

MEMBRANE REFERENCE LIST – PROSEP

DATE	CUSTOMER	JOB NO.	APPLICATION	MEMBRANE TYPE	LOCATION	FEED GAS			PRODUCT SPECIFICATION
						FLOW (MMSCFD)	COMPOSITION	PRESSURE	
12/22/05	XTO Energy	0510	CO ₂	CA	West Texas	2.5-5.0	54.88% CO ₂	580 psig	< 6.0% CO ₂
5/10/06	Whiting Petroleum	0616	CO ₂	CA	West Texas	3.0-6.0	30% CO ₂	800 psig	<3.0% CO ₂
5/17/06	Whiting Petroleum	0620	CO ₂	CA	West Texas	45.0	94.0% CO ₂ 2000 ppm H ₂ S	394-540 psia	< 10.0% CO ₂ <150 ppm H ₂ S
8/18/06	Opex Energy	0623	CO ₂	CA	West Texas	1-1.5	4.00% CO ₂	800 psia	< 2.0% CO ₂
10/09/06	Kinder Morgan	0631	CO ₂	CA	West Texas	220	88.174% CO ₂	414-589 psia	< 10.0% CO ₂
11/28/06	CNX Gas (Greenhill, Marshall, and Fallowfield)	0636, 0637 0638, 0639 0640, 0641	CO ₂	CA	Pennsylvania	10.0-15.0	10.00% CO ₂	1020 psia	<1.25% CO ₂
4/02/07	Texican Oil Ltd.	0715	CO ₂ , H ₂ S, H ₂ O	CA	Colombia	6.25	6.94% CO ₂ 0.024% H ₂ S H ₂ O saturated	450 psia	<2.0% CO ₂ < 4 ppm H ₂ S < 7 lbs. H ₂ O / MMSCF
10/12/07	XTO Energy	0739	CO ₂	CA	West Texas	26.70	75.70 CO ₂	565 psia	< 25.0% CO ₂
11/29/07	Pan American Energy	0745	CO ₂	CA	Argentina	1.10	20.00 CO ₂	77 kg / cm ²	< 2.0% CO ₂
4/24/08	Occidental of Elk Hills	0847	CO ₂	CA	California	150	3.0% CO ₂	900 psia	< 1.5% CO ₂
4/24/08	Hudson Hope Gas	0848	CO ₂	CA	BC, Canada	4.0	16.0% CO ₂	1015 psia	< 2.0% CO ₂
10/15/08	PDVSA Bitor	0853	CO ₂	CA	Venezuela	20.0	12.5% CO ₂	600 psia	< 6.5% CO ₂