On October 29, 1991, the undersigned and Albert F. Crider, a longtime employee of this firm, drove the Jules Cohen & Associates' field car to a clear location, free of power lines and trees, approximately 29 miles north of Richmond, Virginia, where it was possible to measure under stable conditions the field strength of station WTVR-TV, channel 6, Richmond.

This firm's field car is equipped for FM and TV measurements with a pneumatically operated 30-foot telescoping mast, a Potomac Instruments model FIM-71 VHF Field Strength Meter (Serial No. 231), a Soltec chart recorder, a color monitor receiver and other supporting equipment employed for field strength surveys. The FIM-71 field strength meter was completely calibrated by the manufacturer on September 21, 1988, but has been compared with other more recently calibrated instruments on several occasions since that date.

The undersigned verified that the dipole element lengths of the antenna used for the KREZ-TV had been correctly set in the field. After calibration of the FIM-71 meter and the Soltec chart recorder in accordance with the manufacturers' instructions, and after accounting for the attenuation of the antenna cable, the Potomac Instruments calibrated dipole was raised to a height of 30 feet above ground and oriented for maximum WTVR-TV signal strength. Maximum signal strength was found to correspond to correct orientation with respect to the WTVR-TV transmitting site. Both timed measurements at a single location and 100-foot mobile runs were recorded and the channel 6 median field strength determined. Then the Potomac Instruments antenna was replaced by the RCA dipole used to measure KREZ-TV. The RCA antenna was raised to 30 feet above ground and timed and mobile measurements were repeated and recorded. The antenna factor for

the RCA dipole was then determined and found to be in good agreement with a calibration chart for the same model antenna owned by this firm.

Finally, the attenuation of the antenna cable used to measure KREZ-TV field strength, and the output voltage of the Wavetek calibration oscillator were independently measured using the FIM-71 field strength meter, minor differences were accounted for and the appropriate factor determined for conversion of the KREZ-TV voltage measurements to field strength. Applying the conversion factor, the field strength tabulations contained in Figure 2 were developed from the log sheets used in the field.

Acknowledgements

The undersigned acknowledges with appreciation the cooperation and assistance provided by Mr. Charles Amy, chief engineer of KOAT-TV, and the contributions of Messrs. Mandich and Johnson, who made the KREZ-TV measurements, and Albert Crider, who assisted in the calibration procedure.

William C. King, Jr.

William C. King, Jr., P.E.

