UNA LAW GROUP

A PROFESSIONAL LIMITED LIABILITY COMPANY

#### ATTORNEYS AT LAW

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March 4, 2010

### VIA EMAIL AND U.S. MAIL

Chairman Sara Kyle c/o Sharla Dillon Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, Tennessee 37243-00505

Re:

Docket No. 09-00183

Dear Chairman Kyle:

As a follow up to conversations with the CAPD, Chattanooga Gas Company is filing the attached supplemental response to discovery request no. 150 of the CAPD's first set of discovery requests.

Please do not hesitate to contact me if you have any questions or concerns.

Sincerely,

Jennifer L. Brundige

# Enclosures

cc: Gary Hotvedt, Esq.
Pat Murphy
Cynthia Kinser, Esq.
C. Scott Jackson, Esq.
Ryan McGehee, Esq.
T. Jay Warner, Esq.
Henry M. Walker, Esq.
Elizabeth Wade, Esq.
Archie Hickerson

Chattanooga Gas Company Docket Number 09-00183 CAPD Question 150 3/4/2010 1 of 1

## **DISCOVERY REQUEST NO. 150:**

Please provide supporting workpapers and source documents for each of the following Exhibits: MHS-1, MHS-2, MHS-3, MHS-4, MHS-5, MHS-6, and MHS-7. Provide any associated documentation for the information provided in response to this request and explain all assumptions used. Provide workpapers in electronic spreadsheet form, with all links and formulas intact, source data used, and explain all assumptions and calculations used. To the extent the data does not exist in the exact format requested, please provide it in the format in which it is available and explain why it is not available in the format requested.

### Response:

Please see CAPD Discovery request 1 for copies of the above referenced exhibits in electronic format. For Exhibits MHS-1, MHS-2, and MHS-6, please reference MFG-25 for source data. Attachment 150-1 contains workpapers for Exhibits MHS-3 and MHS-4. There are no workpapers associated with Exhibit MHS-5 as they are screenprints from Forecast Pro XE 5, the statistical forecasting software package used to obtain the regressions. Please see Attachement 150-2 for workpapers associated with Exhibit MHS-7.

### **Revised Response:**

Please see Attachment 150-3 for the input data used to run the regressions provided in Exhibit MHS-5.

150-3	5																																							
Attachment 150-3	SDD72MRD		SDD Per MRD	2000	*	12	1 5	25.090361	31.363636	18.513514	14.645161	7.894737	0.970874	0.15674	0	0.440252	6.305085	10.777027	26.463023	41.280277	29.506579	21.273885	19.136213	6.116505	2.539185	0.302013	0	0.306122	6.790541	14.557823	16.557377	29.363057	25.410959	24.078947	14.642857	5.986395	3.766234	0.098684	0	0
	SDD65MRD		SDD Per MRD	2000	_	12	12	18,614458	24.405594	11.486486	7.774194	3.322368	0.032362	0	0	0.031447	2.508475	5.337838	19.903537	33.529412	22.828947	14.713376	12.724252	2.297735	0.219436	0	0	0.034014	2.398649	7.993197	9.803279	22.356688	18.424658	17.467105	8.733766	2.176871	1.461039	0	0	0
	SDD55MRD		SDD Per MRD	2000	_	12	12	9.578313	14.825175	3.817568	1.645161	0.296053	0	0	0	0	0.508475	2.060811	10.996785	22.491349	13.552632	6.019108	4.717608	0.453074	0	0	0	0	0.101351	1.564626	2.131148	12.770701	9.383562	8.684211	2,75974	0.136054	0	0	0	0
	SalesTemp	Monthly Sales	Temp	2000	~	12	12	41	38.6	22	60.8	63.4	75.1	82.3	75.7	81.1	55.4	58.3	42.3	45.8	39.6	20	57.5	64.2	71.9	79.8	75.5	81	50.1	54.8	54.3	39.3	45.1	47.7	60.4	63.9	71.7	77.8	77.1	81.3
	SDD80		SDD 80	2000	_	12	12	1083	1125	786	702	469	183	25	31	100	395	555	1060	1449	1128	803	826	422	275	109	27	26	411	662	748	1174	974	296	691	372	283	63	10	31
	SDD72 S		SDD 72	2000	~	12	12	833	897	548	454	240	30	5	0	4	186	319	823	1193	897	899	576	189	8	<b>ග</b>	0	თ	201	428	505	922	742	732	451	176	116	ო	0	0
	SDD65 SE		SDD 65	2000	~	12	12	618	869	340	241	101	Ψ-	0	0	←	74	158	619	696	694	462	383	71	7	0	0	_	71	235	299	702	538	531	569	64	45	0	0	0
			SDD 55	2000	τ-	12	12	318	424	113	51	တ	0	0	0	0.	15	61	342	650	412	189	142	4	0	0	0	0	က	46	65	401	274	264	85	4	0	Ó	0	0
	CGCTRD SDD55		Trend	2000	<del>-</del>	12	12	-	2	ო	4	വ	ဖ	7	∞	თ	10	7	12	13	44	15	16	17	18	19	20	21	55	23	24	25	26	27	28	59	30	31	32	33
	MRD Average Cycle	haverage Cycle billed Days per	Month	2000	_	12	12	33.2	28.6	29.6	31	30.4	30.9	31.9	29.7	31.8	29.5	29.6	31.1	28.9	30.4	31.4	30.1	30.9	31.9	29.8	31.9	29.4	29.6	29.4	30.5	31.4	29.2	30.4	30.8	29.4	30.8	30.4	29.8	30.8
Vertical	> 4	٠٩						Jan-00	Feb-00	Mar-00	Apr-00	May-00	00-unr	00-Inc	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02

