

Doug Vernier Telecommunications Consultants

N. Lat. = 37 49 33 W. Lng. = 100 10 40

HAAT and Distance to Contour - FCC Method - 03 Arc. Sec.

KDCK, Smoky Hills Public Television, BLET19980310KE

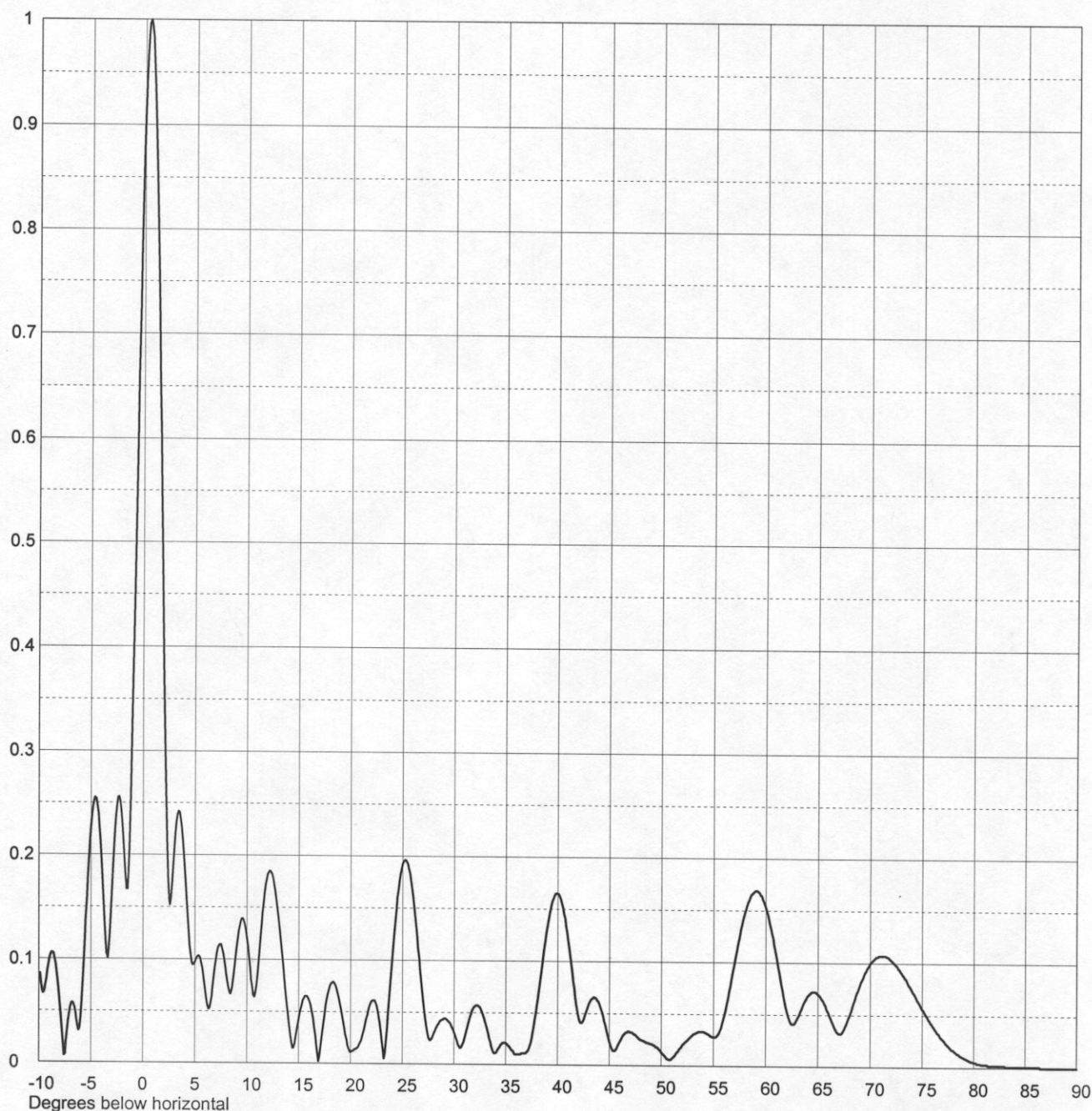
Azi.	AV EL	HAAT	dBk	DAng	VFl d	D-kW	%Max	D-dBk	41-F9
000	785.4	106.6	9.25	.286	.980	8.0879	96.0	9.25	51.92
010	785.6	106.4	9.25	.286	.980	8.0872	96.0	9.25	51.90
020	786.6	105.4	9.25	.284	.980	8.0839	96.0	9.25	51.79
030	781.2	110.8	9.25	.292	.981	8.1016	96.2	9.25	52.33
040	776.5	115.5	9.25	.298	.982	8.1169	96.4	9.25	52.75
050	771.0	121.0	9.25	.305	.983	8.1342	96.6	9.25	53.17
060	770.5	121.5	9.25	.305	.983	8.1356	96.6	9.25	53.20
070	777.3	114.7	9.25	.297	.981	8.1141	96.3	9.25	52.68
080	783.1	108.9	9.25	.289	.980	8.0954	96.1	9.25	52.15
090	787.0	105.0	9.25	.284	.980	8.0823	96.0	9.25	51.74
100	797.2	94.8	9.25	.270	.977	8.0476	95.5	9.25	50.56
110	801.9	90.1	9.25	.263	.976	8.0308	95.3	9.25	49.94
120	796.2	95.8	9.25	.271	.978	8.0511	95.6	9.25	50.68
130	781.8	110.2	9.25	.291	.981	8.0997	96.2	9.25	52.28
140	777.4	114.6	9.25	.297	.981	8.1139	96.3	9.25	52.67