November 20, 1991

Attachment A

DOCUMENT OFF-LINE

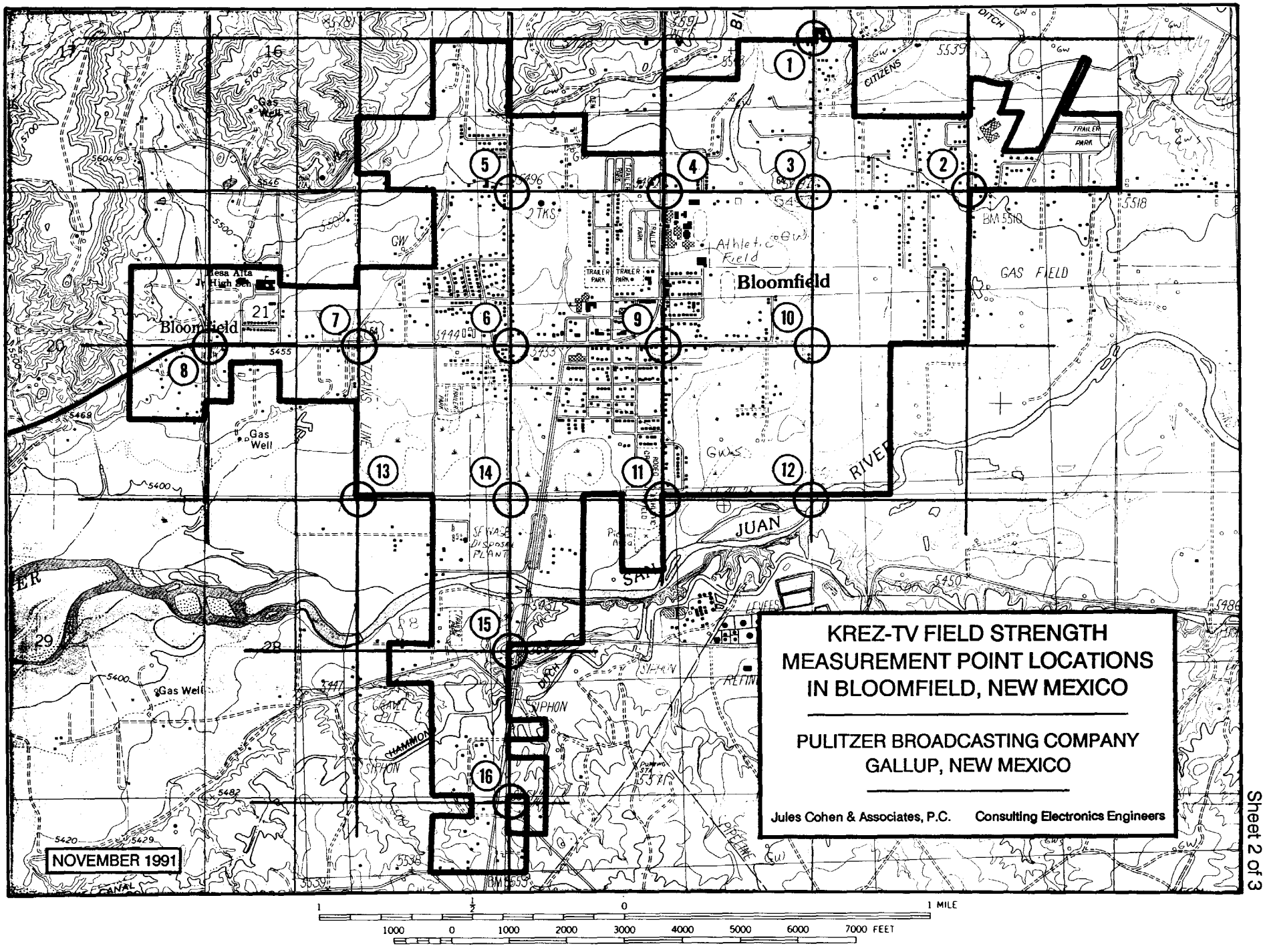
This page has been substituted for one of the following:

o An oversize page or document (such as a map) which was too large to be scanned into the RIPS system.

