

# COSSD PRODUCT CATALOGUE

for



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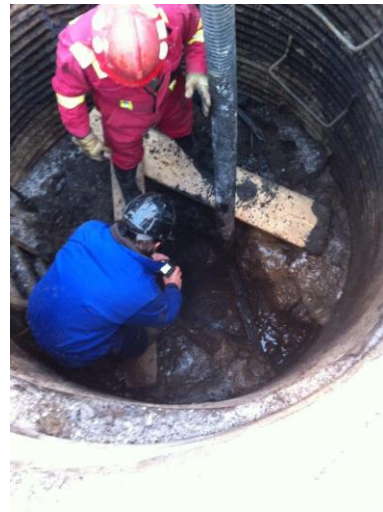


## OIL WELL HEAD ABANDONMENT

When ground disturbance and safety became an issue Aqua Laser was contacted to provide a solution that allowed for the abandonment process to proceed without a need for excavating the well head and requiring personnel to enter the excavation and cut the casing.

Through knowledge gained by thirty years' experience using abrasive water jet cutting in various applications, Aqua Laser developed a method by which an abrasive water jet cutting head could be inserted into the casing and the cutting process then would be performed by severing the casing and multiple strings at the required depth to satisfy the requirements set out by the AER. A board approved cap was then inserted into the production casing and the well was now ready for total reclamation.





**HEAT EXCHANGER  
CLEANING SYSTEMS  
UTILIZING 35,000 psi**

- Mechanically held rotating lance
- User friendly
- On-site training if required
- Custom design



## **ULTRA HIGH-PRESSURE WATER BLASTING**

*The use of waterjet as an industrial cutting and cleaning tool is an emerging technology. Our ultra high-pressure water blasting has a variety of industrial applications:*

**HEAT EXCHANGER  
CLEANING**

- 35,000 psi water jets clean heat exchangers with extremely hard deposits
- High velocity jets mounted on rotary tools quickly remove the toughest deposits





- Ensures a better rate of heat transfer thereby reducing plant energy consumption

### **COATING REMOVAL FROM PIPES AND TANKS**

- Complete coating removal without chemicals
- No damage to parent metal
- Allows for mag particle inspection



### **MOBILE ABRASIVE WATER JET CUTTING**

- Cold cutting of piping and tanks
- Effectively cuts through steel, alloy and refractory materials
- Vessel & tower cutting
- Tank venting
- Oil well abandonments



### **Company Profile:**

Aqua Laser was formed in 1985 with the intent of introducing new technology into the industrial cleaning industry. Our expectations were far exceeded and we soon became the leader in Ultra High pressure water jetting and abrasive water jet cutting. We now operate four Ultra High pressure units which are capable of 35,000 psi (240,000 kpa) for extended periods. These units are extremely reliable and we usually exceed our clients expectations in all areas such as job performance, employee knowledge, attitude and safety.

We have performed our cleaning and cutting tasks for most of the major Petro Chemical and Refining plants located in western Canada.

## **Heat Exchanger Cleaning:**

Our heat exchanger cleaning equipment is of our own design which was developed in 1985 for the Petro Chemical industry which had extremely hard deposits which fouled their heat exchanger tubes and where conventional cleaning methods were unsuccessful.

Our goal was to design a cleaning lance that did not require personnel to hold the lance and also incorporate a method to rotate the eater jets while maintaining the ability to regulate the rate at which the lance was inserted into the fouled tubes. The result was a method that was safe and effective.

## **Equipment:**

**4 Admac** (FLOW) Diesel driven Quad - intensifier pumps 35,000 (240,000) @ 5.6 us gpm

**2 NLB** 20250 Diesel driven Quinteplex pumps 20,000 psi @ 20 gpm

**4 Rotary Cleaning Lances** capable of cleaning exchangers 60' long in horizontal position or 40' long in the vertical position

**MULTIPLE** cutting tracks & guides for cutting tanks, vessels

## **Abrasive Water Jet Cutting:**

Our abrasive water jet cutting system is completely mobile and is used where the requirements are of a nature where flame cutting cannot be tolerated, such as stainless steel vessels and piping, refractory lined vessels and piping and also where the internal atmosphere may be explosive.

An abrasive water jet cutting is done from the outside of the tank or vessel, most jobs can take place before any vessel entry is required. Most jobs utilize a tracking system to hold the cutting head. This method allows for the cut to be made with some degree of accuracy which is beneficial if the piece that has been cut needs to be re-welded.