BEFORE THE PUBLIC SERVICE COMMISSION
STATE OF MISSOURI

FILED

AUG 1 8 2005

Missouri Public
Service Commission

In the Matter of the Petition of	)	
Alma Telephone Company	)	
for Arbitration of Unresolved	)	**Case No. IO-2005-0468, et al.**
Issues Pertaining to a Section 251(b)(5)	)	**(consolidated)**
Agreement with T-Mobile USA, Inc.	)	

Responses to
Second Discovery/Data Requests from Respondent T-Mobile USA, Inc., to Petitioners

Come now Petitioners and make the following responses to the T-Mobile USA, Inc. Data Requests of August 1, 2005:

1. On page 15, line 14, of his rebuttal testimony, Mr. Schoonmaker states that "Those bids continue to be developed on an individual switch basis based on the component pricing that was used for all switches in earlier years."

   a. Please provide copies of all bids (with full detail) to which Mr. Schoonmaker refers. The details should be adequate to determine the basis of the vendor's total engineered, furnished and installed (EF&I) bid price in terms of switch equipment components, quantities and unit prices after discounts, software, engineering, labor, etc. Please provide the date of the bid, manufacturer and switch model. Provide a copy of the request for quote indicating system size requirements, special requests, software capabilities, etc.

   b Please indicate whether any of the bids were made to one of the four ILECs in this arbitration.

Response:

In regard to item (b) none of the bids were for any of the four ILECs in this arbitration.

In response to item (a), the observations regarding component pricing made by the GVNW staff are based on evaluations of switch bids for several companies from different manufacturers. As indicated above, none of these bids involved the parties to this case. All of them are protected by non-disclosure agreements between the manufacturers and involved companies and are not available for disclosure in this proceeding.
In some cases, the same vendor bid two or three different switch configurations with prices on a per line basis varying over $100 per line, clearly indicating that the switches are being bid on something other than a per line basis.

Exhibit No. 17
Date 8/11/05 Case No. IO-2005-0468
Reporter SUM

2. On page 15, page 21, of his rebuttal testimony, Mr. Schoonmaker states that "I have recently confirmed with them that those bids continue to be based on component pricing for the individual switches." As in data request 1 above, please provide copies of all bids (with full detail) that were the basis of the confirmation by Mr. Schoonmaker. Provide the associated requests for quotes.

Response:

See response to Request #1. My confirmation was through verbal discussions with the engineers who were involved in evaluating the bids on the switches and not through specific review of any documents.

3 Please provide the complete citation and date of the FCC order referred to by Mr. Schoonmaker on line 5, page 16, of his rebuttal testimony.

Response:

As referenced in my testimony, the order is the Tenth Report and Order adopted in CC Docket # 96-45 and CC Docket #97-160 on October 21, 1999 and Released on November 2, 1999 (FCC 99-304).

4. In preparing the ILEC cost studies, were bids in response to requests for quotes or similar information obtained specifically for the ILECs in this arbitration? If so, please provide copies of all these bids and associated requests for quotes or similar information.

Response: No.

5. On page 19, line 8, of his rebuttal testimony, Mr. Schoonmaker states "The default input was, in my opinion, inappropriate, and I therefore increased the input amount."

a. Please provide the quantitative basis for drawing the opinion that the HAI default input producing a switching investment per line 45% below the ILEC embedded investment is inappropriate.

b Please provide the quantitative basis for increasing the HAI default for the *EO switching investment constant* by 25%.

Response:

a. The quantitative analysis discussed in my direct testimony (pages 18-21) and referenced in my rebuttal testimony in lines 6-8 was an analysis and comparison of the embedded investment of small Missouri telephone companies to the HAI results using the default inputs. This analysis excluded some of the small Missouri companies because the

embedded data would not have been comparable to the HAI data. As explained in the testimony, Chariton Valley's switch is leased and the embedded investment in COE switching thus is zero. For four other companies, the embedded data included investment data from other states in which those companies operate and thus was not comparable to the HAI data which only included the estimated Missouri operations of these companies. In total the embedded investment for the companies was $84.3 million while the HAI data for these companies showed $46.2 million or 45% less.

