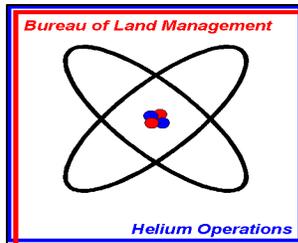


# Bureau of Land Management

## Amarillo Field Office Helium Operations

Statistical Report  
for  
December - 2001



### 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

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Amarillo, Texas

Issued: April 10, 2002

*\* Revised \**

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Approved for distribution: Nelson R. Bullard /s/

Date: 02/26/2002

**Table 1 - Summary of Helium Operations**

**December - 2001**

<b>In Kind Sales</b>	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind	Charges Billed (\$)**
Total month	51,397	467	0	9,224	10,219	8,243	79,551	78,318	\$3,905,993
Total FYTD	51,397	467	0	9,224	10,219	8,243	79,551	78,318	\$3,905,993
Total CYTD	170,311	10,691	0	30,436	38,695	22,208	272,341	268,122	\$13,395,480

<b>In Kind Transfers</b>	Month	FYTD	CYTD	Cumulative
Transferred	36,041	63,764	249,007	782,254
Volume outstanding	78,318			

<b>Purchased Helium</b>	Helium-Gas Mixture	Month Helium Percent	Helium	Month Low Purity Helium	FYTD	Month Below 50% Helium	FYTD	FYTD	CYTD Contained Helium	Cumulative
	Total purchased									
Purchased helium produced / transferred			36,041					63,764	249,007	2,767,594
Balance of purchased helium in storage										29,408,551
<b>Private Plant Activity</b>										
Accepted in storage system	99,926	69.05%	68,998	680	2,198	(129)	(349)	181,760	639,831	6,717,639
Redelivered from storage system	(204,908)	68.82%	(141,010)	0	0	11	96	(520,349)	(2,233,614)	(8,153,652)
Total apparent crude produced^	197,157	70.21%	138,424					408,854	1,528,608	NA
Total apparent crude refined^	(267,301)	69.77%	(186,500)					(653,238)	(2,722,442)	NA

<b>Storage Contract Activity</b>	<b>Metered Gas</b>					<b>Transferred Gas</b>		<b>Stored Helium</b>	<b>Charges Billed Dollars**</b>	
	Gross Gas	Helium	Helium	Helium	Cumulative	Month Helium	Cumulative	EOM	Month	FYTD
	Month		FYTD	CYTD						
Crude Acquired	99,441	68,869	181,411	637,781	24,094,621	74,924	24,021,627			
Crude Disposed	204,906	140,999	520,253	2,233,374	19,979,401	38,883	23,239,104			
Grade-A Rdlvrd	0	0	0	0	1,427,554	0	0			
Net/Balance	(105,465)	(72,130)	(338,842)	(1,595,593)	2,687,666	36,041	782,523	2,776,343	\$13,964	\$399,495

<b>Bush Dome Reservoir Operations</b>	Month		Fiscal Year		Since Start of Conservation Program		Since Field Discovery	
<b>Conservation gases from all sources</b>	Gross	Net	Gross	Net	Gross	Net	Gross	Net
In underground storage, beg. of period	44,705,730	32,241,623	45,066,384	32,502,687	490,620	490,620	0	0
Net Activity	(115,170)	(83,959)	(475,824)	(345,023)	44,099,940	31,667,044	44,590,560	32,157,664
Total in underground storage	44,590,560	32,157,664	44,590,560	32,157,664	44,590,560	32,157,664	44,590,560	32,157,664

<b>Native Gas</b>	Month	Fiscal Year	Since Start of Conservation Program	Since Field Discovery
	Gross	Net	Gross	Net
Total in place, beg. of period	208,845,942		208,866,427	265,724,755
Net Activity	(7,252)			
Total in place, end of month	208,838,690			318,727,000

<b>Native Gas plus Conservation Gases</b>	Month	Fiscal Year	Since Start of Conservation Program	Since Field Discovery
	Gross	Net	Gross	Net
Total gases in place, beg. of period	253,551,672		253,932,811	266,215,375
Net Activity	(122,422)		(503,561)	(12,786,125)
Total gases in place, end of month	253,429,250		253,429,250	253,429,250