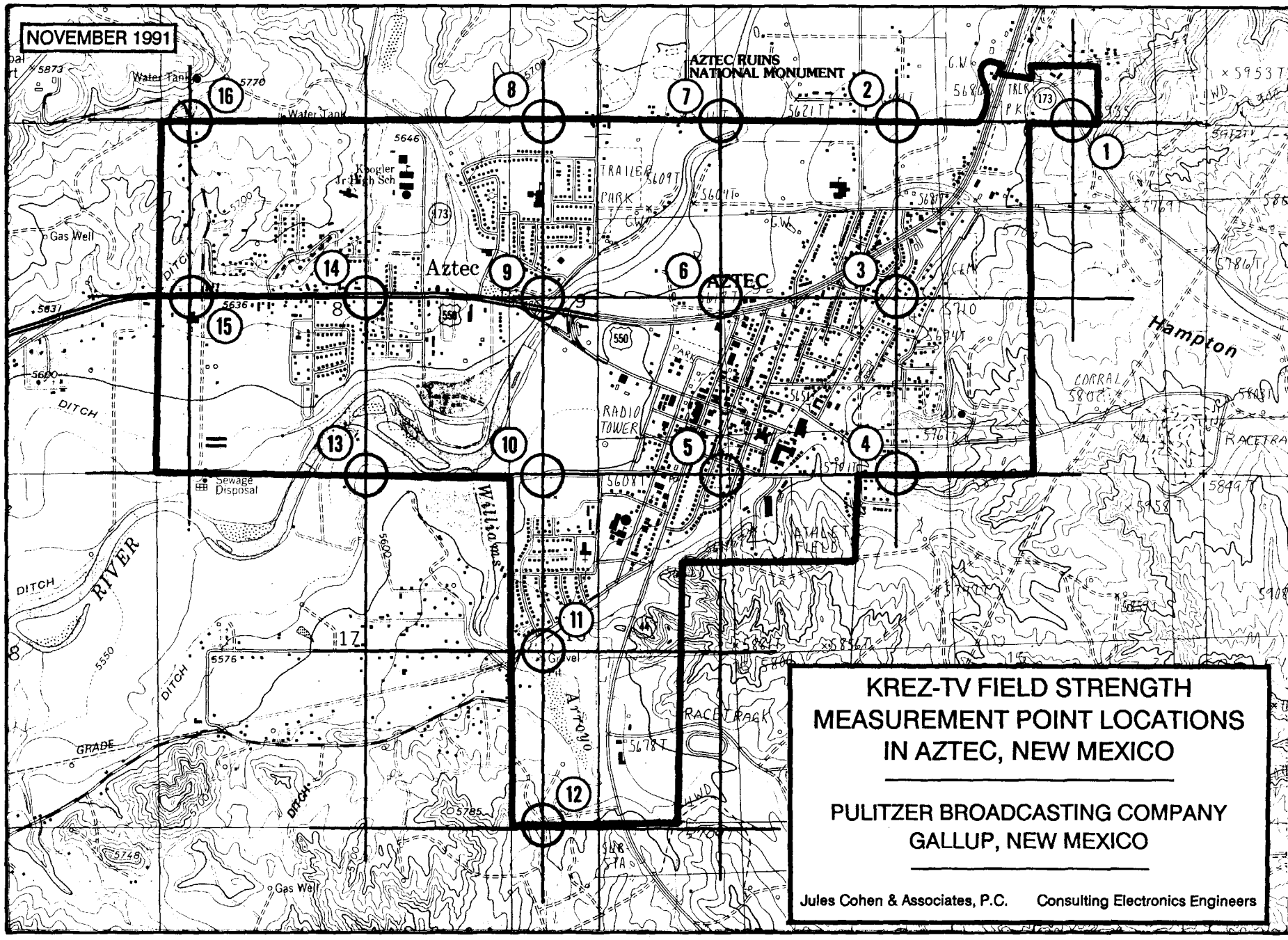
o Microfilm, microform, certain photographs or videotape.

o Other materials which, for one reason or another, could not be scanned into the RIPS system.

The actual document, page(s) or materials may be reviewed by contacting a Dockets Clerk. Please note the applicable docket or rulemaking number, document type and any other relevant information about the document in order to ensure speedy retrieval by the Dockets Clerk.



Appendix
Figure 1
Sheet 2 of 3



KREZ-TV FIELD STRENGTH MEASUREMENT POINT LOCATIONS IN AZTEC, NEW MEXICO

PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO

Jules Cohen & Associates, P.C. Consulting Electronics Engineers

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Appendix
Figure 1
Sheet 3 of 3

ENGINEERING EXHIBIT
IN SUPPORT OF PETITION FOR RULE MAKING TO AMEND THE TELEVISION TABLE OF ALLOTMENTS PREPARED ON BEHALF OF PULITZER BROADCASTING COMPANY GALLUP, NEW MEXICO

Tabulation of Measured Field Strength
From Station KREZ-TV, Durango, Colorado
In Farmington, New Mexico

