

APPENDIX H

FIELD SOIL RESISTIVITY TESTING

14-0014.3
BLUE SKY WEST - WIND POWER PROJECT
GEOLOGIC SUMMARY
RESISTIVITY/ DEPTH TO BEDROCK/ DEPTH TO WATER

Location	GEOLOGIC FORMATION	Resistivity - A				Resistivity - B				Bedrock Depth		Water Depth		
		Geomean	Min	Max	Median	Geomean	Min	Max	Median	First	Competent	a	b	c
B-T 1	Carrabasset	7,666	4,305	11,652	7,757	8,212	6,251	11,070	7,998	0	0.7	8.7	14	
B-T 2	Carrabasset	5,124	1,600	8,908	6,419	3,099	1,797	4,261	3,140	7.3	8.5	13	11.4	
B-T 3	Carrabasset	1,106	184	5,671	1,313	3,163	1,284	4,853	3,101	3.1	3.8	8.3	13	
B-T 4	Carrabasset	4,916	1,482	9,129	5,716	4,831	1,442	9,149	7,092	0.2	0.8	13.9	31.3	
B-T 5	Carrabasset	1,685	716	2,768	1,735	1,809	975	2,363	1,835	17.3	17.3	7.5	10.8	
B-T 6	Carrabasset	6,112	5,120	7,944	6,215	4,434	1,792	8,080	4,981	5.5	7.1	13	13.2	
B-T 7	Carrabasset	6,432	1,985	13,586	7,731	7,159	3,025	15,663	7,669	5	6	21.3	20.5	
B-T 8	Carrabasset	4,046	1,544	9,395	4,642	3,101	1,656	7,037	2,892	5.2	6	11.3	20.8	
B-T 9	Carrabasset	325	143	1,505	218	341	149	1,274	217	>45.1	NA	0.0	1.0	
B-T 10	Carrabasset	909	200	5,345	570	932	208	5,364	675	48.2	51.3	9.1	7.7	
B-T 11	Carrabasset	357	202	1,003	319	356	205	872	320	36	NA (TD-40)	1	1	
B-T 12	Carrabasset	365	145	2,518	210	571	179	2,350	470	(sap) 42.4	54	6		
B-T 12A	Carrabasset									40.6	44	9.5	2	2.4
B-T 13	Carrabasset	291	188	453	298	315	188	621	315	50.4	53	0	0.7	
B-T 14	Carrabasset	1,486	434	4,976	1,462	1,272	448	4,444	914	28	29.6	6.3	4.5	
B-T 15	Carrabasset	701	388	1,183	653	644	391	1,520	540	19.5	19.5	2.8		
B-T 16	Carrabasset	6,123	3,552	10,103	5,462	6,505	4,081	10,151	5,701	5.5	6.3	10.4	11.9	
B-T 17	Carrabasset	5,429	1,398	9,091	7,618	5,277	1,435	9,976	6,002	4.5	5.9	4	0.8	
B-T 18	Carrabasset	5,141	2,181	8,242	5,286	4,484	2,542	7,806	4,746	2.5	2.5	3.5	1.8	
B-T 19	Carrabasset	6,059	1,806	11,808	5,930	6,647	1,864	11,528	8,320	3.7	3.9	17	17.7	
B-T 20	Carrabasset	1,516	723	3,645	1,348	1,516	720	3,303	1,412	20.7	20.7	3.2	0	
B-T 21	Carrabasset	5,419	1,914	14,760	6,157	6,440	2,183	14,295	6,575	1.8	17	6.2	8	
B-T 22	Carrabasset	5,721	1,763	13,793	6,682	6,894	2,225	14,278	7,168	1.2	3	14.6	14	
B-T 23	Carrabasset	472	62	3,593	581	398	27	1,920	653	2.1	4.1	14.7	21	
B-T 24	Carrabasset	899	263	4,084	720	946	319	3,021	887	NR/55.3	NA	7.7		
B-T 25	Carrabasset	820	348	2,606	580	905	273	4,196	596	49.5	49.5	0.5		
B-T 26	Carrabasset	1,710	526	5,871	1,709	1,755	527	8,049	1,576	30.1	32	17	2.5	
B-T 27	Carrabasset	1,011	381	2,153	1,060	946	319	3,021	887	12.8	15	6.6	4.9	
B-T 28	Carrabasset	1,692	1,270	2,350	1,753	1,419	1,189	1,912	1,317	9	9	6		
B-T 29	Carrabasset	3,386	649	8,477	4,880	3,175	432	7,657	4,891	3	4	11.1	2.1	
B-T 30	Carrabasset	5,946	1,959	9,973	6,499	4,930	1,327	10,768	6,064	4.4	6	15.6	12.8	
B-T 31	Carrabasset	1,381	544	6,131	1,076	1,273	434	3,084	1,220	24	24	8.1	1	
B-T 32	Carrabasset	1,512	484	6,063	1,660	1,284	371	5,717	1,078	37	40	10.2	2.2	
B-T 33	Carrabasset	1,117	322	4,776	999	1,201	334	4,406	1,196	45.7	50.5	8.4	1.6	
B-T 34	Carrabasset	2,423	1,208	3,981	2,837	2,633	1,588	4,383	2,518	(sap) 14	46	10.2	4.4	
B-T 35	Carrabasset	2,555	837	8,121	2,336	2,664	849	8,320	3,619	20.1	23	16.4	3.2	
B-T 36	Carrabasset	2,313	1,499	3,721	2,349	1,757	806	2,423	1,779	5.3	5.3	5.3	8	
B-T 37	Carrabasset	4,171	1,394	12,230	3,758	4,592	1,887	12,018	6,061	12.7	15	13.1	13.7	
B-T 38	Carrabasset	7,762	1,762	15,860	9,102	8,701	2,053	18,064	9,541	1.3	3	6	6	

14-0014.3
BLUE SKY WEST - WIND POWER PROJECT
GEOLOGIC SUMMARY
RESISTIVITY/ DEPTH TO BEDROCK/ DEPTH TO WATER

Location	GEOLOGIC FORMATION	Resistivity - A				Resistivity - B				Bedrock Depth		Water Depth		
		Geomean	Min	Max	Median	Geomean	Min	Max	Median	First	Competent	a	b	c
B-T 39	Carrabasset	9,037	1,947	20,593	12,007	9,954	1,999	19,345	14,313	1.4	3	8.9	7.3	
B-T 40	Carrabasset	6,104	1,280	12,989	6,555	6,756	894	13,912	9,193	1.7	3	3.8	4.4	
B-T 41	Carrabasset	5,281	2,136	8,410	5,775	5,293	1,559	10,374	5,124	0.2	2	7.3		
B-T 42	Carrabasset	2,661	1,307	5,967	2,811	2,828	1,373	6,473	2,986	25.7	28.1	17.2		
B-T 43	Carrabasset	6,551	1,889	12,602	8,396	6,468	1,896	10,118	7,993	0.8	2	1	2.5	
B-T 44	Carrabasset	5,503	1,480	10,109	5,503	5,956	1,518	11,989	6,064	2.8	4.2	6.3	6.5	3.4
B-T 45	Madrid	1,130	300	4,179	1,736	1,001	348	2,542	1,378	56.2	NA	9	3.5	
B-T 46	Madrid	4,720	659	9,027	6,866	4,970	906	9,037	7,760	2.5	4.1	No Data		
B-T 47	Madrid	3,877	863	8,076	4,414	3,597	708	7,368	4,391	(sap) 3	10	7.5	14.5	
B-T 48	Carrabasset	2,937	1,666	4,062	3,215	4,970	906	9,037	7,760	9.4	10.2	12.7		
B-T 49	Carrabasset	6,345	1,666	13,667	8,199	6,554	1,668	11,349	7,962	0.5	1.3	0	0	
B-T 50	Carrabasset	3,235	1,996	5,742	3,360	3,040	1,277	5,980	3,521	15	15	5.7	4	4.4
B-T 51	Carrabasset	6,588	2,340	11,996	7,199	6,733	2,885	11,066	7,305	Drill 2014	Drill 2014	NA	NA	NA
B-T 53	Madrid	2,550	1,703	4,093	2,531	2,584	1,630	4,630	2,502	30	34	10	19.5	
B-T 54	Madrid	5,529	1,352	9,998	7,011	5,465	1,518	8,891	6,874	4.8	4.8	5.6	2.7	
B-T 55	Madrid	950	585	1,898	903	943	559	1,566	909	NA >55	NA	2.5	1.6	
B-T 56	Madrid	2,379	1,572	3,640	2,613	2,083	1,411	3,536	1,984	12.4	15	10		
B-T 57	Madrid	6,438	1,991	12,700	6,968	6,462	1,463	12,755	7,233	1.4	2	1.3	0.3	
B-T 58	Madrid	4,989	1,821	9,893	7,155	4,395	992	7,855	6,457	5.9	7.5	2		
B-T 73	Carrabasset	2,261	831	3,639	2,435	2,436	1,047	3,658	2,749	3.3	4.6	8.6	9	9.7
B-T 74	Carrabasset	3,820	2,544	6,234	3,196	2,224	1,095	5,178	2,392	4	4.8	18.5	21.7	
B-T 75	Carrabasset	2,141	1,224	3,834	2,168	2,192	1,268	5,212	1,774	8.8	8.8	11.1	8.3	
B-T 76	Carrabasset	432	183	1,157	402	418	205	762	448	20.8	24	2.9		
B-T 77	Carrabasset	584	213	1,850	469	602	221	1,636	554	30.5	35	8	0.5	0.8
Substation		3352	404	11788	3940	5537	2225	12117	6041					



