sw) with Posted Layer Tops and Fluid Contacts; Hung on Top of the McMurray (Layer 2). Deleted: Calibrated Figure G-91: Pool Cross Section 54-54'; Results Traces, which include Gamma Ray (GR), Effective Porosity (PhiE), and Water Saturation (Sw) with Posted Layer Tops and Fluid Contacts; Hung on Top of the McMurray (Layer 2). Figure G-92: Pool Cross Section 54-54'; Results Traces, which include Gamma Deleted: Calibrated Ray (GR), Effective Porosity (PhiE), and Water Saturation (Sw) with Posted Layer Tops and Fluid Contacts; Datum = TVDSS of (-250). Figure G-93: Top of Basal Wabiskaw Structure Map Figure G-94: Layer 1 Gross Thickness Map Figure G-95: Layer 2 Gross Thickness Map Figure G-96: Layer 3 Gross Thickness Map Figure G-97: Layer 4 Gross Thickness Map Figure G-98: Layer 5 Gross Thickness Map Figure G-99: Layer 6 Gross Thickness Map Figure G-100: Layer 1 Net-to-Gross Thickness Map Figure G-101: Layer 2 Net-to-Gross Thickness Map Figure G-102: Layer 3 Net-to-Gross Thickness Map Figure G-103: Layer 4 Net-to-Gross Thickness Map Figure G-104: Layer 5 Net-to-Gross Thickness Map Figure G-105: Layer 6 Net-to-Gross Thickness Map Figure G-106: Layer 1 Average Effective Porosity (PhiE) Map

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#### **RESERVOIR ANALYSIS FIGURES**

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Figure RA-2: Analytical Pool Delineations

Figure RA-3: Reservoir Pressure Distribution 1986

Figure RA-4: Reservoir Pressure Distribution 2002

#### **RESERVOIR SIMULATION FIGURES**

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Figure RS-2: Conceptual Model – Varying Permeability

Figure RS-3: Conceptual Model – High Pressure System

Figure RS-4: History Match Pool Delineations

Figure RS-4A: History Match Pool Delineations Including Piezo Data

Figure RS-5 – Figure RS-93: History Match Plots for Individual Wells

Note: **Figure RS-50** has been intentionally deleted. This was a buffer area well and not subject to history matching criteria.

## LIST OF APPENDICES

**Appendix P-1:** PDF, PLT and LAS Files for 648 Analyzed Wells (Petrophysics CD-ROM)

**Appendix P-2**: Net Pay and Net Reservoir Property Tables (Petrophysics CD-ROM)

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