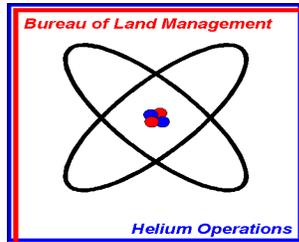


# Bureau of Land Management

## Amarillo Field Office Helium Operations



### Statistical Report for October - 1999



#### 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: September 27, 2000

\* *Revised* \*

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Approved for distribution: Nelson R. Bullard /s/

Date: 09/26/2000

**Table 1 - Summary of Helium Operations**

**October - 1999**

<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	0	0	0	0	0	0	0	0	\$0
Total FYTD	0	0	0	0	0	0	0	0	\$0
Total CYTD	99,175	2,462	0	29,654	28,179	9,706	169,176	166,555	\$8,152,511

<b>In Kind Transfers</b>	<b>Month</b>	<b>FYTD</b>	<b>CYTD</b>	<b>Cumulative</b>
Transferred	0	0	160,755	245,588
Volume outstanding	56,930			

	<b>Helium-Gas Mixture</b>	<b>Month Helium Percent</b>	<b>Month 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>
<b>Purchased Helium</b>										
Total purchased										32,176,145
Purchased helium produced / transferred			0					0	160,755	2,230,928
Balance of purchased helium in storage										29,945,217
<b>Private Plant Activity</b>										
Accepted in storage system	113,535	69.79%	79,241	5,350	5,350	(683)	(683)	79,241	978,133	5,091,396
Redelivered from storage system	(169,586)	68.33%	(115,871)	0	0	1,526	1,526	(115,871)	(1,035,069)	(3,866,075)
Total apparent crude produced^	269,693	71.31%	192,316					192,316	1,909,278	NA
Total apparent crude refined^	(271,686)	69.78%	(189,581)					(189,581)	(1,609,582)	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>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>				
Crude Acquired	111,919	78,558	78,558	974,653	22,472,743	63,315	22,098,692			
Crude Disposed	168,663	114,345	114,345	1,032,396	15,692,403	63,315	21,852,835			
Grade-A Rdlvrd	0	0	0	0	1,427,554	0	0			
Net/Balance	(56,744)	(35,787)	(35,787)	(57,743)	5,352,786	0	245,857	4,904,797	\$356,000	\$356,000

<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>Conservation gases from all sources</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>
In underground storage, beg. of period	48,270,503	34,836,504	48,270,503	34,836,504	490,620	490,620	0	0
Net Activity	(51,696)	(38,250)	(51,696)	(38,250)	47,728,187	34,307,634	48,218,807	34,798,254
Total in underground storage	48,218,807	34,798,254	48,218,807	34,798,254	48,218,807	34,798,254	48,218,807	34,798,254

<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	209,039,114	209,039,114	265,724,755	318,727,000
Net Activity	(3,782)			
Total in place, end of month	209,035,332			

<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	257,309,617	257,309,617	266,215,375	318,727,000
Net Activity	(55,478)	(55,478)	(8,961,236)	(61,472,861)
Total gases in place, end of month	257,254,139	257,254,139	257,254,139	257,254,139

<b>Helium Resources Evaluation</b>	<b>Month</b>	<b>FYTD</b>
Revenue Collected from Federal Lease Holds	\$303,706	\$303,706
Helium Sample Collection Report	<b>Submitted</b> 24	<b>Received</b> 0 <b>Analyzed</b> 121

<b>Customer Comment Cards Mailed</b>	<b>Month</b>	<b>FYTD</b>
	17	17

\* 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**

**October - 1999**

	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)	18,919	13,243	18,919	13,243	0	0										
Measured to pipeline (2)	169,013	117,559	169,013	117,559	99,676,319	71,424,916										
Measured from pipeline (3)	169,586	115,872	169,586	115,872	33,941,848	24,448,710										
Measured into Bush Dome (4)	0	0	0	0	64,351,432	46,233,500										
Calculated inventory (1+2-3-4)	18,346	14,930	18,346	14,930	1,383,039	742,706										
End of period inventory	18,767	13,137	18,767	13,137	18,767	13,137										
Line gain or (loss)	421	(1,793)	421	(1,793)	(1,364,272)	(729,569)										
Percent gain (loss) of total measured	0.124%	-0.768%	0.124%	-0.768%	-0.689%	-0.513%										
<b>Bush Dome Reservoir Operations</b>																
<b>Conservation gases from all sources</b>																
In underground storage, beg. of period	48,270,503	34,836,504	48,270,503	34,836,504	490,620	490,620					0	0				
Injected during period to date	0	0	0	0	64,351,703	46,233,461					64,959,603	46,841,361				
Withdrawn during period to date	51,696	38,250	51,696	38,250	16,669,665	11,971,976					16,786,945	12,089,256				
Helium from Exell-Soncy	0	0	0	0	46,149	46,149					46,149	46,149				
Total in underground storage	48,218,807	34,798,254	48,218,807	34,798,254	48,218,807	34,798,254					48,218,807	34,798,254				
<b>Native Gas</b>																
Total in place, beg. of period	209,039,114		209,039,114		265,724,755		318,727,000									
Recoverable in place, beg. of period	199,988,114		199,988,114		256,673,755		309,676,000									
Production during period to date	3,782		3,782		56,689,423		109,691,668									
Total in place, end of month	209,035,332		209,035,332		209,035,332		209,035,332									
Recoverable in place, end of month	199,984,332		199,984,332		199,984,332		199,984,332									
<b>Native Gas plus Conservation Gases</b>																
Total gases in place, beg. of period	257,309,617		257,309,617		266,215,375		318,727,000									
Total gases in place, end of month	257,254,139		257,254,139		257,254,139		257,254,139									
Change during period	(55,478)		(55,478)		(8,961,236)		(61,472,861)									
<b>Tuck Trigg Reservoir Operations</b>																
<b>Native Gas</b>																
Total in place, beg. of period	5,233,991		5,233,991				5,890,000									
Recoverable in place, beg. of period	4,563,991		4,563,991				5,220,000									
Production during period to date	0		0				656,009									
Total in place, end of month	5,233,991		5,233,991				5,233,991									
Recoverable in place, end of month	4,563,991		4,563,991				4,563,991									
<b>Ave. reservoir pressure, beg. of period</b>																
675.8																
675.8																
685.0																
814.1																
<b>Ave. reservoir pressure, beg. of period</b>																
487.0																
487.0																
548.0																