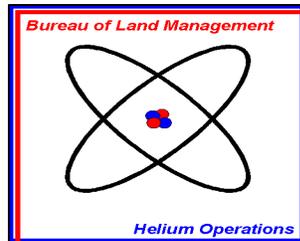


# Bureau of Land Management

Amarillo Field Office  
Helium Operations



Statistical Report  
for  
December - 2002



## Distribution:

Fluid Minerals Group Manager, Washington Office  
New Mexico State Director  
Associate State Director  
Petroleum Engineer  
Field Manager, Amarillo Field Office  
Division Chiefs (3)  
Team Leaders  
-Federal Leased Lands  
-Gas Analysis  
-Resources Evaluation  
-Natural Gas Engineering

## List of Tables

Table 1 - Summary of Helium Operations  
\* **Table 2 - Helium Sales**  
\* **Table 3 - Helium Resources Evaluation**  
\* **Table 4 - Federal Acquisition & Storage Operations**  
\* **Table 4.1 - Helium Storage Contract Activity**  
Table 5 - Pipeline & Cliffside Field Operations

Amarillo, Texas

Issued: February 28, 2003

\* *Revised* \*

\*Tables include COMPANY PROPRIETARY INFORMATION (shaded) and is for internal use only.  
This information shall not be released unless express permission is authorized.

Approved for distribution: Nelson R. Bullard /s/

Date: 11/27/2002

**Table 1 - Summary of Helium Operations**

**December - 2002**

<b>In Kind Sales</b>	<b>NASA*</b>	<b>Navy*</b>	<b>Army*</b>	<b>Air Force*</b>	<b>DOE*</b>	<b>Other Fed*</b>	<b>Subtotal*</b>	<b>In Kind</b>	<b>Charges Billed (\$)**</b>
Total month	26,808	(7,719)	0	8,207	4,172	11,272	42,740	42,080	\$2,166,796
Total FYTD	26,808	(7,719)	0	8,207	4,172	11,272	42,740	42,080	\$2,166,796
Total CYTD	114,171	(4,114)	0	27,162	20,813	33,527	191,559	188,594	\$9,713,826

<b>In Kind Transfers</b>	<b>Month</b>	<b>FYTD</b>	<b>CYTD</b>	<b>Cumulative</b>
Transferred	13,713	81,754	224,832	1,007,086
Volume outstanding	42,080			

<b>Purchased Helium</b>	<b>Helium-Gas Mixture</b>	<b>Month Helium Percent</b>	<b>Helium</b>	<b>Month Low Purity Helium</b>	<b>FYTD</b>	<b>Month Below 50% Helium</b>	<b>FYTD</b>	<b>FYTD</b>	<b>CYTD Contained Helium</b>	<b>Cumulative</b>
Total purchased										32,176,145
Purchased helium produced / transferred			13,713					81,754	224,832	2,992,426
Balance of purchased helium in storage										29,183,719
<b>Private Plant Activity</b>										
Accepted in storage system	80,842	67.06%	54,215	2,799	6,309	(181)	(635)	151,132	591,669	7,309,308
Redelivered from storage system	(222,751)	68.16%	(151,825)	0	0	17	21	(494,853)	(1,997,256)	(10,150,908)
Total apparent crude produced^	226,610	71.99%	163,130					480,666	1,654,018	NA
Total apparent crude refined^	(317,647)	70.21%	(223,025)					(712,355)	(2,652,684)	NA

<b>Storage Contract Activity</b>	<b>Metered Gas</b>					<b>Transferred Gas</b>		<b>Stored Helium</b>	<b>Charges Billed Dollars**</b>	
	<b>Gross Gas</b>	<b>Helium</b>	<b>Helium</b>	<b>Helium</b>	<b>Cumulative</b>	<b>Month</b>	<b>Cumulative</b>	<b>EOM</b>	<b>Month</b>	<b>FYTD</b>
	<b>Month</b>	<b>FYTD</b>	<b>CYTD</b>	<b>Cumulative</b>	<b>Month</b>	<b>Cumulative</b>	<b>EOM</b>	<b>Month</b>	<b>FYTD</b>	
Crude Acquired	80,460	54,034	150,497	589,097	24,683,718	265,522	25,173,552			
Crude Disposed	222,719	151,808	494,832	1,997,115	21,976,516	251,809	24,166,197			
Grade-A Rdlvrd	0	0	0	0	1,427,554	0	0			
Net/Balance	(142,259)	(97,774)	(344,335)	(1,408,018)	1,279,648	13,713	1,007,355	1,593,157	\$10,172	\$374,836

<b>Bush Dome Reservoir Operations</b>	<b>Month</b>		<b>Fiscal Year</b>		<b>Since Start of Conservation Program</b>		<b>Since Field Discovery</b>	
	<b>Gross</b>	<b>Net</b>	<b>Gross</b>	<b>Net</b>	<b>Gross</b>	<b>Net</b>	<b>Gross</b>	<b>Net</b>
	<b>Conservation gases from all sources</b>							
In underground storage, beg. of period	42,812,557	30,851,277	43,146,344	31,097,065	490,620	490,620	0	0
Net Activity	(131,216)	(97,380)	(465,003)	(343,168)	42,190,721	30,263,277	42,681,341	30,753,897
Total in underground storage	42,681,341	30,753,897	42,681,341	30,753,897	42,681,341	30,753,897	42,681,341	30,753,897

