



SECONDARY RECOVERY-FLOODING

File No. 144

Section 3

OPERATION:

Flooding is the least expensive and simplest method of enhanced recovery. It makes use of the unwanted waste water which accompanies the oil pumped from the ground, eliminates expensive chemicals or steam heating processes and meets E.P.A. regulations for disposing of the waste water.

Oil is pumped from the ground to holding tanks for the settling of sediment and separation of the oil from the waste water. The waste water is then re-injected back into the ground to increase the well pressure and increase oil output.

Every site varies in flow and pressure required and the quality of waste water. Many sites have brackish and corrosive waste water requiring stainless steel construction. The CAT PUMP provides the flexibility and dependability for this harsh application.

PROBLEM:

Stimulate oil production once the natural well pressure is exhausted.

SOLUTION:

Use a high pressure CAT PUMP to inject water back down into the oil reservoir to force out additional oil.

SPECIFICATIONS:

CAT PUMPS Model	*6020
Pressure	800 PSI
Flow	50 GPM
Temperature	Ambient
Fluid	Waste Water
Duty Cycle	Continuous
Drive	15 H.P. Electric

*Alternate CAT PUMP models 1057 or 3737.

BENEFITS:

- High pressure injection is an inexpensive process using the waste water to stimulate new production.
- Eliminates dangerous and hazardous chemical reaction or expensive super heating process.
- Dependable, low maintenance CAT PUMP performance reduces downtime and operating costs.
- CAT PUMPS offer flexibility in pump size and construction.

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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