

LAND MOBILE INTERFERENCE ANALYSIS  
LPTV STATION K14QN-D  
BIG SPRING, TEXAS  
CHANNEL 14 0.10 KW (H-ONLY) 796.5 M AMSL

This report was prepared on behalf of LPTV station K14QN-D, Big Spring, TX, in regard to its authorized construction permit facility on Channel 14.\* The construction permit facility is authorized with a maximum directional horizontally polarized effective radiated power (ERP) of 0.10 kW with an antenna height of 6 m AGL (796.5 m AMSL). A full-service emission mask is specified. This analysis was based on the facility authorized in the K14QN-D construction permit.

Channel 14 is immediately adjacent to the 460-470 MHz land mobile (LM) band. This report provides the results of an interference analysis regarding LM receive facilities that are authorized for operation in the adjacent LM band. The analysis is based on the FCC's master frequency database.

The LM interference analysis results are based on the installation of a full-service emission mask, which, given the low maximum effective radiated power of 0.10 kW, is sufficient to provide the required protection to LM services in the 460-470 kHz band.

Protection of Land Mobile Facilities

An analysis was conducted of LM facilities in the 460-470 MHz LM band that could be affected by the proposed Channel 14 facility. Specifically, a study of LM facilities within 80 km of the transmitter site, and in the band segment from 465-470 MHz, was conducted. This analysis encompassed 358 LM records.

---

\* See FCC File Nos. 0000151419. An engineering data summary sheet is attached hereto for the K14QN-D authorized facility for reference.

A sample calculation of the interference analysis with respect to LM facility record, WQOH821, on 469.9750 MHz, is summarized below:<sup>†</sup>

Parameter	Value
Frequency	469.9750 MHz
Ch. 14 Average EIRP (ERP <sub>dipole</sub> =0.10 kW)	+52.2 dBm
Full-service mask emission suppression <sup>‡</sup>	47.0 dB
DTV coupling into LM (12.5 kHz assumed LM bandwidth)	16.0 dB
Cross-polarization discrimination	20.0 dB
Free-space path loss to receive antenna at given frequency (34.1km)	116.6 dB
LM antenna gain	11 dBi
LM line loss	2.0 dB
Azimuth pattern discrimination factor (dB) <sup>§</sup>	0.0 dB
Received DTV interference power	-138.4 dBm
Equivalent field strength per Section 73.687(e)(4)(ii)	-7.8 dBuV/m
FCC interference criteria per Section 73.687(e)(4)(ii)	17 dBuV/m
Margin to interference per Section 73.687(e)(4)(ii)	<b>24.8 dB</b>
Analysis result	<b>PASS</b>

The analysis was based on the 17 dBuV/m interference field strength criteria outlined in Section 73.687(e)(4)(ii) of the FCC Rules.

<sup>†</sup> The subject record is highlighted on page 1 of the tabulation of LM records analyzed.

<sup>‡</sup> It is noted that most modern solid-state transmitters generally have shoulder level performance that is better than the minimum 47 dB shelf requirement.

<sup>§</sup> Although the transmitting antenna azimuthal discrimination toward the direction of interest is 40 dB, it was not necessary to take into consideration this factor in developing the interference analysis. However, this analysis is very conservative taking into consideration that factor.

The LM interference analysis results were sorted in order of descending frequency, then by increasing margin of protection. The results indicate that the K14QN-D facility is fully compliant with the interference protection limit relating to adjacent LM facilities.

A handwritten signature in black ink, appearing to read "Louis R. du Treil, Jr.", with a stylized, cursive script.

Louis R. du Treil, Jr.

du Treil, Lundin & Rackley, Inc.  
5212 Station Way  
Sarasota, Florida 34233

September 23, 2021

# TV Inquiry LMS

## FCC ENGINEERING DATABASE SUMMARY

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



**Callsign:** K14QN-D **Service:** LPD **Status:** MOD **App. Status:** GRA **Rec. Type:** C  
**Channel:** 14 **Zone:** **Application File No.:** 0000151419 **Chan Share Host:**  
**Fac. ID:** 184055 **FRN:** 0015723455 **Loc. Record ID:** 25076ff37a62bcc4017a63be26850533 **DT Emission Mask:** F  
**City:** BIG SPRING **State:** TX **Country:** US **CP Expiration Date:** 2022-01-10  
**Party Name:** EICB-TV EAST, LLC **Last Change Date:** 2021-07-06

**Latitude (NAD 83):** 032-13-41.9 **Height AGL (m):** 6 **Polarization:** H  
**Longitude (NAD 83):** 101-28-34 **Overall Height AGL (m):** 15 **Electrical Tilt (°):**  
**RCAMSL (m):** 796.5 **ERP (kW):** 0.1 **Mechanical Tilt (°):**  
**Site Elevation AMSL (m):** 790.5 **Maximum ERP (kW):**  
**HAAT (m):** **Maximum ERP (dBk):** **Degrees True (°):**

**Ant Type:** OTS **Antenna ID:** 20778 **Rotation (°):** 50

0°	1.000	90°	0.010	180°	0.010	270°	0.010
10°	0.947	100°	0.010	190°	0.010	280°	0.010
20°	0.812	110°	0.010	200°	0.010	290°	0.010
30°	0.622	120°	0.010	210°	0.010	300°	0.010
40°	0.361	130°	0.010	220°	0.010	310°	0.086
50°	0.086	140°	0.010	230°	0.010	320°	0.361
60°	0.010	150°	0.010	240°	0.010	330°	0.622
70°	0.010	160°	0.010	250°	0.010	340°	0.812
80°	0.010	170°	0.010	260°	0.010	350°	0.947

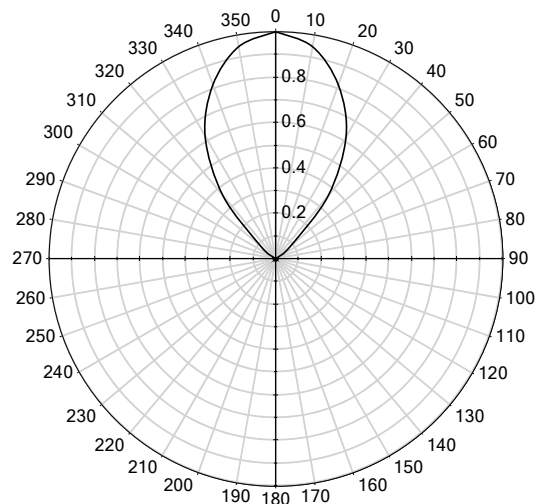
**Antenna Make:** SCA

**Antenna Model:** CL-1469

**Last Change Date:** 2021-07-01 16:27:51.357

**Ant. Record ID:** 25076ff37a62bcc4017a63be26850534

**Note:** Rotation or tilt is not applied to the pattern shown



<b>Type:</b>	<b>ASRN:</b>	<b>FAA Study No.:</b>	<b>Structure Height (m):</b>
<b>Latitude (NAD 83):</b>		<b>Date Received:</b>	<b>Structure Height (ft):</b>
<b>Longitude (NAD 83):</b>		<b>Date Entered:</b>	<b>Ground Elevation (m):</b>
		<b>Date Issued:</b>	<b>Ground Elevation (ft):</b>
		<b>Date Constructed:</b>	<b>Overall Height AGL (m):</b>
<b>Struct. Address:</b>		<b>Date Dismantled:</b>	<b>Overall Height AGL (ft):</b>
			<b>Overall Height AMSL (m):</b>
<b>Entity Name:</b>			<b>Overall Height AMSL (ft):</b>