<b>Native Gas</b>	<b>Month</b>	<b>Fiscal Year</b>	<b>Since Start of Conservation Program</b>	<b>Since Field Discovery</b>
Total in place, beg. of period	208,691,195	208,721,080	265,724,755	318,727,000
Net Activity	(12,882)			
Total in place, end of month	208,678,313			

<b>Native Gas plus Conservation Gases</b>	<b>Month</b>	<b>Fiscal Year</b>	<b>Since Start of Conservation Program</b>	<b>Since Field Discovery</b>
Total gases in place, beg. of period	251,503,752	251,867,424	266,215,375	318,727,000
Net Activity	(144,098)	(507,770)	(14,855,721)	(67,367,346)
Total gases in place, end of month	251,359,654	251,359,654	251,359,654	251,359,654

<b>Helium Resources Evaluation</b>	<b>Month</b>	<b>FYTD</b>
Revenue Collected from Federal Lease Holds	\$328,613	\$877,557
Helium Sample Collection Report	<b>Submitted</b> 7	<b>Received</b> 0
Estimated U.S. Helium Reserves	323,000,000	<b>Analyzed</b> 148

<b>Customer Comment Cards Mailed</b>	<b>Month</b>	<b>FYTD</b>
	0	0

\* Volumes in Mcf at 14.7 psia & 70°F; all other volumes in 14.65 psia & 60°F

\*\*Rounded to nearest dollar

^ Other sources of helium are accessed but data are not available

**Table 5 - Pipeline & Cliffside Field Operations**  
**All Volumes in Mcf at 14.65 psia & 60°F**

**December - 2002**

	1	2	3	4	5	6	7	8
	Month		Fiscal Year		Since Start of Conservation Program		Since Field Discovery	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<b>Conservation Pipeline</b>								
Beginning of period inventory (1)	47,787	33,451	48,936	34,255	0	0		
Measured to pipeline (2)	222,130	152,625	720,853	495,722	108,711,648	77,694,246		
Measured from pipeline (3)	222,751	151,826	725,707	494,856	43,057,206	30,733,581		
Measured into Bush Dome (4)	1,217	871	1,217	871	64,354,801	46,235,883		
Calculated inventory (1+2-3-4)	45,949	33,379	42,865	34,250	1,299,641	724,782		
End of period inventory	47,934	33,554	47,934	33,554	47,934	33,554		
Line gain or (loss)	1,985	175	5,069	(696)	(1,251,707)	(691,228)		
Percent gain (loss) of total measured	0.445%	0.057%	0.350%	-0.070%	-0.579%	-0.447%		
<b>Bush Dome Reservoir Operations</b>								
<b>Conservation gases from all sources</b>								
In underground storage, beg. of period	42,812,557	30,851,277	43,146,344	31,097,065	490,620	490,620	0	0
Injected during period to date	1,217	871	1,217	871	64,355,072	46,235,844	64,962,972	46,843,744
Withdrawn during period to date	132,433	98,251	466,220	344,039	22,210,500	16,018,716	22,327,780	16,135,996
Helium from Exell-Soncy	0	0	0	0	46,149	46,149	46,149	46,149
Total in underground storage	42,681,341	30,753,897	42,681,341	30,753,897	42,681,341	30,753,897	42,681,341	30,753,897
<b>Native Gas</b>								
Total in place, beg. of period	208,691,195		208,721,080		265,724,755		318,727,000	
Recoverable in place, beg. of period	199,640,195		199,670,080		256,673,755		309,676,000	
Production during period to date	12,882		42,767		57,046,442		110,048,687	
Total in place, end of month	208,678,313		208,678,313		208,678,313		208,678,313	
Recoverable in place, end of month	199,627,313		199,627,313		199,627,313		199,627,313	
<b>Native Gas plus Conservation Gases</b>								
Total gases in place, beg. of period	251,503,752		251,867,424		266,215,375		318,727,000	
Total gases in place, end of month	251,359,654		251,359,654		251,359,654		251,359,654	
Change during period	(144,098)		(507,770)		(14,855,721)		(67,367,346)	
<b>Ave. reservoir pressure, beg. of period</b>								
	660.0		661.0		685.0		814.1	
<b>Tuck Trigg Reservoir Operations</b>								
<b>Native Gas</b>								
Total in place, beg. of period	5,204,461		5,204,461				5,890,000	
Recoverable in place, beg. of period	4,534,461		4,534,461				5,220,000	
Production during period to date	0		0				685,539	
Total in place, end of month	5,204,461		5,204,461				5,204,461	
Recoverable in place, end of month	4,534,461		4,534,461				4,534,461	
<b>Ave. reservoir pressure, beg. of period</b>								
	484.2		484.2				548.0	
<b>Natural Gas Sales</b>								
<b>Compressor Operation</b>								
			<b>Totals</b>		<b>Cumulative</b>			
			<b>Month</b>	<b>FYTD</b>	<b>12/01/2000</b>			
December - 2002 NGI Mainline Spot Gas Fuel Price	per/MMBTU		\$4.07	\$3.87	\$3.43			
Amount of Fuel used for the month	total MMBTU		2,681.31	8,877.58	68,649.64			
Natural Gas Purchased for Fuel	\$dollars		\$10,912.93	\$34,384.72	\$235,809.61			
#1 Compressor	hours run		407	797	11,746			
#2 Compressor	hours run		261	972	3,221			
#3 Compressor	hours run		92	271	1,479			