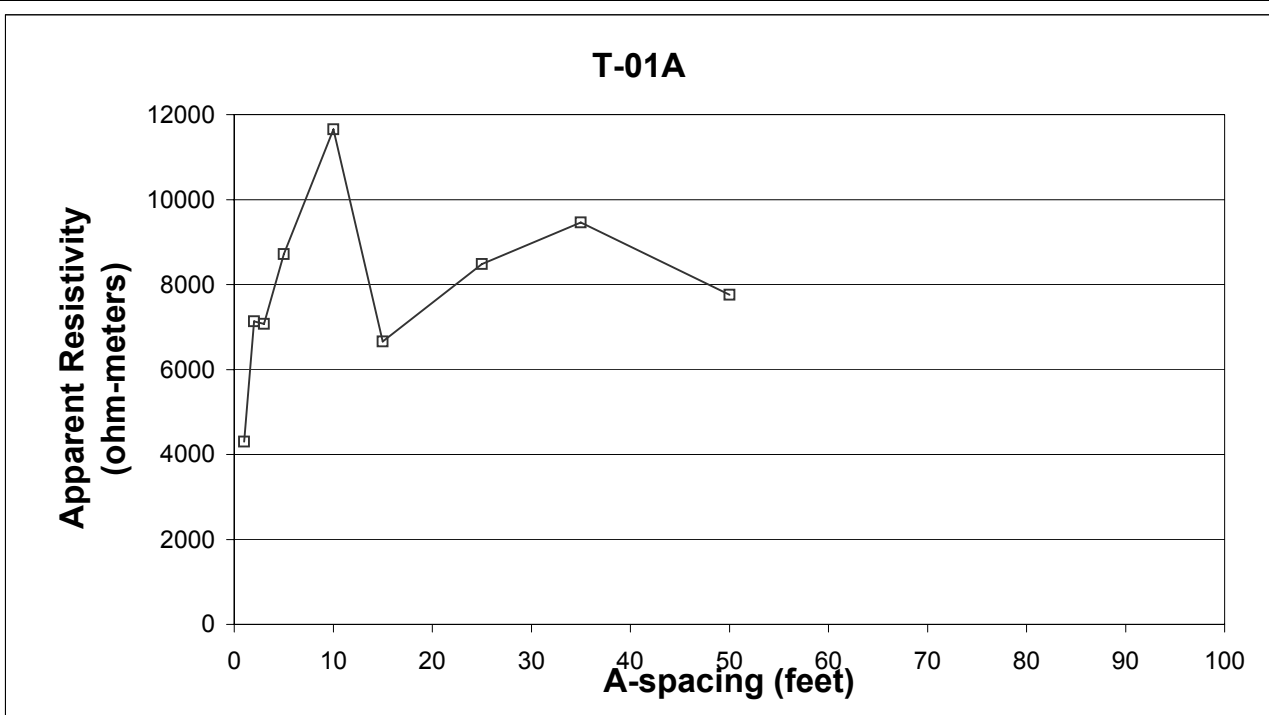
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-01a**
 Orientation **290° (true)**
thin soil w/ bedrock outcrop

Date **10/25/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	2247.9	4,305.1	0.074586
2	1.00	3.00	10	1861.9	7,131.6	0.021368
3	1.50	4.50	20	1231.4	7,074.8	0.298281
5	2.50	7.50	20	910.5	8,718.5	0.046037
10	5.00	15.00	10	608.4	11,651.7	0.044588
15	7.50	22.50	20	231.9	6,662.5	0.047122
25	12.50	37.50	20	177.1	8,478.6	0.041043
35	17.50	52.50	20	141.1	9,458.3	0.058025
50	25.00	75.00	10	81.0	7,757.3	0.036673

Geomean 7,666
 Min 4,305
 Max 11,652
 Median 7,757
 Std. Dev. 2,039

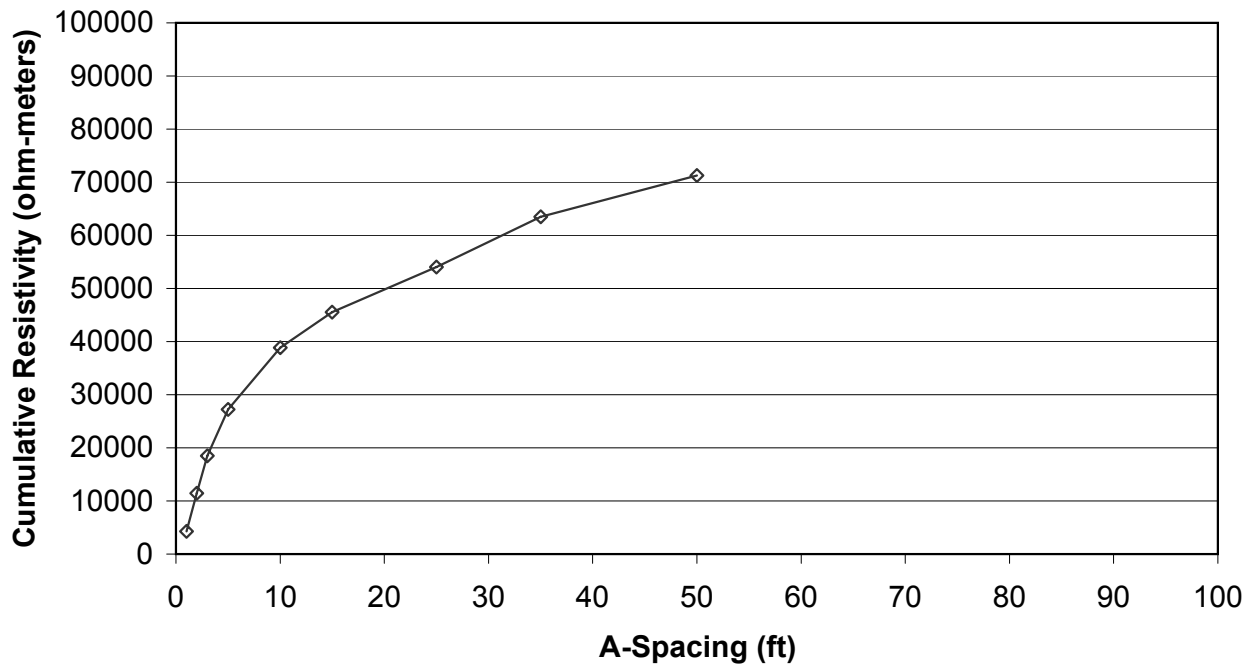


Cumulative Resistivity Sheet

T-01A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	14124.20473	4305.057602	0.074586	4305
2	1	3	10	11698.86756	7131.629662	0.021368	11437
3	1.5	4.5	20	7737.073861	7074.780338	0.298281	18511
5	2.5	7.5	20	5720.808806	8718.512621	0.046037	27230
10	5	15	10	3822.745233	11651.72747	0.044588	38882
15	7.5	22.5	20	1457.237491	6662.48981	0.047122	45544
25	12.5	37.5	20	1112.671379	8478.555908	0.041043	54023
35	17.5	52.5	20	886.6017433	9458.267398	0.058025	63481
50	25	75	10	509.0102665	7757.316462	0.036673	71238

T-01A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt01a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 25/10/2013 08:39:14

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	45	-1.5	1	1	20	44.96	14124.2048	0.074586
2	141	-3	2	2	10	18.62	23397.73533	0.021368
4	292	-4.5	3	3	20	24.63	23211.22167	0.298281
5	408	-7.5	5	5	20	18.21	28604.04388	0.046037
6	521	-15	10	10	10	6.08	38227.45318	0.044588
7	605	-22.5	15	15	20	4.64	21858.56182	0.047122
8	702	-37.5	25	25	20	3.54	27816.78097	0.041043
10	866	-52.5	35	35	20	2.82	31031.06562	0.058025
11	1030	-75	50	50	10	0.81	25450.50295	0.036673
3	213	-4.5	3	3	5	6.07	22881.46719	0.059962
9	794	-52.5	35	35	20	0.02	220.184284	0.106119
12	1117	-75	50	50	10	0.81	25436.59646	0.073823



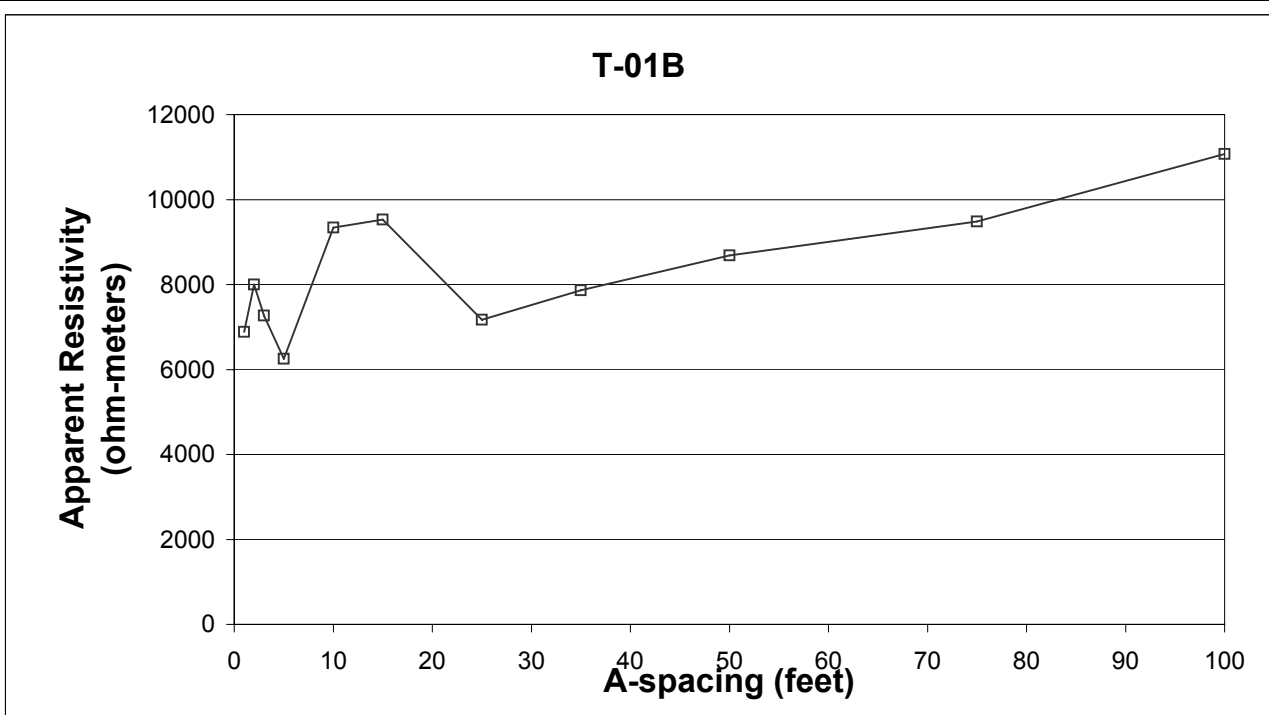
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-01B**
 Orientation **29° (true)**
thin soil w/ bedrock outcrop

Date **10/25/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	3595.4	6,885.6	0.024502
2	1.00	3.00	10	2088.2	7,998.2	0.052395
3	1.50	4.50	10	1265.4	7,270.2	0.631055
5	2.50	7.50	20	652.8	6,251.0	0.025031
10	5.00	15.00	10	487.7	9,339.6	0.038873
15	7.50	22.50	20	331.6	9,526.4	0.045007
25	12.50	37.50	20	149.8	7,173.4	0.027737
35	17.50	52.50	20	117.3	7,864.4	0.024116
50	25.00	75.00	20	90.7	8,683.4	0.034517
75	37.50	112.50	20	66.0	9,484.8	0.039635
100	50.00	150.00	20	57.8	11,070.5	0.022333

