

Predicted Coverage - DTV @ 500 kW ERP

NEW

Colby, KS

Latitude: 39-14-31 N

Longitude: 101-21-38 W

ERP: 500.00 kW

Channel: 19

Frequency: 503.0 MHz

AMSL Height: 1420.7 m

HAAT: 384.35 m

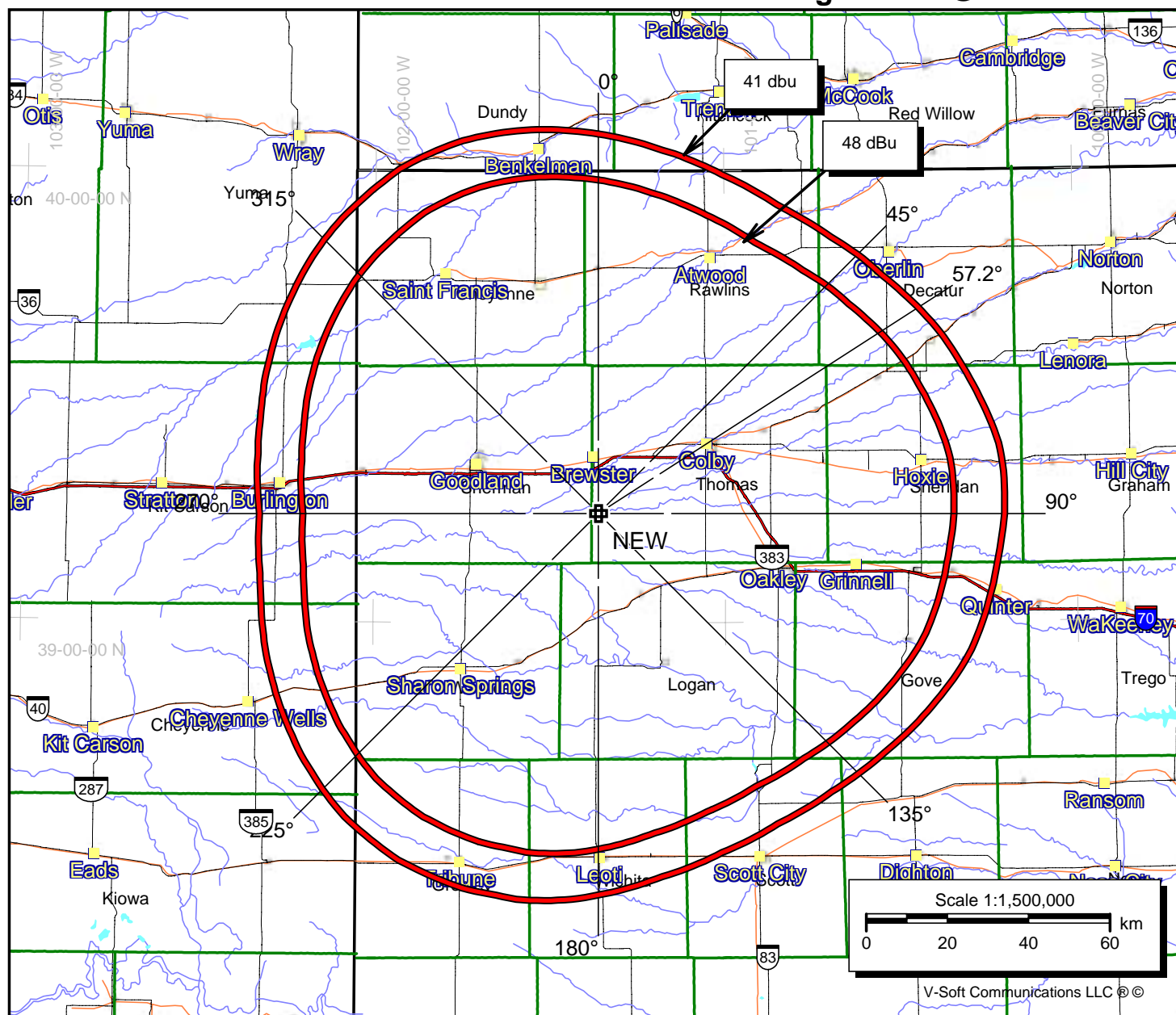
Horiz. Pattern: Directional

Beam Tilt: 0.75°

41 dBu Pop = 41,105

48 dBu Pop = 30,322

July 20, 2004



N. Lat. = 39 14 31 W. Lng. = 101 21 38

HAAT and Distance to Contour - FCC Method - 30 Arc. Sec.