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20°Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (dBm) (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WQOH821	APACHE CORPORATION	Active	GARDEN CITY	TX	GLASSCOCK	31	55	26.8	101	31	37.3	34.1	188.1	469.9750	21.2	47.0	30.7	-60.7	0.0	-138.4	-138.4	-7.8	24.8
WNCY577	BLAGRAVE, DERWOOD	Active	ACKERLY	TX	MARTIN	32	30	15.4	101	39	46.5	35.3	330.3	469.9750	21.9	47.0	31.0	-60.7	0.0	-138.7	-138.7	-8.1	25.1
WRF878	Targa Midstream Services LLC	Active	Midland	TX	MIDLAND	31	44	9.5	101	47	54.8	62.5	209.1	469.9750	38.8	47.0	35.9	-60.7	0.0	-143.7	-143.7	-13.1	30.1
WQVM785	Concho Valley Electric Coop	Active	Sterling City	TX	TOM GREEN	31	33	27	101	3	53.4	83.9	152.4	469.9750	52.1	47.0	38.5	-60.7	0.0	-146.2	-146.2	-15.6	32.6
WRF1715	Behavioral Health Center of the Permian	Active	Odessa	TX	MIDLAND	31	55	22.7	102	13	19.3	78.1	244.4	469.9625	48.5	47.0	37.9	-60.7	0.0	-145.6	-145.6	-15.0	32.0
WRJE553	Aviator Wind LLC	Active	Robert Lee	TX	COKE	31	47	35.5	100	41	53.7	87.9	123.2	469.9625	54.6	47.0	38.9	-60.7	0.0	-146.6	-146.6	-16.0	33.0
WQQD769	ALON USA	Active	BIG SPRING	TX	HOWARD	32	16	4.3	101	24	42.2	7.5	54.0	469.9500	4.7	47.0	17.5	-60.7	0.0	-125.2	-125.2	5.4	11.6
WQM904	South Plains Communications	Active	Gail	TX	BORDEN	32	45	37.3	101	27	32.4	59.0	1.5	469.9375	36.7	47.0	35.4	-60.7	0.0	-143.2	-143.2	-12.6	29.6
WQQA641	Texas Communications of San Angelo,	Active	Sterling City	TX	STERLING	31	51	20	101	1	39	59.2	134.3	469.9000	36.8	47.0	35.4	-60.7	0.0	-143.2	-143.2	-12.6	29.6
WRF1715	Behavioral Health Center of the Permian	Active	Odessa	TX	MIDLAND	31	55	22.7	102	13	19.3	78.1	244.4	469.9000	48.5	47.0	37.9	-60.7	0.0	-145.6	-145.6	-15.0	32.0
WPTP374	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6	101	27	10	2.5	116.8	469.8625	1.6	47.0	8.0	-60.7	0.0	-115.7	-115.7	14.9	2.1
WPML570	SPEIGHT, CARL; SPEIGHT, JOHN; SPEIGH	Active	BIG SPRING	TX	HOWARD	32	11	6.4	101	27	57.4	4.9	168.7	469.8500	3.0	47.0	13.8	-60.7	0.0	-121.5	-121.5	9.1	7.9
WPWJ632	Bear Communications, Inc.	Active	GIDDINGS	TX	LEE	32	43	22	102	1	52	75.7	316.7	469.8375	47.0	47.0	37.6	-60.7	0.0	-145.3	-145.3	-14.7	31.7
WQOS330	South Plains Communications	Active	Patricia	TX	DAWSON	32	36	16	102	9	52	77.0	303.1	469.8250	47.8	47.0	37.7	-60.7	0.0	-145.5	-145.5	-14.9	31.9
WQRC295	Concho Valley Electric Coop, Inc	Active	Colorado City	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	469.8125	48.7	47.0	37.9	-60.7	0.0	-145.6	-145.6	-15.0	32.0
WQFC983	Stonegate Fellowship Church	Active	Midland	TX	MIDLAND	32	0	35	102	10	2	69.6	249.7	469.8000	43.2	47.0	36.9	-60.7	0.0	-144.6	-144.6	-14.0	31.0
WRJX267	MIDLAND INDEPENDENT SCHOOL DIST	Active	MIDLAND	TX	MIDLAND	31	59	46.1	102	4	52.6	62.6	245.8	469.7875	38.9	47.0	35.9	-60.7	0.0	-143.7	-143.7	-13.1	30.1
WQQA641	Texas Communications of San Angelo,	Active	Sterling City	TX	STERLING	31	51	20	101	1	39	59.2	134.3	469.7750	36.8	47.0	35.4	-60.7	0.0	-143.2	-143.2	-12.6	29.6
WPOA995	MIDLAND PARK MALL #2580	Active	MIDLAND	TX	MIDLAND	32	0	29.4	102	3	29.5	60.1	246.1	469.7750	37.3	47.0	35.6	-60.7	0.0	-143.3	-143.3	-12.7	29.7
WQIV684	J P Jenkins, Inc	Active	Snyder	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	469.7750	50.5	47.0	38.2	-60.7	0.0	-145.9	-145.9	-15.3	32.3
WQIF454	Pioneer Natural Resources USA, Inc.	Active	LENORAH	TX	MARTIN	32	19	23	101	53	4	39.9	285.5	469.7500	24.8	47.0	32.0	-60.7	0.0	-139.8	-139.8	-9.2	26.2
WQIF454	Pioneer Natural Resources USA, Inc.	Active	LENORAH	TX	MARTIN	32	19	23	101	53	4	39.9	285.5	469.7500	24.8	47.0	32.0	-60.7	0.0	-139.8	-139.8	-9.2	26.2
WQIF454	Pioneer Natural Resources USA, Inc.	Active	MIDLAND	TX	MIDLAND	32	1	54.2	102	0	25.6	54.6	246.5	469.7500	33.9	47.0	34.7	-60.7	0.0	-142.5	-142.5	-11.9	28.9
WQOH821	APACHE CORPORATION	Active	GARDEN CITY	TX	GLASSCOCK	31	55	26.8	101	31	37.3	34.1	188.1	469.7000	21.2	47.0	30.7	-60.7	0.0	-138.4	-138.4	-7.8	24.8
WQVA754	EDF Renewable Services	Active	ODonnell	TX	BORDEN	32	53	40.5	101	39	22.1	75.8	347.2	469.7000	47.1	47.0	37.6	-60.7	0.0	-145.3	-145.3	-14.7	31.7
WPTP374	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6	101	27	10	2.5	116.8	469.6875	1.6	47.0	8.0	-60.7	0.0	-115.7	-115.7	14.9	2.1
WROB607	RINGCO OILFIELD	Active	MIDLAND	TX	MIDLAND	31	57	39.3	102	1	50.2	60.2	240.5	469.6375	37.4	47.0	35.6	-60.7	0.0	-143.3	-143.3	-12.7	29.7
WQPC255	Apache Corporation	Active	Midland	TX	UPTON	31	32	28.4	102	0	10.5	91.0	213.2	469.6125	56.5	47.0	39.2	-60.7	0.0	-146.9	-146.9	-16.3	33.3
WQPC255	Apache Corporation	Active	Midland	TX	UPTON	31	32	28.4	102	0	10.5	91.0	213.2	469.6125	56.5	47.0	39.2	-60.7	0.0	-146.9	-146.9	-16.3	33.3
WPYB792	PROFESSIONAL COMMUNICATIONS	Active	SNYDER	TX	SCURRY	32	42	31	101	0	20	69.2	39.4	469.5875	43.0	47.0	36.8	-60.7	0.0	-144.5	-144.5	-13.9	30.9
WQQA639	EnerVest Operating, LLC	Active	Tarzan	TX	MARTIN	32	18	22.3	101	59	18.6	49.0	280.3	469.5750	30.4	47.0	33.8	-60.7	0.0	-141.5	-141.5	-10.9	27.9
WQSL358	Apache Corporation	Active	Midland	TX	MIDLAND	31	41	31.9	102	8	33.7	86.6	226.7	469.5250	53.8	47.0	38.8	-60.7	0.0	-146.5	-146.5	-15.9	32.9
WQSL358	Apache Corporation	Active	Midland	TX	MIDLAND	31	41	31.9	102	8	33.7	86.6	226.7	469.5250	53.8	47.0	38.8	-60.7	0.0	-146.5	-146.5	-15.9	32.9
WPUK259	Kinder Morgan CO2 Company LLC	Active	SNYDER	TX	SCURRY	32	45	29	100	57	38	76.1	39.2	469.4750	47.3	47.4	37.6	-60.7	0.0	-145.8	-145.8	-15.2	32.2
WRJX267	MIDLAND INDEPENDENT SCHOOL DIST	Active	MIDLAND	TX	MIDLAND	31	59	46.1	102	4	52.6	62.6	245.8	469.4625	38.9	47.6	35.9	-60.7	0.0	-144.2	-144.2	-13.6	30.6
WQSF939	Texas Communs. of San Angelo	Active	Silver	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	469.4500	48.7	47.7	37.9	-60.7	0.0	-146.3	-146.3	-15.7	32.7
WQPK360	Petro Communications Inc.	Active	Midland	TX	MIDLAND	31	58	35	102	1	6	58.3	241.4	469.4250	36.2	48.0	35.3	-60.7	0.0	-144.1	-144.1	-13.5	30.5
WPTK654	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	57	48	102	2	17	60.6	241.0	469.4125	37.7	48.2	35.6	-60.7	0.0	-144.5	-144.5	-13.9	30.9
	STANTON ISD	Pending	STANTON	TX	MARTIN	32	7	50.5	101	48	19.3	32.9	250.8	469.3875	20.4	48.4	30.3	-60.7	0.0	-139.5	-139.5	-8.9	25.9
WREN463	Navitas Midstream Partners, LLC	Active	Midland	TX	GLASSCOCK	31	50	32.3	101	45	55.2	50.8	212.5	469.3625	31.6	48.7	34.1	-60.7	0.0	-143.6	-143.6	-13.0	30.0
WQNX377	HGA Pipeline Services LLC	Active	Midland	TX	MIDLAND	31	56	46.7	102	8	23.6	70.0	243.5	469.3625	43.5	48.7	36.9	-60.7	0.0	-146.4	-146.4	-15.8	32.8
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	8	44	79.6	22.8	469.3625	49.5	48.7	38.0	-60.7	0.0	-147.5	-147.5	-16.9	33.9
WROB607	RINGCO OILFIELD	Active	MIDLAND	TX	MIDLAND	31	57	39.3	102	1	50.2	60.2	240.5	469.3375	37.4	49.0	35.6	-60.7	0.0	-145.3	-145.3	-14.7	31.7
WQPK360	Petro Communications Inc.	Active	Midkiff	TX	GLASSCOCK	31	41	52	101	41	30	62.3	199.1	469.3000	38.7	49.4	35.9	-60.7	0.0	-146.1	-146.1	-15.5	32.5
WRJF697	Petro Communications Inc.	Active	MIDLAND	TX	MIDLAND	31	59	0	102	3	3	60.7	243.4	469.2875	37.7	49.6	35.7	-60.7	0.0	-146.0	-146.0	-15.4	32.4
WQZR656	Continental Intermodal Group	Active	ODESSA	TX	ECTOR	31	49	56.8	102	19	20.3	91.2	241.3	469.2750	56.7	49.7	39.2	-60.7	0.0	-149.7	-149.7	-19.1	36.1
WQFC983	Stonegate Fellowship Church	Active	Midland	TX	MIDLAND	32	0	35	102	10	2	69.6	249.7	469.2375	43.2	50.2	36.9	-60.7	0.0	-147.7	-147.7	-17.1	34.1
WQZN735	FIRST UNITED METHODIST CHURCH	Active	MIDLAND	TX	MIDLAND	32	0	0.3	102	4	25.8	61.8	245.9	469.2250	38.4	50.3	35.8	-60.7	0.0	-146.9	-146.9	-16.3	33.3
WQRE793	INDUSTRIAL COMMUNICATIONS INC	Active	ODESSA	TX	ECTOR	31	51	41.4	102	19	43.5	90.2	243.3	469.2000	56.0	50.6	39.1	-60.7	0.0	-150.4	-150.4	-19.8	36.8
WPBV227	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6.4	101	27	10.4	2.4	116.6	469.1750	1.5	50.9	7.6	-60.7	0.0	-119.2	-119.2	11.4	5.6