<b>Helium Resources Evaluation</b>	Month	FYTD
Revenue Collected from Federal Lease Holds	\$439,005	\$1,191,546
Helium Sample Collection Report	Submitted 0	Received 0 Analyzed 0
Estimated U.S. Helium Reserves	323,000,000	

<b>Customer Comment Cards Mailed</b>	Month	FYTD
	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 - 2001**

	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	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<b>Conservation Pipeline</b>																
Beginning of period inventory (1)	39,987	27,991	39,161	27,413	0	0										
Measured to pipeline (2)	219,183	153,031	757,200	527,089	105,817,179	75,695,916										
Measured from pipeline (3)	204,908	141,011	750,909	520,352	40,141,743	28,736,313										
Measured into Bush Dome (4)	0	0	0	0	64,353,584	46,235,012										
Calculated inventory (1+2-3-4)	54,262	40,011	45,452	34,150	1,321,852	724,591										
End of period inventory	41,382	28,967	41,382	28,967	41,382	28,967										
Line gain or (loss)	(12,879)	(11,043)	(4,070)	(5,182)	(1,280,470)	(695,624)										
Percent gain (loss) of total measured	-3.037%	-3.756%	-0.270%	-0.495%	-0.609%	-0.462%										

**Bush Dome Reservoir Operations**

**Conservation gases from all sources**

In underground storage, beg. of period	44,705,730	32,241,623	45,066,384	32,502,687	490,620	490,620	0	0
Injected during period to date	0	0	0	0	64,353,855	46,234,973	64,961,755	46,842,873
Withdrawn during period to date	115,170	83,959	475,824	345,023	20,300,064	14,614,078	20,417,344	14,731,358
Helium from Exell-Soncy	0	0	0	0	46,149	46,149	46,149	46,149
Total in underground storage	44,590,560	32,157,664	44,590,560	32,157,664	44,590,560	32,157,664	44,590,560	32,157,664

**Native Gas**

Total in place, beg. of period	208,845,942	208,866,427	265,724,755	318,727,000
Recoverable in place, beg. of period	199,794,942	199,815,427	256,673,755	309,676,000
Production during period to date	7,252	27,737	56,886,065	109,888,310
Total in place, end of month	208,838,690	208,838,690	208,838,690	208,838,690
Recoverable in place, end of month	199,787,690	199,787,690	199,787,690	199,787,690

**Native Gas plus Conservation Gases**

Total gases in place, beg. of period	253,551,672	253,932,811	266,215,375	318,727,000
Total gases in place, end of month	253,429,250	253,429,250	253,429,250	253,429,250
Change during period	(122,422)	(503,561)	(12,786,125)	(65,297,750)

Ave. reservoir pressure, beg. of period	665.1	666.3	685.0	814.1
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**Tuck Trigg Reservoir Operations**

**Native Gas**

Total in place, beg. of period	5,206,471	5,206,471	5,890,000
Recoverable in place, beg. of period	4,536,471	4,536,471	5,220,000
Production during period to date	0	0	683,529
Total in place, end of month	5,206,471	5,206,471	5,206,471
Recoverable in place, end of month	4,536,471	4,536,471	4,536,471

Ave. reservoir pressure, beg. of period	484.4	484.4	548.0
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**Natural Gas Sales**

**Compressor Operation**

		Totals		Revenue \$		Cumulative 12/01/2000
		Month	FYTD	Month	FYTD	
December - 2001	NGI Mainline Spot Gas Fuel Price	per/MMBTU	\$2.19	----	----	----
	Amount of Fuel used for the month	total MMBTU	2,293.32	8,443.65	----	34,357.48
	Natural Gas Purchased for Fuel	\$dollars	----	----	\$5,022.37	\$18,924.64
	Tuck Trigg Gas Produced	(Mcf)	0	0	----	0
	Fuqua A-1 Gas Produced	(Mcf)	0	0	----	30,195
	#1 Compressor	hours run	358	1,642	----	7,632
	#2 Compressor	hours run	131	282	----	282
	#3 Compressor	hours run	186	210	----	210