



## **Shane Newman, P.Eng.**

Civil/Structural Engineer; Principal

### **Education**

B.Sc. (Civil Engineering) 1993 University of Calgary

### **Affiliations**

Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)

Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS)

Association of Professional Engineers and Geoscientists of British Columbia (APEGBC)

### **Experience (1994 – Present)**

#### **BECK ENGINEERING (1992) LTD.**

Since joining Beck Engineering, Mr. Newman has worked on a variety of civil and structural engineering projects in the Oil & Gas industry. Mr. Newman has completed civil and structural design, analysis and review of new and existing oil & gas facilities including the following:

- Design of foundations for buildings, skid packages, storage and process tanks, horizontal and vertical vessels, compressors, flare stacks, and pipeline anchors, including the analysis and design of foundations subject to dynamic loads using dynamic analysis software.
- Design and analysis of structures including buildings, skid packages, pipe racks, pipeline anchors, vessel supports, stacks and miscellaneous equipment.
- Design of engineered lift procedures of heavy equipment, including selection of lifting equipment, selection and design of rigging, analysis and design of lifting attachments, and preparation and review of procedures for transportation, offloading, installation and removal of equipment/structures.
- Inspection, review, and assessment of concrete, steel, and wood structures including special structures such as bridges, retaining walls, overhead cranes, sulphur pits and truck weigh scales.

## 2011 PROJECTS

### ***Engineering Firms***

Lead civil and structural engineer on projects for EPCM companies in the Oil & Gas industry. Work includes analysis and overall review of foundations and structures to support equipment, buildings, and piping as well as roadway construction and site drainage plans.

#### 2011 Clients Include:

ABB Inc., Asher, AP Dynamics, Caber, Caltech, Candor, Christiansen, CH2M, Cornerstone, DANA Technical, Excelsior, Fortress, GENIVAR, GRB, Great Plains, Hood, Ibex, Integra, Lauren Concise, Keywest, Lanmark, Milford, Onstream, O'Rourke, Process, Qualitas, SAW, Scovan, Seidlitz, SPEC, Strive, Swift, TG Eng, TNT Eng, Tridyne, Vanguard, Westview, XXL Eng

### ***Process Package & Steel Fabrication Facilities***

Structural analysis and design of domestic and international equipment packages and steel structures including skids, overhead crane structures, trailers, stacks, vessel ladders & platforms, and reprocessed/salvaged packages on a case specific basis. Documentation suitable for third party review was provided as requested.

#### 2011 Clients Include:

Cameron, CanDyne, Chamco, Enerflex, HC Piper, Hytech, Propak, Rare Oilfield

### ***Specialty Rigging & Construction Companies***

Design/review of equipment used for rigging (i.e., manbaskets, jibs, temporary structures, specialty lift devices). Development of heavy lift crane rigging studies for equipment repairs, installations, and demolitions.

#### 2011 Clients Include:

Bassco Sales, Lifting Equipment, Rainbow Riggers

### ***Oil & Gas Companies / Industrial Companies***

Assisted internal engineering teams with civil and structural engineering services. Provided engineering design services for structures and foundations for vessels, buildings, piping, platforms, as well as roadway construction and site drainage plans. Assisted with feasibility studies for potential projects. Gave emergency repair advice to remove equipment (or augment equipment supports for future replacement) due to fire damage, corrosion damage, or otherwise accidentally damaged equipment or support systems.

#### 2011 Clients Include:

Agrium, Altagas, Aspire Energy, ATCO Pipeline, Bellarix Exploration, Bonavista Energy, CCS Energy, Cenovus Energy, ConocoPhillips, Canadian Natural Resources Limited, Devon, Harvest Energy, Husky, Paramount, Secure Energy, Shell Canada, Sherritt Power, Suncor

### ***Specialty Foundations***

Design/review of specialized foundations, including micropiles and retaining structures.

#### 2011 Clients Include:

Beck Drilling, RS Foundations