Point No.	Ground Elevation (ft. AMSL)	Date & Time (local)	Measured Field Strength A (dBu)	B (dBu)	C (dBu)	D (dBu)	E (dBu)	Min. (dBu)	Max. (dBu)	Med. (dBu)
		10/10/91[1]								
1	5550	0845	38.7	38.7	38.7	39.7	38.7	38.7	39.7	38.7
2	5470	0915	38.7	39.7	<38.7	<38.7	<38.7	<38.7	39.7	<38.7
3	5260	0940	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
4	5270	1000	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
5	5360	1030	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
6	5380	1050	<38.7	<38.7	<38.7	38.7	38.7	<38.7	38.7	<38.7
7	5490	1115	44.7	46.7	46.7	48.7	52.7	44.7	52.7	46.7
8	5495	1140	53.7	45.7	48.7	52.7	50.7	45.7	53.7	50.7
9	5700	1205	45.7	43.7	45.7	42.7	44.7	42.7	45.7	44.7
10	5620	1345	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
11	5650	1412	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
12	5600	1446	39.7	38.7	<38.7	<38.7	38.7	<38.7	39.7	38.7
13	5440	1537	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
14	5740	1514	38.7	38.7	39.7	39.7	40.7	38.7	40.7	39.7
15	5620	1555	48.7	46.7	44.7	44.7	<38.7	<38.7	48.7	44.7
16	5370	1610	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
17	5370	1640	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
18	5415	1655	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
19	5290	1712	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
20	5320	1720	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
									Median:	<38.7

[1] Weather: sunny and clear. Wind: calm.

ENGINEERING EXHIBIT
IN SUPPORT OF PETITION FOR RULE MAKING TO AMEND
THE TELEVISION TABLE OF ALLOTMENTS
PREPARED ON BEHALF OF
PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO

Tabulation of Measured Field Strength
From Station KREZ-TV, Durango, Colorado
In Bloomfield, New Mexico

Point No.	Ground Elevation (ft. AMSL)	Date & Time (local)	Measured Field Strength A (dBu)	B (dBu)	C (dBu)	D (dBu)	E (dBu)	Min. (dBu)	Max. (dBu)	Med. (dBu)
		10/09/91[1]								
1	5530	1350	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
2	5505	1410	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
3	5490	---	41.7	43.7	48.7	42.7	41.7	41.7	48.7	42.7
4	5490	1450	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
5	5500	1510	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
6	5445	1530	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
7	5440	1545	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
8	5440	1605	<38.7	39.7	<38.7	<38.7	38.7	<38.7	39.7	<38.7
9	5460	1630	40.7	42.7	38.7	39.7	39.7	38.7	42.7	39.7
10	5460	1646	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
11	5420	1710	44.7	42.7	42.7	43.7	41.7	41.7	44.7	42.7
12	5420	1730	38.7	<38.7	<38.7	38.7	38.7	<38.7	38.7	<38.7
		10/10/91[2]								
13	5410	1740	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
14	5418	1745	40.7	39.7	39.7	40.7	40.7	39.7	40.7	40.7
15	5480	1755	54.7	55.7	54.2	54.7	52.7	52.7	55.7	54.7
16	5560	---	50.7	47.7	46.2	<38.7	<38.7	<38.7	50.7	46.2
									Median:	<38.7

[1] Weather: clear. Wind: calm.

[2] Weather: sunny and clear. Wind: calm.

ENGINEERING EXHIBIT
IN SUPPORT OF PETITION FOR RULE MAKING TO AMEND THE TELEVISION TABLE OF ALLOTMENTS PREPARED ON BEHALF OF PULITZER BROADCASTING COMPANY GALLUP, NEW MEXICO

Tabulation of Measured Field Strength
From Station KREZ-TV, Durango, Colorado
In Aztec, New Mexico