150-3 2 of 8	, ; !																																						
Attachment 150-3	SDD72MRD	: : : :	SUD Per MRD	2008	- 7	1 7	1 726384	12 264808	26.342282	30,130293	34.932886	25.921053	15.659164	8.262295	3.289902	0.625	0.033445	0.065789	4.440789	11.020408	21.277955	31.213115	32.647059	25.925926	16.835017	9.536424	1.381579	0.065359	0.133333	0.451613	2.367491	7.037037	16.706587	24.559271	28.42623	23.354839	21.495017	12.237288	5.357143
	SDD65MRD		SUD Per MKD	2002	- 6	1 5	0 390879	6.515679	19.530201	22.964169	27.95302	19.144737	8.778135	2.918033	0.130293	0	0	0	1.677632	4.659864	14.440895	24.098361	25.653595	19.023569	10	4.635762	0.559211	0	0	0	0.24735	2.390572	10.718563	18.662614	21.278689	17.064516	14.019934	5.491525	1.883117
	SDD55MRD		SDU Per MRD	1	- 5	1 5	i o	1.777003	10.033557	12.736156	17.986577	9.868421	2.122186	0.622951	0	0	0	0	0.065789	0.612245	6.230032	14.262295	15.882353	9.93266	2.828283	0.794702	0.065789	0	0	0	0	0.26936	3.353293	10.547112	11.836066	8.129032	5.747508	0.949153	0.25974
	SalesTemp	Monthly Sales	2000 2000		12	12	58.2	55.8	4.4	40.3	36.8	45.8	59.8	62.9	70	74.5	73.8	78.5	51.7	58	51.4	42.8	40.3	47.2	55.9	61	73	77.1	73.9	77.2	51.9	61.8	54.5	53.4	44.3	4	58	57.3	9.99
	SDD80	ا د د د	2000	-	12	12	206	574	1023	1176	1280	1023	736	491	321	149	70	58	349	559	916	1202	1244	1008	738	524	207	91	85	133	261	441	806	1031	1117	948	806	604	381
	SDD72 SI	97 AAS	2000	<del></del>	12	12	53	352	785	925	1041	788	487	252	101	19	<del></del>	7	135	324	999	952	666	770	200	288	42	2	4	41	29	509	558	808	867	724	647	361	165
		SDD 65	2000	_	12	12	12	187	582	705	833	582	273	68	4	0	0	0	51	137	452	735	785	565	297	140	17	0	0	0	7	71	358	614	649	529	422	162	58
	SDD55 SDD65	SDD 55	000	_	12	12	0	51	299	391	536	300	99	19	0	0	0	0	7	18	195	435	486	295	84	24	7	0	0	0	0	ω	112	347	361	252	173	28	ω
	CGCTRD SD	Trend	2000	~	12	12	34	35	36	37	38	36	40	4.	42	43	44	45	46	47	48	49	20	51	25	53	54	22	56	22	28	29	09	61	62	63	64	65	99
		billed Days per Month	2000	~	12	12	30.7	28.7	29.8	30.7	29.8	30.4	31.1	30.5	30.7	30.4	29.9	30.4	30.4	29.4	31.3	30.5	30.6	29.7	29.7	30.2	30.4	30.6	30	31	28.3	29.7	33.4	32.9	30.5	31	30.1	29.5	30.8
Vertical	∑ ∢ :	ā					Oct-02	Nov-02	Dec-05	Jan-03	Feb-03	Mar-03	Apr-03	May-03	30-unc	0-Inf	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Ang-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05