As described in my direct testimony, the determination that 45% less than embedded was an inappropriate result was based on my judgment relating to comparisons of the type of equipment represented by the embedded investment and the forward-looking investment contemplated by the model, which are similar. There was not specific quantitative analysis, other than the comparison with the embedded investment that determined that 45% was inappropriate.

b. The increase of the factor to the level used in my studies was also not quantitatively based at the "factor" level. Rather, I used an estimate and compared the results from the model with the embedded results for the same companies. With the revised value used, the HAI model results generated a COE switching investment for the small Missouri companies of $60.4 million in comparison to the $84.3 million embedded investment. As I indicated in my direct testimony this is still a model result that is 25% less than the embedded investment. I consider this a very conservative estimate of the forward-looking cost of these switches based on the comparison to the actual amount invested for the same type of equipment.

6. Please provide the empirical data and quantitative analysis forming the basis for the GVNW engineering staff observation "that while COE switch costs have declined somewhat for small ILECs, such reductions have been less than for the RBOCs." (Schoonmaker rebuttal, Page 19, line 14.) In providing the COE switch cost data distinguish hardware and software costs, and indicate the time period of all data.

Response:

The observation of the GVNW engineering staff that I reported are based on their general observations over time as they have evaluated switching costs including specific RFP observations, discussions with vendors, and industry materials regarding switching costs of large companies. We have no specific quantitative analysis that has been prepared demonstrating these observations.

7 Please provide the current accounting treatment applicable to the four ILECs for digital switching hardware and software expenditures (description of accounting for capital expenditures, operating expenses and intangibles).

Response:

a. In general the companies follow the directions of the FCC in Part 32 of their rules and associated FCC accounting pronouncements in capitalizing and expensing costs related to COE switching equipment. COE switching hardware and software is expected to be capitalized upon the initial purchase of the switch. Hardware additions to the switches are capitalized. Software upgrades are generally expensed, but for small companies may be capitalized under certain conditions where the software upgrade costs are significant.

8. Please provide the basis for the $686.54 and $700 per A-link payments referred to on lines 21 and 22, page 20 of Mr. Schoonmaker's rebuttal testimony. If these are rates paid to another carrier, please indicate the name of the carrier and provide a breakdown of the rate elements, tariff references, mileage, etc. necessary to derive the monthly payments. If the payments are ILEC costs, rather than rates paid to another carrier, please provide the documentation showing the full derivation of the costs, including but not limited to, plant and other resources, resource costs, capacities, utilization and unit cost derivation.

Response:

Invoices are attached from the three companies who purchase their A-Links from Missouri Network Alliance, a non-regulated network provider, in Missouri. The rates are a flat contracted rate and are not provided in any tariff. Mid-Missouri Telephone company purchases it's A-links from SBC Missouri. An invoice for a recent month for their A-links is also attached. SBC Missouri's tariffs are available on the Missouri Public Service Commission web site.

9. Please identify the charges from SBC referred to on page 21, line 6, of Mr. Schoonmaker's rebuttal testimony, and show the derivation of the charge. Provide relevant tariff references.

Response:

Attached is an invoice from SBC Missouri to Northeast Missouri Rural Telephone Company for [month, year] showing the charges that Northeast was paying to SBC Missouri prior to their purchasing their A-links from Missouri Network Alliance

10. Alma Telephone apparently has interoffice facilities from its single switch to the Southwestern Bell point of interconnection. Please provide the following information:

a. Route mileage from the Alma Telephone switch to the SWBT POI.
b. Type of transport system used for transport to the POI – manufacturer, system type, nominal bandwidth (DS0s) and equipped capacity.
c. Current number of total trunks (DS0s) in service and current percent utilization.
d. Cable type (e.g., buried fiber) and cable size (e.g. 8, 12, etc. fibers).
e. Current number of fibers in service working or for redundancy to working.
f. Please indicate whether the current transport system is considered to be the least cost, most efficient system size given Alma Telephone's forward-looking average utilization compared to smaller or larger systems. If a smaller system would be more efficient, please indicate the transport system size.

Response:

A: Alma Telephone Co. route miles to Interconnection Point with Citizens Telephone is 3.64 miles.

B: Optical Transport to the POI, capacity of FOXCR card is 49.152 Mbps
Manufacturer: AFC
System Type: UMC1000 Network Access Shelf, nominal bandwidth and equipped capacity is variable depending on types of transceiver cards installed.

C: 3 DS1's active to Citizens; 56 DS0's in service, utilize 100% usage of these trunks on a circular fashion.