Point No.	Ground Elevation (ft. AMSL)	Date & Time (local)	Measured Field Strength A (dBu)	B (dBu)	C (dBu)	D (dBu)	E (dBu)	Min. (dBu)	Max. (dBu)	Med. (dBu)
		10/08/91[1]								
1	5450	1300	48.7	48.2	46.7	44.7	46.7	44.7	48.7	46.7
2	5465	1430	46.7	44.7	42.7	47.7	46.7	42.7	47.7	46.7
3	5670	1501	47.2	48.7	49.7	40.7	46.7	40.7	49.7	47.2
4	5720	1550	50.7	47.7	50.7	43.7	47.7	43.7	50.7	47.7
5	5650	1620	44.7	46.7	44.7	42.7	47.7	42.7	47.7	44.7
6	5618	1650	57.7	56.7	58.7	58.7	57.7	56.7	58.7	57.7
7	5615	1710	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
		10/09/91[2]								
8	5640	0900	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
		10/08/91[1]								
9	5600	1740	45.7	43.7	44.7	42.7	45.7	42.7	45.7	44.7
		10/09/91[2]								
10	5600	0935	48.7	49.7	49.7	47.7	48.7	47.7	49.7	48.7
11	5640	1000	56.7	56.7	57.7	56.2	50.7	50.7	57.7	56.7
12	5700	1030	50.7	47.7	47.7	49.7	48.7	47.7	50.7	48.7
13	5580	1115	46.7	<38.7	43.7	41.7	43.7	41.7	46.7	43.7
14	5625	1148	<38.7	<38.7	38.7	38.7	38.7	<38.7	38.7	38.7
15	5630	1205	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7	<38.7
16	5760	1225	39.7	<38.7	38.7	<38.7	<38.7	<38.7	39.7	<38.7
									Median:	45.8

[1] Weather: sunny and clear.

[2] Weather: partly cloudy - high thin clouds - to clear. Wind: calm.

Exhibit B

Statistical Profile Charts for
McKinley County and San Juan County, New Mexico

Prepared by:

Brian McDonald
Director, Bureau of Business and Economic Research
University of New Mexico

