



# Total Combustion of Waste Gases, Tank Vapors and BTEX Emissions



# TCl – Total Combustion Inc.



“TCl” is a well service company providing:

- Equipment and services used in the incineration of waste gases and in the completion.
- Workover and production of oil and natural gas wells.



# People, Services, Technology

- TCI team has people with the experience and relevant skills to deliver our products and services in a safe , cost-efficient manner.
- TCI has developed a new and unique technology for the incineration of waste gases and we support our products with complete and reliable service from design, installation through to follow-up.



# The Problem

- The environmental impact of testing for (and producing of) oil and natural gas, demands careful management.
- More efficient combustion of waste gases is essential to reduce their environmental impact.



# R & D Focus



To build a cost effective system that:

- Meets or exceeds all regulatory requirements;
- Is simple to operate;
- Is functional over a wide range of operating parameters;
- Is serviceable without having to shut down operations;
- Eliminates the flame visibility and odors associated with flaring.



# Technology



## TCI Patented Technology:

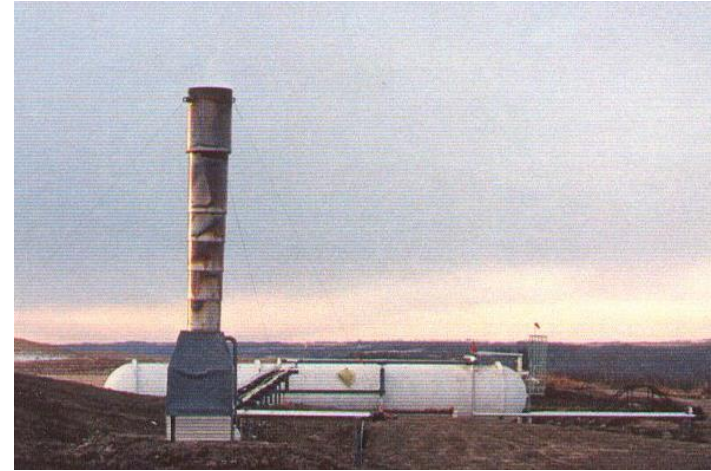
- Uses multiple inlet valving to allow for increased or decreased flow from original volumes;
- Will handle gas flows from several different sources;
- Utilizes burners that can be changed or serviced on the fly;
- Has no refractory lining, allowing for less weight, ease of trucking, handling and set-up.



# Applications



Solution flare gas



# Applications



BTEX vapors off still columns on dehydrators





# Applications



Tank vapours



# Applications



Acid gas



# Applications



Blowdowns



# Applications



Production testing applications



# The environment



- 99%+ combustion efficiency;
- In-stack temperature of 900°C to 1200°C;
- Safety features that include regulators to handle all the things that can (and will) go wrong in production operations;
- Optional flame failure ignitions for critical sour wells.



# Standard TIC sizing

- TCI 500 (maximum of 50 MCF per day);
- TCI 1200 (maximum of 80 MCF per day);
- TCI 2000 (maximum of 200 MCF per day);
- TCI 4200 (maximum of 500 MCF per day);
- For flow rates above 500 MCF per day - special order only;
- TCI Mobile Units for pipeline & pig receiver blowdowns.



# Other TCI systems

- Mobile Well Testing Unit - (0 to 5 MM MCF per day);
- TCI standard units come with stainless steel stack, live pilot ignition and back pressure regulator;
- Delivery, installation and set-up is cost plus;
- Pricing for high H<sub>2</sub>S wells is higher and is quoted on a per-job basis;
- Delivery of units is 3-4 weeks from receipt of purchase order.



# The future

- Continue to introduce our technology to industry;
- Expand our capacity in the area of well testing;
- Continue our research & development, particularly in the area of solutions to ground-level SO<sub>2</sub> dispersion;
- Seek alliances that will allow us to market our technology outside of Canada.





# Our mission

- Develop a continuous, long-term relationship with our customers;
- Be known for superiority in all aspects of customer satisfaction;
- Total cost-competitiveness and highly trained customer-oriented staff;
- SERVICE...SERVICE...SERVICE.