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Attachment 150-3 of 8	SDD72MRD		SUD Per MRD	2002	. 12	12	0 551948		0	1.005639	10.511866	24.14451	29.44667	26.71875	24.22253	15.09479	7.050794	2.626442	0	0	0.197635	5.961025	17.671614	23.478398	24.631502	28.977638	19.429514	4.975780752	10.47258486	1.00996	0	0	0.247737724	2.214364294	13.50185529	21.69977925	26.15238095	29.91151866	24.46958982
	SDD65MRD		SUD Per MRD	, T	12	12	0.032468	0	0	0.117481	5.630526	17.336638	22.655392	19.729167	17.397134	9.175996	2.236508	0.871044	0	0	0.197635	2.148358	11.063698	16.613056	17.63663	21.973134	12.696841	2.431818182	0.890850722	0.121382	0	0	0.044503783	0.471475719	7.546382189	14.54746137	19.43443223	22.77187902	17.34087694
	SDD55MRD	ָ מַנְיּ	SUD FEI MIKU 2000	)   	12	12	•	0	0	0	1.423918	8.807271	13.204272	10.072917	8.870396	3.167637	0.039683	0.017746	0	0	0.197635	0.41647	3.336425	7.330495	8.149451	12.554698	4.828697	2.425788497	0.616151866	0	0	0	0.044503783	0.003143171	1.91249227	6.188899401	10.71208791	12.88770914	7.790350464
	SalesTemp	Monthly Sales	2000	-	12	12	76.1	87	82.4	73.26868496	61.41932501	49.12775466	41.17611489	48.34687052	50.80131363	61.98602308	63.18740399	78.29664325	79.66496045	79.27135299	86.48339599	66.72500788	54.09924488	47.40021575	48.81783825	42.63656633	54.89490969	62.67024216	63.34869432	75.52849336	79.40282302	76.98412698	90.33364662	70.9902239	56.84543073	50.69194021	44.30990174	43.08807135	51.04433498
	SDD80	י טאַ ערט	2000	_	12	12	127	28	37	168.2380952	559.2857143	1019.095238	1194.380952	1110.619048	995.3333333	732.3809524	445	191	0	0	6.047619048	399.7619048	789.2857143	950.5714286	1046.333333	1187.714286	895.3809524	616.1904762	413.3333333	150.2857143	45.3333333	30.52380952	55	222	647	902	1,099	1,127	988
	SDD72	SD 72	2000	_	12	12	17	0	0	30.57142857	322.7142857	765.3809524	945.2380952	855	748.4761905	481.5238095	211.5238095	84.57142857	0	0	75	180.6190476	544.2857143	709.047619	786.5238095	950.7619048	653.1904762	371.7619048	191	30.9047619	0	0	7.952380952	29	416	655	850	885	741
	SDD65	SDD 65	2000	<b>~</b>	12	12	_	0	0	3.571428571	172.8571429	549.5714286	727.2380952	631.3333333	537.5714286	292.7142857	67.0952381	28.04761905	0	0	7	65.0952381	340.7619048	501.7142857	559.1904762	743.4285714	449.1904762	214	79.28571429	3.714285714	0	0	1.428571429	41	232	439	632	674	525
	SDD55	SDD 55	2000	_	12	12	0	0	0	0	43.71428571	279.1904762	423.8571429	322.3333333	274.0952381	101.047619	1.19047619	0.571428571	0	0	0	12.61904762	102.7619048	221.3809524	250.8571429	456.5238095	202.9047619	74.71428571	18.23809524	0	0	0	1.428571429	0	59	187	348	381	236
	CGCTRD	Trend	2000	Ψ-	12	12	29	68	69	70	71	72	73	74	75	9/	77	78	79	80	<u>8</u>	82	83	84	82	98 8	87	88	83	06	91	92	83	94	92	96	26	86	66
		billed Days per Month	2000	<b>~</b>	12	12	30.8	29.4	30.7	30.4	30.7	31.7	32.1	32	30.9	31.9	30	32.2	30.6	31	30.6	30.3	30.8	30.2	32.5	29.6	30.3	30.8	29.6	30.6	30.8	29.5	32.1	30.3	30.8	30.2	32.5	29.6	30.3
Vertical	2 * .	<b></b>					Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	CO-CO	Jan-06	Feb-06	Mar-06	Apr-06	May-06	90-unf	30-Inc	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Ang-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08