150	781.5	110.5	9.25	.291	.981	8.1005	96.2	9.25	52.30
160	786.2	105.8	9.25	.285	.980	8.0850	96.0	9.25	51.83
170	792.1	99.9	9.25	.277	.979	8.0653	95.8	9.25	51.18
180	794.9	97.1	9.25	.273	.978	8.0554	95.6	9.25	50.83
190	795.6	96.4	9.25	.272	.978	8.0532	95.6	9.25	50.76
200	796.9	95.1	9.25	.270	.978	8.0484	95.6	9.25	50.58
210	796.9	95.1	9.25	.270	.978	8.0486	95.6	9.25	50.59
220	797.8	94.2	9.25	.269	.977	8.0453	95.5	9.25	50.47
230	798.7	93.3	9.25	.268	.977	8.0421	95.5	9.25	50.36
240	799.0	93.0	9.25	.267	.977	8.0411	95.5	9.25	50.32
250	802.6	89.4	9.25	.262	.976	8.0284	95.3	9.25	49.85
260	812.9	79.1	9.25	.246	.974	7.9901	94.9	9.25	48.38
270	822.7	69.3	9.25	.231	.972	7.9514	94.4	9.25	46.86
280	824.2	67.8	9.25	.228	.971	7.9449	94.3	9.25	46.60
290	822.3	69.7	9.25	.231	.972	7.9527	94.4	9.25	46.91
300	817.8	74.2	9.25	.239	.973	7.9710	94.6	9.25	47.63
310	812.8	79.2	9.25	.246	.974	7.9902	94.9	9.25	48.38
320	809.2	82.8	9.25	.252	.975	8.0041	95.0	9.25	48.92
330	804.3	87.7	9.25	.259	.976	8.0220	95.2	9.25	49.61
340	798.2	93.8	9.25	.268	.977	8.0439	95.5	9.25	50.42
350	788.9	103.1	9.25	.281	.979	8.0762	95.9	9.25	51.54