Geomean 8,212
 Min 6,251
 Max 11,070
 Median 7,998
 Std. Dev. 1,436

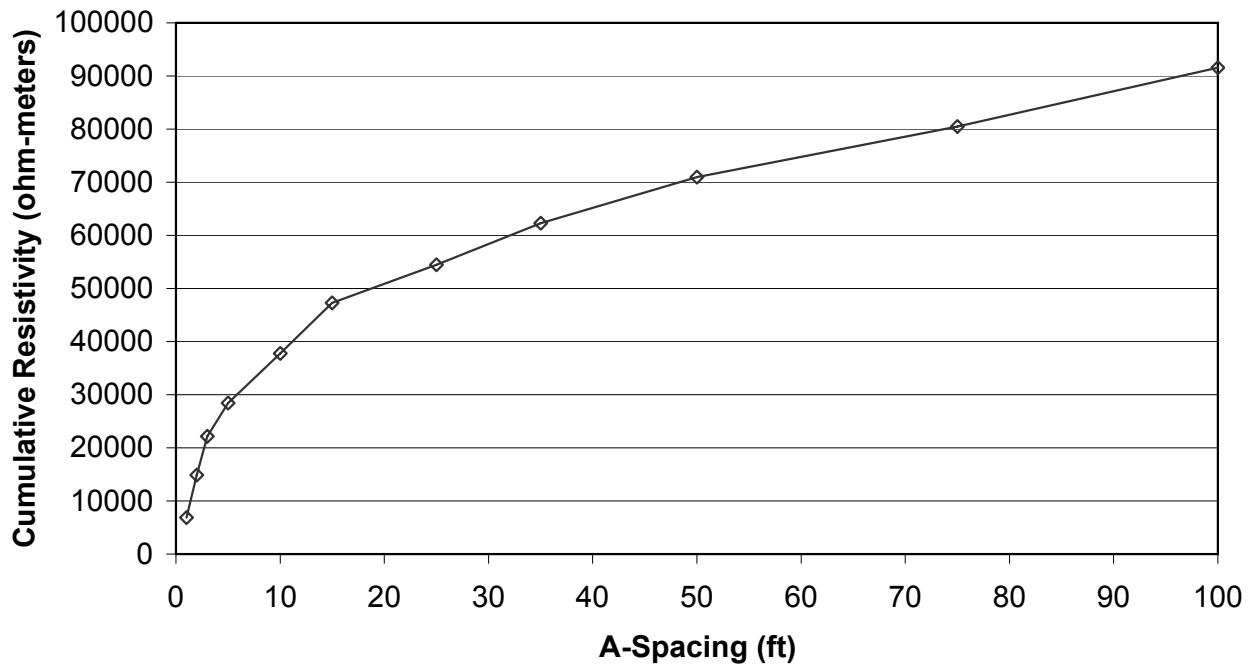


Cumulative Resistivity Sheet

T-01B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	22590.69766	6885.644646	0.024502	6886
2	1	3	10	13120.33393	7998.155564	0.052395	14884
3	1.5	4.5	10	7950.795466	7270.207375	0.631055	22154
5	2.5	7.5	20	4101.686302	6250.969924	0.025031	28405
10	5	15	10	3064.170616	9339.592037	0.038873	37745
15	7.5	22.5	20	2083.649704	9526.446445	0.045007	47271
25	12.5	37.5	20	941.3942608	7173.424267	0.027737	54444
35	17.5	52.5	20	737.1992206	7864.441285	0.024116	62309
50	25	75	20	569.7790357	8683.432504	0.034517	70992
75	37.5	112.5	20	414.9063718	9484.75966	0.039635	80477
100	50	150	20	363.2042391	11070.46521	0.022333	91548

T-01B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt01b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 25/10/2013 09:09:26

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	408	-1.5	1	1	10	35.9542	22590.6973	0.024502
3	491	-3	2	2	10	20.8817	26240.66806	0.052395
4	590	-4.5	3	3	10	12.6541	23852.38729	0.631055
5	689	-7.5	5	5	20	13.0561	20508.43151	0.025031
7	898	-15	10	10	10	4.8768	30641.70726	0.038873
8	1026	-22.5	15	15	20	6.6325	31254.74734	0.045007
9	1132	-37.5	25	25	20	2.9966	23534.85576	0.027737
10	1228	-52.5	35	35	20	2.3466	25801.97175	0.024116
11	1380	-75	50	50	20	1.8137	28488.95697	0.034517
12	1499	-112.5	75	75	20	1.3207	31117.98912	0.039635
13	1645	-150	100	100	20	1.1561	36320.43223	0.022333
1	338	-1.5	1	1	10	0.8845	555.750693	172.2118
6	761	-7.5	5	5	20	13.0568	20509.53789	0.028294
14	1682	-150	100	100	10	0.5797	36421.54793	0.046982



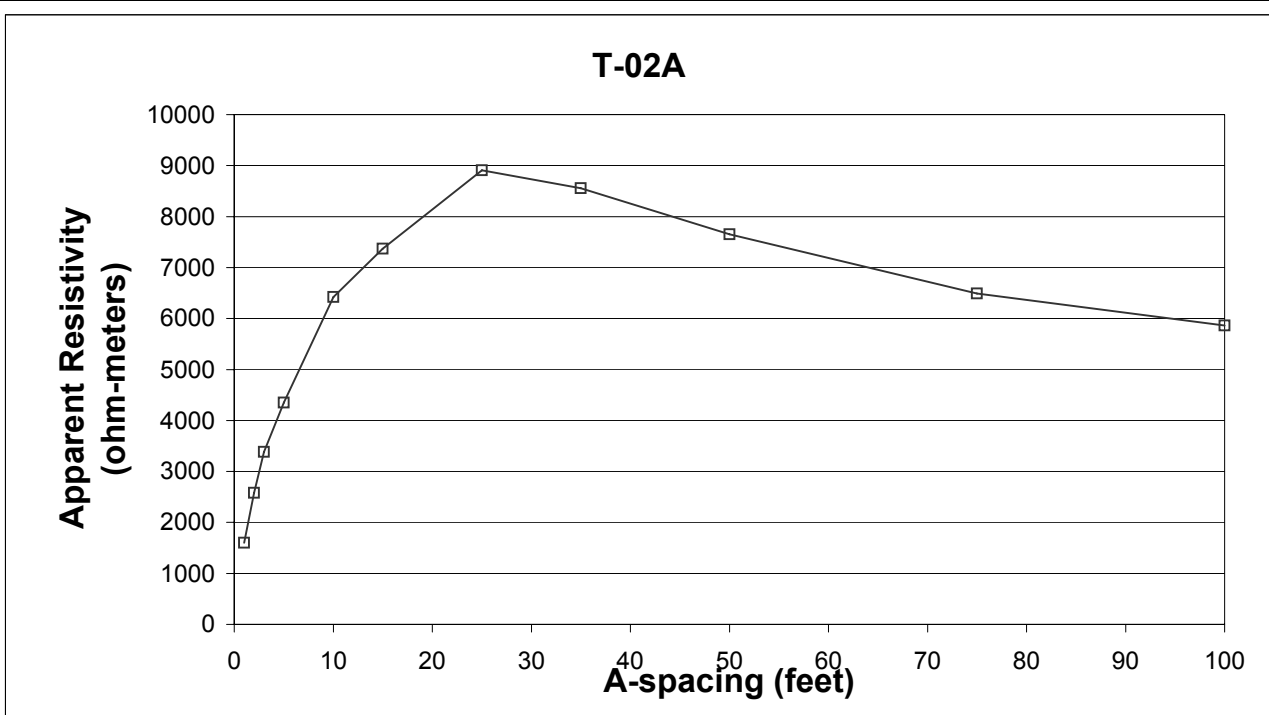
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-02A
 Orientation 63° (true)
moist to wet soil, shallow bedrock

Date 10/24/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	835.2	1,599.5	0.069750
2	1.00	3.00	10	674.0	2,581.5	0.009499
3	1.50	4.50	20	589.0	3,384.3	0.041007
5	2.50	7.50	20	454.5	4,352.3	0.042203
10	5.00	15.00	20	335.2	6,418.9	0.028333
15	7.50	22.50	20	256.5	7,369.2	0.037433
25	12.50	37.50	20	186.1	8,908.0	0.044957
35	17.50	52.50	20	127.6	8,554.0	0.054459
50	25.00	75.00	20	79.9	7,655.0	0.036057
75	37.50	112.50	20	45.2	6,491.6	0.178425
100	50.00	150.00	20	30.6	5,863.4	0.038122

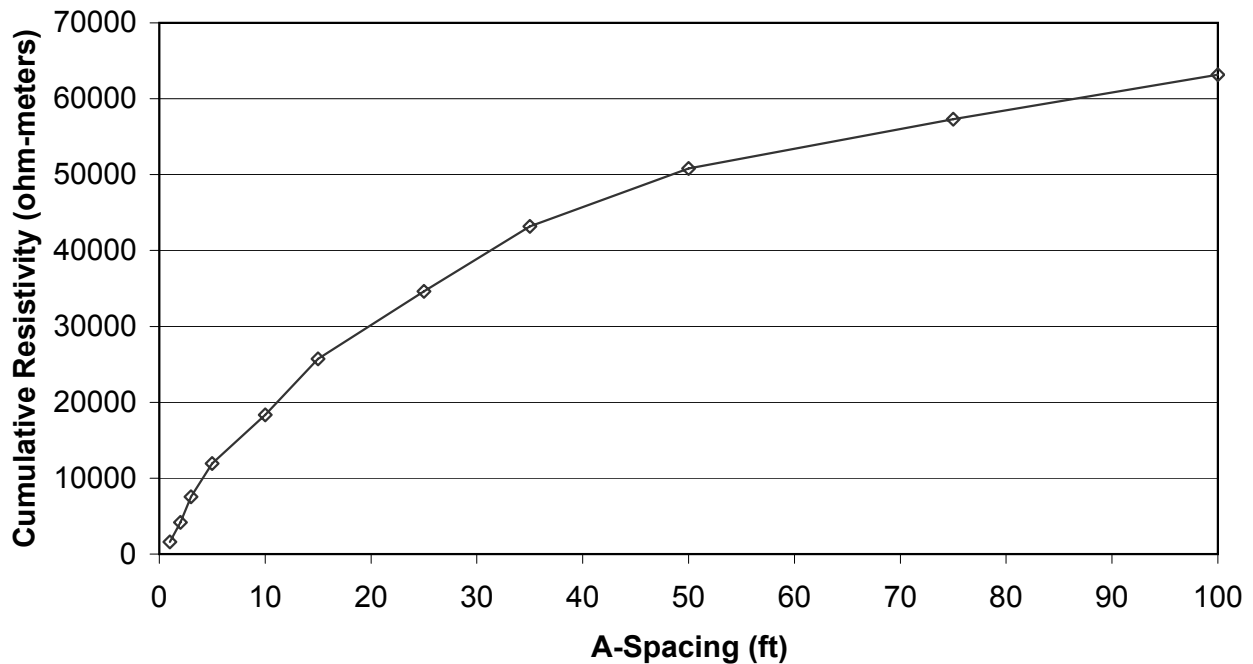
Geomean 5,124
 Min 1,600
 Max 8,908
 Median 6,419
 Std. Dev. 2,448



T-02A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	5247.817528	1599.534782	0.06975	1600
2	1	3	10	4234.663322	2581.450761	0.009499	4181
3	1.5	4.5	20	3701.104022	3384.289518	0.041007	7565
5	2.5	7.5	20	2855.843439	4352.305401	0.042203	11918
10	5	15	20	2105.94056	6418.906827	0.028333	18336
15	7.5	22.5	20	1611.808248	7369.18731	0.037433	25706
25	12.5	37.5	20	1169.027153	8907.986905	0.044957	34614
35	17.5	52.5	20	801.8418877	8554.049258	0.054459	43168
50	25	75	20	502.2979396	7655.0206	0.036057	50823
75	37.5	112.5	20	283.9713874	6491.585916	0.178425	57314
100	50	150	20	192.3697713	5863.430628	0.038122	63178

