

# Stream Flood Water Filter

INDUSTRIAL FILTRATION | FILTER OIL FROM WATER | REMOVE OIL FROM WATER

## Aera Energy - Belridge

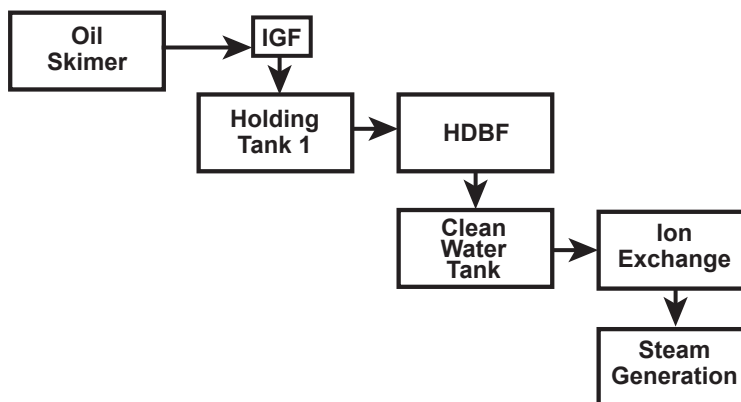
### PRODUCT USED:

**Deep Bed Walnut Shell Media Filter**



END USER:	Aera Energy
LOCATION:	McKittrick, California
UNITS:	(4) Model FDB-170P
FLOW RATE:	9,000 gpm / 310,000 BPD / 2,000 m3/hr
PROCESS:	Filtration of produced water for steam flood

### REMOVE OIL FROM WATER-PROCESS FLOW DIAGRAM



### MORE INFO

The Aera Belridge facility processes produced water from the steam flood. This water has to contain less than 1.0 ppm oil and less than 2.0 ppm suspended solids, prior to going to the steam generators.

The water flowing into the filtration units contains about 5.0 – 8.0 ppm oil and up to 10 ppm suspended solids, usually less than 1.0 micron in size.

The filters effectively remove oil from water to produce effluent water quality, consistently less than 1.0 ppm oil and 1.0 ppm suspended solids. Most times the oil concentration is undetectable. Each filter is in operation for 24 hours prior to backwashing, due to the low inlet concentrations.

Aera Energy previously utilized diatomaceous earth coated, rotary disc pressure filters and were able to replace these with the Deep Bed Filters shown above.

These filters have eliminated the consumable costs of the diatomaceous earth, along with eliminating a carcinogen hazard at the same time.

By the way, operations personnel were wary about whether a walnut shell filter would be able to replace the diatomaceous earth, but have since been convinced that the Deep Bed Filter is able to better filter oil from water to exceed the process water requirements.

These Deep Bed Filters minimized waste, increased production and saved Aera Energy money they have been able to use in other operations.

**We invite you to give us a call, 248-427-9090, to discover how your produced water can be easily and more efficiently filtered for reuse or disposal.**