Ave EI = 794.84 M HAAT = 97.16 M AMSL = 892 M

Date	12 Jun 2002	
Call Letters	KDCK	Channel 21
Location	Dodge City, KS	
Customer	Smoky Hill PTV	
Antenna Type	TLP-24A (C)	

ELEVATION PATTERN

RMS Gain at Main Lobe	23.0 (13.62 dB)	Beam Tilt	0.50 Degrees
RMS Gain at Horizontal	19.0 (12.79 dB)	Frequency	515.00 MHz
Calculated / Measured	Calculated	Drawing #	24L230050-90



Remarks:



Date **12 Jun 2002**
 Call Letters **KDCK** Channel **21**
 Location **Dodge City, KS**
 Customer **Smoky Hill PTV**
 Antenna Type **TLP-24A (C)**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **24L230050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.098	2.4	0.178	10.6	0.066	30.5	0.017	51.0	0.007	71.5	0.107
-9.5	0.069	2.6	0.152	10.8	0.067	31.0	0.025	51.5	0.013	72.0	0.103
-9.0	0.100	2.8	0.173	11.0	0.084	31.5	0.044	52.0	0.020	72.5	0.098
-8.5	0.101	3.0	0.206	11.5	0.145	32.0	0.056	52.5	0.025	73.0	0.091
-8.0	0.057	3.2	0.232	12.0	0.182	32.5	0.055	53.0	0.030	73.5	0.083
-7.5	0.008	3.4	0.242	12.5	0.178	33.0	0.041	53.5	0.033	74.0	0.074
-7.0	0.053	3.6	0.236	13.0	0.142	33.5	0.022	54.0	0.033	74.5	0.065
-6.5	0.049	3.8	0.217	13.5	0.093	34.0	0.011	54.5	0.031	75.0	0.056
-6.0	0.043	4.0	0.189	14.0	0.044	34.5	0.019	55.0	0.028	75.5	0.048
-5.5	0.138	4.2	0.156	14.5	0.015	35.0	0.021	55.5	0.032	76.0	0.040
-5.0	0.227	4.4	0.125	15.0	0.043	35.5	0.015	56.0	0.048	76.5	0.033
-4.5	0.254	4.6	0.103	15.5	0.063	36.0	0.010	56.5	0.072	77.0	0.027
-4.0	0.196	4.8	0.095	16.0	0.061	36.5	0.011	57.0	0.099	77.5	0.021
-3.5	0.105	5.0	0.097	16.5	0.035	37.0	0.012	57.5	0.126	78.0	0.017
-3.0	0.165	5.2	0.102	17.0	0.007	37.5	0.026	58.0	0.148	78.5	0.013
-2.8	0.207	5.4	0.103	17.5	0.049	38.0	0.058	58.5	0.163	79.0	0.010
-2.6	0.239	5.6	0.097	18.0	0.075	38.5	0.097	59.0	0.169	79.5	0.007
-2.4	0.255	5.8	0.085	18.5	0.076	39.0	0.133	59.5	0.165	80.0	0.005
-2.2	0.252	6.0	0.069	19.0	0.056	39.5	0.158	60.0	0.153	80.5	0.004
-2.0	0.230	6.2	0.055	19.5	0.028	40.0	0.165	60.5	0.132	81.0	0.003
-1.8	0.196	6.4	0.053	20.0	0.011	40.5	0.151	61.0	0.107	81.5	0.002
-1.6	0.167	6.6	0.065	20.5	0.014	41.0	0.120	61.5	0.079	82.0	0.002
-1.4	0.181	6.8	0.083	21.0	0.022	41.5	0.081	62.0	0.054	82.5	0.002
-1.2	0.252	7.0	0.099	21.5	0.043	42.0	0.047	62.5	0.041	83.0	0.002
-1.0	0.359	7.2	0.111	22.0	0.060	42.5	0.044	63.0	0.046	83.5	0.001
-0.8	0.481	7.4	0.114	22.5	0.056	43.0	0.059	63.5	0.058	84.0	0.001
-0.6	0.605	7.6	0.111	23.0	0.023	43.5	0.066	64.0	0.068	84.5	0.001
-0.4	0.723	7.8	0.101	23.5	0.034	44.0	0.060	64.5	0.072	85.0	0.001
-0.2	0.826	8.0	0.086	24.0	0.101	44.5	0.043	65.0	0.070	85.5	0.001
0.0	0.909	8.2	0.073	24.5	0.160	45.0	0.023	65.5	0.063	86.0	0.001
0.2	0.967	8.4	0.067	25.0	0.193	45.5	0.014	66.0	0.052	86.5	0.000
0.4	0.997	8.6	0.075	25.5	0.192	46.0	0.023	66.5	0.040	87.0	0.000
0.6	0.996	8.8	0.092	26.0	0.162	46.5	0.031	67.0	0.032	87.5	0.000
0.8	0.965	9.0	0.111	26.5	0.112	47.0	0.032	67.5	0.037	88.0	0.000
1.0	0.906	9.2	0.127	27.0	0.061	47.5	0.030	68.0	0.049	88.5	0.000
1.2	0.823	9.4	0.137	27.5	0.026	48.0	0.025	68.5	0.065	89.0	0.000
1.4	0.721	9.6	0.139	28.0	0.029	48.5	0.023	69.0	0.079	89.5	0.000
1.6	0.605	9.8	0.133	28.5	0.039	49.0	0.021	69.5	0.091	90.0	0.000
1.8	0.483	10.0	0.120	29.0	0.044	49.5	0.018	70.0	0.100		
2.0	0.363	10.2	0.102	29.5	0.041	50.0	0.013	70.5	0.105		
2.2	0.256	10.4	0.081	30.0	0.031	50.5	0.007	71.0	0.107		

Remarks: