Exhibit No.:

Issue: Rate of Return/Capital Structure Witness: David Murray Sponsoring Party: MoPSC Staff Type of Exhibit: True-up Direct Testimony Case No.: GR-2004-0209 Date Testimony Prepared: July 19, 2004

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MISSOURI PUBLIC SERVICE COMMISSION

UTILITY SERVICES DIVISION

TRUE-UP DIRECT TESTIMONY

OF



DAVID MURRAY

JUL 2 9 2004

Missouri Public Servise Commission

MISSOURI GAS ENERGY

CASE NO. GR-2004-0209

Jefferson City, Missouri July 2004

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

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In the Matter of Missouri Gas Energy's Tariffs to Implement a General Rate Increase for Natural Gas Service

Case No. GR-2004-0209

AFFIDAVIT OF DAVID MURRAY

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

David Murray, being of lawful age, on his oath states: that he has participated in the preparation of the following true-up direct testimony in question and answer form, consisting of _____ pages to be presented in the above case; that the answers in the following true-up direct testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of his knowledge and belief.

David Murrav

Subscribed and sworn to before me this day of July 2004.



TONI M. CHARLTON NOTARY PUBLIC STATE OF MISSOURI COUNTY OF COLE My Commission Expires December 28, 2004

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1		TRUE-UP DIRECT TESTIMONY
2		OF
3		DAVID MURRAY
4		MISSOURI GAS ENERGY
5		CASE NO. GR-2004-0209
6		
7	Q.	Please state your name.
8	А.	My name is David Murray.
9	Q.	Are you the same David Murray who filed direct, rebuttal and surrebuttal
10	testimony in	this proceeding on behalf of the Staff of the Missouri Public Service
11	Commission ((Staff)?
12	А.	Yes, I am.
13	Q.	In your direct testimony, did you recommend a fair and reasonable rate of
14	return for the	Missouri jurisdictional natural gas utility rate base for Missouri Gas Energy
15	(MGE)?	
16	А.	Yes, I did.
17	Q.	What is the purpose of your true-up direct testimony?
18	А.	The purpose of this true-up testimony is to update my recommended capital
19	structure for	MGE and provide a revised overall rate of return recommendation as of
20	April 30, 2004	4. I will also update the embedded costs of long-term debt and preferred stock
21	to reflect the a	actual costs as of April 30, 2004.

True-Up Direct Testimony of David Murray

1 Capital Structure

Q. Did you perform an analysis of Southern Union's capital structure as of
April 30, 2004, the end of the true-up period for this proceeding?

- A. Yes, I did.
 - Q. What was the result of your analysis?

A. As of April 30, 2004, Southern Union's capital structure was as follows:
7 29.99% common stock equity, 6.40% preferred stock and 63.61% long-term debt
8 (see Schedule 1).

9 Q. How does this compare to the capital structure you recommended for rate10 making purposes in your direct testimony?

A. Southern Union's capital structure as of April 30, 2004, is different from that
used for the period ending December 31, 2003, which was as follows: 25.91% common
stock equity, 6.13% preferred stock, 60.66% long-term debt and 7.30% short-term debt. The
major difference in the capital structure from December 31, 2003, and April 30, 2004, was
Southern Union's elimination of short-term debt.

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Embedded Cost of Long-term Debt

18 April 30, 2004?

Q.

A. The embedded cost of long-term debt for Southern Union was 6.151% on
April 30, 2004, (see Schedule 2). I arrived at this cost by calculating the consolidated
embedded cost of long-term debt for all of Southern Union's operations, which includes
Panhandle. I relied on the embedded cost of long-term debt, including Panhandle, provided
in Southern Union's response to Staff Data Request No. 0374.

