



HOLLYFRONTIER®

HollyFrontier
Corporation

Woods Cross Refinery
Expansion

SEPTEMBER 2015

Woods Cross Expansion Plot Plan



Woods Cross Expansion Project Scope



- **Expand crude capacity from 30,000 to 45,000 BPD**
- **Includes installation of a new crude unit, FCC and relocation of a polymerization unit from Bloomfield, NM refinery**
- **Crude slate to include up to 25,000 BPD local Uinta Basin Black Wax**

Woods Cross Expansion Design Flexibility

\$20-30 MM investment to increase crude flexibility

CRUDE FARM FLEXIBILITY

- Piping to allow delivery of more crude via pipeline

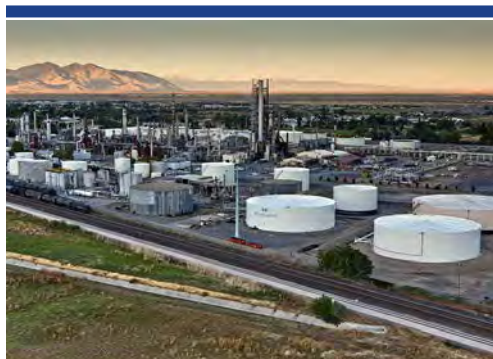
CRUDE TOWER FLEXIBILITY

- Piping to allow more naphtha and distillate production

GAS OIL HYDROCRACKER

- Allows additional distillates to be hydrotreated
- Increased distillate production capacity

Woods Cross Expansion Volumetrics



MAJOR PROCESS UNITS

Unit	Current (KBD)	Post Expansion (KBD)
Crude	30	45
FCC	9	18
Alky/Poly	3	6
GHC	7	15
DHT	9	10

CRUDE SLATE (KBPD)

Crude	Current	Original Design	Design Flexibility
Sweet	15-20	15-20	15-35
Wax/Heavy Sour	10-15	25-30	10-30
Total	30	45	45

PRODUCTION (KBPD)

	Current	Original Design	Design Flexibility
Gasoline	19	28	26
Diesel	11	14	17
Total	30	42	43

Woods Cross Expansion Summary



Mechanical Completion

4Q 2015

Expansion Start up

Year End 2015

Cost (including new
design flexibility)

\$420-430 MM

Additional Scope
Completion

1Q 2016



HOLLYFRONTIER®