CRUDE OIL REFERENCES

PROSALT™ MIXER

MIXING OF CRUDE & WASH WATER

LOCATION: NORWEGIAN SEA
EQUIPMENT: 14” ProSalt mixer
APPLICATION: Installed in parallel to a conventional globe mixing valve upstream of the 1st-stage desalter
PROCESS CONDITIONS:
CRUDE API: 37
CRUDE OIL FLOW RATE: 2.20 m lbm/hr
PERFORMANCE:
PRESSURE DROP: 3-12 psi
SALT SPEC: Typically below 2 mg/l; 0.70 ptb
BS&W SPEC: (0.10 – 0.15 vol %)

PROSALT™ MIXER

OPTIMIZATION OF CRUDE DESALTING

LOCATION: MIDDLE EAST
EQUIPMENT: 2 X 12” ProSalt Mixers
APPLICATION: Optimization of crude desalting
FACILITY: 120 MBOPD early production facility
FLOW RATE: 21,000 - 70,000 BWPD

FWKO & THERMAL TREATER

OIL SANDS

LOCATION: CANADA
EQUIPMENT: 3 x 15 ft S/S FWKO and 6 x 14 ft S/S mechanical treaters
APPLICATION: Bulk water oil removal and dehydration
FWKO/TREATER PER UNIT:
FEED OIL FLOW RATE: 72,557/36,440 BOPD
FEED WATER FLOW RATE: 99,326/3796 BOPD
API: 17

DEHYDRATOR & DESALTER

EARLY PRODUCTION FACILITY

LOCATION: MIDDLE EAST
EQUIPMENT: LP separator, electrostatic dehydrator and desalter
APPLICATION: Liquid stabilization, bulk water removal, oil dehydration and desalting
API: 28 - 32
PERFORMANCE:
BS&W %: 0.1
OIW OUTLET: < 100 PPM

THERMAL TREATER

FPSO

LOCATION: OFFSHORE BRAZIL
EQUIPMENT: Two phase double ended mechanical electrostatic treaters 6 sand removal system
APPLICATION: Gas stabilization, bulk water removal and oil dehydration
15.2 API, 61,741 BOPD, 13,737 BWPD
19.1 API, 108,386 BOPD, 24,159 BWPD

DESALTER

REFINERY PROJECT

LOCATION: ALABAMA, USA
EQUIPMENT: Two phase mechanical electrostatic desalter skid mounted unit
APPLICATION: Oil dehydration and desalting
PERFORMANCE:
BS&W %: 0.2
OIW OUTLET: < 200 PPM

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