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20°Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (dBm) (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WPBV227	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	58	1.4	102	7	7.5	67.2	244.5	469.1750	41.8	50.9	36.5	-60.7	0.0	-148.2	-148.2	-17.6	34.6
WROB607	RINGCO OILFIELD	Active	MIDLAND	TX	MIDLAND	31	57	39.3	102	1	50.2	60.2	240.5	469.1500	37.4	51.2	35.6	-60.7	0.0	-147.5	-147.5	-16.9	33.9
WRDJ525	Southwestern Wireless, Inc.	Active	Gardendale	TX	ECTOR	32	2	54.6	102	18	5.6	80.4	255.8	469.1375	50.0	51.3	38.1	-60.7	0.0	-150.1	-150.1	-19.5	36.5
WQOG385	Palmer Drug Abuse Program Inc.	Active	Midland	TX	MIDLAND	31	59	47	102	5	15.1	63.2	246.0	469.1250	39.3	51.5	36.0	-60.7	0.0	-148.2	-148.2	-17.6	34.6
WRJF697	Petro Communications Inc.	Active	MIDLAND	TX	MIDLAND	31	59	0	102	3	3	60.7	243.4	469.1125	37.7	51.6	35.7	-60.7	0.0	-148.0	-148.0	-17.4	34.4
WPBV227	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6.4	101	27	10.4	2.4	116.6	469.1000	1.5	51.7	7.6	-60.7	0.0	-120.1	-120.1	10.5	6.5
WPBV227	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	58	1.4	102	7	7.5	67.2	244.5	469.1000	41.8	51.7	36.5	-60.7	0.0	-149.0	-149.0	-18.4	35.4
WQFC983	Stonagate Fellowship Church	Active	Midland	TX	MIDLAND	32	0	35	102	10	2	69.6	249.7	469.0875	43.2	51.9	36.9	-60.7	0.0	-149.5	-149.5	-18.9	35.9
WQXE706	WESTERN TEXAS COLLEGE	Active	SNYDER	TX	SCURRY	32	40	45.9	100	54	52.4	72.7	46.3	469.0625	45.2	52.2	37.2	-60.7	0.0	-150.1	-150.1	-19.5	36.5
WRCA274	Keane Group, Inc.	Active	Odessa	TX	MIDLAND	31	52	54.2	102	16	31.6	84.7	243.1	469.0625	52.6	52.2	38.6	-60.7	0.0	-151.5	-151.5	-20.9	37.9
WQPK360	Petro Communications Inc.	Active	Midkiff	TX	GLASSCOCK	31	41	52	101	41	30	62.3	199.1	469.0500	38.7	52.3	35.9	-60.7	0.0	-148.9	-148.9	-18.3	35.3
WQXE706	WESTERN TEXAS COLLEGE	Active	SNYDER	TX	SCURRY	32	40	45.9	100	54	52.4	72.7	46.3	469.0375	45.2	52.5	37.2	-60.7	0.0	-150.4	-150.4	-19.8	36.8
WRCA274	Keane Group, Inc.	Active	Odessa	TX	MIDLAND	31	52	54.2	102	16	31.6	84.7	243.1	469.0375	52.6	52.5	38.6	-60.7	0.0	-151.8	-151.8	-21.2	38.2
WQSL848	Self Radio, Inc.	Active	Sterling City	TX	STERLING	31	43	27	101	2	5	69.8	143.3	469.0250	43.4	52.6	36.9	-60.7	0.0	-150.2	-150.2	-19.6	36.6
WQMJ904	South Plains Communications	Active	Gail	TX	BORDEN	32	45	37.3	101	27	32.4	59.0	1.5	468.9875	36.7	53.0	35.4	-60.7	0.0	-149.2	-149.2	-18.6	35.6
WQCM900	Professional Communications	Active	STERLING CITY	TX	TOM GREEN	31	32	47	101	2	17	86.2	151.3	468.9875	53.6	53.0	38.7	-60.7	0.0	-152.5	-152.5	-21.9	38.9
WQKA634	CHAMPION TECHNOLOGIES	Active	ODESSA	TX	ECTOR	31	52	17.7	102	18	7.3	87.5	243.2	468.9875	54.4	53.0	38.8	-60.7	0.0	-152.6	-152.6	-22.0	39.0
WQOD769	ALON USA	Active	BIG SPRING	TX	HOWARD	32	16	4.3	101	24	42.2	7.5	54.0	468.9750	4.7	53.2	17.5	-60.7	0.0	-131.4	-131.4	-0.8	17.8
WRDJ525	Southwestern Wireless, Inc.	Active	Gardendale	TX	ECTOR	32	2	54.6	102	18	5.6	80.4	255.8	468.9625	50.0	53.3	38.1	-60.7	0.0	-152.2	-152.2	-21.6	38.6
WQVH870	INDUSTRIAL COMMUNICATIONS INC	Active	MIDLAND	TX	MIDLAND	31	59	48.4	102	4	42.4	62.4	245.8	468.9500	38.8	53.5	35.9	-60.7	0.0	-150.1	-150.1	-19.5	36.5
WQIY684	J P Jenkins, Inc.	Active	Snyder	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	468.9500	50.5	53.5	38.2	-60.7	0.0	-152.4	-152.4	-21.8	38.8
WPTK654	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	57	48	102	2	17	60.6	241.0	468.9375	37.7	53.6	35.6	-60.7	0.0	-150.0	-150.0	-19.4	36.4
WQSL358	Apache Corporation	Active	Midland	TX	MIDLAND	31	41	31.9	102	8	33.7	86.6	226.7	468.9250	53.8	53.8	38.8	-60.7	0.0	-153.2	-153.2	-22.6	39.6
WQSL358	Apache Corporation	Active	Midland	TX	MIDLAND	31	41	31.9	102	8	33.7	86.6	226.7	468.9250	53.8	53.8	38.8	-60.7	0.0	-153.2	-153.2	-22.6	39.6
WPTP374	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6	101	27	10	2.5	116.8	468.9125	1.6	53.9	8.0	-60.7	0.0	-122.6	-122.6	8.0	9.0
WREN463	Navitas Midstream Partners, LLC	Active	Midland	TX	MIDLAND	31	51	25.2	101	47	31.6	50.9	215.9	468.8750	31.6	54.3	34.1	-60.7	0.0	-149.2	-149.2	-18.6	35.6
WPWJ632	Bear Communications, Inc.	Active	GIDDINGS	TX	LEE	32	43	22	102	1	52	75.7	316.7	468.8625	47.0	54.5	37.6	-60.7	0.0	-152.8	-152.8	-22.2	39.2
WQPC255	Apache Corporation	Active	Midland	TX	UPTON	31	32	28.4	102	0	10.5	91.0	213.2	468.8625	56.5	54.5	39.2	-60.7	0.0	-154.4	-154.4	-23.8	40.8
WQPC255	Apache Corporation	Active	Midland	TX	UPTON	31	32	28.4	102	0	10.5	91.0	213.2	468.8625	56.5	54.5	39.2	-60.7	0.0	-154.4	-154.4	-23.8	40.8
WQOH821	APACHE CORPORATION	Active	GARDEN CITY	TX	GLASSCOCK	31	55	26.8	101	31	37.3	34.1	188.1	468.8250	21.2	54.9	30.7	-60.7	0.0	-146.3	-146.3	-15.7	32.7
WQQA641	Texas Communications of San Angelo,	Active	Sterling City	TX	STERLING	31	51	20	101	1	39	59.2	134.3	468.8125	36.8	55.1	35.4	-60.7	0.0	-151.2	-151.2	-20.6	37.6
KNAY519	PRICE, FRANK	Active	COLORADO CITY	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	468.8000	48.7	55.2	37.9	-60.7	0.0	-153.8	-153.8	-23.2	40.2
WPTK654	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	57	48	102	2	17	60.6	241.0	468.7875	37.7	55.3	35.6	-60.7	0.0	-151.7	-151.7	-21.1	38.1
WRDJ525	Southwestern Wireless, Inc.	Active	Gardendale	TX	ECTOR	32	2	54.6	102	18	5.6	80.4	255.8	468.7750	50.0	55.5	38.1	-60.7	0.0	-154.3	-154.3	-23.7	40.7
WREN463	Navitas Midstream Partners, LLC	Active	Midland	TX	MIDLAND	31	51	25.2	101	47	31.6	50.9	215.9	468.7625	31.6	55.6	34.1	-60.7	0.0	-150.5	-150.5	-19.9	36.9
WRHV223	Targa Midstream Services, LLC	Active	Garden City	TX	REAGAN	31	38	27.9	101	39	2.6	67.2	194.2	468.7500	41.8	55.8	36.5	-60.7	0.0	-153.0	-153.0	-22.4	39.4
WQPK360	Petro Communications Inc.	Active	Midkiff	TX	GLASSCOCK	31	41	52	101	41	30	62.3	199.1	468.7375	38.7	55.9	35.9	-60.7	0.0	-152.5	-152.5	-21.9	38.9
WQNX377	HGA Pipeline Services LLC	Active	Midland	TX	MIDLAND	31	56	46.7	102	8	23.6	70.0	243.5	468.7250	43.5	56.1	36.9	-60.7	0.0	-153.7	-153.7	-23.1	40.1
WQWE671	Big Country Electric Cooperative	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.7125	50.0	56.2	38.1	-60.7	0.0	-155.0	-155.0	-24.4	41.4
WPC863	Pioneer Natural Resources USA, Inc.	Active	MIDLAND	TX	MIDLAND	31	56	39.5	102	0	9.5	58.8	237.7	468.7000	36.5	56.4	35.4	-60.7	0.0	-152.5	-152.5	-21.9	38.9
WQTX723	Lamesa ISD	Active	Lamesa	TX	DAWSON	32	44	0	101	57	16.8	71.8	321.5	468.7000	44.6	56.4	37.1	-60.7	0.0	-154.2	-154.2	-23.6	40.6
WQCM900	Professional Communications	Active	KEY	TX	DAWSON	32	44	35	101	43	39	61.8	337.7	468.6875	38.4	56.5	35.8	-60.7	0.0	-153.0	-153.0	-22.4	39.4
WQPK360	Petro Communications Inc.	Active	Midland	TX	MIDLAND	31	58	35	102	1	6	58.3	241.4	468.6750	36.2	56.6	35.3	-60.7	0.0	-152.7	-152.7	-22.1	39.1
WPUD773	J P Jenkins, Inc dba South Plains Comm	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.6750	50.0	56.6	38.1	-60.7	0.0	-155.5	-155.5	-24.9	41.9
WQWE671	Big Country Electric Cooperative	Active	Snyder	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	468.6375	50.5	57.1	38.2	-60.7	0.0	-156.0	-156.0	-25.4	42.4
WQCM900	Professional Communications	Active	STERLING CITY	TX	TOM GREEN	31	32	47	101	2	17	86.2	151.3	468.6375	53.6	57.1	38.7	-60.7	0.0	-156.5	-156.5	-25.9	42.9
WQSF939	Texas Communs. of San Angelo	Active	Silver	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	468.6250	48.7	57.2	37.9	-60.7	0.0	-155.8	-155.8	-25.2	42.2
WQIV943	NRG RENEWABLES-ELBOW CREEK	Active	FORSAN	TX	HOWARD	32	7	1.7	101	24	37.5	13.8	153.4	468.6125	8.6	57.4	22.8	-60.7	0.0	-140.9	-140.9	-10.3	27.3
WQES953	Professional Communications	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.5875	50.0	57.6	38.1	-60.7	0.0	-156.5	-156.5	-25.9	42.9
WQTX723	Lamesa ISD	Active	Lamesa	TX	DAWSON	32	44	0	101	57	16.8	71.8	321.5	468.5750	44.6	57.8	37.1	-60.7	0.0	-155.6	-155.6	-25.0	42.0