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Attachment 150-3	SDD72MRD		CAM Per MRD	2000		. 12	12	14.49134199	7.858751609	1.826953003	0.064935065	0	0.249221184	3,498542274	17.0668528	27.70023419	27.16767489	30.64480874	22.45979186	15.56812824	6.109792754	1.458235753	0.072902125	0.055299539
	SDD65MRD		SDD Per MRD	2000	•	12	12	8.121521336	2.757400257	0.264550265	0	0	0	0.994493035	10.82053668	20.69476971	20.16441756	23.63934426	15.65909808	8.807166431	2.404682803	0.334113973	0	0
	SDD55MRD 8		SDD Per MRD	2000		12	12	1.965058751	0.402187902	0	0	0	0	0.058309038	3.252675663	11.1225605	10.71040794	13.93442623	7.377798802	1.89533239	0.237304224	0	0	0
	SalesTemp	4	Montnly sales Temp	2000	_	12	12	59.0931253	61.29953917	74.59640906	78.74980611	73,36961451	88,55263158	67.71050142	54.56464787	43.78178456	43.72637944	42.24239529	51.56650246	58.43978547	64.35791091	74.23887588	80.17527532	78.36281179
	SDD80		SDD 80	2000	<b>~</b>	12	12	688	465	189.4761905	58	36	95	306.047619	767.2857143	1089.047619	1079.761905	1178.857143	919.8095238	714.3809524	416.3333333	192.6666667	40.42857143	38.47619048
	SDD72		SDD 72	2000	_	12	12	446	233	55.9047619	2	0	80	102.8571429	523.952381	844.8571429	834.047619	934.6666667	678.2857143	471.7142857	183.9047619	44.47619048	2.238095238	1.714285714
	SDD65		SDD 65	2000	~	12	12	250	82	8.095238095	0	0	0	29.23809524	332.1904762	631.1904762	619.047619	721	472.9047619	266.8571429	72.38095238	10.19047619	0	0
	SDD55 S		SDD 55	2000	_	12	12	61	12	0	0	0	0	1.714285714	99.85714286	339.2380952	328.8095238	425	222.8095238	57.42857143	7.142857143	0	0	0
	SGCTRD S		Trend	2000	_	12	12	100	101	102	103	104 401	105	106	107	108	109	110	111	112	113	114	115	116
		Average Cycle billed Davs ner	Month	2000	~	12	12	30.8	29.6	30.6	30.8	29.5	32.1	29.4	30.7	30.5	30.7	30.5	30.2	30.3	30.1	30.5	30.7	31
Vertical	MRD	Av Pille						Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	60-Inc	Aug-09

