



Trevor Freeman, P.Eng.

Civil/Structural Engineer; Principal

Education

B.Sc. (Civil Engineering) 1996 University of Calgary

Affiliations

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

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

Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS)

Experience (1996 – Present)

BECK ENGINEERING (1992) LTD.

Since joining Beck Engineering, Mr. Freeman has worked on a variety of civil and structural engineering assignments in the Oil & Gas Industry as well as on projects in the light industrial and commercial fields. Recent projects he has been involved in have included:

- Supervision and direction of Civil/Structural design team.
- Analysis and design of structures using computer modeling and analysis techniques; structures include steel skid packages, pipe racks, control buildings, vessel supports, tower and stack bases, sulphur pits, and other miscellaneous structures.
- Analysis and design of flare/incinerator/vent stacks (free standing and guy supported) for a wide range of environmental conditions. Projects include stacks for use across Canada and worldwide.
- Design of foundations for buildings, skid packages (compressors, dehydrators, separators, etc.), storage and process tanks, horizontal vessels, sulphur treating facilities, compressors and flare stacks.
- Analysis and design of jib cranes, overhead cranes, and monorails as well as davits, vessel attachments, lift lugs, etc.
- Inspection and field supervision for industrial facilities, including stack repairs/rehabilitation, pile installations, and structural steel construction.
- 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.

PROJECTS OF INTEREST

Tridyne Projects Corporation

Civil/Structural Lead Engineer for Oil & Gas and waste treatment facilities. Large projects include CCS High Prairie and Buck Creek facilities.

Exergy Engineers and Constructors Inc.

Civil/Structural Lead Engineer on Oil & Gas projects. Includes traditional heavy oil treatment facilities in Albania and major plant expansion at Williams Energy Redwater facility.

Darsi Engineering

Civil/Structural Lead Engineer for major gas plant expansion at Crescent Point Viewfield facility.

Rangeland Engineering

Civil/Structural Lead Engineer for Oil & Gas projects. Including work for Enbridge Pipelines at several facilities, Provident Energy Redwater facility, Plains Marketing Alberta and California operations, and Enterprise Products Operating LP's Meeker Gas Plant, Colorado.

Caltech Senex Oil & Gas Group

Civil/Structural Lead Engineer for Oil & Gas projects. Work involved design, review, and repair and maintenance of sulphur treating facilities, SAGD facilities, and traditional Oil & Gas facilities and pipelines.

Gemini Engineering Limited

Civil and structural design on numerous Oil & Gas facilities. Large projects have included the CCS West Edson, Brooks, Wapiti, and Peace River TRD facilities as well as sulfur prilling plant in Galveston, Texas.

Sheritt Power Corporation

Design and review of an electrical substation in Varadero, Cuba.

ConocoPhillips Canada

Design of foundations for compressor stations including compressors, inlet separator buildings, dehydrator buildings, amine plant buildings, storage tanks, and flare stacks.

Flareon Inc.

Structural design of flare stacks for numerous international Oil & Gas facilities.

Proofloading Inc.

Design of below the hook lifting devices for numerous applications in the Oil & Gas Industry.

SemCAMS

Civil and structural support for the ongoing maintenance of 3 midstream and sulphur plants.

Stampede Crane & Rigging Inc.

Rigging studies for many projects including wind turbines at Cowley Ridge, AB, flare stacks at Williams Energy – Redwater, and power station modules at several locations across Alberta.

Tri-Venture Construction Ltd. – Stampede Crane & Rigging Inc.

Rigging studies and dismantling engineering for the Turbo Refinery at Balzac, AB.

Trotter & Morton Ltd.

Rigging studies and rigging designs for the installation of penstock at the Oldman River Dam Hydroelectric Plant.