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20°Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (dBm) (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WQVH870	INDUSTRIAL COMMUNICATIONS INC	Active	MIDLAND	TX	MIDLAND	31	59	48.4	102	4	42.4	62.4	245.8	468.5625	38.8	57.9	35.9	-60.7	0.0	-154.6	-154.6	-24.0	41.0
WQIB684	Roscoe Wind Farm, LLC	Active	ROSCOE	TX	NOLAN	32	25	58.5	100	38	38.6	81.6	73.6	468.5625	50.7	57.9	38.2	-60.7	0.0	-156.9	-156.9	-26.3	43.3
WPBV227	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6.4	101	27	10.4	2.4	116.6	468.5500	1.5	58.1	7.6	-60.7	0.0	-126.4	-126.4	4.2	12.8
WPBV227	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	58	1.4	102	7	7.5	67.2	244.5	468.5500	41.8	58.1	36.5	-60.7	0.0	-155.3	-155.3	-24.7	41.7
WQRE793	INDUSTRIAL COMMUNICATIONS INC	Active	ODESSA	TX	ECTOR	31	51	41.4	102	19	43.5	90.2	243.3	468.5375	56.0	58.2	39.1	-60.7	0.0	-158.0	-158.0	-27.4	44.4
WQMJ904	South Plains Communications	Active	Gail	TX	BORDEN	32	45	37.3	101	27	32.4	59.0	1.5	468.5125	36.7	58.5	35.4	-60.7	0.0	-154.6	-154.6	-24.0	41.0
WRDJ525	Southwestern Wireless, Inc.	Active	Gardendale	TX	ECTOR	32	2	54.6	102	18	5.6	80.4	255.8	468.5000	50.0	58.7	38.1	-60.7	0.0	-157.5	-157.5	-26.9	43.9
WPWW464	J P Jenkins Inc	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.5000	50.0	58.7	38.1	-60.7	0.0	-157.5	-157.5	-26.9	43.9
WQYI795	VESTA - AMERICAN WIND TECHNOLOG	Active	GARDEN CITY	TX	GLASSCOCK	31	43	37.6	101	39	27.9	58.2	197.1	468.4625	36.2	59.1	35.3	-60.7	0.0	-155.1	-155.1	-24.5	41.5
WQVA754	EDF Renewable Services	Active	ODonnell	TX	BORDEN	32	53	40.5	101	39	22.1	75.8	347.2	468.4500	47.1	59.2	37.6	-60.7	0.0	-157.5	-157.5	-26.9	43.9
WPTP374	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6	101	27	10	2.5	116.8	468.4375	1.6	59.4	8.0	-60.7	0.0	-128.0	-128.0	2.6	14.4
WQFC983	Stonagate Fellowship Church	Active	Midland	TX	MIDLAND	32	0	35	102	10	2	69.6	249.7	468.4375	43.2	59.4	36.9	-60.7	0.0	-156.9	-156.9	-26.3	43.3
WNKQ428	BIG SPRING INDEPENDENT SCHOOL DI	Active	BIG SPRING	TX	HOWARD	32	13	21.4	101	27	32.4	1.7	111.5	468.4250	1.1	59.5	4.6	-60.7	0.0	-124.8	-124.8	5.8	11.2
WPWJ632	Bear Communications, Inc.	Active	GIDDINGS	TX	LEE	32	43	22	102	1	52	75.7	316.7	468.4125	47.0	59.7	37.6	-60.7	0.0	-158.0	-158.0	-27.4	44.4
WPML570	SPEIGHT, CARL: SPEIGHT, JOHN: SPEIGH	Active	MIDLAND	TX	MIDLAND	31	54	32	102	4	2	66.1	237.6	468.4000	41.1	59.8	36.4	-60.7	0.0	-156.9	-156.9	-26.3	43.3
WPWM831	J P Jenkins Inc	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.3750	50.0	60.1	38.1	-60.7	0.0	-158.9	-158.9	-28.3	45.3
WQQA641	Texas Communications of San Angelo, I	Active	Sterling City	TX	STERLING	31	51	20	101	1	39	59.2	134.3	468.3625	36.8	60.2	35.4	-60.7	0.0	-156.4	-156.4	-25.8	42.8
WRHS422	WHITETAIL GENERAL CONSTRUCTORS	Active	MIDLAND	TX	MIDLAND	32	1	25.9	101	57	52.7	51.4	243.8	468.3500	31.9	60.4	34.2	-60.7	0.0	-155.3	-155.3	-24.7	41.7
WQOV975	Glass White River Ranches LLC	Active	Sterling City	TX	STERLING	31	48	39.8	101	15	31	50.6	156.1	468.3250	31.4	60.7	34.1	-60.7	0.0	-155.5	-155.5	-24.9	41.9
WNQO936	NOLEN H COPE INC DBA COPE SAND &	Active	LAMESA	TX	DAWSON	32	42	52.4	101	56	32.6	69.5	321.2	468.3250	43.2	60.7	36.8	-60.7	0.0	-158.2	-158.2	-27.6	44.6
WQZX230	QEP ENERGY	Active	MARTIN	TX	MARTIN	32	22	5.9	101	55	53.9	45.6	290.1	468.3125	28.3	60.8	33.2	-60.7	0.0	-154.7	-154.7	-24.1	41.1
WQCM900	Professional Communications	Active	STERLING CITY	TX	TOM GREEN	31	32	47	101	2	17	86.2	151.3	468.3125	53.6	60.8	38.7	-60.7	0.0	-160.2	-160.2	-29.6	46.6
WQQD769	ALON USA	Active	BIG SPRING	TX	HOWARD	32	16	4.3	101	24	42.2	7.5	54.0	468.3000	4.7	60.9	17.5	-60.7	0.0	-139.2	-139.2	-8.6	25.6
WRDJ525	Southwestern Wireless, Inc.	Active	Gardendale	TX	ECTOR	32	2	54.6	102	18	5.6	80.4	255.8	468.3000	50.0	60.9	38.1	-60.7	0.0	-159.8	-159.8	-29.2	46.2
WQES953	Professional Communications	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.2875	50.0	61.1	38.1	-60.7	0.0	-159.9	-159.9	-29.3	46.3
WPML570	SPEIGHT, CARL: SPEIGHT, JOHN: SPEIGH	Active	BIG SPRING	TX	HOWARD	32	11	6.4	101	27	57.4	4.9	168.7	468.2750	3.0	61.2	13.8	-60.7	0.0	-135.8	-135.8	-5.2	22.2
WQCM900	Professional Communications	Active	KEY	TX	DAWSON	32	44	35	101	43	39	61.8	337.7	468.2625	38.4	61.4	35.8	-60.7	0.0	-157.9	-157.9	-27.3	44.3
WRASS20	APACHE CORPORATION	Active	ST LAWRENCE	TX	GLASSCOCK	31	40	55.1	101	38	40	62.6	194.7	468.2500	38.9	61.5	35.9	-60.7	0.0	-158.2	-158.2	-27.6	44.6
WRASS20	APACHE CORPORATION	Active	ST LAWRENCE	TX	GLASSCOCK	31	40	55.1	101	38	40	62.6	194.7	468.2500	38.9	61.5	35.9	-60.7	0.0	-158.2	-158.2	-27.6	44.6
WQPC255	Apache Corporation	Active	Midland	TX	UPTON	31	32	28.4	102	0	10.5	91.0	213.2	468.2500	56.5	61.5	39.2	-60.7	0.0	-161.4	-161.4	-30.8	47.8
WQPC255	Apache Corporation	Active	Midland	TX	UPTON	31	32	28.4	102	0	10.5	91.0	213.2	468.2500	56.5	61.5	39.2	-60.7	0.0	-161.4	-161.4	-30.8	47.8
WPTP374	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6	101	27	10	2.5	116.8	468.2375	1.6	61.7	8.0	-60.7	0.0	-130.3	-130.3	0.3	16.7
WNKK206	RANDOLPH, BOB	Active	ODESSA	TX	MIDLAND	31	55	3.4	102	16	52.5	83.5	245.7	468.2250	51.9	61.8	38.4	-60.7	0.0	-161.0	-161.0	-30.4	47.4
WQPK360	Petro Communications Inc.	Active	Midland	TX	MIDLAND	31	58	35	102	1	6	58.3	241.4	468.2125	36.2	62.0	35.3	-60.7	0.0	-158.0	-158.0	-27.4	44.4
WPEU723	SOUTHWEST AIRLINES	Active	MIDLAND	TX	MIDLAND	31	58	0.4	102	12	1.5	74.3	247.1	468.2125	46.2	62.0	37.4	-60.7	0.0	-160.1	-160.1	-29.5	46.5
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	8	44	79.6	22.8	468.2125	49.5	62.0	38.0	-60.7	0.0	-160.7	-160.7	-30.1	47.1
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.1750	45.9	62.4	37.4	-60.7	0.0	-160.5	-160.5	-29.9	46.9
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.1750	47.0	62.4	37.6	-60.7	0.0	-160.7	-160.7	-30.1	47.1
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.1750	50.0	62.4	38.1	-60.7	0.0	-161.2	-161.2	-30.6	47.6
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.1500	45.9	62.7	37.4	-60.7	0.0	-160.7	-160.7	-30.1	47.1
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.1500	47.0	62.7	37.6	-60.7	0.0	-161.0	-161.0	-30.4	47.4
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.1500	50.0	62.7	38.1	-60.7	0.0	-161.5	-161.5	-30.9	47.9
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.1250	45.9	63.0	37.4	-60.7	0.0	-161.0	-161.0	-30.4	47.4
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.1250	47.0	63.0	37.6	-60.7	0.0	-161.3	-161.3	-30.7	47.7
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.1250	50.0	63.0	38.1	-60.7	0.0	-161.8	-161.8	-31.2	48.2
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.1000	45.9	63.2	37.4	-60.7	0.0	-161.3	-161.3	-30.7	47.7
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.1000	47.0	63.2	37.6	-60.7	0.0	-161.5	-161.5	-30.9	47.9
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.1000	50.0	63.2	38.1	-60.7	0.0	-162.1	-162.1	-31.5	48.5
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.0750	45.9	63.5	37.4	-60.7	0.0	-161.6	-161.6	-31.0	48.0
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.0750	47.0	63.5	37.6	-60.7	0.0	-161.8	-161.8	-31.2	48.2

