

OPEN MARKET SALE

November-2003

Total volume for this sale 2,100,000.00 mcf
 percent to allocated sale 90.0%
 percent to nonallocated sale 10.0%

all volumes in Mcf
Green shaded cells are input cells

Allocated Sale		Installed refining cap	Refiner bid Volume	Allocated Volume	Excess vol requested	Excess vol Available	Proration % Round 1	Excess allocn rd 1	Excess vol rem rd 2	Proration % Round 2	Excess allocn rd 2	Total Allocated	Carry over to Non-allocated Sale
Bidder - Allocated Sale													
Nathaniel Energy (Keyes)	4.0%	75,600.0	75,600.0	-	-	0.00%	-	-	0.00%	-	-	75,600.0	0.0
BOC (Otis)	26.0%	550,000.0	491,400.0	58,600.0	-	100.00%	58,600.0	-	0.00%	-	-	550,000.0	0.0
Prax (Bushton, Ulysses)	34.0%		642,600.0	(642,600.0)	642,600.0	0.00%	-	-	0.00%	-	-	0.0	0.0
APCI (Liberal, Guymon)	36.0%		680,400.0	(680,400.0)	680,400.0	0.00%	-	-	0.00%	-	-	0.0	0.0
	0.0%		-	-	-	0.00%	-	-	0.00%	-	-	0.0	0.0
Total	100.0%	625,600.0	1,890,000.0	58,600.0	58,600.0	100.00%	58,600.0	-	0.00%	-	-	625,600.0	0.0

Total Allocated sale volume: 1,890,000 Mcf excess to be carried over to nonallocated sale 1,264,400.0

NonAllocated Sale

NonAllocated Sale		Prorated percentage	Bid/carryover volume	Allocated Volume	Excess vol requested	Excess vol Available	Proration % Round 1	Excess allocn rd 1	Proration % Round 2	Excess allocn rd 2	Total Allocated
Nathaniel Energy (Keyes)	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
BOC (Otis)	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
Prax (Bushton, Ulysses)	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
APCI (Liberal, Guymon)	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
AGA Linde	1 100.0%	50,000.0	1,474,400.0	(1,424,400.0)	1,424,400.0	0.00%	-	-	0.00%	-	50,000.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
	0.0%	-	-	-	-	-	0.00%	-	0.00%	-	0.0
number of bidders	1 100.0%	50,000.0	1,474,400.0	-	-	-	-	-	-	-	50,000.0

Total nonallocated sale volume including carryover amount 1,474,400 mcf

allocation calculations									
	rd 1 pct					rd 2 pct			
Refiner A	4.0%	75,600.0	75,600.0	-	0.0%	0.00%	-	0.0%	0.00%
Refiner B	26.0%	550,000.0	491,400.0	1.0	26.0%	100.00%	-	0.0%	0.00%
Refiner C	34.0%	-	642,600.0	-	0.0%	0.00%	-	0.0%	0.00%
Refiner D	36.0%	-	680,400.0	-	0.0%	0.00%	-	0.0%	0.00%
Refiner E	0.0%	-	-	-	0.0%	0.00%	-	0.0%	0.00%
					26.0%	100.00%		0.0%	0.00%

	yr 2000 plant capacities, Mcf/d	total	pct	MMcft/yr			
Nathaniel Energy (Keyes)	480.0	480.0	4.0%	168.00			
BOC (Otis)	3,120.0	3,120.0	26.0%	1,092.00			
Prax (Bushton, Ulysses)	1,032.0	3,048.0	34.0%	361.20	1,066.80	1,428.0	
APCI (Liberal, Guymon)	3,048.0	1,272.0	36.0%	1,066.80	445.20	1,512.0	
		12,000.0	100.0%				

all volumes in Mcf

Total volume offered		2,100,000
volume offered at allocated sale	90%	1,890,000
volume offered at nonallocated sale	10%	210,000

Allocated Sale

number of bidders	vol avail	vol bid	vol sold	volume oversubscribed	volume undersubscribed
2	1,890,000	625,600.0	625,600.0	0	1,264,400.0

Non-allocated Sale

vol avail, inc. carryover	vol bid	vol sold	number of bidders	number of refiners
1,474,400.0	50,000.0	50,000.0		0
				1

total sold 675,600.0

**Amt to carryover
to next year** 1,424,400.0