

## ANR Pipeline Company

### Cost Estimates for Guardian Expansion Options

Case	Delivery Meter Volume (MMscfd)		Facilities Required			Cost Estimate
	Ixonia	Fox Valley	Horsepower	Pipe	Gas Cooler	
1	600	N/A	2 – Mars 100 1 – Taurus 70	42", 88 miles	8 bays	\$456 MM
2	1,200	N/A	3 – Titan 130 1 – Mars 100 1 – Taurus 60	42", 123 miles	16 bays	\$686 MM
3	600	600	4 – Titan 130 1 – Mars 100 2 – Taurus 70 1 – Centaur 50	42", 123 miles 36", 23 miles	22 bays	\$847 MM

ANR performed a facility review to determine the facilities needed to expand the Guardian system into Wisconsin. Additional facilities would raise these cost estimates (yard pipe, meter stations, river crossings, mainline valves, etc).