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Attachment	,	:	×	00		. 2	1 2	38	33	37	37	12	33	33	37	37	4	33	32	6/	37	33	33	33	22	37	33	8	38	90	39	37	34	31	18	4	49	98	38	53
Atts	Nvmex		Strin	2000				2.338	2.583	2.56067	2.92567	3.112	4.23833	4.53833	3.74767	4.64367	5.304	4.62133	6.32	9.79	6.93967	5.09033	5.44233	4.98333	3.922	3.34167	3.19033	2.418	1.888	3.06	2.539	2.787	1.984	2.381	3.418	3.344	3.349	3.386	2.938	3.463
	ECON		Dummy	2000	•	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		ta can call	eniployment rafe	2000	~	12	12	3.7	3.4	3.5	က	ო	3.7	3.5	3.7	3.3	3.3	3.2	က	3.5	3.2	3.6	3.2	2.9	4	3.8	4.2	4	4.1	4.4	4.3	4.7	4.4	4.7	4.2	4.1	4.9	4.5	4.5	4
	ol ver	4:100		2000	<b>~</b>	12	12	164.1	164.8	166.5	166.7	166.7	167.5	168	168	168.5	168.5	168.6	168.4	169.3	170.2	170.6	171.4	171.7	172.2	171.6	171.5	172.2	171.7	171	170.3	170.6	171	172.1	173.1	173.2	173.5	173.6	173.8	174.2
	RPGA CPI	C	<u>~</u>	2000	_	12	12	0.4843	0.42658034	0.422224865	0.46070066	0.46070066	0.476134925	0.55794	0.55794	0.534079763	0.534079763	0.670415658	0.761447387	0.757399527	0.970716099	0.749127081	0.638687923	0.618074956	0.59274216	0.509704545	0.477181749	0,484295122	0.485705416	0.487693684	0.468402877	0.467579191	0.466485439	0.399713655	0.57923236	0.602394804	0.601353199	0.627474539	0.626752474	0.625313318
	PGA F		2	2000	~	12	12	0.4843	0.4284	0.4284	0.468	0.468	0.486	0.5712	0.5712	0.5484	0.5484	0.6888	0.7814	0.7814	1.0068	0.7788	0.6671	0.6467	0.622	0.533	0.4987	0.5082	0.5082	0.5082	0.4861	0.4861	0.4861	0.4192	0.611	0.6358	0.6358	0.6638	0.6638	0.6638
	CSAC	Com Avg	MRD	2000	_	12	12	21.488	28.9465	19.3415	12.1429	9.44054	7.55232	4.94857	6.06668	6.40962	7.99631	9.36211	22.1931	36.4891	32.1788	18.3461	17.2957	8.82584	6.26579	6.66078	5.54432	5.88393	7.37532	10.8836	12.8748	22.2357	23.1778	21.7923	14.281	8.47823	6.91483	5.55753	5.39437	5.76231
	RSAC	Avg upc per	MRD	2000	_	12	12	4.093	5.5347	2.92	1.9882	1.1896	0.616	0.4849	0.4379	0.5184	0.9115	1.599	4.5109	6.9422	4.7835	3.2008	2.8539	0.9319	0.5563	0.5254	0.4455	0.5582	0.8497	1.8747	2.2741	4.8006	4.0278	3.8552	2.0555	1.0153	0.6616	0.484	0.4211	0.434
	Knot5580	Spline Knot	Base80	2000	~	12	12	2019	805	4181	9585	74221	246890	416319	413449	360968	106140	37087	2466	0	242	802	21703	76947	165671	340687	420788	361721	91159	14662	6764	641	1314	4115	33288	114987	198466	381088	449844	429653
	Knot5572	Spline Knot Base	72	2000	~	12	12	2019	805	4181	9585	57268	132818	153342	145752	148056	72084	37087	2466	0	242	802	19757	68493	104874	150379	146220	151127	60297	13642	6764	641	1314	4115	26181	69805	103586	147271	146220	151094
	Knot5565	Cubil Spline Spline Knot Base	Base65	2000	~	12	12	936	691	3957	7898	17383	30751	31905	29667	31567	22137	17593	1413	0	242	805	6106	22366	29240	31857	29762	31764	19901	7803	4541	470	1314	1808	10391	21105	24731	30381	29762	30762
	SDD80MRD K	<i>o</i>	SDD Per MRD	2000	~	12	12	32.620482	39.335664	26.554054	22.645161	15.427632	5.92233	1.786834	1.043771	3.144654	13.389831	18.75	34.083601	50.138408	37.105263	28.757962	27.44186	13.656958	8.62069	3.657718	0.846395	3.29932	13.885135	22.517007	24.52459	37.388535	33.356164	31.809211	22.435065	12.653061	9.188312	2.072368	0.33557	1.006494
Vertical								Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02