T-02A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt02a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 24/10/2013 14:09:58

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	374	-1.5	1	1	10	8.352161	5247.817688	0.06975
2	454	-3	2	2	10	6.739676	8469.325755	0.009499
3	527	-4.5	3	3	20	11.78098	11103.31228	0.041007
4	594	-7.5	5	5	20	9.090432	14279.21836	0.042203
5	715	-15	10	10	20	6.703417	21059.40673	0.028333
6	862	-22.5	15	15	20	5.130545	24177.12393	0.037433
7	998	-37.5	25	25	20	3.721129	29225.67761	0.044957
8	1136	-52.5	35	35	20	2.552342	28064.4635	0.054459
9	1310	-75	50	50	20	1.598864	25114.89672	0.036057
10	1601	-112.5	75	75	20	0.903909	21297.86296	0.178425
11	1851	-150	100	100	20	0.612332	19236.96037	0.038122
12	1894	-150	100	100	10	0.307076	19294.16108	0.070259



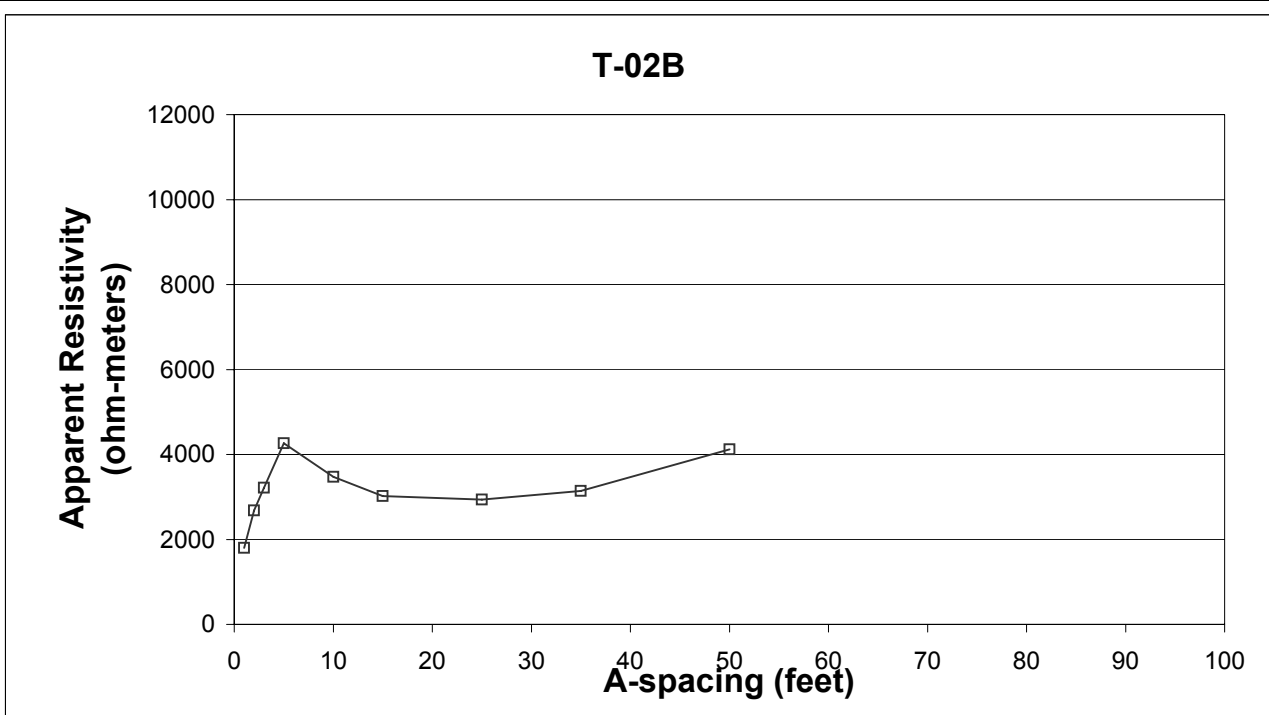
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-02B**
 Orientation **332° (true)**
moist to wet soil, shallow bedrock

Date **10/24/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	938.2	1,796.8	0.0333
2	1.00	3.00	20	700.2	2,682.0	0.0183
3	1.50	4.50	20	560.4	3,219.7	0.0292
5	2.50	7.50	20	445.0	4,261.2	0.0511
10	5.00	15.00	20	181.3	3,471.4	0.0384
15	7.50	22.50	20	105.2	3,022.3	0.0375
25	12.50	37.50	20	61.4	2,937.6	0.0343
35	17.50	52.50	20	46.8	3,139.6	0.0502
50	25.00	75.00	20	43.0	4,119.8	0.0259

Geomean 3,099
 Min 1,797
 Max 4,261
 Median 3,140
 Std. Dev. 740

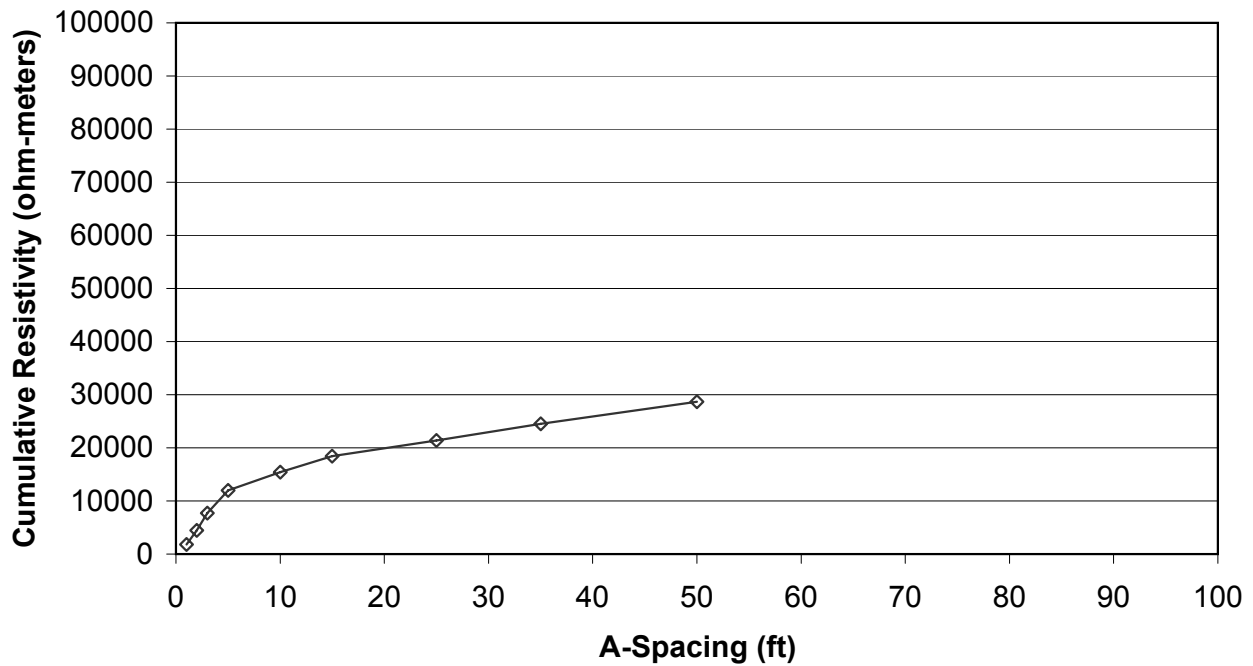


Cumulative Resistivity Sheet

T-02B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	5895.012632	1796.79985	0.033318	1797
2	1	3	20	4399.558609	2681.970928	0.018263	4479
3	1.5	4.5	20	3521.155794	3219.744858	0.029158	7699
5	2.5	7.5	20	2796.092232	4261.244561	0.051087	11960
10	5	15	20	1138.92347	3471.438736	0.038439	15431
15	7.5	22.5	20	661.0401032	3022.275352	0.037484	18453
25	12.5	37.5	20	385.5130027	2937.60908	0.034298	21391
35	17.5	52.5	20	294.2993732	3139.585714	0.050214	24531
50	25	75	20	270.3249372	4119.752043	0.025895	28650

T-02B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt02b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 24/10/2013 15:18:11

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	440	-1.5	1	1	20	18.764408	5895.012619	0.033318
2	496	-3	2	2	20	14.00423	8799.117819	0.018263
3	560	-4.5	3	3	20	11.208187	10563.46762	0.029158
4	632	-7.5	5	5	20	8.900238	13980.46122	0.051087
5	690	-15	10	10	20	3.625306	11389.23403	0.038439
7	841	-22.5	15	15	20	2.104156	9915.600281	0.037484
8	919	-37.5	25	25	20	1.227126	9637.827519	0.034298
9	1052	-52.5	35	35	20	0.936784	10300.4787	0.050214
10	1160	-75	50	50	20	0.860471	13516.24268	0.025895
11	1224	-75	50	50	10	0.431352	13551.3241	0.061496
6	740	-15	10	10	20	3.582485	11254.7087	0.041465



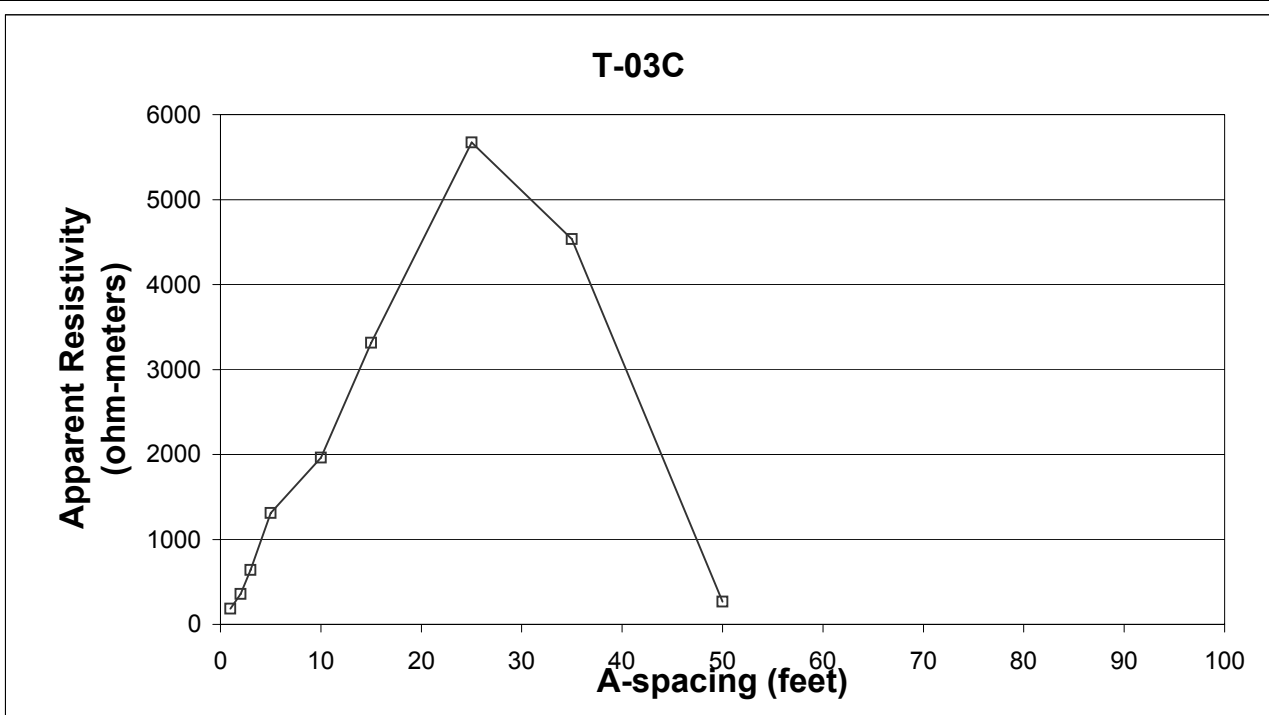
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-03C**
 Orientation **44° (true)**
Moist to wet soil, local shallow bedrock

Date **10/25/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	100	96.3	184.4	0.1387
2	1.00	3.00	100	93.2	357.0	0.0412
3	1.50	4.50	100	111.4	639.8	0.0217
5	2.50	7.50	100	137.1	1,312.5	0.0124
10	5.00	15.00	50	102.6	1,964.2	0.0344
15	7.50	22.50	50	115.4	3,314.9	0.0424
25	12.50	37.50	50	118.4	5,670.6	0.0692
35	17.50	52.50	20	67.7	4,534.6	0.0186
50	25.00	75.00	50	2.8	267.9	0.1811

Geomean 1,106
 Min 184
 Max 5,671
 Median 1,313
 Std. Dev. 2,029

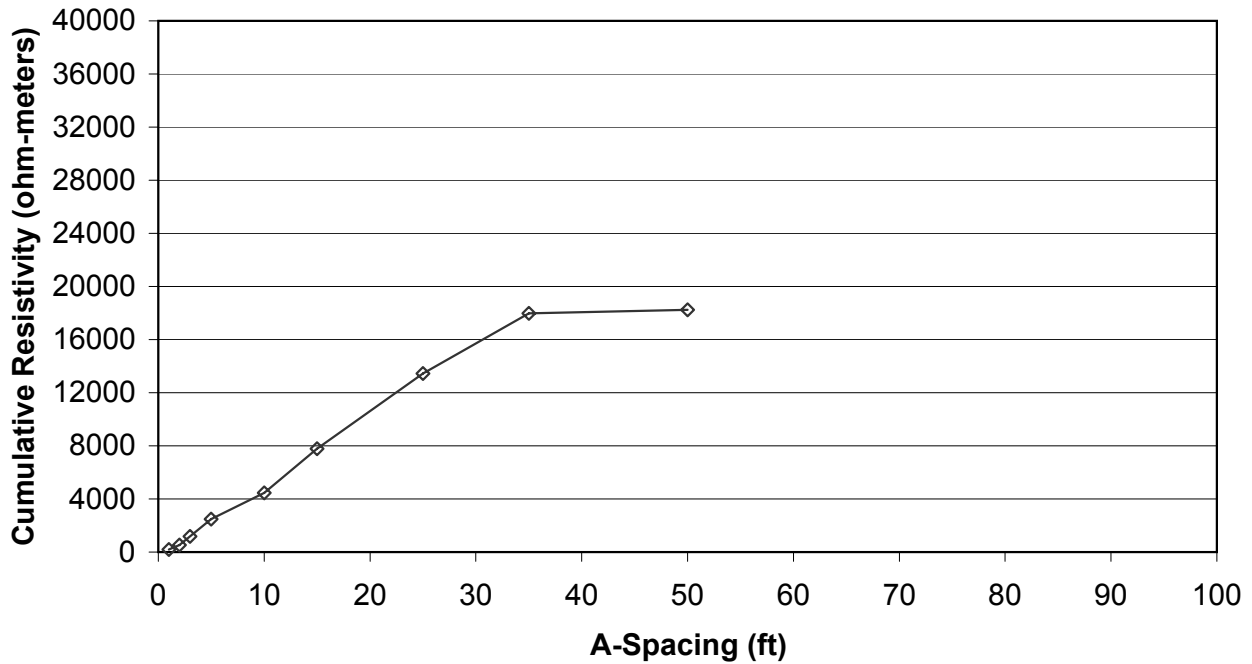


Cumulative Resistivity Sheet

T-03C

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	100	605.1129681	184.4384327	0.138686	184
2	1	3	100	585.5746494	356.9663063	0.041164	541
3	1.5	4.5	100	699.6985317	639.8043374	0.021691	1181
5	2.5	7.5	100	861.2382835	1312.527144	0.012439	2494
10	5	15	50	644.4102709	1964.162506	0.034416	4458
15	7.5	22.5	50	725.0459066	3314.909885	0.042358	7773
25	12.5	37.5	50	744.172928	5670.597711	0.069161	13443
35	17.5	52.5	20	425.0615701	4534.55683	0.01856	17978
50	25	75	50	17.58060382	267.9284022	0.181074	18246

T-03C
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt03c.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 24/10/2013 10:02:25

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmFT)	Error(%)
3	1082	-1.5	1	1	100	9.630672	605.112949	0.138686
4	1225	-3	2	2	100	9.31971	1171.149271	0.041164
5	1332	-4.5	3	3	100	11.136048	2099.095619	0.021691
10	2521	-7.5	5	5	100	13.707033	4306.191347	0.012439
12	2773	-15	10	10	50	5.128054	6444.102768	0.034416
13	3054	-22.5	15	15	50	5.769732	10875.6877	0.042358
14	4144	-37.5	25	25	50	5.92194	18604.32512	0.069161
15	4384	-52.5	35	35	20	1.353013	14877.15496	0.01856
16	4761	-75	50	50	50	0.139902	879.029115	0.181074
1	352	-1.5	1	1	100	0.000932	0.058539	15.09108
2	470	-1.5	1	1	100	0.001083	0.068016	14.45588
6	1415	-4.5	3	3	50	6.103755	2301.061495	0.02173
7	1498	-4.5	3	3	50	5.032509	1897.21114	0.033383
9	1843	-7.5	5	5	50	6.875846	4320.22104	0.009002
8	1701	-7.5	5	5	50	5.120562	3217.343741	33.60931
11	2665	-15	10	10	50	0.610806	767.561322	4.050786



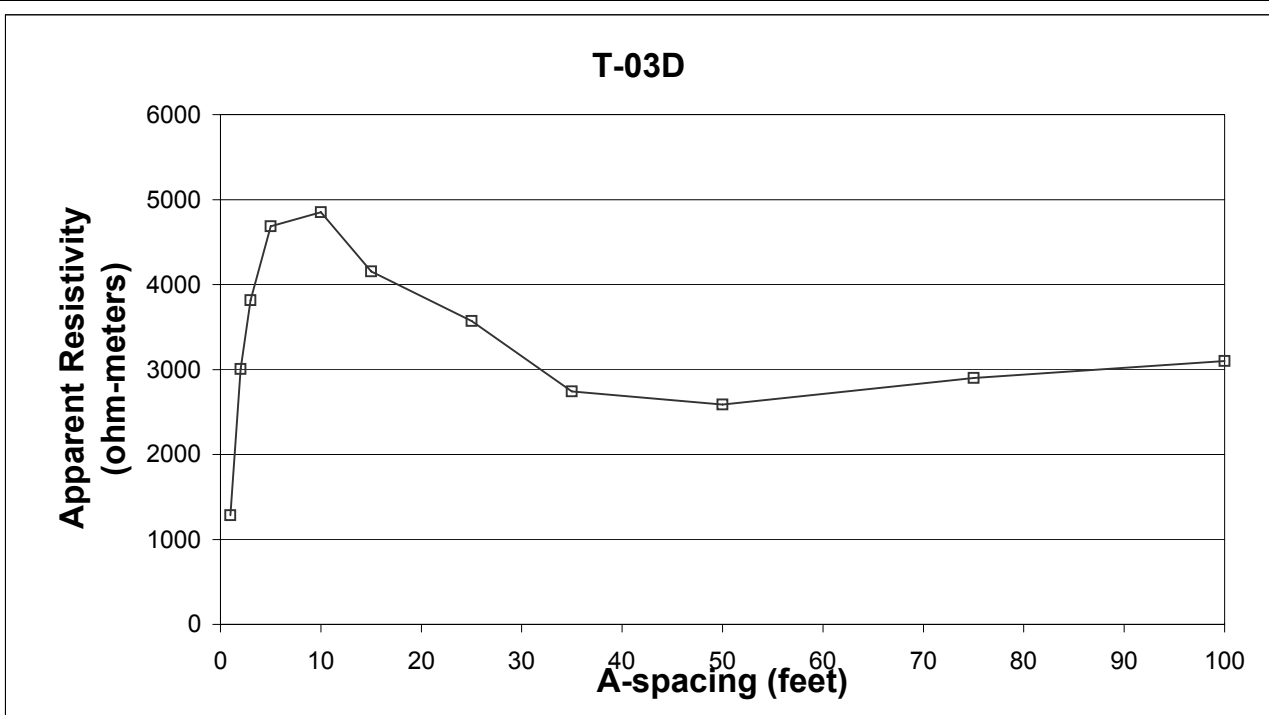
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-03D
 Orientation 325° (true)
Moist to wet soil, local shallow bedrock