D: 24 Fiber Buried Cable

E: 1 fiber is in service to Citizens, 1 is spared for redundancy. Fiber cable is along existing copper cable distribution routes, was sized to allow for excess fiber use in exchange cable upgrades at some time in the future.

F: Current transport system is considered to be the least cost and most efficient use of network resources. It is a multifunction shelf and for a smaller company like Alma, fits various network needs with one unit.

11. Chariton Valley apparently has a single interoffice ring connecting its switch nodes and an interoffice link connecting to SWBT's POI. Please provide the following information:

a. Type of transport system used for the single ring – manufacturer, system type, nominal bandwidth and equipped capacity.
b. Type of transport system used for transport to the POI – manufacturer, system type, nominal bandwidth and equipped capacity.
c. Current number of trunks (DS0s) in service on the ring and to the POI. Current percent utilization of each.
d. Confirmation of cable type and size – 28 and 32 fiber buried cable.
e. Current number of fibers in service working or for redundancy to working.

f. Please indicate whether the current transport system is considered to be the least cost, most efficient system size given the Company's forward-looking average utilization compared to smaller or larger systems. If a smaller system would be more efficient, please indicate the transport system size.

Response:

a. Chariton Valley does not have a ring, it has a Linear OC 12 meet with SBC.

b. Manufacturer is Lucent, System Type DDM2000, nominal bandwidth is OC12 and equipped capacity equals 5 STS1's equipped.

c. 120 trunks incoming from SBC plus 48 pending equaling 168 DSO; 24 outgoing to SBC, grand total equals 192 DSO's fully loaded.

d. 32 total fibers from Chariton Valley's switching center to the SBC meet point (POI).

e. 14 working fibers.

f. Yes, it is considered to be the least cost and most efficient.

12. Mid-Missouri apparently has two interoffice rings connecting its switch nodes and an interoffice link connecting to SWBT's POI. Please provide the following information:

a. Type of transport system used for the rings – manufacturer, system type, nominal bandwidth and equipped capacity.
b. Type of transport system used for transport to the POI – manufacturer, system type, nominal bandwidth and equipped capacity.
c. Current number of trunks (DS0s) in service on the rings and to the POI. Current percent utilization of each.
d. Cable type and size.
e. Current number of fibers in service working or for redundancy to working.

f. Please indicate whether the current transport systems are considered to be the least cost, most efficient system size given Mid-Missouri's forward-looking average utilization compared to smaller or larger systems. If a smaller system would be more efficient, please indicate the transport system size.

Response:

12 a The south ring uses a Lucent DDM-2000 OC-12 system. We are using 4 of the DS3's on the system which is capable of 12 DS3's or about 1/3 of the systems capacity. This covers High Point, Latham, Fortuna, Bunceton and Speed exchanges. The north ring uses a Lucent OC-12 system. We are using 3 of the DS3's on the system which is capable of 12 DS3's or about 1/4 of

the systems capacity. This covers Gilliam, Marshall Jct., Nelson, Arrow Rock, Blackwater. Miami connects to this ring through a radio link to Gilliam that is capable of 8 T1's that are cross connected to the north OC-12 ring at the Gilliam office. Pilot Grove has an OC-12 terminal in each of these rings only to allow T1's on and off the rings to be connected to our tandem switch or specials connections to the carriers. We have a POI with AT&T at another location in the Bunceton exchange. This rides the south OC-12 ring then jumps off at a T1 level at the Bunceton CO to an OC-1 ring to a building in the Bunceton exchange. Then rides copper cable for about 500 feet to an AT&T building where they carry it from that location. We are using 8 T1's on the OC-1 ring which is 8 of the 28 T1's that could be used on it. This is Lucents Fiberreach equipment. We are using 16 pairs out of the 50 pair copper cable going from our building to AT&T's building.

12 b Our connection to the POI is on a Lucent DDM-2000 OC-3 system. We are currently using about 62 T1's on the system capable of 84 T1's.

12 c 623 trunks to the SBC POI and 192 trunks to the AT&T POI. SBC POI is at 31% utilization this doesn't include any specials "data circuits that are being used on this route too" and AT&T POI is at 29% utilization. These are the interoffice trunks going to each remote. North ring Arrow Rock 72, Gilliam 96, Miami 48, Nelson 48, Marshall Jct. 72, Blackwater 96. The south ring Speed 120, Latham 72, High Point 72, Fortuna 144, Bunceton 168.

