

## KWYO

Freq: 1410 kHz  
Class: B  
Latitude: 44-47-54 N  
Longitude: 106-55-51 W  
Power: 5 kW  
RMS: 327.36 mV/m @1km

## KWYO-STA

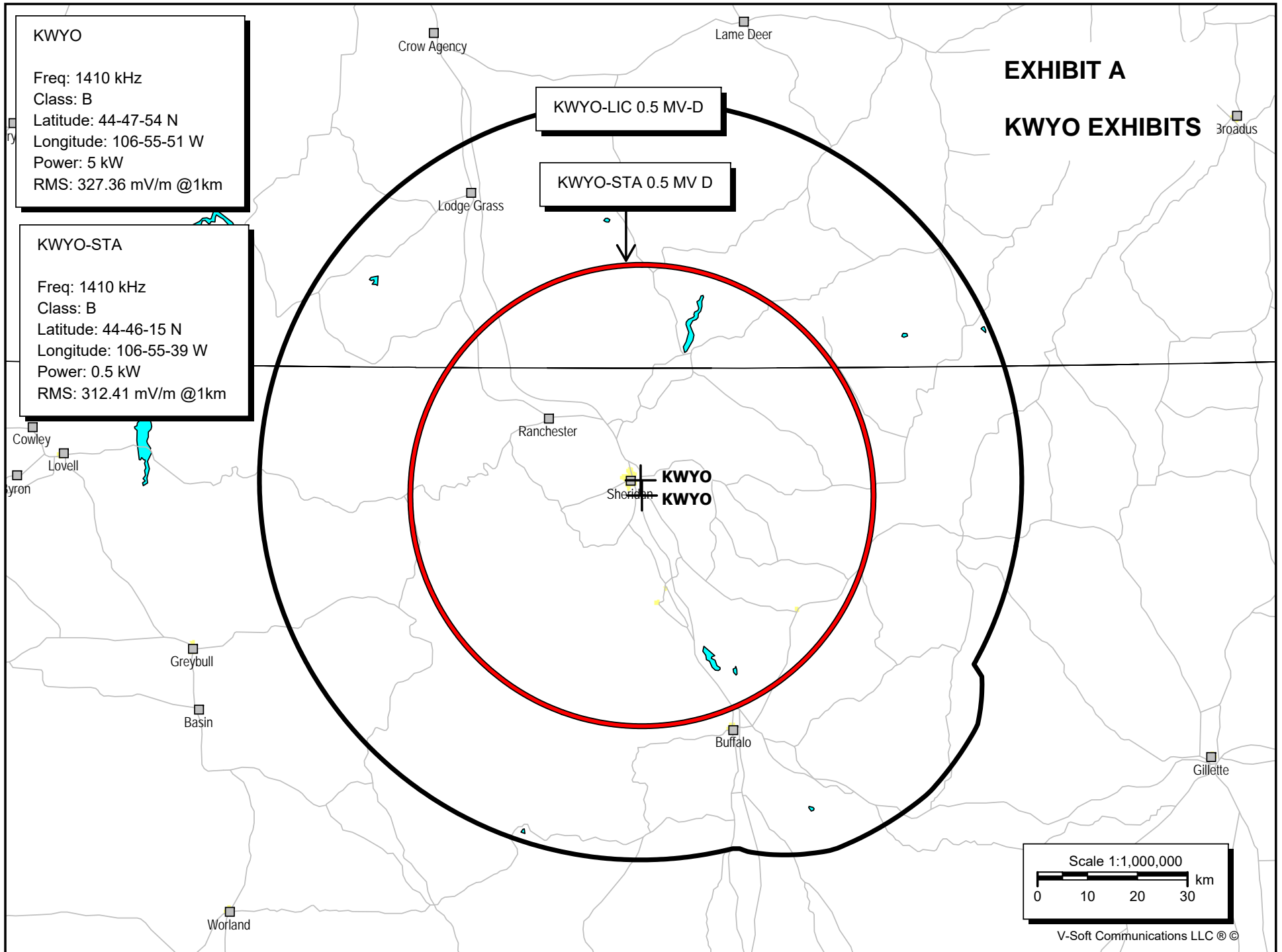
Freq: 1410 kHz  
Class: B  
Latitude: 44-46-15 N  
Longitude: 106-55-39 W  
Power: 0.5 kW  
RMS: 312.41 mV/m @1km

KWYO-LIC 0.5 MV-D

KWYO-STA 0.5 MV D

## EXHIBIT A

## KWYO EXHIBITS



# KWYO STA Night Allocation Protection Report

Call: KWYO  
 Freq: 1410 kHz  
 SHERIDAN, WY, US  
 Hours: N  
 Lat: 44-46-15 N  
 Lng: 106-55-39 W  
 Power: 0.35 kW  
 Theo RMS: 312.41 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	100.6	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KIIX	US	CO	FORT COLLINS	114.03	4.082	178.98	174.55	4.43
50% = 7.959, 25% = 8.853; KOOQ=4.87 WIZM=4.79 KWYO=4.08 WING=2.90 KKLO=2.57								
KDKT	US	ND	BEULAH	102.54	3.711	180.97	174.42	6.55
50% = 9.24, 25% = 10.471; WIZM=5.69 KRWB=5.30 KIIX=4.98 KWYO=3.71 KOOQ=3.24								
KERI	US	CA	BAKERSFIELD	21.68	0.979	225.78	184.59	41.19
50% = 2.707, 25% = 3.989; XEXX/A=1.44 KKJL=1.39 KUNX=1.29 KRZR=1.29 WIZM=1.25 XECF/A=1.22 WING=1.14 KESQ=1.11 KSHP=1.04 XEBS/A=0.98 KGSO=0.98								
KOOQ	US	NE	NORTH PLATTE	75.37	3.384	224.47	179.25	45.22
50% = 10.847, 25% = 13.535; WIZM=9.00 KGSO=6.05 KKLO=4.92 KIIX=4.77 WING=4.32								
WIZM	US	WI	LA CROSSE	21.15	1.003	237.23	184.21	53.02
50% = 3.545, 25% = 4.013; WOC=2.02 WING=1.73 WPOP=1.68 KTOE=1.63 WBIZ=1.17 KDKT=1.06 KGSO=1.02								
KRWB	US	MN	ROSEAU	30.54	2.507	410.53	183.04	227.49
50% = 9.709, 25% = 10.029; WIZM=9.71 KDKT=2.51								

**FIGURE 8** calculates the Inverse Distance Field for AM broadcast stations with frequencies between **530** and **1700 kHz**. This calculator is a computer version of Figure 8 of Section 73.190 of the FCC Rules.

The Inverse Distance Fields calculated here are in **mV/m at 1 kilometer**.

[Ground system correction factors](#) may be incorporated into the following results.

#### Input Parameters

Frequency:	1410 kHz
Number of Ground Radials:	120
Correction for number of radials:	0.0000 mV/m @ 1 kilometer
Average Length of Ground Radials:	53.340 meters 175.000 feet 90.314 degrees 0.2509 wavelengths
Correction factor for length:	0.0000 mV/m @ 1 kilometer
One Wavelength at 1410 kHz is:	212.619 meters 697.568 feet
Tower Height:	59.400 meters 194.882 feet 100.57 degrees 0.2794 wavelengths

#### Predicted Field Strength from Figure 8, Section 73.190

##### (Metric units)

	Theoretical Field	Corrected Field	
At <b>1.00 kW</b> :	312.414	<b>312.414</b>	mV/m @ 1 KM
At <b>0.500 kW</b> :	220.910	<b>220.910</b>	mV/m @ 1 KM

##### (English units)

	Theoretical Field	Corrected Field	
At <b>1.00 kW</b> :	194.125	<b>194.125</b>	mV/m @ 1 MILE
At <b>0.500 kW</b> :	137.267	<b>137.267</b>	mV/m @ 1 MILE

**Registration 1275242** [Map Registration](#)**Registration Detail**

Reg Number	1275242	Status	Constructed
File Number	A0691946	Constructed	01/01/1980
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

Structure Type TOWER - Free standing or Guyed Structure used for Commu

**Location** (in NAD83 Coordinates)

Lat/Long	44-46-14.8 N 106-55-41.5 W	Address	E. Brundage Lane
City, State	Sheridan , WY		
Zip	82801	County	SHERIDAN
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
1188.8	59.7
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
1248.5	59.7

**Painting and Lighting Specifications**

None

**FAA Notification**

FAA Study	2010-ANM-747-OE	FAA Issue Date	04/29/2010
-----------	-----------------	----------------	------------

**Owner & Contact Information**

FRN	0020077723	Owner Entity Type
-----	------------	----------------------

**Owner**

The Phoenix Limited Partnership  
Attention To: W.K. Love  
303 S. Main  
P.O. Box P.O. Box 5086  
Sheridan , WY 82801

P: (307)672-7421  
F:  
E: kimlove@sheridanmedia.com

**Contact**

Love , W K  
303 S. Main  
P.O. Box P.O. Box 5086  
Sheridan , WY 82801

P: (307)672-7421  
F:  
E: kimlove@sheridanmedia.com

**Last Action Status**

Status	Constructed	Received	07/29/2010
Purpose	Notification	Entered	07/29/2010
Mode	Interactive		

**Related Applications**

## AM FENCE DISTANCE TABLES

**TABLE 1. Predicted Distances for Compliance with FCC Limits: 0.1-0.2 Wavelength**

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	13	7	6	3
750-940	12	7	5	3
950-1140	11	6	5	3
1150-1340	10	6	5	3
1350-1540	10	6	5	3
1550-1705	10	6	5	3

**TABLE 2. Predicted Distances for Compliance with FCC Limits: 0.21-0.4 Wavelength**

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	2	2	1
750-940	4	2	2	1
950-1140	4	2	2	1
1150-1340	4	2	2	1
1350-1540	4	2	2	1
1550-1705	5	2	2	1

**TABLE 3. Predicted Distances for Compliance with FCC Limits: 0.41-0.55 Wavelength**

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	3	2	2
750-940	4	2	2	2
950-1140	4	2	2	1
1150-1340	4	2	2	2
1350-1540	4	2	2	2
1550-1705	4	3	2	1

**TABLE 4. Predicted Distances for Compliance with FCC Limits: 0.56-6255 Wavelength**

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	3	2	1
750-940	4	2	2	1
950-1140	4	2	2	1
1150-1340	4	2	2	1
1350-1540	4	2	2	1
1550-1705	4	2	2	2