Date 10/25/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

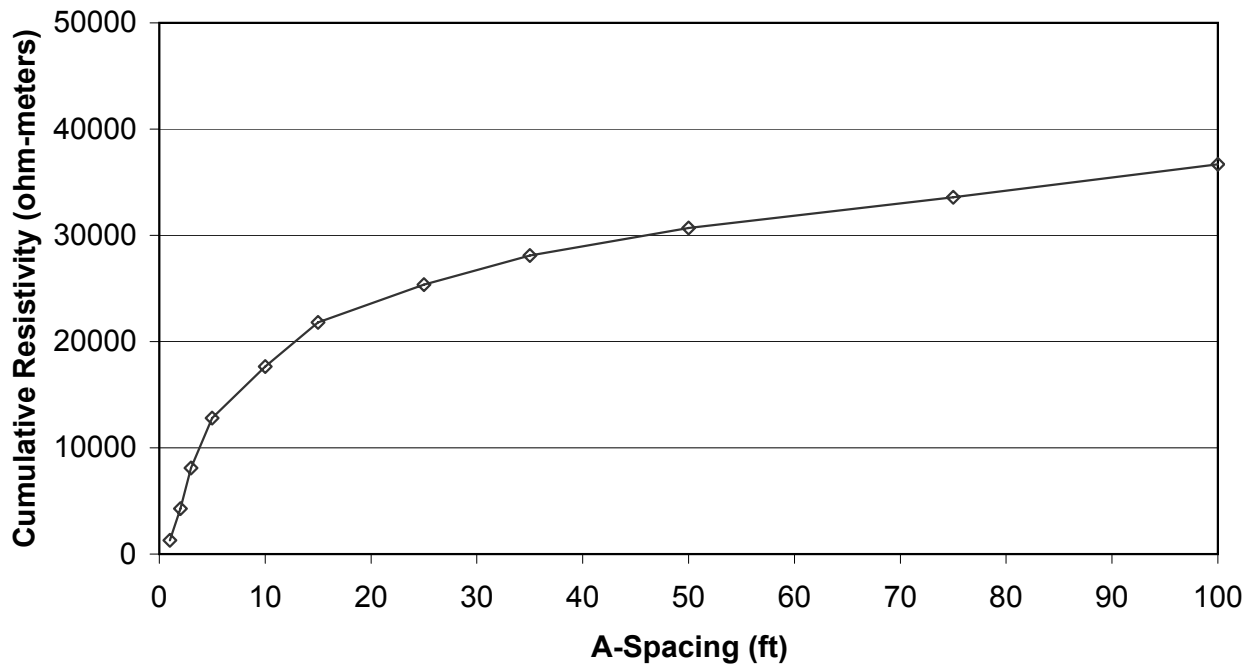
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	670.2	1,283.6	0.0519
2	1.00	3.00	20	785.1	3,007.2	0.0271
3	1.50	4.50	20	664.0	3,815.0	0.0663
5	2.50	7.50	20	489.4	4,686.2	0.0755
10	5.00	15.00	20	253.4	4,853.0	0.0411
15	7.50	22.50	50	144.6	4,152.9	0.0398
25	12.50	37.50	20	74.5	3,568.8	0.0164
35	17.50	52.50	20	40.9	2,740.4	0.0389
50	25.00	75.00	50	27.0	2,588.7	0.0466
75	37.50	112.50	20	20.2	2,901.5	0.0175
100	50.00	150.00	20	16.2	3,101.3	0.0371

Geomean 3,163
 Min 1,284
 Max 4,853
 Median 3,101
 Std. Dev. 1,027



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4211.214788	1283.578268	0.05194	1284
2	1	3	20	4932.995386	3007.153988	0.027147	4291
3	1.5	4.5	20	4172.169504	3815.031795	0.066335	8106
5	2.5	7.5	20	3074.931199	4686.195147	0.075488	12792
10	5	15	20	1592.178635	4852.960479	0.041104	17645
15	7.5	22.5	50	908.3313229	4152.890808	0.039781	21798
25	12.5	37.5	20	468.3498894	3568.826157	0.01637	25367
35	17.5	52.5	20	256.8823764	2740.421192	0.038929	28107
50	25	75	50	169.8640298	2588.727815	0.046574	30696
75	37.5	112.5	20	126.9263122	2901.535498	0.017508	33597
100	50	150	20	101.7483321	3101.289161	0.037129	36699

T-03D
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt03d.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 24/10/2013 11:59:00

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmFT)	Error(%)
1	557	-1.5	1	1	20	13.404713	4211.214831	0.05194
3	801	-3	2	2	20	15.702212	9865.990719	0.027147
4	879	-4.5	3	3	20	13.280428	12516.5078	0.066335
5	979	-7.5	5	5	20	9.78781	15374.65705	0.075488
6	1065	-15	10	10	20	5.068062	15921.78773	0.041104
7	1212	-22.5	15	15	50	7.228271	13624.96932	0.039781
8	1313	-37.5	25	25	20	1.490804	11708.74712	0.01637
9	1461	-52.5	35	35	20	0.817682	8990.88778	0.038929
10	1653	-75	50	50	50	1.351735	8493.201615	0.046574
11	1842	-112.5	75	75	20	0.404019	9519.483598	0.017508
12	2161	-150	100	100	20	0.323875	10174.82626	0.037129
2	723	-3	2	2	20	15.773849	9911.002317	0.036932
13	2206	-150	100	100	10	0.161273	10133.11037	0.022252



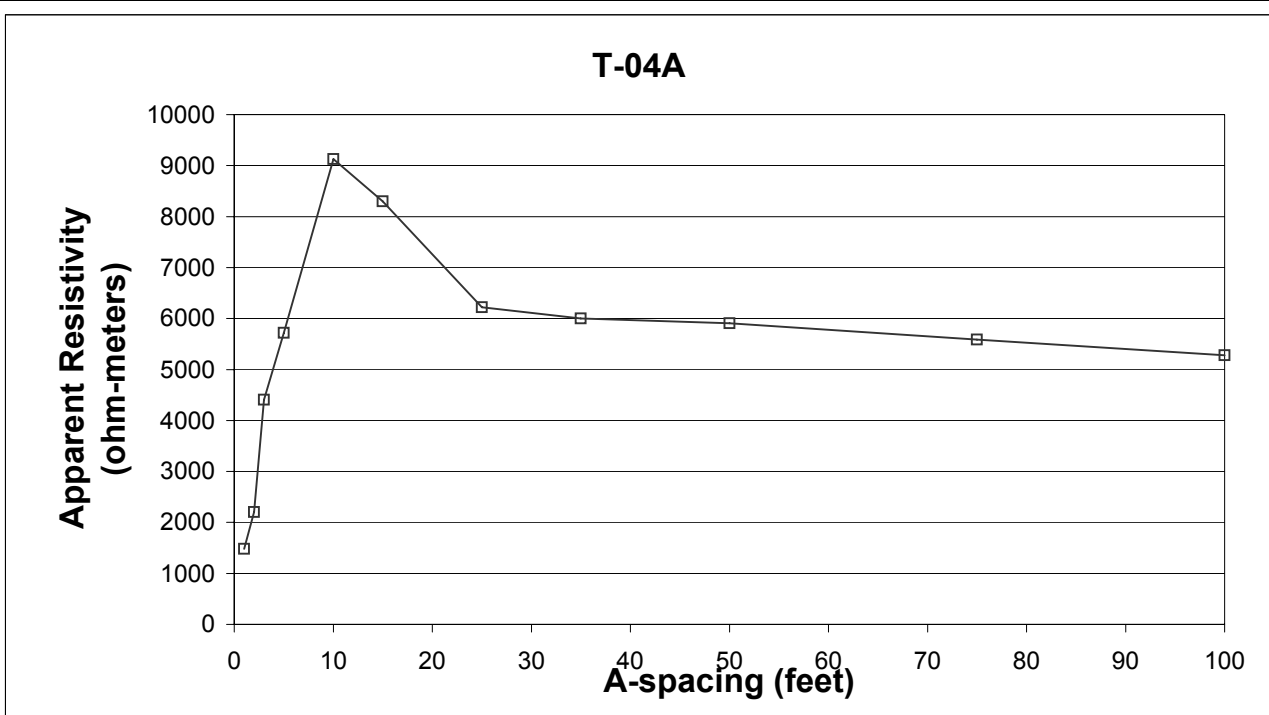
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-04A
 Orientation 299° (true)
Sandy silt over shallow bedrock

Date 10/23/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	773.7	1,481.6	0.0475
2	1.00	3.00	20	576.0	2,206.3	0.0654
3	1.50	4.50	20	766.5	4,403.7	0.0667
5	2.50	7.50	50	596.9	5,715.8	0.0290
10	5.00	15.00	50	476.7	9,129.4	0.0644
15	7.50	22.50	20	289.0	8,301.6	0.0402
25	12.50	37.50	20	130.0	6,223.4	0.0313
35	17.50	52.50	20	89.5	5,998.5	0.0510
50	25.00	75.00	20	61.7	5,904.1	0.0376
75	37.50	112.50	20	38.9	5,586.8	0.0482
100	50.00	150.00	20	27.6	5,280.4	0.0301

Geomean 4,916
 Min 1,482
 Max 9,129
 Median 5,716
 Std. Dev. 2,242

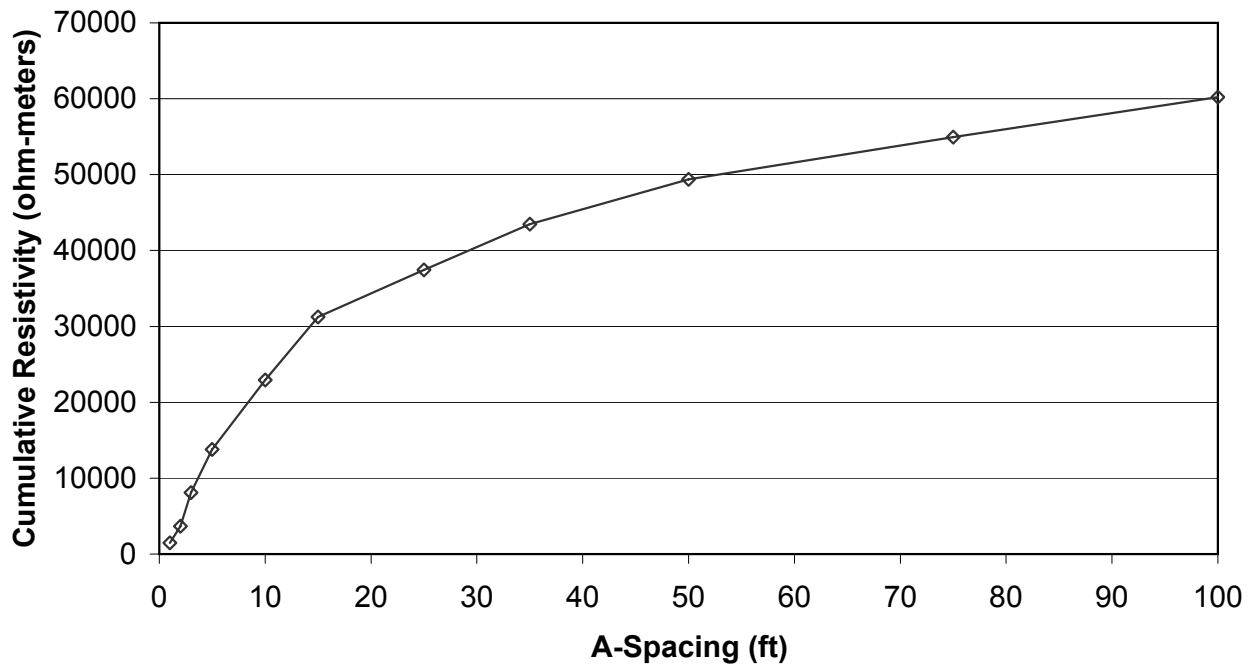


Cumulative Resistivity Sheet

T-04A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	4861.032808	1481.6428	0.047499	1482
2	1	3	20	3619.194533	2206.260988	0.065369	3688
3	1.5	4.5	20	4815.891892	4403.651546	0.066737	8092
5	2.5	7.5	50	3750.508457	5715.774888	0.029041	13807
10	5	15	50	2995.199839	9129.369111	0.064383	22937
15	7.5	22.5	20	1815.752589	8301.620838	0.040204	31238
25	12.5	37.5	20	816.7173289	6223.386046	0.031291	37462
35	17.5	52.5	20	562.2907354	5998.517566	0.050983	43460
50	25	75	20	387.4098963	5904.12682	0.037572	49364
75	37.5	112.5	20	244.3917182	5586.794678	0.048193	54951
100	50	150	20	173.2418702	5280.412205	0.030145	60232