New DTV, Col by KS, Channel 19 - Smoky Hills Public Television

Azi.	AV EL	HAAT	ERP kW	Field	DAng	VFl d	D-kW	%Max	D-dBk	41-F9	48-F9
000	1033.2	387.5	257.7620	0.718	0.545	0.983	248.9739	98.3	24.11	93.31	82.00
010	1026.9	393.8	172.2845	0.587	0.550	0.983	166.5354	98.3	22.36	90.67	79.77
020	1022.4	398.3	125.5005	0.501	0.553	0.983	121.3775	98.3	20.99	88.68	77.96
030	1026.1	394.6	111.8645	0.473	0.550	0.983	108.1419	98.3	20.49	87.67	76.93
040	1020.9	399.8	125.5005	0.501	0.554	0.984	121.3998	98.4	20.99	88.77	78.07
050	1019.3	401.4	172.2845	0.587	0.555	0.984	166.6864	98.4	22.36	91.11	80.25
060	1014.4	406.3	257.7620	0.718	0.558	0.984	249.5307	98.4	24.11	94.42	83.15
070	1016.8	403.9	366.3680	0.856	0.557	0.984	354.5666	98.4	25.64	97.14	85.32
080	1006.7	414.0	461.7605	0.961	0.564	0.984	447.4127	98.4	26.64	99.90	87.41
090	1017.3	403.4	500.0000	1.000	0.556	0.984	483.8658	98.4	26.99	99.82	87.38
100	1024.4	396.3	461.7605	0.961	0.551	0.983	446.4854	98.3	26.64	98.61	86.44
110	1010.4	410.3	366.3680	0.856	0.561	0.984	354.8343	98.4	25.64	97.58	85.67
120	1010.4	410.3	257.7620	0.718	0.561	0.984	249.6475	98.4	24.11	94.67	83.36
130	1010.1	410.6	172.2845	0.587	0.561	0.984	166.8652	98.4	22.36	91.62	80.78
140	1012.3	408.4	125.5005	0.501	0.560	0.984	121.5218	98.4	20.99	89.23	78.61
150	1017.9	402.8	111.8645	0.473	0.556	0.984	108.2475	98.4	20.49	88.14	77.49
160	1021.1	399.6	125.5005	0.501	0.554	0.984	121.3962	98.4	20.99	88.75	78.05
170	1026.9	393.8	172.2845	0.587	0.550	0.983	166.5363	98.3	22.36	90.68	79.78
180	1024.5	396.2	257.7620	0.718	0.551	0.983	249.2312	98.3	24.11	93.81	82.56
190	1025.1	395.6	366.3680	0.856	0.551	0.983	354.2188	98.3	25.64	96.59	84.85
200	1033.5	387.2	461.7605	0.961	0.545	0.983	445.9991	98.3	26.64	98.00	85.89
210	1038.2	382.5	500.0000	1.000	0.542	0.983	482.6615	98.3	26.99	98.37	86.13
220	1045.9	374.8	461.7605	0.961	0.536	0.982	445.3279	98.2	26.64	97.20	85.03
230	1057.8	362.9	366.3680	0.856	0.528	0.981	352.8142	98.1	25.64	94.46	82.48
240	1064.5	356.2	257.7620	0.718	0.523	0.981	248.0161	98.1	24.11	91.10	79.52
250	1068.7	352.0	172.2845	0.587	0.520	0.981	165.6829	98.1	22.36	87.62	76.44
260	1076.5	344.2	125.5005	0.501	0.514	0.980	120.5724	98.0	20.99	84.52	73.69
270	1080.1	340.6	111.8645	0.473	0.511	0.980	107.4213	98.0	20.49	83.33	72.67
280	1072.1	348.6	125.5005	0.501	0.517	0.980	120.6397	98.0	20.99	84.96	74.06
290	1067.9	352.8	172.2845	0.587	0.520	0.981	165.6990	98.1	22.36	87.70	76.51
300	1066.7	354.0	257.7620	0.718	0.521	0.981	247.9490	98.1	24.11	90.91	79.32
310	1063.7	357.0	366.3680	0.856	0.523	0.981	352.5512	98.1	25.64	93.97	81.95
320	1058.8	361.9	461.7605	0.961	0.527	0.981	444.6193	98.1	26.64	96.27	83.98
330	1048.0	372.7	500.0000	1.000	0.535	0.982	482.0848	98.2	26.99	97.73	85.43
340	1041.3	379.4	461.7605	0.961	0.540	0.982	445.5807	98.2	26.64	97.51	85.37
350	1038.1	382.6	366.3680	0.856	0.542	0.983	353.6645	98.3	25.64	95.79	84.01

Additional Radials: (Not Considered in Average):

057	1016.2	404.5	232.0985	0.681	0.557	0.984	224.6388	98.4	23.66	93.50	82.36
045	1018.9	401.8	147.9680	0.544	0.555	0.984	143.1668	98.4	21.70	90.04	79.29
135	1011.3	409.4	147.9680	0.544	0.560	0.984	143.2934	98.4	21.70	90.45	79.74
225	1051.7	369.0	412.6861	0.909	0.532	0.982	397.7161	98.2	26.16	95.87	83.80
315	1059.8	360.9	412.6861	0.909	0.526	0.981	397.3154	98.1	26.16	95.26	83.11

Ave EI = 1036.35 M HAAT= 384.35 M AMSL= 1420.7 M