What was the embedded cost of long-term debt for Southern Union on

True-Up Direct Testimony of David Murray

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1	Q. How does this compare with the embedded cost of long-term debt
2	recommended for the period ending December 31, 2003?
3	A. Southern Union's embedded cost of long-term debt is 23 basis points lower
4	than the embedded cost of long-term debt recommended for the period ending December 31,
5	2003. This is due to the debt refinancing that occurred at the Panhandle level between the
6	update period and the true-up date. This lower cost of debt was slightly offset by an
7	approximate \$50 million reduction in the lower-cost term loan held at the Southern Union
8	operating company level.
9	Embedded Cost of Preferred Stock
10	Q. What was the embedded cost of preferred stock for Southern Union on
11	April 30, 2004?
12	A. The embedded cost of preferred stock for Southern Union was 7.76% on
13	April 30, 2004 (see Schedule 3). I relied on the embedded cost of preferred stock provided
14	by Southern Union in response to Staff Data Request No. 0374. There has been no change in
15	the embedded cost of preferred stock from the update period to the true-up date.
16	Overall Rate of Return
17	Q. How have the changes to capital structure and embedded costs affected the
18	overall rate of return for MGE?
19	A. MGE's overall rate of return as of April 30, 2004, has increased slightly.
20	Staff recommends the following overall rates of return based on a return on equity range of
21	8.52% to 9.52% with a midpoint of 9.02% (see Schedule 4):

True-Up Direct Testimony of David Murray

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	Deturn on Fauity	8.52%	9.02%	9.52%
1 2	Return on Equity Common Stock Equity	2.55%	2.70%	2.85%
3	Preferred Stock	.50%	.50%	.50%
4	Long-term Debt	3.91%	3.91%	3.91%
5	Short-term Debt	00%	<u>.00%</u>	0 <u>0%</u>
5	Overall Rate of Return	<u> </u>	<u></u>	7.26%
0	Overall Rate of Return	0.9070	7,1170	7.2070
7	Q. For comparison purpo	ses, what was the	overall rate of	return recommended
8	for the period ending December 31, 20	003?		
9	A. Staff's recommended	overall rates of re	turn for MGE f	for the period ending
10	December 31, 2003, based on the a	bove-referenced r	ange for return	on equity, were as
11	follows:			
12	Return on Equity	8.52%	9.02%	9.52%
13	Common Stock Equity	2.21%	2.34%	2.47%
14	Preferred Stock	.48%	.48%	.48%
15	Long-term Debt	3.87%	3.87%	3.87%
16	Short-term Debt	14%	.14%	.14%
17	Overall Rate of Return	6.70%	6.83%	6.96%
18	Q. Does this conclude you	ur prepared true-up	direct testimon	y?
18 19	Q. Does this conclude you A. Yes, it does.	ur prepared true-up	direct testimon	y ?
		ur prepared true-up	direct testimon	y?
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Capital Structure as of April 30, 2004 for Southern Union Company

Capital Component	Amount in Dollars	Percentage of Capital
Common Stock Equity	\$1,048,146,000	29.99%
Preferred Stock	223,828,509	6.40%
Long-Term Debt	2,223,356,723 *	63.61%
Short-Term Debt	0 **	0.00%
Total Capitalization	\$3,495,331,232	100.00%

Gas Distribution Financial Ratio Benchmarks Total Debt / Total Capital - Including Preferred Stock

Standard & Poor's Corporation's	Lower Quartile	Median	Upper Quartile
Utility Rating Service,	BBB	BBB	BBB
Financial Statistics as of July 7, 2000	52%	56%	61%

Note: * See Schedule 2 for the amount of Long-Term Debt at April 30, 2004. **Short-term debt balance was \$0 as of April 30, 2004

Source: Southern Union Company's response to Staff's Data Request No. 0374.

