
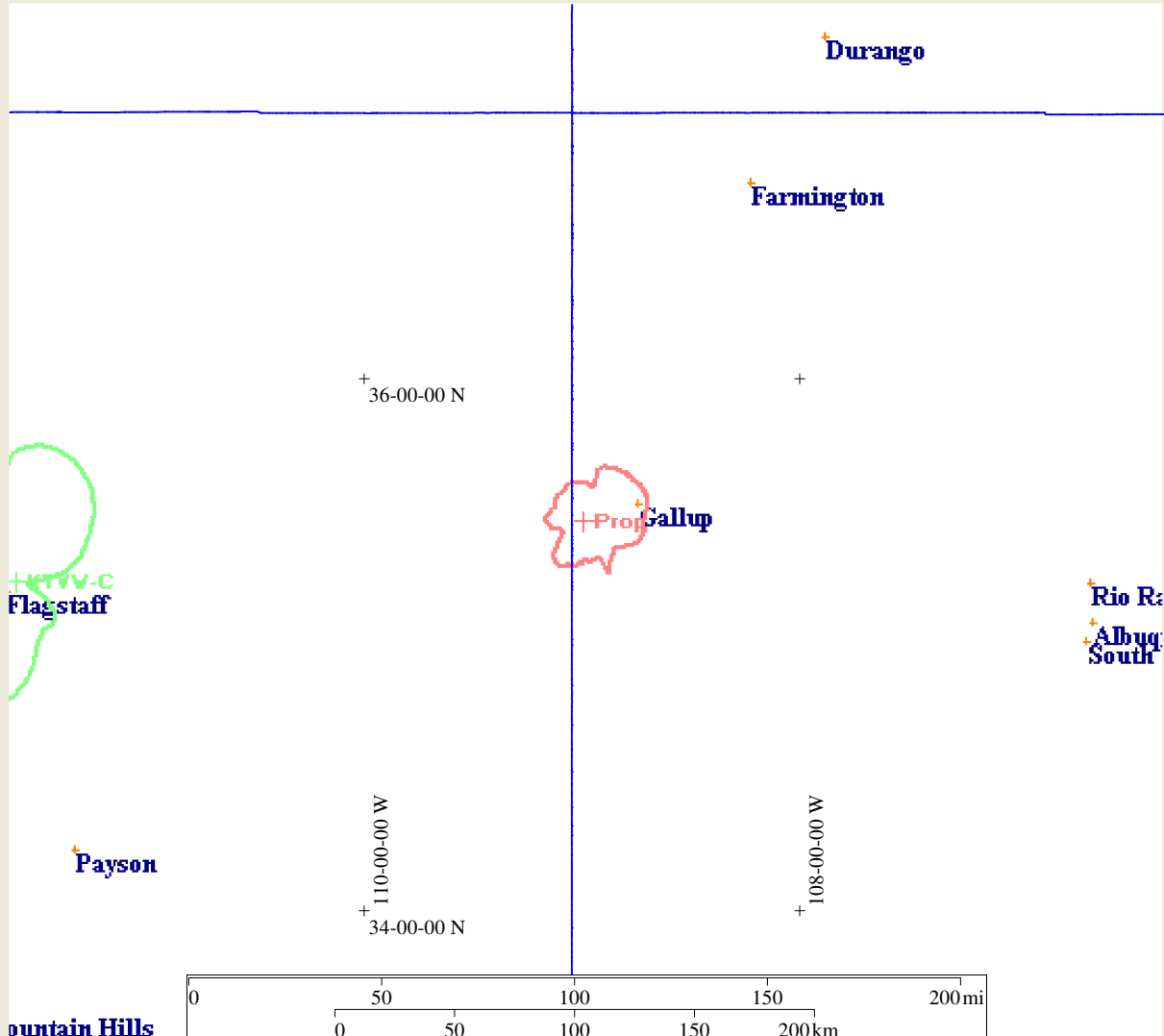


## TV6 Calculation for Mentmore, NM

TV6 Call sign		Fcc Search	
KTVW-C		-27.0 dBu	
City		State	
Flagstaff/doney Par		AZ	
COR AMSL (m)		HAAT(m)	
3043		810	
Latitude		Longitude	
351426		1113548	
		TV ERP (kW)	
		0.114	
		FM Horizontal ERP	
		0.200	
<input checked="" type="checkbox"/> Outside City Of 50k			
47	47	1	<div>TV</div> <div>FM</div>
Plot Scale			
115	<input checked="" type="checkbox"/> DLG	<input type="checkbox"/> AJPI	
<input checked="" type="checkbox"/> Hide Zeros	<input checked="" type="checkbox"/> TIGER		
<input type="checkbox"/> Plot All Centroids			
<input checked="" type="checkbox"/> Plot Inside Centroid Counts			
<input type="checkbox"/> Plot All Centroid Counts			
<input checked="" type="checkbox"/> Plot Contours			
<input type="checkbox"/> Print All Centroids to	-3	dBu	
<input type="checkbox"/> Print Centroids			
<input checked="" type="checkbox"/> Print TV Contour Table			
Comp	Copy F	PrintText	Print Form



## Channel Six TV Protection Study

KTWV-C	06	0.114kW ERP	3043.0M COR AMSL	810.0M HAAT	Lat. 351426	Lon. 1113548
Prop	203	0.200kW ERP	2192.0M COR AMSL	154.3M HAAT	Lat. 352744	Lon. 1085858

```
Distance from TV to FM 238.8670km    Azi 264.1degr    Rev Azi 84.1 degr
Cutoff radius for channel 203 is 246 km
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The FM horizontal polarization component is 0.200 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is  $(P_v/40+P_h)$  0.2050kW

The TV6 signal strength at the FM transmit site is -27.034 dBu

For F centroids (centroids where the TV6 signal strength is less than 68 dBu and which are also +/-70 degrees from line from the FM station to the TV station) a 6 dB bonus is added to the allowable FM signal.

TV Contour	Undesired/Desired Ratio	Total	Directional	Total
47	6.5	53.5		59.5

Population in affected area	0
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2000 Block Centroids used