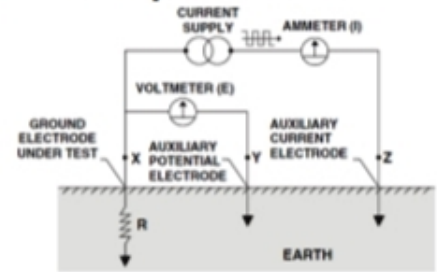


# Fall-of-Potential Ground Resistance Field Report

**Date of Test:** 06/29/2016  
**Radio Facility Name:** Booker Mountain  
**Conditions:** Recent Rain with damp soil  
**Facility Type:** Remote - Unoccupied  
**Resistance Requirement:** 10 Ohms



**Test Company:** Technical Evaluation and Development Services, LLC  
**Test Instrument Manufacturer:** Extech **Tester Name:** Ted Summers  
**Test Instrument Model:** 382252 **Calibration Date:** 11/06/2014 (#120255)  
**Serial Number:** Z324430  
**Test Configuration:** Z-Probe set 64 ft. from grounding system

**Test Procedure:** **Slope Method**  
 Y-Probe moved in 4-foot increments to obtain values  $R_1$ ,  $R_2$  and  $R_3$

## TESTING RESULTS – Passed at 5.9 Ohms

$\mu$	$D_p/D_c$	$\mu$	$D_p/D_c$	$\mu$	$D_p/D_c$
0.40	0.643	0.83	0.575	1.26	0.477
0.41	0.642	0.84	0.573	1.27	0.474
0.42	0.640	0.85	0.571	1.28	0.471
0.43	0.639	0.86	0.569	1.29	0.468
0.44	0.637	0.87	0.567	1.30	0.465
0.45	0.636	0.88	0.566	1.31	0.462
0.46	0.635	0.89	0.564	1.32	0.458
0.47	0.633	0.90	0.562	1.33	0.455
0.48	0.632	0.91	0.560	1.34	0.452
0.49	0.630	0.92	0.558	1.35	0.448
0.50	0.629	0.93	0.556	1.36	0.445
0.51	0.627	0.94	0.554	1.37	0.441
0.52	0.626	0.95	0.552	1.38	0.438
0.53	0.624	0.96	0.550	1.39	0.434
0.54	0.623	0.97	0.548	1.40	0.431
0.55	0.621	0.98	0.546	1.41	0.427
0.56	0.620	0.99	0.544	1.42	0.423
0.57	0.618	1.00	0.542	1.43	0.418
0.58	0.617	1.01	0.539	1.44	0.414
0.59	0.615	1.02	0.537	1.45	0.410
0.60	0.614	1.03	0.535	1.46	0.406
0.61	0.612	1.04	0.533	1.47	0.401
0.62	0.610	1.05	0.531	1.48	0.397
0.63	0.609	1.06	0.528	1.49	0.393
0.64	0.607	1.07	0.526	1.50	0.389
0.65	0.606	1.08	0.524	1.51	0.384
0.66	0.604	1.09	0.522	1.52	0.379
0.67	0.602	1.10	0.519	1.53	0.374
0.68	0.601	1.11	0.517	1.54	0.369
0.69	0.599	1.12	0.514	1.55	0.364
0.70	0.597	1.13	0.512	1.56	0.358
0.71	0.596	1.14	0.509	1.57	0.352
0.72	0.594	1.15	0.507	1.58	0.347
0.73	0.592	1.16	0.504	1.59	0.341
0.74	0.591	1.17	0.502	1.60	0.338
0.75	0.589	1.18	0.499	1.61	0.335
0.76	0.587	1.19	0.497	1.62	0.331
0.77	0.585	1.20	0.494	1.63	0.328
0.78	0.584	1.21	0.491	1.64	0.325
0.79	0.582	1.22	0.488	1.65	0.322
0.80	0.580	1.23	0.486	1.66	0.319
0.81	0.579	1.24	0.483	1.67	0.316
0.82	0.577	1.25	0.480	1.68	0.313

Reading	Distance to Y Probe (ft.)	Measurement Ohms	$\frac{R_3 - R_2 = u}{R_2 - R_1}$	u from Table	Distance to Z Probe (ft.)	True Resistance Distance (ft.)	True Resistance (Ohms)
R <sub>1</sub>	44	8.5	0.86	0.569	64	36	5.9
R <sub>2</sub>	40	7.1					
R <sub>3</sub>	36	5.9					
R <sub>4</sub>	32	4.4					
R <sub>5</sub>	28	3.6					