T-04A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt04a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 23/10/2013 14:22:04

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmFT)	Error(%)
1	679	-1.5	1	1	10	7.736574	4861.032869	0.047499
2	877	-3	2	2	20	11.520254	7238.389008	0.065369
3	1931	-4.5	3	3	20	15.32946	14447.6761	0.066737
6	2486	-7.5	5	5	50	29.845598	18752.54122	0.029041
7	2606	-15	10	10	50	23.835043	29951.99882	0.064383
9	2782	-22.5	15	15	20	5.77972	27236.291	0.040204
10	2940	-37.5	25	25	20	2.599692	20417.93144	0.031291
11	3176	-52.5	35	35	20	1.789827	19680.17704	0.050983
12	3323	-75	50	50	20	1.233164	19370.48861	0.037572
13	3552	-112.5	75	75	20	0.777923	18329.37285	0.048193
14	3758	-150	100	100	20	0.551446	17324.20138	0.030145
4	2042	-4.5	3	3	20	14.304944	13482.09195	0.048671
5	2152	-4.5	3	3	20	11.548688	10884.38177	0.044293
8	2739	-22.5	15	15	20	0.107887	508.407447	42.64182
15	3808	-150	100	100	10	0.276612	17380.06345	0.02813



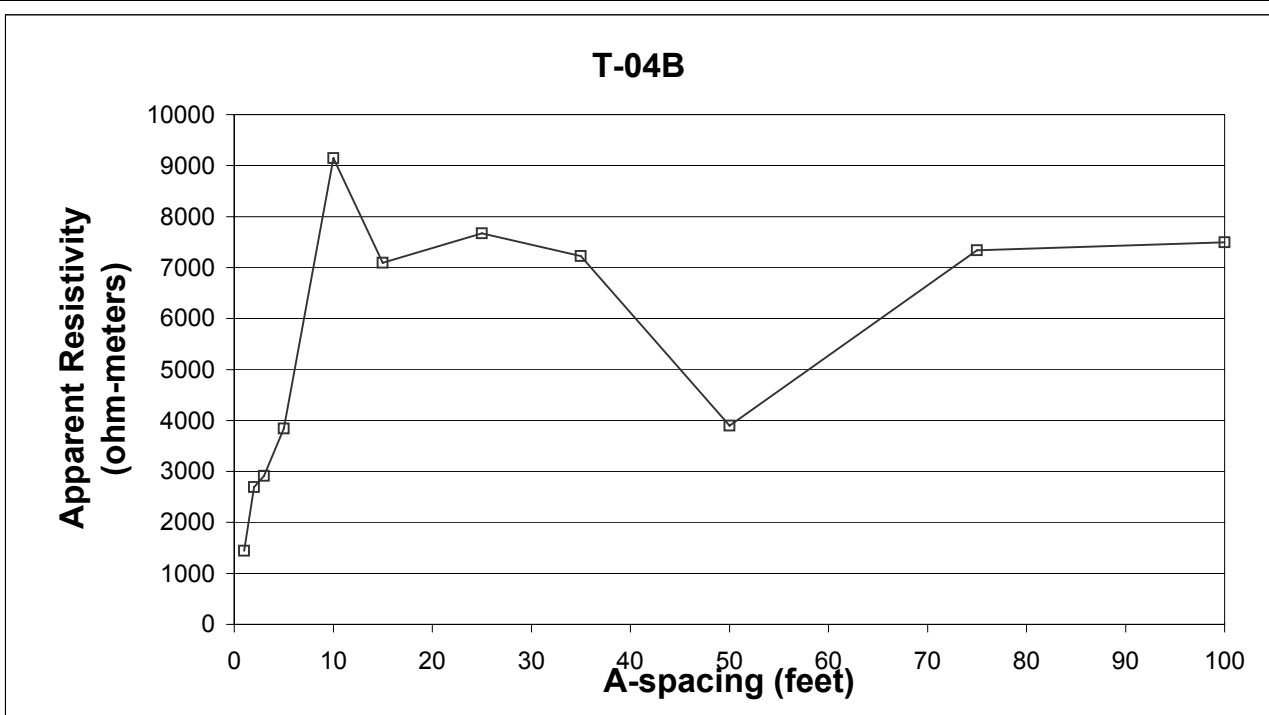
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-04B**
 Orientation **32° (true)**
Sandy silt over shallow bedrock

Date **10/25/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	752.8	1,441.7	0.0764
2	1.00	3.00	10	702.9	2,692.2	0.0512
3	1.50	4.50	10	507.3	2,914.5	0.0347
5	2.50	7.50	50	400.9	3,839.1	0.0361
10	5.00	15.00	50	477.7	9,149.0	0.0327
15	7.50	22.50	20	246.9	7,092.1	0.0553
25	12.50	37.50	50	160.2	7,670.8	0.0546
35	17.50	52.50	20	107.8	7,225.6	0.0179
50	25.00	75.00	50	40.7	3,895.7	0.0607
75	37.50	112.50	50	51.1	7,339.7	0.0408
100	50.00	150.00	50	39.2	7,497.8	0.0517

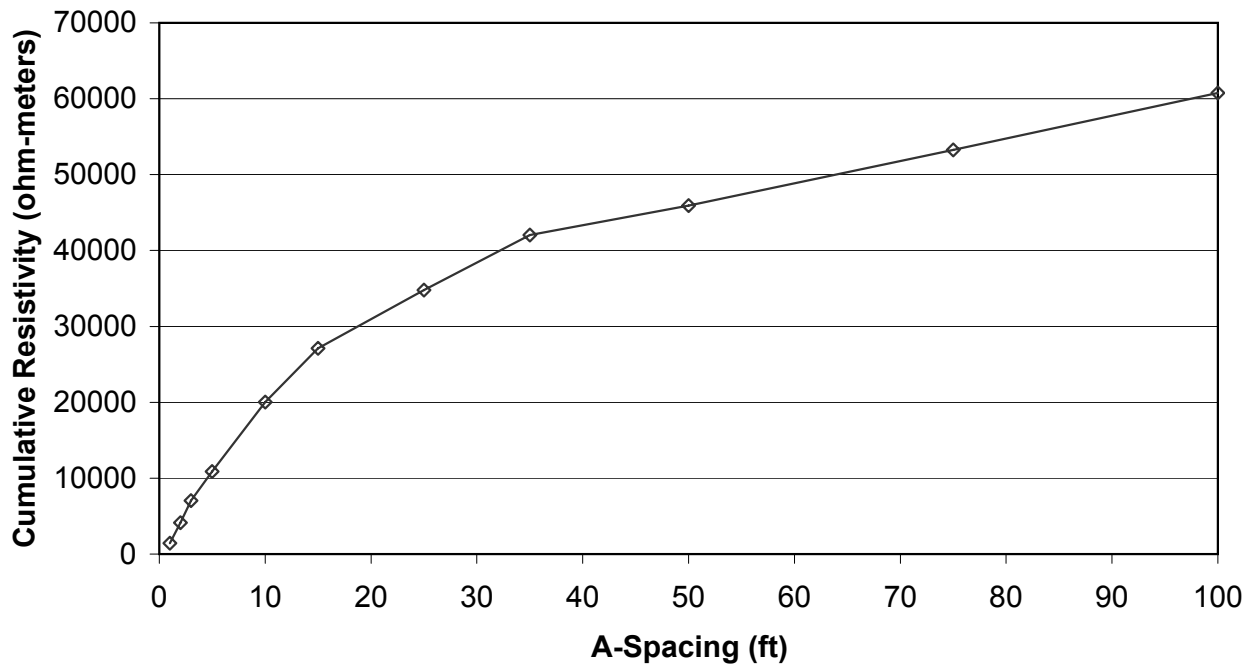
Geomean 4,831
 Min 1,442
 Max 9,149
 Median 7,092
 Std. Dev. 2,594



T-04B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4729.879483	1441.667267	0.076444	1442
2	1	3	10	4416.411368	2692.24437	0.051174	4134
3	1.5	4.5	10	3187.31288	2914.478897	0.034722	7048
5	2.5	7.5	50	2519.071367	3839.064763	0.036149	10887
10	5	15	50	3001.626281	9148.956906	0.032717	20036
15	7.5	22.5	20	1551.197815	7092.076411	0.055299	27128
25	12.5	37.5	50	1006.66355	7670.77625	0.054571	34799
35	17.5	52.5	20	677.3195221	7225.644662	0.017881	42025
50	25	75	50	255.6219694	3895.678814	0.060681	45921
75	37.5	112.5	50	321.0730311	7339.729492	0.040836	53260
100	50	150	50	245.990349	7497.785838	0.051674	60758

T-04B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt04b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 23/10/2013 16:16:03

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmFT)	Error(%)
1	58	-1.5	1	1	20	15.055674	4729.879429	0.076444
2	114	-3	2	2	10	7.028937	8832.823212	0.051174
3	161	-4.5	3	3	10	5.072766	9561.938853	0.034722
4	232	-7.5	5	5	50	20.046133	12595.3571	0.036149
5	354	-15	10	10	50	23.886183	30016.26302	0.032717
6	457	-22.5	15	15	20	4.937616	23267.96851	0.055299
7	587	-37.5	25	25	50	8.010774	25166.58708	0.054571
8	728	-52.5	35	35	20	2.155975	23706.18368	0.017881
9	864	-75	50	50	50	2.034175	12781.09796	0.060681
12	1173	-112.5	75	75	50	2.555018	24080.47595	0.040836
13	1398	-150	100	100	50	1.957529	24599.03576	0.051674
10	1033	-112.5	75	75	5	0.053085	5003.1086	14.68696
11	1079	-112.5	75	75	5	0.283027	26674.68434	0.056234
14	1430	-150	100	100	20	0.786028	24693.80701	0.041847



