Crude Oil Stabilization and Recovery
November 13, 2017

Marathon
Composite Sample

INPUT

Crude Oil Flow, bbls/day	2500
Uncontrolled Heater Treater T, F	100
Heater Treater T, F	130
Heater Treater P, psig	30
COSR Compressor P, psig	150
Ambient Temperature, F	50
Natural Gas Price, $/MM BTU	$ 3.50
Oil Cooler Outlet T, F	100
VRT Vent Cooler Outlet T, F	70
VRU Cooler Outlet T, F	70

COMPRESSOR

Compressor Super Heat, F	93.92	
Volume Index	7.55	
Horsepower	34.98	
Temperature in/out, F	72	266
Pressure in/out, psig	2.0	150.0

COOLER

	Q, BTU/H	Approach T, F
Oil Cooler Outlet	279,156	50
Vent Cooler	37,525	20
VRU Cooler	225,690	20

RECOVERY AND VAPOR PRESSURE

	RVP	BBL/DAY
Feed	26.1	2,500
Gasoline	150.4	104
Oil	9.1	2,350

Fuel Gas, MSCFD	77.9
Oil Tank Vent, Tons/Year	0.0
Recovered Value, $/Month	$ 214,879