12 d I can send documents with the fiber sizes but this jumps to different cable sizes all over the place. There isn't a single cable of 1 specific size between each CO. This will be very confusing.

12 e 4 fibers working for each ring for redundancy.

12 f We can't go smaller. If anything the route between Pilot Grove to the SBC POI may need to grow. The answer to 12 c only shows trunks being used on this route not the special circuits being used on this route. We about 2/3 full on this route.

13. Northeast Missouri Rural apparently has a single interoffice ring connecting its switch nodes and an interoffice link connecting to SWBT's POI. Please provide the following information:

a Type of transport system used for the single ring – manufacturer, system type, nominal bandwidth and equipped capacity.
b. Type of transport system used for transport to the POI – manufacturer, system type, nominal bandwidth and equipped capacity.
c. Route mileage for each interoffice link, including the link to the SWBT POI.
c. Current number of trunks (DS0s) in service on the ring and to the POI. Current percent utilization of each.
d. Cable type and size.
e. Current number of fibers in service working or for redundancy to working.

f. Please indicate whether the current transport systems are considered to be the least cost, most efficient system size given Northeast Missouri Rural's forward-looking average utilization compared to smaller or larger systems. If a smaller system would be more efficient, please indicate the transport system size.

Response:

a Nortel TBM OC12.

b. Nortel TBM OC12.

c. See addendum 1.1a and 1.1b.

c Including 144 SBC trunks there are total of 828 DSO trunks from/to carriers

Utilization of each trunk is not currently recorded by Northeast, because the IXC's determine how many trunks they need.

d All transport is buried fiber optic varying in size. See addendum 1.1a and 1.1b.

e. See addendum 1.1a and 1.1b.

f When designing and constructing these systems Northeast Missouri Rural Telephone Co. consulted with Finley Engineering Co. of Lamar, MO to design the most cost effective, reliable and efficient systems possible. Also, since approval of RUS funding was to be sought, RUS also scrutinized the cost, size and utilization forecasts before approving these contracts.

14. Please indicate for each ILEC any differences with respect to the following cost drivers between the ILEC cost studies based on the HAI model and interoffice transport systems currently in-place:

a. Type of transport system (OC-3, OC-12, etc.)
b. Interoffice route mileage.
c. Cable size (fibers / cable).

RESPONSE:

For each of the ILECs, the actual information requested is provided in the responses to DR's 10-13.

In the HAI model:

a. The type of transport system, based on the model documentation, is an OC-3 system for all companies.

b. The forward-looking model assumption for interoffice mileages is that the individual offices will be routed to the nearest RBOC wire center. Individual exchange mileages to these offices as contained in the distance file used are as follows:

Alma	
ALMAMOXA	22
Chariton Valley	
ATLNMOXA	21
BCKLMOXA	6
BEVRMOXA	21
BSWOMOXA	11
BYVLMOXA	12
CALLMOXA	18
CLHLMOXA	13
DWTTMOXA	14
ETHLMOXA	17
EXCLMOXA	15
FRGRMOXA	7
HALEMOXA	18
HNVIMOXA	6
JCVLMOXA	13
NBTNMOXA	17
NWCMMOXA	11
PRHLMOXA	18
SLBRMOXA	12
Mid-Missouri	
ARRKMOXA	13
BCTNMOXA	13
BLWRMOXA	14
FTUNMOXA	10
GLLMMOXA	4
HGPNMOXA	10
LTHMMOXA	12
MIAMMOXA	12
MRJTMOXA	12
NLSNMOXA	13
PLGVMOXA	12
SPEDMOXA	9
Northeast Missouri	
ARBLMOXA	19
BOCKMOXA	12
GNCYMOXA	21
LMNSMOXA	29
LURYMOXA	25
MMPHMOXA	11
MRTWMOXA	15
NVNGMOXA	8

OMAHMOXA	15
PLLCMOXA	29
QNCYMOXA	8
TBCKMOXA	11
UNVLMOXA	25
WNGNMOXA	20

c. The material cost of fiber used for interoffice investment is $3.50 per foot which is identical to the material cost for fiber feeder of a 24 fiber cable. It is therefore presumed that the interoffice investment assumes a 24 fiber cable.

ANDERECK, EVANS, MILNE, PEACE & JOHNSON, L.L.C.