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Attachment 1	Nvmex		Nxmex	SOOO	1	12	i <del>C</del>	3.641	4.11	4.22	5.032	5.5	9.282	5.107	5.358	5.988	5.582	4.7	5.016	4.52	4.486	4.725	6.224	5.739	5.118	5.365	5.858	69.9	6.326	5.998	5.19	5.459	7.973	7.177	6.347	6.36	6.239	7.128	7.007	6.262
	ECON		Recession	2000		. 12	12	i o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	UER		Unemployment	2000		12	12	i 4	4.2	4.1	4.4	4.4	4.3	4.1	4.2	5.5	4.6	4.7	4.3	4.5	4.4	4	4.6	4.4	4.6	4	4	4.7	4.4	4.5	4.4	4.6	4.7	4.6	5.2	5.1	4.9	4.7	4.6	5.2
	CPI		OPI South	2000	<del></del>	12	12	174.9	174.9	174.6	175.1	176.4	177.5	177.4	176.8	177.2	177.3	177.9	178.3	178.1	177.5	177.5	178.2	179.1	180.1	180.9	182	182.9	182.6	182.6	182.8	183.7	183.7	183.3	183.6	184.7	185.9	187.3	187.3	187.8
	RPGA (		ά	2000	~	12	12	0.713070326	0.713070326	0.714295533	0.712255854	0.707006803	0.772980338	0.773416065	0.776040781	0.774288995	0.671949239	0.669682968	0.668180595	0.661006962	0.663241352	0.663241352	0.660636027	0.657316248	0.641274736	0.638438806	0.63458011	0.631457518	0.739438554	0.739438554	0.73862954	0.735010778	0.735010778	0.869738953	0.733266013	0.728898971	0.675290479	0.670242926	0.665248959	0.663477796
	PGA F		Σ	2000	τ	12	12	0.76	0.76	0.76	0.76	0.76	0.8361	0.8361	0.8361	0.8361	0.726	0.726	0.726	0.7174	0.7174	0.7174	0.7174	0.7174	0.7038	0.7038	0.7038	0.7038	0.8228	0.8228	0.8228	0.8228	0.8228	0.9715	0.8204	0.8204	0.765	0.765	0.7593	0.7593
	CSAC	Com Avg	UPC per MRD	2000	~	12	12	6.4351	9.13114	19.4705	23.1077	31.0653	21.8036	12.6967	9.38545	7.97512	4.79444	7.02786	5.88167	6.23809	8.66404	14.0784	24.2497	27.5654	23.3493	13.3519	9.17475	6.35959	6.0032	6.0852	5.88617	6.60041	6.85291	10.7608	20.346	22.467	20.1925	16.9561	9.28135	7.47057
	RSAC	Avg	upc per MRD	2000	•	12	12	0.5574	1.5705	4.1675	4.6809	5.8638	3.7263	1.8519	1.0637	0.6224	0.5119	0.4866	0.4724	0.6817	1.1616	2.9933	4.8412	5.2405	4.0473	2.107	1.1792	0.5953	0.4955	0.4712	0.4789	0.5957	0.8361	2.1901	4.0192	4.2188	3.6458	2.6777	1.2812	0.7987
	Knot5580	Spline	Knot Base80	2000	Ψ-	12	12	236905	39098	4500	0	0	215	7268	51119	118036	271562	359421	389356	139511	21937	6582	1688.862	1039.238	2522.19	7620.429	53914.1	224073.8	344180.5	343115.3	298935.2	150863.2	57087.29	14535.14	341.0952	1145.952	32.7619	6324.238	20486.14	101558.8
	Knot5572	Spline	Knot Base 72	2000	~	12	12	124367	31597	3975	0	0	215	7268	44568	88936	136352	146068	147334	95819	21937	6582	1688.862	1039.238	2522.19	7620.429	48314.05	131398.9	148795	144811.3	142577.1	106131.3	54180	13443.71	341.0952	1145.952	32.7619	6324.238	19569.76	75370.95
	Knot5565	Cubil	Spline Knot Knot Base Base65	2000	~	12	12	29299	12094	1111	0	0	215	5726	20374	29952	30429	29857	30331	24714	13054	3805	1238.1952	761.90476	1608.6667	5818.1429	16099.714	28579.381	30619.048	30000	30952.381	27998.762	21369	4758	341.09524	1145.9524	32.761905	5359.7143	13136.048	23407.619
	SDD80MRD 1		SDD Per MRD	2000	_	12	12	6.710098	20	34.328859	38.306189	42.95302	33.651316	23.665595	16.098361	10.456026	4.901316	2.341137	1.907895	11.480263	19.013605	29.265176	39.409836	40.653595	33.939394	24.848485	17.350993	6.809211	2.973856	2.833333	4.290323	9.222615	14.848485	24.131737	31.337386	36.622951	30.580645	30.166113	20.474576	12.37013
Vertical								Oct-05	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05