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20°Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (w/o Az. Discrim.) (dBm)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.0750	50.0	63.5	38.1	-60.7	0.0	-162.4	-162.4	-31.8	48.8
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.0500	45.9	63.8	37.4	-60.7	0.0	-161.9	-161.9	-31.3	48.3
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.0500	47.0	63.8	37.6	-60.7	0.0	-162.1	-162.1	-31.5	48.5
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.0500	50.0	63.8	38.1	-60.7	0.0	-162.6	-162.6	-32.0	49.0
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.0250	45.9	64.1	37.4	-60.7	0.0	-162.2	-162.2	-31.6	48.6
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.0250	47.0	64.1	37.6	-60.7	0.0	-162.4	-162.4	-31.8	48.8
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.0250	50.0	64.1	38.1	-60.7	0.0	-162.9	-162.9	-32.3	49.3
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	468.0000	45.9	64.4	37.4	-60.7	0.0	-162.5	-162.5	-31.9	48.9
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	468.0000	47.0	64.4	37.6	-60.7	0.0	-162.7	-162.7	-32.1	49.1
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	468.0000	50.0	64.4	38.1	-60.7	0.0	-163.2	-163.2	-32.6	49.6
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	467.9750	45.9	64.7	37.4	-60.7	0.0	-162.8	-162.8	-32.2	49.2
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	467.9750	47.0	64.7	37.6	-60.7	0.0	-163.0	-163.0	-32.4	49.4
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	467.9750	50.0	64.7	38.1	-60.7	0.0	-163.5	-163.5	-32.9	49.9
WQBH312	DAWSON, COUNTY OF	Active	LAMESA	TX	DAWSON	32	45	48.4	101	56	37.6	73.8	323.7	467.9500	45.9	65.0	37.4	-60.7	0.0	-163.0	-163.0	-32.4	49.4
WPUD427	South Plains Emergency Medical Service	Active	LAMESA	TX	DAWSON	32	43	22	102	1	52	75.7	316.7	467.9500	47.0	65.0	37.6	-60.7	0.0	-163.3	-163.3	-32.7	49.7
WQEU609	SOUTH PLAINS EMERGENCY MEDICAL	Active	FLUVANNA	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	467.9500	50.0	65.0	38.1	-60.7	0.0	-163.8	-163.8	-33.2	50.2
WQHE538	HOME DEPOT U.S.A., INC.	Active	Midland	TX	MIDLAND	32	1	25	102	8	39	67.0	250.3	467.9000	41.6	65.6	36.5	-60.7	0.0	-162.8	-162.8	-32.2	49.2
WQHE538	HOME DEPOT U.S.A., INC.	Active	Odessa	TX	ECTOR	31	53	43	102	19	29	88.2	245.4	467.9000	54.8	65.6	38.9	-60.7	0.0	-165.2	-165.2	-34.6	51.6
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Returned	MIDLAND	TX	MIDLAND	32	0	1	102	6	1	64.1	246.8	467.8875	39.8	65.7	36.1	-60.7	0.0	-162.5	-162.5	-31.9	48.9
WQHE538	HOME DEPOT U.S.A., INC.	Active	Midland	TX	MIDLAND	32	1	25	102	8	39	67.0	250.3	467.8750	41.6	65.8	36.5	-60.7	0.0	-163.1	-163.1	-32.5	49.5
WQHE538	HOME DEPOT U.S.A., INC.	Active	Odessa	TX	ECTOR	31	53	43	102	19	29	88.2	245.4	467.8750	54.8	65.8	38.9	-60.7	0.0	-165.4	-165.4	-34.8	51.8
WQTN469	NEXEO SOLUTIONS LLC	Active	MIDLAND	TX	MIDLAND	31	59	5.5	101	54	29	48.9	236.5	467.8500	30.4	66.1	33.8	-60.7	0.0	-160.6	-160.6	-30.0	47.0
WQHE538	HOME DEPOT U.S.A., INC.	Active	Midland	TX	MIDLAND	32	1	25	102	8	39	67.0	250.3	467.8500	41.6	66.1	36.5	-60.7	0.0	-163.3	-163.3	-32.7	49.7
WQHE538	HOME DEPOT U.S.A., INC.	Active	Odessa	TX	ECTOR	31	53	43	102	19	29	88.2	245.4	467.8500	54.8	66.1	38.9	-60.7	0.0	-165.7	-165.7	-35.1	52.1
WQHE538	HOME DEPOT U.S.A., INC.	Active	Midland	TX	MIDLAND	32	1	25	102	8	39	67.0	250.3	467.8375	41.6	66.3	36.5	-60.7	0.0	-163.5	-163.5	-32.9	49.9
WQHE538	HOME DEPOT U.S.A., INC.	Active	Odessa	TX	ECTOR	31	53	43	102	19	29	88.2	245.4	467.8375	54.8	66.3	38.9	-60.7	0.0	-165.9	-165.9	-35.3	52.3
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Returned	MIDLAND	TX	MIDLAND	32	0	1	102	6	1	64.1	246.8	467.8125	39.8	66.6	36.1	-60.7	0.0	-163.4	-163.4	-32.8	49.8
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Returned	MIDLAND	TX	MIDLAND	32	0	1	102	6	1	64.1	246.8	467.7875	39.8	66.8	36.1	-60.7	0.0	-163.7	-163.7	-33.1	50.1
KB93836	XTO Energy, Inc.	Active	TX	GLASSCOCK	31	51	50.5	101	29	1.4	40.4	181.0	467.7625	25.1	67.1	32.1	-60.7	0.0	-160.0	-160.0	-29.4	46.4	
KB93836	XTO Energy, Inc.	Active	TX	DAWSON	32	33	20.4	102	1	11.6	62.7	305.6	467.7625	39.0	67.1	35.9	-60.7	0.0	-163.8	-163.8	-33.2	50.2	
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Returned	MIDLAND	TX	MIDLAND	32	0	1	102	6	1	64.1	246.8	467.7625	39.8	67.1	36.1	-60.7	0.0	-164.0	-164.0	-33.4	50.4
WQHE538	HOME DEPOT U.S.A., INC.	Active	Midland	TX	MIDLAND	32	1	25	102	8	39	67.0	250.3	467.7625	41.6	67.1	36.5	-60.7	0.0	-164.4	-164.4	-33.8	50.8
WQHE538	HOME DEPOT U.S.A., INC.	Active	Odessa	TX	ECTOR	31	53	43	102	19	29	88.2	245.4	467.7625	54.8	67.1	38.9	-60.7	0.0	-166.7	-166.7	-36.1	53.1
WQKA634	CHAMPION TECHNOLOGIES	Active	ODESSA	TX	ECTOR	31	52	17.7	102	18	7.3	87.5	243.2	467.5000	54.4	70.2	38.8	-60.7	0.0	-169.7	-169.7	-39.1	56.1
WPNY410	Occidental Permian Ltd	Active	SNYDER	TX	SCURRY	32	57	7.5	100	53	9.8	97.5	34.3	467.5000	60.6	70.2	39.8	-60.7	0.0	-170.6	-170.6	-40.0	57.0
WNVJ335	Plains Marketing, L.P.	Active	TX	HOWARD	32	17	22.4	101	12	34.4	26.0	74.7	467.4875	16.2	70.3	28.3	-60.7	0.0	-159.3	-159.3	-28.7	45.7	
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Active	MIDLAND	TX	MIDLAND	32	0	0.7	102	6	0.9	64.1	246.8	467.4875	39.8	70.3	36.1	-60.7	0.0	-167.1	-167.1	-36.5	53.5
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Returned	MIDLAND	TX	MIDLAND	32	0	1	102	6	1	64.1	246.8	467.4875	39.8	70.3	36.1	-60.7	0.0	-167.1	-167.1	-36.5	53.5
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Active	MIDLAND	TX	MIDLAND	32	0	0.7	102	6	0.9	64.1	246.8	467.4625	39.8	70.6	36.1	-60.7	0.0	-167.4	-167.4	-36.8	53.8
WRBN885	FIRST BAPTIST CHURCH OF MIDLAND	Returned	MIDLAND	TX	MIDLAND	32	0	1	102	6	1	64.1	246.8	467.4625	39.8	70.6	36.1	-60.7	0.0	-167.4	-167.4	-36.8	53.8
WPXK464	Targa Midstream Services LLC	Active	San Angelo	TX	STERLING	31	50	15.5	100	57	16.4	65.6	131.3	467.4625	40.8	70.6	36.3	-60.7	0.0	-167.6	-167.6	-37.0	54.0
WQTS995	Jo Mill Oil Company, LLC	Active	Gail	TX	BORDEN	32	37	52.6	101	38	14.2	47.2	341.4	467.4500	29.3	70.7	33.5	-60.7	0.0	-164.9	-164.9	-34.3	51.3
WQTS995	Jo Mill Oil Company, LLC	Active	Gail	TX	BORDEN	32	37	52.6	101	38	14.2	47.2	341.4	467.4500	29.3	70.7	33.5	-60.7	0.0	-164.9	-164.9	-34.3	51.3
WQTS995	Jo Mill Oil Company, LLC	Active	Gail	TX	BORDEN	32	40	43	101	39	28	52.8	341.2	467.4500	32.8	70.7	34.5	-60.7	0.0	-165.9	-165.9	-35.3	52.3
WQTS995	Jo Mill Oil Company, LLC	Active	Gail	TX	BORDEN	32	40	43	101	39	28	52.8	341.2	467.4500	32.8	70.7	34.5	-60.7	0.0	-165.9	-165.9	-35.3	52.3
WQQA639	EnerVest Operating, LLC	Active	Tarzan	TX	MARTIN	32	22	59	102	8	8	64.4	285.7	467.4500	40.0	70.7	36.2	-60.7	0.0	-167.6	-167.6	-37.0	54.0
WQRN873	FASKEN OIL AND RANCH LTD	Active	MIDLAND	TX	MIDLAND	32	1	32.8	102	9	45.3	68.6	251.0	467.4375	42.6	70.9	36.7	-60.7	0.0	-168.3	-168.3	-37.7	54.7
WQOU670	StandWildcat Minerals LLC	Active	Midland	TX	MIDLAND	31	54	45.8	102	13	37.3	79.1	243.8	467.4375	49.2	70.9	38.0	-60.7	0.0	-169.5	-169.5	-38.9	55.9
WRCN736	QEP ENERGY	Active	TARZAN	TX	MARTIN	32	19	23.6	102	10	27.5	66.6	279.3	467.4250	41.4	71.0	36.5	-60.7	0.0	-168.2	-168.2	-37.6	54.6
WQVZ572	Stanton Wind Energy LLC	Active	Lenorah	TX	HOWARD	32	7	11.8	101	29	40.3	12.1	188.2	467.4000	7.5	71.3	21.7	-60.7	0.0	-153.6	-153.6	-23.0	40.0



TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20°Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (dBm) (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WPYB792	PROFESSIONAL COMMUNICATIONS	Active	SNYDER	TX	SCURRY	32	42	31	101	0	20	69.2	39.4	467.4000	43.0	71.3	36.8	-60.7	0.0	-168.8	-168.8	-38.2	55.2
WRCD467	TWIN EAGLE	Active	BIG SPRING	TX	HOWARD	32	11	40.4	101	37	4.6	13.9	254.3	467.3875	8.6	71.4	22.9	-60.7	0.0	-155.0	-155.0	-24.4	41.4
WQRD888	RSP PERMIAN LLC	Active	MIDLAND	TX	MIDLAND	32	0	59.6	102	11	22.9	71.3	250.9	467.3875	44.3	71.4	37.1	-60.7	0.0	-169.2	-169.2	-38.6	55.6
WRFY951	Crossroads Operating	Active	VINCENT	TX	HOWARD	32	31	16	101	13	32	40.1	35.8	467.3750	24.9	71.6	32.1	-60.7	0.0	-164.3	-164.3	-33.7	50.7
WPQJ402	LUBBOCK, CITY OF	Active	LUBBOCK	TX	LYNN	32	34	40.4	101	46	23.5	47.8	324.4	467.3750	29.7	71.6	33.6	-60.7	0.0	-165.9	-165.9	-35.3	52.3
WQOU670	StandWildcat Minerals LLC	Active	Midland	TX	MIDLAND	31	54	45.8	102	13	37.3	79.1	243.8	467.3625	49.2	71.7	38.0	-60.7	0.0	-170.4	-170.4	-39.8	56.8
WRJX267	MIDLAND INDEPENDENT SCHOOL DIS	Active	MIDLAND	TX	MIDLAND	31	59	46.1	102	4	52.6	62.6	245.8	467.3500	38.9	71.9	35.9	-60.7	0.0	-168.5	-168.5	-37.9	54.9
WQSX510	MIDLAND CHRISTIAN SCHOOL	Active	MIDLAND	TX	MIDLAND	32	0	42.7	102	6	58.3	65.0	248.4	467.3375	40.4	72.0	36.3	-60.7	0.0	-169.0	-169.0	-38.4	55.4
WPNZ447	Waste Control Specialists LLC	Active	Andrews	TX	ANDREWS	32	19	19.1	102	11	9.5	67.7	279.1	467.3375	42.1	72.0	36.6	-60.7	0.0	-169.3	-169.3	-38.7	55.7
WRB5384	ODESSA COUNTRY CLUB	Active	ODESSA	TX	ODESSA	31	53	39.7	102	17	5.4	84.9	244.2	467.3375	52.8	72.0	38.6	-60.7	0.0	-171.3	-171.3	-40.7	57.7
WQKE964	E. ON CLIMATE & RENEWABLES	Active	BIG SPRING	TX	STERLING	32	0	44.9	101	13	45.5	33.4	135.9	467.3250	20.8	72.2	30.5	-60.7	0.0	-163.3	-163.3	-32.7	49.7
WQRN873	FASKEN OIL AND RANCH LTD	Active	MIDLAND	TX	MIDLAND	32	1	32.8	102	9	45.3	68.6	251.0	467.3125	42.6	72.3	36.7	-60.7	0.0	-169.7	-169.7	-39.1	56.1
WQYE846	DIAMOND WTG ENGINEERING & SERV	Active	FLUVANNA	TX	SCURRY	32	53	9	101	8	56	79.1	22.7	467.3125	49.2	72.3	38.0	-60.7	0.0	-171.0	-171.0	-40.4	57.4
WQSL848	Self Radio, Inc.	Active	Sterling City	TX	STERLING	31	43	27	101	2	5	69.8	143.3	467.3000	43.4	72.4	36.9	-60.7	0.0	-170.0	-170.0	-39.4	56.4
WQVA754	EDF Renewable Services	Active	ODonnell	TX	BORDEN	32	53	40.5	101	39	22.1	75.8	347.2	467.3000	47.1	72.4	37.6	-60.7	0.0	-170.7	-170.7	-40.1	57.1
WPNY410	Occidental Permian Ltd	Active	SNYDER	TX	SCURRY	32	57	7.5	100	53	9.8	97.5	34.3	467.3000	60.6	72.4	39.8	-60.7	0.0	-172.9	-172.9	-42.3	59.3
WQSX510	MIDLAND CHRISTIAN SCHOOL	Active	MIDLAND	TX	MIDLAND	32	0	42.7	102	6	58.3	65.0	248.4	467.2875	40.4	72.6	36.3	-60.7	0.0	-169.5	-169.5	-38.9	55.9
WPNZ447	Waste Control Specialists LLC	Active	Andrews	TX	ANDREWS	32	19	19.1	102	11	9.5	67.7	279.1	467.2875	42.1	72.6	36.6	-60.7	0.0	-169.9	-169.9	-39.3	56.3
WQWL655	Air Products & Chemicals Inc	Active	Odessa	TX	ECTOR	31	51	8.6	102	18	31	89.0	242.2	467.2750	55.3	72.7	39.0	-60.7	0.0	-172.4	-172.4	-41.8	58.8
WQRN873	FASKEN OIL AND RANCH LTD	Active	MIDLAND	TX	MIDLAND	32	1	32.8	102	9	45.3	68.6	251.0	467.2625	42.6	72.9	36.7	-60.7	0.0	-170.3	-170.3	-39.7	56.7
WQOU670	StandWildcat Minerals LLC	Active	Midland	TX	MIDLAND	31	54	45.8	102	13	37.3	79.1	243.8	467.2625	49.2	72.9	38.0	-60.7	0.0	-171.5	-171.5	-40.9	57.9
WRJX267	MIDLAND INDEPENDENT SCHOOL DIS	Active	MIDLAND	TX	MIDLAND	31	59	59.7	102	5	5	62.8	246.3	467.2500	39.0	73.0	36.0	-60.7	0.0	-169.7	-169.7	-39.1	56.1
WQJV779	Eurus Energy America Corp.	Active	Odonnell	TX	BORDEN	32	55	24.8	101	33	32.6	77.5	354.3	467.2500	48.2	73.0	37.8	-60.7	0.0	-171.5	-171.5	-40.9	57.9
WQWL655	Air Products & Chemicals Inc	Active	Odessa	TX	ECTOR	31	51	8.6	102	18	31	89.0	242.2	467.2500	55.3	73.0	39.0	-60.7	0.0	-172.7	-172.7	-42.1	59.1
WQUR344	Petro Communications Inc	Active	Odessa	TX	ECTOR	32	2	52.9	102	17	45.5	79.9	255.7	467.2250	49.6	73.3	38.1	-60.7	0.0	-172.1	-172.1	-41.5	58.5
WRHU853	GRADY ISD	Active	LENORAH	TX	MARTIN	32	18	28.5	101	55	42.4	43.5	281.9	467.2125	27.0	73.5	32.8	-60.7	0.0	-166.9	-166.9	-36.3	53.3
WQWY664	GREENWOOD INDEPENDENT SCHOOL	Active	MIDLAND	TX	MIDLAND	32	1	24.8	101	53	43.6	45.6	240.1	467.2125	28.3	73.5	33.2	-60.7	0.0	-167.3	-167.3	-36.7	53.7
WQXC236	COLORADO ISD	Active	COLORADO CITY	TX	MITCHELL	32	23	53.7	100	51	40	60.9	71.7	467.2125	37.8	73.5	35.7	-60.7	0.0	-169.8	-169.8	-39.2	56.2
WQQH270	MIDLAND COUNTY	Active	MIDLAND	TX	MIDLAND	32	0	7.8	102	4	30.5	61.8	246.1	467.2125	38.4	73.5	35.8	-60.7	0.0	-170.0	-170.0	-39.4	56.4
WQYX204	STERLING CITY ISD	Active	STERLING CITY	TX	STERLING	31	50	23.2	100	59	14.8	63.1	133.0	467.2125	39.2	73.5	36.0	-60.7	0.0	-170.1	-170.1	-39.5	56.5
WQSX510	MIDLAND CHRISTIAN SCHOOL	Active	MIDLAND	TX	MIDLAND	32	0	42.7	102	6	58.3	65.0	248.4	467.2125	40.4	73.5	36.3	-60.7	0.0	-170.4	-170.4	-39.8	56.8
WQNF281	UNIVERSITY OF TEXAS OF THE PERMIA	Active	ODESSA	TX	ECTOR	31	52	53.2	102	19	17.2	88.6	244.4	467.2125	55.1	73.5	38.9	-60.7	0.0	-173.1	-173.1	-42.5	59.5
WPWW464	J P Jenkins Inc	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	467.2000	50.0	73.6	38.1	-60.7	0.0	-172.4	-172.4	-41.8	58.8
WQUL397	URS J W Williams	Active	Midland	TX	MIDLAND	31	56	57	102	16	39	81.7	247.9	467.1875	50.8	73.7	38.2	-60.7	0.0	-172.7	-172.7	-42.1	59.1
WQQA641	Texas Communications of San Angelo,	Active	Sterling City	TX	STERLING	31	51	20	101	1	39	59.2	134.3	467.1750	36.8	73.9	35.4	-60.7	0.0	-170.0	-170.0	-39.4	56.4
WQTX723	Lamesa ISD	Active	Lamesa	TX	DAWSON	32	44	0	101	57	16.8	71.8	321.5	467.1750	44.6	73.9	37.1	-60.7	0.0	-171.7	-171.7	-41.1	58.1
WQPW949	Snyder Wind Farm, LLC	Active	Hermleigh	TX	SCURRY	32	44	20.4	100	44	18.6	89.5	50.4	467.1750	55.6	73.9	39.0	-60.7	0.0	-173.6	-173.6	-43.0	60.0
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	467.1500	49.2	74.2	38.0	-60.7	0.0	-172.8	-172.8	-42.2	59.2
WPUU332	J P Jenkins, Inc dba South Plains Comm	Active	SNYDER	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	467.1500	50.5	74.2	38.2	-60.7	0.0	-173.1	-173.1	-42.5	59.5
WQWL655	Air Products & Chemicals Inc	Active	Odessa	TX	ECTOR	31	51	8.6	102	18	31	89.0	242.2	467.1500	55.3	74.2	39.0	-60.7	0.0	-173.9	-173.9	-43.3	60.3
WQOH821	APACHE CORPORATION	Active	GARDEN CITY	TX	GLASSCOCK	31	55	26.8	101	31	37.3	34.1	188.1	467.1250	21.2	74.5	30.7	-60.7	0.0	-165.8	-165.8	-35.2	52.2
WQUR344	Petro Communications Inc	Active	Odessa	TX	ECTOR	32	2	52.9	102	17	45.5	79.9	255.7	467.1250	49.6	74.5	38.1	-60.7	0.0	-173.2	-173.2	-42.6	59.6
WQQS605	ALON USA LP	Active	BIG SPRING	TX	HOWARD	32	16	2.4	101	16	2.4	20.1	77.5	467.1000	12.5	74.7	26.1	-60.7	0.0	-161.5	-161.5	-30.9	47.9
WPWM831	J P Jenkins Inc	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	467.1000	50.0	74.7	38.1	-60.7	0.0	-173.6	-173.6	-43.0	60.0
WQPK360	Petro Communications Inc.	Active	Midkiff	TX	GLASSCOCK	31	41	52	101	41	30	62.3	199.1	467.0875	38.7	74.9	35.9	-60.7	0.0	-171.5	-171.5	-40.9	57.9
WQQD769	ALON USA	Active	BIG SPRING	TX	HOWARD	32	16	4.3	101	24	42.2	7.5	54.0	467.0750	4.7	75.0	17.5	-60.7	0.0	-153.2	-153.2	-22.6	39.6
WQCM900	Professional Communications	Active	KEY	TX	DAWSON	32	44	35	101	43	39	61.8	337.7	467.0625	38.4	75.2	35.8	-60.7	0.0	-171.7	-171.7	-41.1	58.1
WQIY684	J P Jenkins, Inc	Active	Snyder	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	467.0500	50.5	75.3	38.2	-60.7	0.0	-174.2	-174.2	-43.6	60.6
WQWL655	Air Products & Chemicals Inc	Active	Odessa	TX	ECTOR	31	51	8.6	102	18	31	89.0	242.2	467.0500	55.3	75.3	39.0	-60.7	0.0	-175.0	-175.0	-44.4	61.4
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	467.0250	49.2	75.6	38.0	-60.7	0.0	-174.3	-174.3	-43.7	60.7