COUNTY NAME: MCKINLEY

YEAR	AVERAGE HOUSEHOLD SIZE	TOTAL POPULATION	CIVILIAN LABOR FORCE	HOUSEHOLD BASED EMPLOYMENT	NUMBER UNEMPLOYED	NONAGRICULTURAL WAGE & SALARY EMPLOYMENT BY ESTABLISHMENT: MANUFACTURING	MINING	CONSTRUCTION	TCU*	TRADE	FIRE*	SERVICES	GOVERNMENT	TOTAL	UNEMPLOYMENT RATE (%)	PER CAPITA INCOME
60	4.53	37,100	12,842	12,076	(1)	315	2,862	643	773	1,760	134	894	2,884	10,265	6.0	1,169
61		38,100	12,637	11,751	(1)	304	2,624	415	795	1,766	147	1,016	2,913	9,980	6.5	1,239
62		39,000	13,027	12,164	(1)	290	2,521	392	817	1,861	170	1,216	3,161	10,428	6.6	1,310
63		39,500	13,453	12,562	(1)	258	1,884	708	817	1,984	176	1,431	3,575	10,833	6.6	1,346
64		40,300	13,127	12,149	(1)	270	1,556	560	816	2,021	176	1,440	3,652	10,491	7.5	1,381
65		41,000	13,046	12,236	(1)	306	1,397	583	810	2,102	196	1,408	3,830	10,633	6.2	1,417
66		40,200	12,498	11,694	(1)	340	1,363	370	828	2,117	200	1,557	3,447	10,222	6.4	1,569
67		41,100	13,139	12,326	(1)	327	1,641	430	858	2,243	215	1,810	3,344	10,868	6.2	1,695
68		42,500	14,068	13,035	(1)	373	1,988	344	871	2,232	239	1,980	3,546	11,573	7.3	1,829
69		43,000	14,656	13,750	(1)	467	2,186	332	894	2,280	266	2,230	3,624	12,257	6.2	2,138
70	4.41	43,200	12,443	11,388	1,055	558	2,152	422	909	2,368	230	2,149	3,684	12,472	8.5	2,298
71		44,600	12,714	11,636	1,078	633	1,982	406	968	2,560	233	2,271	3,697	12,750	8.5	2,430
72		46,600	12,953	11,923	1,030	813	1,671	393	1,030	2,844	288	2,269	3,810	13,118	8.0	2,660
73		47,200	13,706	12,644	1,062	644	1,343	456	1,086	3,187	313	2,450	4,086	13,563	7.7	2,881
74		47,800	14,108	13,083	1,025	1,049	1,945	530	1,042	3,499	328	1,787	4,197	14,378	7.3	3,480
75		50,000	15,559	14,436	1,123	1,209	2,572	724	994	3,553	359	2,081	4,415	15,907	7.2	3,951
76		53,500	16,952	15,686	1,266	1,222	3,558	850	1,062	3,822	328	2,084	4,506	17,433	7.5	4,169
77		54,200	19,114	17,851	1,263	1,147	4,380	762	1,057	3,725	335	3,246	4,541	19,208	6.6	4,780
78		55,100	21,195	20,053	1,142	1,059	5,125	1,046	1,036	3,942	350	4,429	4,599	21,588	5.4	5,449
79		57,600	20,657	19,298	1,359	1,047	5,496	1,073	1,057	4,088	383	3,307	4,701	21,157	6.6	5,808
80	3.73	56,000	18,559	17,172	1,387	859	4,685	778	982	4,024	367	3,106	4,785	19,645	7.5	6,135
81		58,900	18,490	16,724	1,766	861	3,667	957	1,028	3,974	389	2,948	4,860	18,694	9.6	6,498
82		60,500	18,023	15,760	2,263	742	2,727	928	896	4,026	370	2,319	4,698	16,905	12.6	6,528
83		61,700	17,407	14,695	2,712	878	1,652	546	801	3,866	363	2,375	5,000	15,470	15.6	6,522
84		63,000	16,917	15,147	1,770	856	1,472	714	769	3,999	392	2,588	4,988	15,718	10.5	6,806
85		64,300	16,862	14,575	2,287	848	1,105	656	766	3,977	403	2,651	5,013	15,418	13.6	6,960
86			17,275	14,980	2,296	886	876	637	711	4,302	398	2,629	4,978	15,417	13.3	7,116
87			17,586	15,292	2,294	836	792	674	629	4,702	393	2,675	5,104	15,804	13.0	7,292
88			17,909	15,794	2,115	913	811	610	637	5,088	366	2,918	5,263	16,631	11.8	7,712
89			17,937	16,266	1,671	1,110	785	560	766	5,219	398	3,059	5,238	17,135	9.3	8,156
90	3.51	60,686	18,359	16,621	1,738	959	787	563	867	5,430	387	3,342	5,251	17,606	9.5	

*-TCU is Transportation, Communication & Public Utilities.
*-FIRE is Finance, Insurance & Real Estate.