By /s/ Craig S. Johnson
Craig S. Johnson MO Bar No. 28179
The Col. Darwin Marmaduke House
700 East Capitol
P.O. Box 1438
Jefferson City, MO 65102-1438
Telephone: (573) 634-3422
Fax: (573) 634-7822
Email: CJohnson@aempb.com

ATTORNEY FOR PETITIONERS

CERTIFICATE OF SERVICE

The undersigned does hereby certify that a true and accurate copy of the foregoing was emailed this 8th day of August, 2005, to the following representatives of Respondent:

Mark P. Johnson
Trina R. LeRiche
Sonnenschein Nath & Rosenthal LLP
4520 Main Street, Suite 1100
Kansas City, Mo 64111
Email: mjohnson@sonnenschein.com
Email: tleriche@sonnenschein.com

/s/ Craig S. Johnson
Attorney for Petitioner

remit to:

INVOICE

Missouri Network Alliance, LLC
9200 Ward Parkway Suite 601 Kansas City, MO 64114-

InvoiceNo: **1560**

Due: **Net 30**

Alma Telephone Company
Attn: Andy Heins
P.O. Box 127
Alma, MO 64001

Billing Account Code: **ALMSS7**

Invoice Date **08/01/2005**

Invoice For Month Of: **August**

Circuit	ALMA01-DS-1-03147-01-KCBB01				
Serv	*Month*	*Description*	*UnitRate*	*Units:*	*Amount*
	Aug	ICB Individual Case Basis	$686 54	1	$686 54

A Location: 1081/2 S RailRoad : Alma MO 64001 Z Location: 1102 Grand Av 1100: Kansas City MO 64106

Purchase Order Number SS7 T1 #1 Origin Date: 7/24/2003 *Circuit Total:* $686 54

Circuit	ALMA01-DS-1-03147-01-WRBG01				
Serv	*Month*	*Description*	*UnitRate*	*Units:*	*Amount*
	Aug	ICB Individual Case Basis	$686 54	1	$686 54

A Location: 1081/2 S RailRoad : Alma MO 64001 Z Location: 210 E Market ST : Warrensburg MO 64093

Purchase Order Number SS7 T1 #2 Origin Date: 7/24/2003 *Circuit Total:* $686 54

INVOICE TOTAL: $1,373 08

Missouri Network Alliance, LLC
9200 Ward Parkway, Suite 601
Kansas City, MO 64114

Chariton Valley Telephone Corporation
Attn: Accounting
109 Butler ST
Macon, MO 63552-

BAN	CVSS7
INVOICE NUM	1513
INVOICE DAT	07/01/2005
DUE DATE	NET 30
SERVICE DAT	July 2005

ACCOUNT SUMMARY

PREVIOUS BALANCE	$1,843.58	
PAYMENTS	$1,843.58	
BALANCE PAST DUE		$0.00
CURRENT CHARGES		$1,843.58
TOTAL AMOUNT DUE		$1,843.58

REMOVE AND RETURN THE LOWER SECTION WITH YOUR PAYMENT. THANK YOU

SEND PAYMENTS TO:
Missouri Network Alliance, LLC
9200 Ward Parkway, Suite 601
Kansas City, MO 64114

AMOUNT PAID

Chariton Valley Telephone Corporation
Attn: Accounting
109 Butler ST
Macon, MO 63552

Invoice Numbe	1513
Invoice Date	07/01/2005
BAN	CVSS7

remit to:

INVOICE

Missouri Network Alliance, LLC
9200 Ward Parkway Suite 601 Kansas City, MO 64114-

InvoiceNo: **1513**

Due: **Net 30**

Charlton Valley Telephone Corporation
Attn: Accounting
109 Butler ST
Macon, MO 63552

Billing Account Code: **CVSS7**

Invoice Date **07/01/2005**

Invoice For Month Of: **July**

SS7 Link CVTC 686 54

Circuit	HNVI01-DS-1-03155-01-KCBB01				
Serv. Month	*Description*		*UnitRate*	*Units:*	*Amount*
Jul	ICB	Individual Case Basis	$686.54	1	$686.54

A Location: 1 Oak & Depot St : Huntsville, MO 65259 Z Location: 1102 Grand Av 1100: Kansas City, MO 64106

Purchase Order Number: SS7 T1 #1 Origin Date: 09/25/2003 *Circuit Total:* $686.54