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20*Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (dBm) (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WQUR344	Petro Communications Inc	Active	Odessa	TX	ECTOR	32	2	52.9	102	17	45.5	79.9	255.7	467.0250	49.6	75.6	38.1	-60.7	0.0	-174.4	-174.4	-43.8	60.8
WQES953	Professional Communications	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	467.0125	50.0	75.8	38.1	-60.7	0.0	-174.6	-174.6	-44.0	61.0
WQRR200	ODESSA ORCHARD PARK PARTNERS, L	Active	ODESSA	TX	ECTOR	31	55	15.9	102	17	19.6	84.0	246.2	467.0125	52.2	75.8	38.5	-60.7	0.0	-174.9	-174.9	-44.3	61.3
WRH5422	WHITETAIL GENERAL CONSTRUCTORS	Active	MIDLAND	TX	MIDLAND	32	1	25.9	101	57	52.7	51.4	243.8	467.0000	31.9	75.9	34.2	-60.7	0.0	-170.8	-170.8	-40.2	57.2
WQSF939	Texas Communs. of San Angelo	Active	Silver	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	467.0000	48.7	75.9	37.9	-60.7	0.0	-174.5	-174.5	-43.9	60.9
WQPK360	Petro Communications Inc.	Active	Patricia	TX	ANDREWS	32	30	13.6	102	16	41.7	81.4	292.3	466.9875	50.6	76.0	38.2	-60.7	0.0	-174.9	-174.9	-44.3	61.3
WQFF897	JCPenney Shared Services Center	Active	MIDLAND	TX	MIDLAND	32	1	55	102	7	44	65.3	250.6	466.9625	40.6	76.3	36.3	-60.7	0.0	-173.3	-173.3	-42.7	59.7
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	466.9625	49.2	76.3	38.0	-60.7	0.0	-175.0	-175.0	-44.4	61.4
WRJX267	MIDLAND INDEPENDENT SCHOOL DIS	Active	MIDLAND	TX	MIDLAND	31	59	46.1	102	4	52.6	62.6	245.8	466.9375	38.9	76.6	35.9	-60.7	0.0	-173.2	-173.2	-42.6	59.6
WQUR344	Petro Communications Inc	Active	Odessa	TX	ECTOR	32	2	52.9	102	17	45.5	79.9	255.7	466.9125	49.6	76.9	38.1	-60.7	0.0	-175.6	-175.6	-45.0	62.0
WRCF654	Grady Independent School District	Active	Lenorah	TX	MARTIN	32	18	27.1	101	55	49.3	43.7	281.8	466.8875	27.2	77.2	32.8	-60.7	0.0	-170.7	-170.7	-40.1	57.1
WQIA576	Capricorn Ridge Wind, LLC	Active	STERLING CITY	TX	STERLING	31	57	46.4	100	54	44.5	60.8	118.9	466.8875	37.8	77.2	35.7	-60.7	0.0	-173.6	-173.6	-43.0	60.0
WRBS384	ODESSA COUNTRY CLUB	Active	ODESSA	TX	MIDLAND	31	53	39.7	102	17	5.4	84.9	244.2	466.8625	52.8	77.5	38.6	-60.7	0.0	-176.7	-176.7	-46.1	63.1
WQOS330	South Plains Communications	Active	Patricia	TX	DAWSON	32	36	16	102	9	52	77.0	303.1	466.8500	47.8	77.6	37.7	-60.7	0.0	-176.0	-176.0	-45.4	62.4
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	466.8500	49.2	77.6	38.0	-60.7	0.0	-176.3	-176.3	-45.7	62.7
WQPK360	Petro Communications Inc.	Active	Midkiff	TX	GLASSCOCK	31	41	52	101	41	30	62.3	199.1	466.8375	38.7	77.8	35.9	-60.7	0.0	-174.3	-174.3	-43.7	60.7
WQVW865	STOGNER PUMPING SERVICE INC DBA	Active	LAMESA	TX	DAWSON	32	43	24.4	101	56	27.6	70.2	321.7	466.8250	43.6	77.9	36.9	-60.7	0.0	-175.5	-175.5	-44.9	61.9
WQCM900	Professional Communications	Active	STERLING CITY	TX	TOM GREEN	31	32	47	101	2	17	86.2	151.3	466.8125	53.6	78.1	38.7	-60.7	0.0	-177.4	-177.4	-46.8	63.8
WQPK360	Petro Communications Inc.	Active	Patricia	TX	ANDREWS	32	30	13.6	102	16	41.7	81.4	292.3	466.8000	50.6	78.2	38.2	-60.7	0.0	-177.1	-177.1	-46.5	63.5
WPTK654	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	57	48	102	2	17	60.6	241.0	466.7875	37.7	78.3	35.6	-60.7	0.0	-174.7	-174.7	-44.1	61.1
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	466.7875	49.2	78.3	38.0	-60.7	0.0	-177.0	-177.0	-46.4	63.4
WQWGB37	Rattlesnake Wind Farms I LLC	Active	Garden City	TX	GLASSCOCK	31	44	57.1	101	27	58	53.1	179.0	466.7750	33.0	78.5	34.5	-60.7	0.0	-173.7	-173.7	-43.1	60.1
WRX378	HOOPER TRUCKING CO INC	Active	ODESSA	TX	ECTOR	32	2	54.4	102	18	5.5	80.4	255.8	466.7750	50.0	78.5	38.1	-60.7	0.0	-177.3	-177.3	-46.7	63.7
WQCM900	Professional Communications	Active	KEY	TX	DAWSON	32	44	35	101	43	39	61.8	337.7	466.7625	38.4	78.6	35.8	-60.7	0.0	-175.1	-175.1	-44.5	61.5
WPUK259	Kinder Morgan CO2 Company LLC	Active	SNYDER	TX	SCURRY	32	45	29	100	57	38	76.1	39.2	466.7500	47.3	78.8	37.6	-60.7	0.0	-177.1	-177.1	-46.5	63.5
WQYM998	Chevron USA Inc.	Active	Andrews	TX	ANDREWS	32	12	35.8	102	13	44.6	71.0	268.5	466.7250	44.1	79.1	37.0	-60.7	0.0	-176.8	-176.8	-46.2	63.2
WQTK723	Lamesa ISD	Active	Lamesa	TX	DAWSON	32	44	0	101	57	16.8	71.8	321.5	466.7250	44.6	79.1	37.1	-60.7	0.0	-176.9	-176.9	-46.3	63.3
WQYI684	J P Jenkins, Inc	Active	Snyder	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	466.7250	50.5	79.1	38.2	-60.7	0.0	-177.9	-177.9	-47.3	64.3
WPWJ632	Bear Communications, Inc.	Active	GIDDINGS	TX	LEE	32	43	22	102	1	52	75.7	316.7	466.7125	47.0	79.2	37.6	-60.7	0.0	-177.5	-177.5	-46.9	63.9
KNIR677	Spire Land and Cattle LP	Active	SNYDER	TX	KENT	32	56	40.4	100	54	3.4	96.0	33.9	466.7000	59.7	79.4	39.6	-60.7	0.0	-179.7	-179.7	-49.1	66.1
WRCV563	Targa Midstream Services LLC	Active	Midland	TX	MIDLAND	31	51	14.1	101	47	17.1	50.9	215.3	466.6875	31.6	79.5	34.1	-60.7	0.0	-174.3	-174.3	-43.7	60.7
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	466.6875	49.2	79.5	38.0	-60.7	0.0	-178.1	-178.1	-47.5	64.5
WQPK360	Petro Communications Inc.	Active	Patricia	TX	ANDREWS	32	30	13.6	102	16	41.7	81.4	292.3	466.6875	50.6	79.5	38.2	-60.7	0.0	-178.4	-178.4	-47.8	64.8
WQRE793	INDUSTRIAL COMMUNICATIONS INC	Active	ODESSA	TX	ECTOR	31	51	41.4	102	19	43.5	90.2	243.3	466.6750	56.0	79.6	39.1	-60.7	0.0	-179.4	-179.4	-48.8	65.8
WQES953	Professional Communications	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	466.6625	50.0	79.8	38.1	-60.7	0.0	-178.6	-178.6	-48.0	65.0
WNJH751	RANDOLPH, BOB	Active	GREENWOOD	TX	MIDLAND	32	1	5.4	101	57	16.5	50.8	242.7	466.6500	31.6	79.9	34.1	-60.7	0.0	-174.7	-174.7	-44.1	61.1
WQIA576	Capricorn Ridge Wind, LLC	Active	Sterling City	TX	STERLING	31	50	1.2	100	55	37.4	67.9	130.1	466.6500	42.2	79.9	36.6	-60.7	0.0	-177.2	-177.2	-46.6	63.6
WQKE964	E. ON CLIMATE & RENEWABLES	Active	STERLING CITY	TX	STERLING	31	59	33.7	101	3	53.3	46.8	124.0	466.6375	29.1	80.1	33.4	-60.7	0.0	-174.2	-174.2	-43.6	60.6
WQZE665	Siemens Gamesa Renewable Energy, Inc	Active	FLUVANNA	TX	SCURRY	32	53	23	101	9	26	79.2	22.0	466.6375	49.2	80.1	38.0	-60.7	0.0	-178.7	-178.7	-48.1	65.1
WQUR344	Petro Communications Inc	Active	Odessa	TX	ECTOR	32	2	52.9	102	17	45.5	79.9	255.7	466.6375	49.6	80.1	38.1	-60.7	0.0	-178.8	-178.8	-48.2	65.2
WPXR851	FAMILY DOLLAR	Active	ODESSA	TX	ECTOR	31	51	34.2	102	18	59.4	89.3	242.9	466.6250	55.5	80.2	39.0	-60.7	0.0	-179.9	-179.9	-49.3	66.3
WQVN471	Concho Valley Electric Coop	Active	Sterling City	TX	STERLING	31	51	20	101	1	39	59.2	134.3	466.6125	36.8	80.4	35.4	-60.7	0.0	-176.5	-176.5	-45.9	62.9
WQOZ264	FIRST PRESBYTERIAN CHURCH	Active	MIDLAND	TX	MIDLAND	31	59	55.2	102	5	3	62.8	246.1	466.6000	39.0	80.5	36.0	-60.7	0.0	-177.1	-177.1	-46.5	63.5
WQSL848	Self Radio, Inc.	Active	Sterling City	TX	STERLING	31	43	27	101	2	5	69.8	143.3	466.6000	43.4	80.5	36.9	-60.7	0.0	-178.1	-178.1	-47.5	64.5
WPAL752	WEST, LARRY	Active	SNYDER	TX	SCURRY	32	45	53.4	100	53	9.4	81.3	42.7	466.6000	50.5	80.5	38.2	-60.7	0.0	-179.4	-179.4	-48.8	65.8
WQPK360	Petro Communications Inc.	Active	Midkiff	TX	GLASSCOCK	31	41	52	101	41	30	62.3	199.1	466.5875	38.7	80.6	35.9	-60.7	0.0	-177.2	-177.2	-46.6	63.6
WNME726	TEXAS COMMUNICATIONS OF SAN AN	Active	STERLING CITY	TX	STERLING	31	51	20.5	101	1	39.4	59.2	134.3	466.5750	36.8	80.8	35.4	-60.7	0.0	-176.9	-176.9	-46.3	63.3
WQNE416	Quail Run Energy GP Holdings, LLC.	Active	ODESSA	TX	ECTOR	31	51	30.6	102	18	18.1	88.4	242.5	466.5750	54.9	80.8	38.9	-60.7	0.0	-180.4	-180.4	-49.8	66.8
WQRL375	J & J Oilfield Electric Co Inc	Active	COAHOMA	TX	HOWARD	32	17	32.2	101	18	38.5	17.1	65.4	466.5625	10.6	80.9	24.7	-60.7	0.0	-166.3	-166.3	-35.7	52.7
WPTK654	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	57	48	102	2	17	60.6	241.0	466.5625	37.7	80.9	35.6	-60.7	0.0	-177.3	-177.3	-46.7	63.7

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20°Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WQQD769	ALON USA	Active	BIG SPRING	TX	HOWARD	32	16	4.3	101	24	42.2	7.5	54.0	466.5500	4.7	81.1	17.5	-60.7	0.0	-159.3	-159.3	-28.7	45.7
WPYB792	PROFESSIONAL COMMUNICATIONS	Active	SNYDER	TX	SCURRY	32	42	31	101	0	20	69.2	39.4	466.5250	43.0	81.4	36.8	-60.7	0.0	-178.8	-178.8	-48.2	65.2
WNPG768	INDUSTRIAL COMMUNICATIONS INC	Active	ODESSA	TX	ECTOR	31	51	41.5	102	19	44.5	90.2	243.3	466.5250	56.0	81.4	39.1	-60.7	0.0	-181.1	-181.1	-50.5	67.5
WQPG693	GREEN TREE COUNTRY CLUB	Active	MIDLAND	TX	MIDLAND	32	3	21.6	102	9	47.5	67.6	253.7	466.5125	42.0	81.5	36.6	-60.7	0.0	-178.8	-178.8	-48.2	65.2
WRJX267	MIDLAND INDEPENDENT SCHOOL DIS	Active	MIDLAND	TX	MIDLAND	31	59	46.1	102	4	52.6	62.6	245.8	466.5000	38.9	81.7	35.9	-60.7	0.0	-178.3	-178.3	-47.7	64.7
WQWE671	Big Country Electric Cooperative	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	466.4875	50.0	81.8	38.1	-60.7	0.0	-180.6	-180.6	-50.0	67.0
WQCM900	Professional Communications	Active	KEY	TX	DAWSON	32	44	35	101	43	39	61.8	337.7	466.4625	38.4	82.1	35.8	-60.7	0.0	-178.6	-178.6	-48.0	65.0
WQES953	Professional Communications	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	466.4125	50.0	82.7	38.1	-60.7	0.0	-181.4	-181.4	-50.8	67.8
WQCM900	Professional Communications	Active	STERLING CITY	TX	TOM GREEN	31	32	47	101	2	17	86.2	151.3	466.4125	53.6	82.7	38.7	-60.7	0.0	-182.0	-182.0	-51.4	68.4
WPML570	SPEIGHT, CARL: SPEIGHT, JOHN: SPEIGH	Active	BIG SPRING	TX	HOWARD	32	11	6.4	101	27	57.4	4.9	168.7	466.4000	3.0	82.8	13.8	-60.7	0.0	-157.3	-157.3	-26.7	43.7
WPML570	SPEIGHT, CARL: SPEIGHT, JOHN: SPEIGH	Active	MIDLAND	TX	MIDLAND	31	54	32	102	4	2	66.1	237.6	466.4000	41.1	82.8	36.4	-60.7	0.0	-179.9	-179.9	-49.3	66.3
WRML288	REDEEMER CHURCH	Active	MIDLAND	TX	MIDLAND	32	0	1.8	102	4	38.7	62.1	246.1	466.3875	38.6	82.9	35.9	-60.7	0.0	-179.5	-179.5	-48.9	65.9
WPXR851	FAMILY DOLLAR	Active	ODESSA	TX	ECTOR	31	51	34.2	102	18	59.4	89.3	242.9	466.3750	55.5	83.1	39.0	-60.7	0.0	-182.8	-182.8	-52.2	69.2
WQOH821	APACHE CORPORATION	Active	GARDEN CITY	TX	GLASSCOCK	31	55	26.8	101	31	37.3	34.1	188.1	466.3500	21.2	83.4	30.7	-60.7	0.0	-174.7	-174.7	-44.1	61.1
WQUR344	Petro Communications Inc	Active	Odessa	TX	ECTOR	32	2	52.9	102	17	45.5	79.9	255.7	466.3500	49.6	83.4	38.1	-60.7	0.0	-182.1	-182.1	-51.5	68.5
WQSF939	Texas Communs. of San Angelo	Active	Silver	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	466.3250	48.7	83.7	37.9	-60.7	0.0	-182.2	-182.2	-51.6	68.6
WNMK680	NOLEN H COPE INC DBA COPE SAND &	Active	LAMESA	TX	DAWSON	32	42	52.4	101	56	32.6	69.5	321.2	466.3000	43.2	83.9	36.8	-60.7	0.0	-181.5	-181.5	-50.9	67.9
WQWE671	Big Country Electric Cooperative	Active	Snyder	TX	SCURRY	32	45	47.8	100	53	9.9	81.2	42.8	466.3000	50.5	83.9	38.2	-60.7	0.0	-182.8	-182.8	-52.2	69.2
WPXR851	FAMILY DOLLAR	Active	ODESSA	TX	ECTOR	31	51	34.2	102	18	59.4	89.3	242.9	466.3000	55.5	83.9	39.0	-60.7	0.0	-183.6	-183.6	-53.0	70.0
WPBV227	Professional Communications	Active	BIG SPRING	TX	HOWARD	32	13	6.4	101	27	10.4	2.4	116.6	466.2750	1.5	84.2	7.6	-60.7	0.0	-152.5	-152.5	-21.9	38.9
WPF1279	WILLIAMS RANCH BIG SPRING	Active	BIG SPRING	TX	HOWARD	32	13	6.4	101	27	10.4	2.4	116.6	466.2750	1.5	84.2	7.6	-60.7	0.0	-152.5	-152.5	-21.9	38.9
WPBV227	Professional Communications	Active	MIDLAND	TX	MIDLAND	31	58	1.4	102	7	7.5	67.2	244.5	466.2750	41.8	84.2	36.5	-60.7	0.0	-181.5	-181.5	-50.9	67.9
WQFC983	Stonegate Fellowship Church	Active	Midland	TX	MIDLAND	32	0	35	102	10	2	69.6	249.7	466.2500	43.2	84.5	36.9	-60.7	0.0	-182.0	-182.0	-51.4	68.4
WQQD769	ALON USA	Active	BIG SPRING	TX	HOWARD	32	16	4.3	101	24	42.2	7.5	54.0	466.2250	4.7	84.8	17.5	-60.7	0.0	-163.0	-163.0	-32.4	49.4
WPXR851	FAMILY DOLLAR	Active	ODESSA	TX	ECTOR	31	51	34.2	102	18	59.4	89.3	242.9	466.2250	55.5	84.8	39.0	-60.7	0.0	-184.5	-184.5	-53.9	70.9
WPML570	SPEIGHT, CARL: SPEIGHT, JOHN: SPEIGH	Active	MIDLAND	TX	MIDLAND	31	54	32	102	4	2	66.1	237.6	466.2000	41.1	85.1	36.4	-60.7	0.0	-182.2	-182.2	-51.6	68.6
WQSL848	Self Radio, Inc.	Active	Colorado City	TX	MITCHELL	32	22	8.8	100	53	32.8	57.1	73.9	466.1750	35.5	85.4	35.1	-60.7	0.0	-181.2	-181.2	-50.6	67.6
WQVA754	EDF Renewable Services	Active	ODonnell	TX	BORDEN	32	53	40.5	101	39	22.1	75.8	347.2	466.1750	47.1	85.4	37.6	-60.7	0.0	-183.7	-183.7	-53.1	70.1
WRJF697	Petro Communications Inc.	Active	MIDLAND	TX	MIDLAND	31	59	0	102	3	3	60.7	243.4	466.1500	37.7	85.7	35.7	-60.7	0.0	-182.0	-182.0	-51.4	68.4
WNHX792	JOHNSON FLYING SERVICE INC	Active	LAMESA	TX	DAWSON	32	42	31.4	101	58	57.6	71.5	318.5	466.1500	44.4	85.7	37.1	-60.7	0.0	-183.4	-183.4	-52.8	69.8
WQSF939	Texas Communs. of San Angelo	Active	Silver	TX	NOLAN	32	6	36.9	100	39	24.9	78.4	99.4	466.1500	48.7	85.7	37.9	-60.7	0.0	-184.2	-184.2	-53.6	70.6
WQOQ679	Dillards, Inc.	Active	Midland	TX	MIDLAND	32	1	55	102	7	44	65.3	250.6	466.1250	40.6	86.0	36.3	-60.7	0.0	-182.9	-182.9	-52.3	69.3
WPUK259	Kinder Morgan CO2 Company LLC	Active	SNYDER	TX	SCURRY	32	45	29	100	57	38	76.1	39.2	466.1250	47.3	86.0	37.6	-60.7	0.0	-184.3	-184.3	-53.7	70.7
WPWW464	J P Jenkins Inc	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	466.1000	50.0	86.2	38.1	-60.7	0.0	-185.0	-185.0	-54.4	71.4
WPWM831	J P Jenkins Inc	Active	Fluvanna	TX	SCURRY	32	53	7.3	101	6	40.5	80.5	25.0	466.0750	50.0	86.5	38.1	-60.7	0.0	-185.3	-185.3	-54.7	71.7
WQSL358	Apache Corporation	Active	Midland	TX	MIDLAND	31	41	31.9	102	8	33.7	86.6	226.7	466.0750	53.8	86.5	38.8	-60.7	0.0	-186.0	-186.0	-55.4	72.4
WQSL358	Apache Corporation	Active	Midland	TX	MIDLAND	31	41	31.9	102	8	33.7	86.6	226.7	466.0750	53.8	86.5	38.8	-60.7	0.0	-186.0	-186.0	-55.4	72.4
WRCF654	Grady Independent School District	Active	Lenorah	TX	MARTIN	32	18	27.1	101	55	49.3	43.7	281.8	466.0500	27.2	86.8	32.8	-60.7	0.0	-180.3	-180.3	-49.7	66.7
KB93836	XTO Energy, Inc.	Active	TX	GLASSCOCK	31	51	50.5	101	29	1.4	40.4	181.0	466.0375	25.1	87.0	32.1	-60.7	0.0	-179.8	-179.8	-49.2	66.2	
KB93836	XTO Energy, Inc.	Active	TX	DAWSON	32	33	20.4	102	1	11.6	62.7	305.6	466.0375	39.0	87.0	35.9	-60.7	0.0	-183.6	-183.6	-53.0	70.0	
WQYM216	APACHE CORPORATION	Active	Midland	TX	MIDLAND	31	57	21.4	102	8	38.5	69.9	244.5	466.0250	43.4	87.1	36.9	-60.7	0.0	-184.7	-184.7	-54.1	71.1
WQYM216	APACHE CORPORATION	Active	Midland	TX	MIDLAND	31	57	21.4	102	8	38.5	69.9	244.5	466.0250	43.4	87.1	36.9	-60.7	0.0	-184.7	-184.7	-54.1	71.1
WPXH452	Southwest dispatch Center, L.P.	Active	ODESSA	TX	ECTOR	31	53	14.7	102	17	35.6	85.9	244.0	465.9375	53.4	88.1	38.7	-60.7	0.0	-187.5	-187.5	-56.9	73.9
WPXH452	SOUTHWEST DISPATCH CENTER, L.P.	Pending	ODESSA	TX	ECTOR	31	53	14.7	102	17	35.6	85.9	244.0	465.9375	53.4	88.1	38.7	-60.7	0.0	-187.5	-187.5	-56.9	73.9
WDU930	APROTEX CORPORATION	Active	MIDLAND	TX	MIDLAND	31	59	0.4	102	5	56.5	64.8	245.3	465.9000	40.3	88.6	36.2	-60.7	0.0	-185.4	-185.4	-54.8	71.8
WQWU643	LANDMARK AVIATION	Active	MIDLAND	TX	MIDLAND	31	56	15.4	102	12	24.5	76.1	245.0	465.8500	47.3	89.1	37.6	-60.7	0.0	-187.4	-187.4	-56.8	73.8
WQZP828	SIGNATURE FLIGHT SUPPORT	Active	MIDLAND	TX	MIDLAND	31	56	22.3	102	12	30.9	76.2	245.2	465.8500	47.3	89.1	37.6	-60.7	0.0	-187.4	-187.4	-56.8	73.8
WQXY455	United Ground Express, Inc.	Active	Midland	TX	MIDLAND	31	56	31.8	102	12	26.8	76.0	245.4	465.7000	47.2	90.9	37.6	-60.7	0.0	-189.1	-189.1	-58.5	75.5
WPWK985	City of Big Spring	Active	BIG SPRING	TX	HOWARD	32	15	9.7	101	28	21	2.7	7.1	465.5500	1.7	92.6	8.6	-60.7	0.0	-161.9	-161.9	-31.3	48.3
WPWK985	City of Big Spring	Active	BIG SPRING	TX	HOWARD	32	14	6	101	30	43.5	3.5	282.4	465.5500	2.2	92.6	10.9	-60.7	0.0	-164.1	-164.1	-33.5	50.5

TABULATION OF LAND MOBILE RECORDS AND INTERFERENCE ANALYSIS  
K14QN-D, BIG SPRING, TEXAS, CHANNEL 14 (FULL-SERVICE EMISSION MASK)

Callsign	Licensee Name	Status Code	Location City	Location State	Location County	Latitude Degrees	Latitude Minutes	Latitude Seconds	Longitude Degrees	Longitude Minutes	Longitude Seconds	Distance From Center (km)	Azimuth From Center	Assigned Frequency	Distance (mi.)	FCC Full-Service Mask Req. (dB)	20*Log (Dist km) (dB)	Calc. Loss (dB)	Az. Pat. Discrim. (dB)	IX (dBm) (w/o Az. Discrim.)	Total IX (dBm)	Total IX (in dBu)	Margin above Limit
WPWK985	City of Big Spring	Active	BIG SPRING	TX	HOWARD	32	13	21.4	101	27	34.4	1.7	112.1	465.5250	1.1	92.9	4.6	-60.7	0.0	-158.1	-158.1	-27.5	44.5
WNKA931	Occidental Permian Ltd	Active	WELCH	TX	GAINES	32	51	3.4	102	14	59.8	100.3	313.9	465.5000	62.3	93.2	40.0	-60.7	0.0	-193.8	-193.8	-63.2	80.2
WNKA931	Occidental Permian Ltd	Active	WELCH	TX	GAINES	32	51	3.4	102	14	59.8	100.3	313.9	465.5000	62.3	93.2	40.0	-60.7	0.0	-193.8	-193.8	-63.2	80.2
KNJY731	Chevron USA Inc.	Active	ANDREWS	TX	ANDREWS	32	11	49.4	102	15	24.5	73.7	267.5	465.1750	45.8	96.9	37.3	-60.7	0.0	-194.9	-194.9	-64.3	81.3
KNJY731	Chevron USA Inc.	Active	ANDREWS	TX	ANDREWS	32	11	49.4	102	15	24.5	73.7	267.5	465.1750	45.8	96.9	37.3	-60.7	0.0	-194.9	-194.9	-64.3	81.3
KNJY731	Chevron USA Inc.	Pending	ANDREWS	TX	ANDREWS	32	11	49.4	102	15	24.5	73.7	267.5	465.1750	45.8	96.9	37.3	-60.7	0.0	-194.9	-194.9	-64.3	81.3
KNJY731	Chevron USA Inc.	Pending	ANDREWS	TX	ANDREWS	32	11	49.4	102	15	24.5	73.7	267.5	465.1750	45.8	96.9	37.3	-60.7	0.0	-194.9	-194.9	-64.3	81.3
WRCC307	CATALYST OILFIELD SERVICES	Active	GARDENDALE	TX	ECTOR	32	3	15.9	102	17	46.6	79.7	256.2	465.0000	49.5	98.9	38.0	-60.6	0.0	-197.6	-197.6	-67.0	84.0