Chattanooga Gas Company Docket No. 09-00183 CAPD Question 1-150 Attachment 150-3

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	Nvmex	S C C N	Strip	2000	İ	•	τ-	7 158	7.452	10 136	13.001	14.07	11.47	11.579	8.363	7.284	7.17	7.337	5.955	5.988	6.779	6.815	4.401	7.448	8.011	6.195	6.999	7.676	7.438	7.598	7.637	6.915	5.993	5.468	6.384	7.225	7.494	7.081	
	ECON		Dummy	2000		. 12	1 5	i c	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
	UER	i nemvolament	rate	2000	•	12	12	6.4	8:4	44	4.4	4.6	4.3	4.7	4.7	4.6	4.4	4.3	4.9	4.7	4.5	3.9	4	4.1	3.8	4.4	4.3	4	3.6	3.7	3.9	3.8	3.6	3.9	4	4.4	4.3	4.6	П
	CPI	OPI South	Urban	2000	~	12	12	188.5	189.4	192	192.5	190.7	190.1	191.5	191.8	192.8	194.7	195.5	196.3	197.0	197.1	195.8	194.7	194.3	194.8	195.0	196.0	197.9	199.6	200.804	201.675	201.571	201.041	201.697	202.155	203.437	203.457	204.51	100
	RPGA		2	2000	_	12	12	0.661013952	0.657872914	0.813491563	1.217153143	1.228598715	1.053071394	1.149454089	1.012235193	1.00698501	0.899111233	0.895432005	1.029324147	0.907214772	0.90675449	0.912774821	0.917931741	0.789504272	0.787477823	0.773374713	0.76970814	0.762108447	0.806401497	0.801638682	0.798176541	0.774246613	0.776287742	0.773762941	0.722906953	0.718351406	0.758584526	0.749864222	1000
	PGA		Σ.	2000	~	12	12	0.7593	0.7593	0.9518	1.4278	1.42775	1.21992	1.34138	1.1831	1.1831	1.06677	1.06677	1.2313	1.0891	1.0891	1.0891	1.0891	0.9348	0.9348	0.9191	0.9191	0.9191	0.98094	0.98094	0.9809	0.9510	0.9510	0.9510	0.8906	0.8906	0.9405	0.9345	1,000
	CSAC	Com Avg UPC per	MRD	2000	_	12	12	5.56078	5.84938	5.64856	5.65728	7.96978	15.8665	23.0729	20.3387	20.5685	13.4605	7.88022	5.0888	4.77455	4.70412	4.6857	6.00494	10.0208	15.2814	15.9415	23.115	20.2243	10.3643	8.25938	5.71528	5.39866	5.61808	5.26498	6.14445	8.7717	15.6307	20.0004	C L C
	RSAC (	Avg (upc per		2000	<del></del>	12	12	0.4817	0.4807	0.4504	0.4807	1.147	3.2418	4.1387	3.5775	3.3829	1.8873	0.6997	0.5373	0.4425	0.4057	0.4222	0.7486	2.1113	3.1757	3.3888	5.027	3.0541	1.5185	0.8974	0.4788	0.4239	0.4012	0.3985	0.4615	1.4357	2.8587	3.7191	7 7 7 7
	Knot5580	Spline Knot	Base80	2000	<b>~</b>	12	12	315142.5	435553.5	435674.2	270450.7	61104.62	6220.333	205.4762	140.2381	4700.619	60019.38	31399.95	238175	382742.3	457758.5	364852.2	97,859	11,629	3,188	543	419	7,454	45,015	88,701	286,288	407,211	413,510	453,250	210600.4	32730.52	3333	82.80952	000 000
	Knot5572	Spline Knot Base	72	2000	~~	12	12	142399.9	151589.4	155590	135822	51575.33	6220.333	205.4762	140.2381	4700.619	52155.05	26773.1	116063.5	148813.5	152770.9	147587	73195.81	10523.14	3187.571	543	418.7143	7366.857	44183.14	72091.24	133096.8	151133.2	145284.4	160261.7	110068	22754.14	3333	82.80952	0000000
	Knot5565	Cubil Spline Spline Knot Base	Base65	2000	~	12	12	30776.143	30854.762	31669.048	29980.19	16863.19	3714.2857	205.47619	140.2381	2505.2381	18874.571	10134.905	27538.333	30571.429	31095.238	32269.429	23150.286	4623.3333	1443.5714	543	418.71429	3538	14598.238	21533.81	29831.619	30761.905	29571.429	33434.762	27085.333	8978.6667	3333	82.809524	202 04702
	SDD80MRD		SDD Per MRD	2000	~	12	12	4.123377	0.952381	1.205212	5.534148	18.217776	32.148115	37.208129	34.706845	32.211435	22.958651	14.833333	5.931677	0	0	0.197635	13.193462	25.62616	31.475875	32.625641	36.982786	27.422599	2.879394749	5.213213213	4.911298	1.471861	1.034705408	1.713395639	7.311016816	21.01576994	29.87385683	33.83003663	20 0744 0000
/ertical	~,							Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-08	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Ang-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	α ( 40 1