Circuit	HNVI01-DS-1-03155-01-WRBG01				
Serv. Month	*Description*		*UnitRate*	*Units:*	*Amount*
Jul	ICB	Individual Case Basis	$686.54	1	$686.54
Jul	ISUP-Add	Additional ISUP routes	$150.00	1	$150.00
Jul	STP-PORT	STP Port Charge	$320.50	1	$320.50

SS7 Link CVTC $836 54

A Location: 1 Oak & Depot St : Huntsville, MO 65259 Z Location: 210 E Market ST : Warrensburg, MO 64093

Purchase Order Number: SS7 T1 #2 Origin Date: 09/25/2003 *Circuit Total:* $1,157.04

CVOS/CVCC $320 50

INVOICE TOTAL: **$1,843.58**

MISSOURI MID MISSOURI TEL CO 1917
JULY 7, 2005 DETAIL CHARGE REPORT PAGE 4

EFFECT DATE	NUMBER	DESCRIPTION	DUE ILEC/CLEC NON-RECUR	DUE ILEC/CLEC RECUR	DUE SBC NON-RECUR	DUE SBC RECUR
		SS7 INTERCONNECTION				
070197	SS7RLINK	RECURRING LINK CHG	.00	.00	.00	1,447.50
		TOTAL	.00	.00	.00	1,447.50
		CLEARINGHOUSE SETTLEMENTS				

IBIS BILL

Account Number: 314-MIS-1931-IM

Date: May 7, 2003

To Call Our Business Office, Dial: (512) 870-1523

- Bill Summary -

Balance Due From Previous Month:	$2,658.25
Payments:	$2,658.25
Unpaid Balance:	$0.00
Current Charges:	$2,602.96
Adjustments:	$0.00
Total Amount Due:	**$2,602.96**

Description of Adjustments:

Detach and Mail Lower Portion With Your Payment:

314-MIS-1931-IM
May 7, 2003

Due Date: 06/06/2003

Please write your account number in the memo field of your check.

- Amount Due -

$2,602.96

- Amount Paid -

$2,602.96

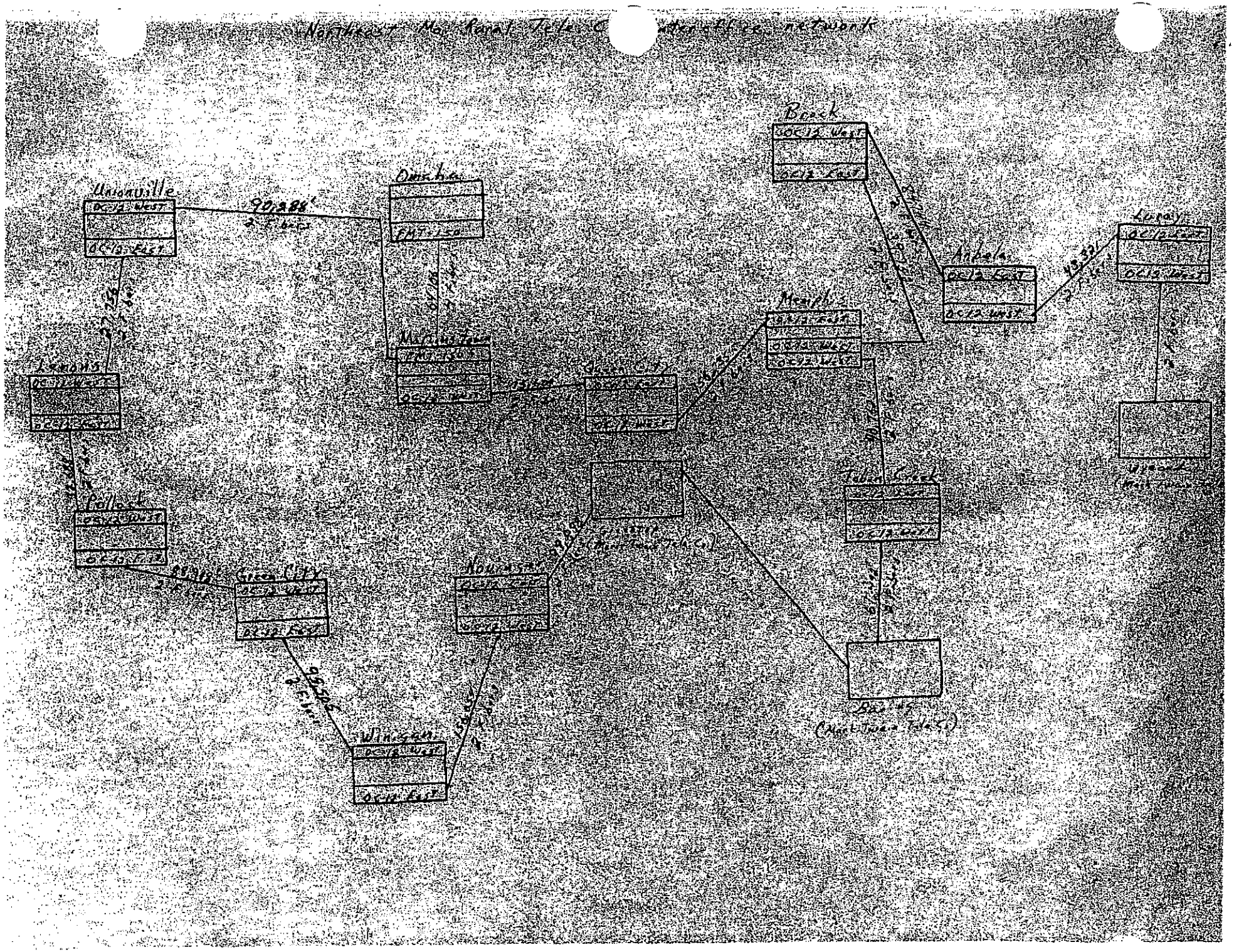
Return This Page To: P.O. Box 650516
Dallas, TX 75265-0516