Schedule 1

Southern Union Company Parent Only Embedded Cost of Long-Term Debt	rent Only Embe	edded Cost of Lor	ng-Term Debt						Unamortized		
	Issuance	Meturity	Original	Outstanding	Ann Int	Ann Int	Interest Print	Issuance	issuance Costs & Discounts	Embedded	
Description	Date	Date	(ssue	as of April 30	Rate	Costs	Dates	Costs (Orig)	es of April 30	Rate	
7.6% Senior Notes	2/1/1894	2/1/2024	475,000,000	359,765,000	7,60%	27,342,140	2/1 & 8/1	(5,386,788)	(2,720,918)	7.697%	
8.25% Senior Notes	11/4/1999	11/15/2029	300,000,000	300,000,000	8.25%	24,750,000	SV15 & 11/15	(6,659,906)	(5,850,648)	8,484%	
PGE MTG Notes 9.34%	11/4/1999	9/1/2019	15,000,000	15,000,000	8.34%	1,401,000	3/1 8, 9/1	(342,871)	(265,077)	9.625%	
Providence Series M 10.25%	9/28/2000	7/31/2008	10,000,000	1,363,000	10.25%	139,708	1/31 & 7/31	(80,531)	(44,610)	11,393%	
Providence Series N 9.63%	9/28/2000	5/30/2020	10,000,000	10,000,000	9.63%	963,000	5/31 & 11/30	(284,477)	(239,180)	10.018%	
Providence Series O 8.46%	9/28/2000	9/30/2022	12,500,000	11,875,000	8.46%	1,004,625	3/31 & 9/30	(678,625)	(577,005)	8.169%	
Providence Series P 8.09%	9/28/2000	9/30/2022	12,500,000	12,500,000	8.09%	1,011,250	3/31 & 9/30	(323,564)	(279,213)	8.399%	
Providence Series R 7.5%	9/28/2000	12/15/2025	15,000,000	15,000,000	7.50%	1,125,000	615 & 12/15	(367,971)	(325,872)	7.769%	
Providence Series S 6.82%	9/28/2000	4/1/2018	15,000,000	14,464,000	6.82%	986,445	4/1 & 10/1	(116,166)	(321,283)	7.138%	
Providence Series T 6.5%	9/28/2000	2/1/2029	15,000,000	13,737,000	6.50%	892,905	2/1 & 5/1& 8/1 & 11/1	(2,485,117)	(2,172,654)	8.480%	
Fall River 9.44%	9/28/2000	2/15/2020	6,500,000	6,500,000	9.44%	613,600	2/15 & 8/15	(226.342)	(186,063)	9.904%	
Fall River 7.99%	9/28/2000	12/15/2026	7,000,000	7,000,000	7.96%	559,300	3/15 & 9/15	(135,410)	(116,935)	8.202%	
Fall River 7.24%	9/28/2000	12/15/2027	6,000,000	6,000,000	7.24%	434,400	6/15 & 12/15	(109,972)	(95,707)	7.426%	
Mandatory Convertibles 5.75%	6/11/2003	8/16/2006	125,000,000	125,000,000	5.75%	7,187,500	8/16, 11/16, 2/16 & 5/1((411,010)	(345,450)	5.871%	
Term Loan	7/15/2002	8/26/2005	311,086,956		LIBOR+87.5bp	2,449,699	monthly	(1,470,798)	(845,959)	2.798%	
Acct 189 unemortized issue costs/discounts Acct 257 unamortorized premiums	tts/discounts ms								(13,261,501) 2,061,342		
Total for Southern Union Company	any		1,335,586,956	1,009,290,956		70,860,571		(19,355,293)	(25,386,733)	7,397%	
Panhandle Eastern Pipe Line Company Embedded Cost of Long-Term debt	Company Emb	edded Cost of Lo	ng-Term debt						Unamortized Issuance Costs		
	issuance	Maturity	Original	Outstanding	Ann Int	Ann Int	Interest Pmt	issuance	& Discounts	Embedded	Annualized
Description	Date	Date	ensal	as of April 30	Rate	Costs	Dates	Costs (Orig)	as of April 30	Rate	cost
2.75% Senior Notes	3/12/2004	3/15/2007	200,000,000	200,000,000	2.750%	5,500,000	3/15 & 9/15	(1,050,187)	(955,679)	2.765%	5,529,033
7.875% Sentor Notes	8/15/1994	8/15/2004	100,000,000	52,455,000	7.875%	4,130,831	2/15 & 8/15	(6,659,906)	(12,657)	8.437%	4,425,570
6.50% Senior Notes	7/15/1999	7/15/2009	200,000,000	60,623,000	6.500%	3,940,495	1/15 & 7/15	(342,871)	(481,768)	6.511%	3,947,262
8.25% Senior Notes	4/1/2000	4/1/2010	100,000,000	40,500,000	8.250%	3,341,250	4/1 & 10/1	(80,531)	(25,551)	8.257%	3,343,943
7.00% Senior Notes	7/15/1999	2/15/1989	300,000,000	66,305,000	7.000%	4,641,350	1/15 & 7/15	(284,477)	(1,328,703)	7.007%	4,645,755
4.80% Senior Notes	8/15/1994	8/30/2022	300,000,000	300,000,000	4.800%	14,400,000	2/15 & 8/15	(678,625)	(2,282,345)	4.811%	14,432,648
6.05% Senior Notes	8/18/2003	9/30/2022	250,000,000	250,000,000	6.050%	15,125,000	2/15 & B/15	(323,564)	(2,200,165)	6.058%	15,144,601
Term Loan	12/21/2001	1/31/2007	290,000,000	269,569,500	4.464%	12,033,582	1/31,4/30,7/31,10/31	(10,937,822)	(7,519,753)	4.639%	12,505,238
Embedded Cost of long-term debt for Panhandle	debt for Panhar	ndie									
Eastern Pipe Line Company			1,740,000,000	1,239,452,500		63,112,509		(20,357,983)	(14,806,621)	5.161%	63,974,050
Total consolidated embedded cost of kong-term debt for Southern Union Company	cost of long-la		3,075,586,956	2,248,743,456		133,973,080		(39,713,275)	(40,193,354)	6.151%	