	Nvmex		Nxmex	Strip	2000	4-	. 12	1 2	9.523	11.011	11.858	12.956	9.155	9.523	7.625	6.259	6.561	5,957	4.49	4.13	3.969	3.29	3.53	3.851	3.506
	ź				8	<del></del>	. 21	7	0	0	0	0	0	0	0	0	<del></del>	<del>-</del>	_	_	_	_	_	_	_
	ECON		Recession	Dummy	2000		•	•																	
	UER		Unemployment	rate	2000	τ	12	12	4.5	5.2	9	5.9	9	5.0	9	6.2	7	80	8.7	σ	8.6	9.20	9.6	о О	<b>ω</b>
	CPI		CPI South	Urban	2000	_	12	12	208.085	210.006	212.324	213.304	214	212.65	210.108	205.559	203.501	204.288	205.343	206.001	206.657	207.265	209.343	208.819	208.819
	RPGA			፳	2000	<del></del>	12	12	0.773557392	0.766481386	0.940898532	0.929651765	0.926628224	0.808731719	0.818516192	0.836629873	0.800707299	0.79762265	0.751289555	0.700783258	0.595242363	0.593496254	0.587605036	0.56926222	0.56926222
	PGA			χ	2000	<del>-</del>	12	12	0.9809	0.9809	1.2174	1.2084	1.2084	1.048	1.048	1.048	0.99296	0.99296	0.94011	0.87972	0.74961	0.74961	0.74961	0.72621	0.72621
	CSAC	Com Avg	UPC per	MRD	2000	~	12	12	11.0702	7.79048	6.02668	5.53058	5.71459	5.69373	6.52536	10.4405	19.5159	20.3804	24.5813	19.1176	11.0151	7.59782	5.74284	5.11081	5.1921
	RSAC	Avg	upc per	MRD	2000	_	12	12	1.6883	0.8056	0.4815	0.4201	0.4127	0.4115	0.5538	1.895	3.7532	3.8708	4.5681	3.1013	1.7665	0.8249	0.4894	0.41	0.3999
	Knot5580	Spline	Knot	Base80	2000	~	12	12	15469.71	50949.48	261435.5	279327.5	393687.6	404565	132197	18655.24	431.2857	688.3333	167.5238	5141.762	226504.7	267756.6	241829.3	417905.4	427559.1
	Knot5572	Spline	Knot Base	72	2000	~	12	12	14900.81	47192.57	120245.1	127927.7	141502.3	164637	94454.05	16729.81	431.2857	688.3333	167.5238	5141.762	71517.47	107598.8	126846.4	148950	150957.3
	Knot5565 Knot5572 Knot5580	Cubil	Spline Knot Knot Base	Base65	2000	τ-	12	12	7744.4762	19444.286	28985.429	30652.095	28809.524	34494	25391.714	5148.619	431.28571	688.33333	167.52381	2477.2381	14997.571	24765.871	28715.619	30666,667	31000
	SDD80MRD K			SDD Per MRD	2000	~	12	12						2.959501558	10.40978296	24.99302001	35.70647931	35.17139755 (	38.65105386	30.457269	23.57692912	13.8316722	6.316939891	1.316891577 (	1.241167435
Vertical	~,								Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09