

Pipeline Flushing and Filtering Campaign



Date:

June 2017

Location:

20 Locations across
the GOM
(See Table Blow)

CFAST Filtration

1231 Capritto Rd.
St. Martinville, LA
T:337.394.7070
F:337.394.7072

Pumping & Rentals

1231 Capritto Rd.
St. Martinville, LA
T:337.394.7070
F:337.394.7072

Challenge

RRT was called on to pump, pig, and treat the returning fluid from 20 pipelines as part of a large pipeline campaign. These 20 pipelines varied in size, length, and volumes making the need for our application to be particularly versatile. Also, the customer had limited deck space and requested a low amount of media consumption.

The goal was to significantly reduce the levels of total organic carbon, lead, oil and grease, and total suspended solids to be in compliance with the permitting regulations of the Department of Environmental Quality of Louisiana.

Action

- Mobilized our CFAST CORE (media-less) pipeline package along with two 500bbl tanks to minimize deck space.
- Set up so that we could separate out and store all hydrocarbons for customer resale.
- After receiving fluid straight from the pipelines, we would de-gas the fluids through our 115bbl tank and gas buster.
- Following the de-gassing, the fluid was then routed into our CFAST CORE unit for the bulk of our filtration and separation process.
- After the fluids were separated we then routed the fluid to one of our 200bbl tanks then discharged NPDES quality water overboard.
- Throughout the entire process our highly-qualified personnel would sample and run tests on the overboard fluid to ensure we were within regulation.

Results

- Treating and discharging the water overboard on site saved the customer the costs and liability that would have been associated with disposing of the water by other means such as trucking and disposal fees.
- Reduced nonproductive time by treating and discharging on site which resulted in speedier overall operating time.
- Ensured the discharged water was in compliance with all NPDES standards, limiting the long-term liability and association with the waste, avoiding fines and negative public opinion.
- In using the CFAST CORE unit we eliminated the cost and inconvenience of exhausted media, saving both money and deck space.
- Daily testing reports by our operators gave us and the customer real time data on the operation. This data included flow rates, oil and grease concentrations, IR tests, sheen tests, total fluid overboard, and total hydrocarbons collected.
- Over the life of the project we filtered an estimated 45,000bbbls with no wasted media byproducts.

LOCATION	SEGMENT #	INFO	VOLUME (bbbls)	WD (ft)
BS 41 B	15213	RE-FLUSH ABN	FLUSHED	35
EC 172 A	11730	FLUSH TO PLATFORM	500	72
EI 053 B	9211	PIG PIPELINE	665	23
EI 120 14	11601	FLUSH TO PLATFORM	FLUSHED	40
EI 158 B	18614	RE-FLUSH ABN	FLUSHED	100
EI 175 C-PRD	18832	RE-FLUSH ABN	FLUSHED	83
EI 281 A	9289	FLUSH TO PLATFORM	1,296	210
EI 281 A	1127	GEL PIG PIPELINE	4,990	220
EI 254 A	11339	PIG PIPELINE	160	138
HI 116 A	18789	FLUSH TO PLATFORM	5856	45
HI 120 AP	18240	RE-FLUSH ABN	FLUSHED	50
HI 130 C	16077	PIG PIPELINE	126	50
HI 167 AP	8378	RE-FLUSH ABN	FLUSHED	57
HI A446 A	5844	PIG PIPELINE	10,835	165
MP 112 2	9006	FLUSH	1,251	60
MP 116 A	8372	FLUSH	677	60
MP 116 B	8373	FLUSH	677	69
VR 60 A	4789	FLUSH TO PLATFORM	354	45
WC 130 B	18228	PIG PIPELINE	1,095	46
WC 314 A	8020	PIG PIPELINE	585	62

NOTE: ALL FLUID WAS RETURNED AND FILTERED THROUGH OUR CFAST CORE FILTRATION SYSTEM