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Embedded Cost of Long-Term Debt as of April 30, 2004 for Southern Union Company (Consolidated)

Source: Company Response to Data Request 0374.

Long-Term Debt Balance for Capital Structure in Schedule 1

2,223,356,723

Schedule 2

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Embedded Cost of Preferred Stock as of April 30, 2004 for Southern Union Company

			(1)	(2)		
Preferred Stock	lssuance Date	Original Issue	Outstanding as of 4/30/2004	Annual Interest Rate	Unamortized Issuance Cost	Annualized Cost to Company (1*2)
7.55% Preferred Securities	10/1/03	230,000,000	\$230,000,000	7.55%	(6,171,490.72)	\$17,365,000
			\$230,000,000			\$17,365,000

		\$17,365,000
Embedded Cost of Preferred Stock	#	\$223,828,509
	=	7.76%

Notes:

Source: Southern Union Company's response to Staff's Data Request 0374

Schedule 3

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Weighted Cost of Capital as of April 30, 2004 for Missouri Gas Energy

			Commo	on Equity Return	f:	
Capital Component	Percentage of Capital	Embedded Cost	8.52%	9.02%	9.52%	
Common Stock Equity	29.99%		2.55%	2.70%	2.85%	
Preferred Stock	6.40%	7.76%	0.50%	0.50%	0.50%	
Long-Term Debt	63.61%	6.15%	3.91%	3.91%	3.91%	
Short-Term Debt	0.00%		0.00%	0.00%	0.00%	
	100.00%		6.96%	7.11%	7.26%	

Weighted Cost of Capital Using

Notes:

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See Schedule 1 for the Capital Structure Ratios.

See Schedule 2 for the Embedded Cost of Long-Term Debt.

See Schedule 3 for the Embedded Cost of Preferred Stock.

Schedule 4