NORTHEAST MO TEL COMPANY
PO BOX 98
GREEN CITY, MO 63545

Make Checks Payable To:
SBC Communications Inc.

Exchange Service	5260.00	$	-
Access	5082.01	$	(0.05)
	5082.02	$	(1.38)
	5082.05	$	(4.24)
	5082.06	$	(0.72)
	5082.07	$	(0.99)
	5082.08	$	(0.36)
	5084.01	$	(0.10)
	5084.02	$	(26.42)
	5084.05	$	(3.28)
	5084.07	$	(2.33)
	5084.08	$	(3.80)
Misc	5100.01	$	136.02
800 Data Base Query	6212.06	$	344.17
SS7	6532.00	$	1,490.88
OP Service	6621.01	$	139.79
DA	6621.02	$	535.77
Recording	6621.04	$	-
Total:		$	2,602.96

EFFECT DATE	NUMBER	DESCRIPTION		DUE ILEC/CLEC NON-RECUR	DUE ILEC/CLEC RECUR	DUE SBC NON-RECUR	DUE SBC RECUR
		FG-A REV DISTRIBUTION (REF: AG627-XXX)					
050703	S FGA	FGA INTER LTF	P	.99	.00	.00	.00
		TOTAL		43.67	.00	.00	.00
		800 NPAS QUERY CHARGE (REF: AG625-019)					
050703	S QUERY CHRG	800 SIMPLE		.00	.00	322.70	.00
050703	S QUERY CHRG	POTS SIMPLE		.00	.00	1.06	.00
050703	S QUERY CHRG	800 COMPLEX		.00	.00	20.41	.00
		TOTAL		.00	.00	344.17	.00
		SS7 INTERCONNECTION					
070197	SS7RLINK	RECURRING LINK CHG		.00	.00	.00	1,490.88
		TOTAL		.00	.00	.00	1,490.88
BILL TOTALS CURRENT MONTH				43.67	.00	1,155.75	1,490.88


Northwest Mo. Rural Tele. Cooperative network
Unionville
OC-12 West
OC-12 East
90.288'
Ducha
CM-1250
Macon Tower
OC-12 West
OC-12 East
Queen City
OC-12 West
OC-12 East
Kirksville
OC-12 West
OC-12 East
Pollock
OC-12 West
OC-12 East
Green City
OC-12 West
OC-12 East
Novinger
OC-12 West
OC-12 East
Winigan
OC-12 West
OC-12 East
Brock
OC-12 West
OC-12 East
Memphis
OC-12 East
OC-12 West
OC-12 East
Anhalt
OC-12 East
OC-12 West
Luray
OC-12 East
OC-12 West
Tulon Creek
OC-12 East
OC-12 West
Bus
(Mast Tower Telco)
(Mast Tower Telco)

Northeast Mo. Rural Tele Co. [illegible] network