10/91

COUNTY NAME: SAN JUAN

YEAR	AVERAGE HOUSEHOLD SIZE	TOTAL POPULATION	CIVILIAN LABOR FORCE	HOUSEHOLD BASED EMPLOYMENT	NUMBER UNEMPLOYED	NONAGRICULTURAL WAGE & SALARY EMPLOYMENT BY ESTABLISHMENT: MANUFACTURING	MINING	CONSTRUCTION	TCU*	TRADE	FIRE*	SERVICES	GOVERNMENT	TOTAL	UNEMPLOYMENT RATE (%)	PER CAPITA INCOME
60	4.08	53,300	15,216	14,209	(1)	434	2,369	1,460	1,845	2,268	314	1,468	1,136	11,294	6.6	1,612
61		54,000	16,060	15,158	(1)	448	2,228	1,722	1,768	2,189	298	2,037	1,402	12,072	5.6	1,621
62		54,600	16,186	15,251	(1)	450	2,161	1,779	1,682	2,194	291	1,849	1,869	12,266	5.8	1,630
63		51,200	15,256	14,324	(1)	428	1,832	1,354	1,668	2,160	308	1,890	1,930	11,570	6.1	1,744
64		50,000	14,440	13,581	(1)	342	1,771	950	1,634	2,132	287	1,892	1,934	10,982	5.9	1,857
65		49,200	13,916	13,201	(1)	334	1,637	874	1,659	2,071	296	1,800	2,044	10,765	5.1	1,971
66		50,100	15,607	14,863	(1)	794	1,610	1,204	1,790	2,190	315	1,789	2,646	12,338	4.8	1,986
67		51,400	16,386	15,615	(1)	898	1,420	1,484	1,816	2,325	336	1,924	2,893	13,095	4.7	2,038
68		51,400	16,863	15,949	(1)	1,059	1,421	1,646	1,766	2,354	333	1,952	2,939	13,469	5.4	2,266
69		52,300	17,928	16,946	(1)	1,681	1,389	1,741	1,862	2,554	352	1,954	2,886	14,419	5.4	2,533
70	3.94	52,500	16,733	14,773	1,960	1,483	1,303	1,205	1,858	2,621	340	1,925	3,043	13,728	11.7	2,560
71		53,900	17,989	16,005	1,984	1,319	1,410	1,669	1,875	2,889	366	2,183	3,186	14,897	11.0	2,958
72		56,700	19,464	17,305	2,149	1,288	1,511	1,974	1,914	3,175	403	2,666	3,330	15,260	11.0	3,292
73		58,800	21,114	18,848	2,266	1,754	1,803	1,943	2,015	3,596	438	2,787	3,439	17,774	10.7	3,729
74		61,300	22,500	20,084	2,416	1,608	2,057	2,488	2,186	3,833	528	2,663	3,581	18,938	10.7	4,352
75		64,700	25,131	22,055	3,076	923	2,304	2,870	2,326	4,353	582	3,856	3,675	20,889	12.2	4,795
76		68,300	26,388	23,719	2,669	925	2,156	3,289	2,530	4,666	667	4,159	3,799	22,190	10.1	5,412
77		71,700	32,027	29,726	2,301	1,137	2,558	4,676	2,815	5,269	724	5,735	4,167	27,078	7.2	6,281
78		75,700	36,028	33,848	2,180	1,469	2,989	4,820	3,230	5,621	786	7,318	4,458	30,690	5.1	7,059
79		79,400	35,499	32,772	2,727	1,614	3,306	4,229	3,550	5,718	826	6,302	4,660	30,196	7.7	7,425
80	3.03	81,500	34,491	31,954	2,537	1,325	4,276	4,933	3,654	5,741	831	6,031	4,814	31,334	7.4	8,288
81		86,600	36,820	34,074	2,746	1,510	5,060	5,064	3,950	6,060	872	5,967	4,949	33,422	7.5	9,259
82		89,400	36,087	31,891	4,146	1,499	4,345	4,075	4,164	6,119	836	5,025	5,012	31,076	11.5	9,313
83		90,900	34,298	28,786	5,512	1,181	3,799	3,028	4,016	5,876	833	5,083	4,867	28,683	16.1	8,904
84		91,300	33,635	29,301	4,334	1,240	3,902	2,482	4,038	6,153	865	5,020	5,031	28,731	12.9	9,138
85		91,510	34,722	29,953	4,769	1,426	4,183	2,258	4,129	6,477	867	5,492	5,296	30,118	13.7	9,765
86			35,606	29,899	5,706	1,141	3,328	2,306	3,910	6,569	832	5,561	5,427	29,074	16.0	9,728
87			33,959	28,624	5,335	902	2,769	2,009	3,808	6,298	827	5,218	5,669	27,500	15.7	9,742
88			33,264	29,226	4,038	1,014	2,866	2,083	3,629	6,339	797	5,691	5,961	28,380	12.1	10,563
89			34,410	30,913	3,497	991	2,331	2,258	3,431	6,923	893	6,414	6,238	29,979	10.2	11,708
90	3.16	91,606	34,429	31,395	3,034	1,137	3,818	2,300	3,322	7,410	964	6,763	6,386	32,100	8.8	

*-TCU is Transportation, Communication & Public Utilities.
*-FIRE is Finance, Insurance & Real Estate.

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