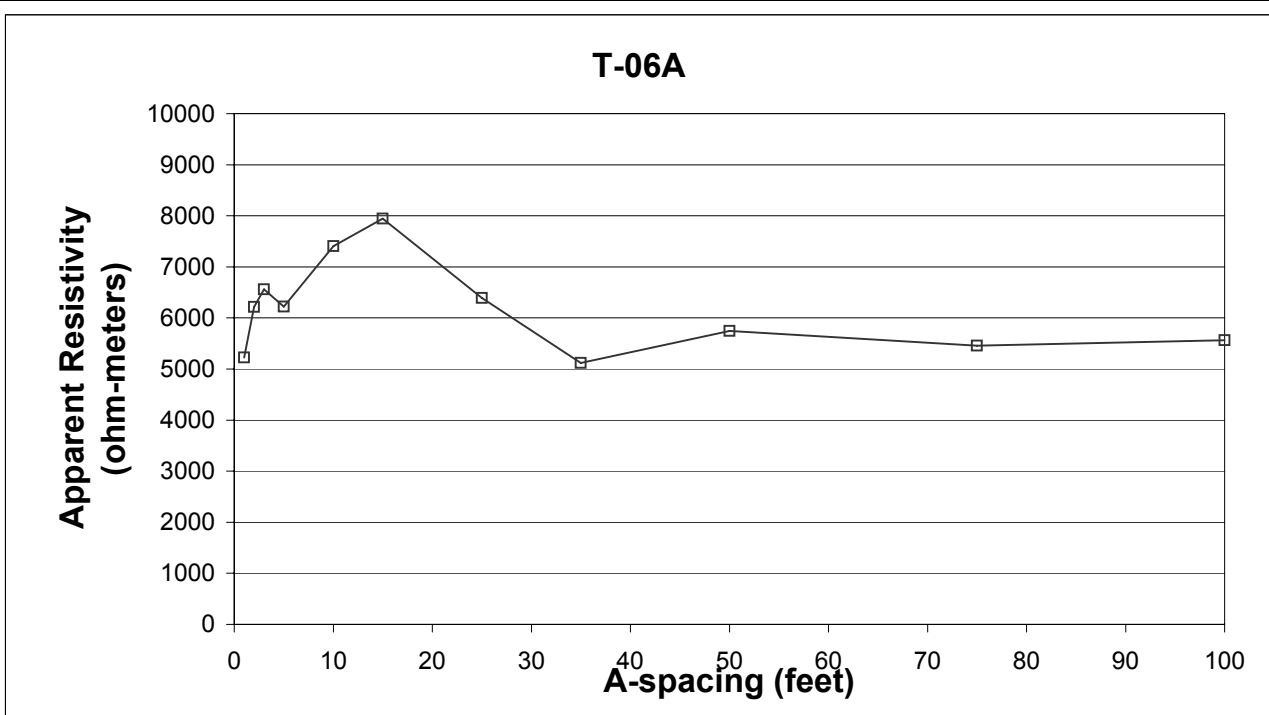
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-06A**
 Orientation **48° (true)**
Thin soil on Bedrock

Date **10/23/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	2727.4	5,223.3	0.1203
2	1.00	3.00	20	1622.7	6,215.4	0.1826
3	1.50	4.50	10	1141.9	6,560.8	0.0386
5	2.50	7.50	10	649.6	6,220.2	0.0197
10	5.00	15.00	20	386.8	7,407.1	0.0539
15	7.50	22.50	20	276.5	7,943.7	0.0524
25	12.50	37.50	20	133.5	6,390.5	0.0685
35	17.50	52.50	20	76.4	5,119.5	0.0653
50	25.00	75.00	20	60.0	5,746.6	0.0822
75	37.50	112.50	20	38.0	5,455.5	0.1057
100	50.00	150.00	20	29.0	5,561.9	0.0950

Geomean 6,112
 Min 5,120
 Max 7,944
 Median 6,215
 Std. Dev. 891

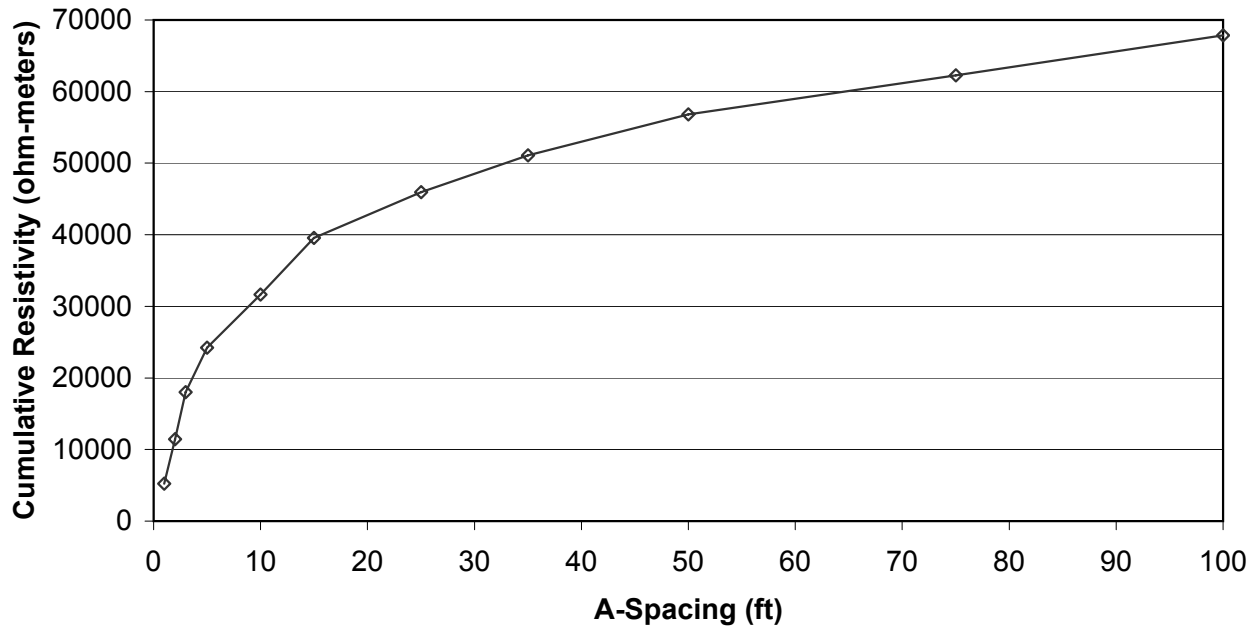


Cumulative Resistivity Sheet

T-06A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	17136.82809	5223.305203	0.120344	5223
2	1	3	20	10195.86931	6215.401932	0.182567	11439
3	1.5	4.5	10	7175.008063	6560.827373	0.038573	18000
5	2.5	7.5	10	4081.488061	6220.187804	0.019656	24220
10	5	15	20	2430.140984	7407.069719	0.053907	31627
15	7.5	22.5	20	1737.47541	7943.737574	0.05244	39571
25	12.5	37.5	20	838.6513005	6390.52291	0.068497	45961
35	17.5	52.5	20	479.8955566	5119.525798	0.065293	51081
50	25	75	20	377.0746848	5746.618196	0.082213	56827
75	37.5	112.5	20	238.647316	5455.477644	0.10569	62283
100	50	150	20	182.4778385	5561.924517	0.09499	67845

T-06A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt06a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 23/10/2013 12:06:35

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	163	-1.5	1	1	10	27.274109	17136.82802	0.120344
3	1159	-3	2	2	20	32.45446	20391.73891	0.182567
4	1396	-4.5	3	3	10	11.41938	21525.02397	0.038573
5	1513	-7.5	5	5	10	6.49589	20407.43997	0.019656
6	1629	-15	10	10	20	7.735379	24301.40993	0.053907
11	2077	-22.5	15	15	20	5.530556	26062.12842	0.05244
12	2217	-37.5	25	25	20	2.66951	20966.28163	0.068497
13	2346	-52.5	35	35	20	1.527555	16796.34373	0.065293
14	2452	-75	50	50	20	1.200266	18853.74201	0.082213
15	2595	-112.5	75	75	20	0.759638	17898.56094	0.10569
16	2757	-150	100	100	20	0.580845	18247.77885	0.09499
2	1033	-3	2	2	5	7.959382	20004.10656	0.096115
7	1773	-22.5	15	15	2	0.585559	27593.82166	0.30865
8	1845	-22.5	15	15	2	0.584839	27559.87945	0.548513
9	1897	-22.5	15	15	2	0.670516	31597.30155	0.053276
10	2028	-22.5	15	15	2	0.670205	31582.68751	0.010027
17	2872	-150	100	100	10	0.291458	18312.83282	0.111642



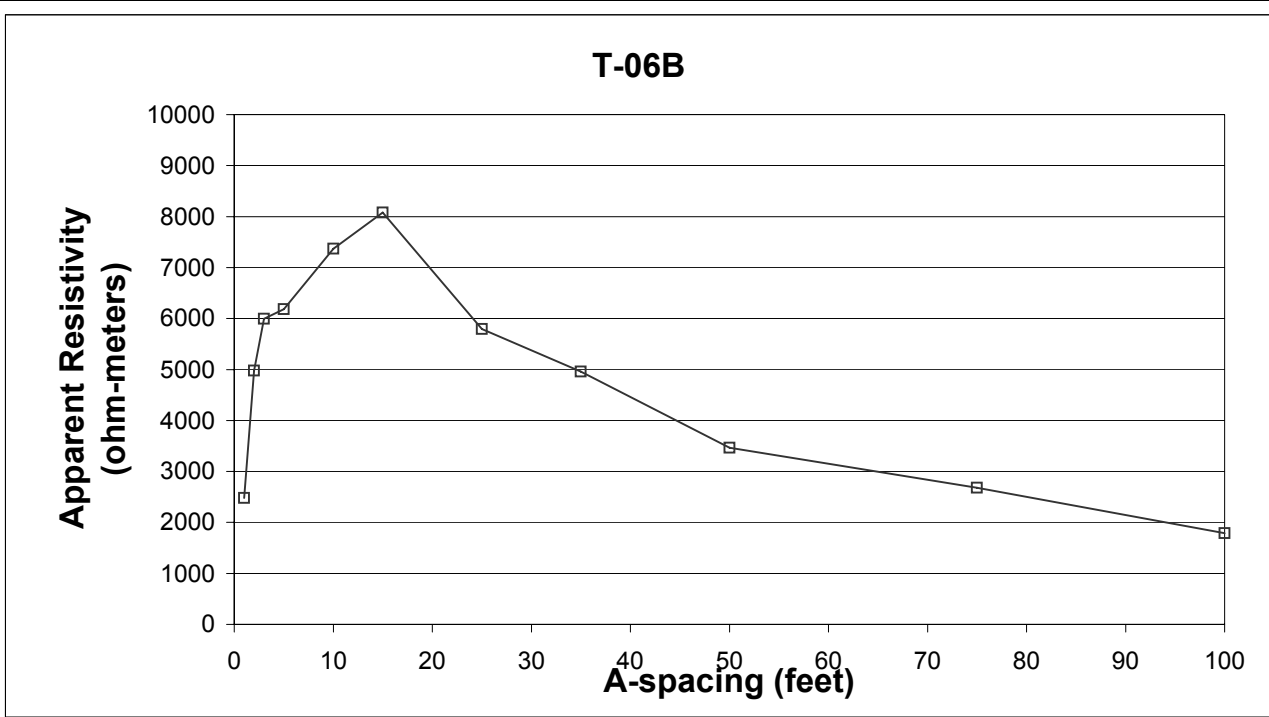
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
Spread No **T-06B**
Orientation **320° (true)**
Thin soil on Bedrock

Date **10/23/2013**
lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1296.1	2,482.1	0.0236
2	1.00	3.00	10	1300.4	4,980.9	0.0612
3	1.50	4.50	10	1043.2	5,993.7	0.0381
5	2.50	7.50	10	645.6	6,181.7	0.0351
10	5.00	15.00	20	384.9	7,371.3	0.0643
15	7.50	22.50	20	281.3	8,079.7	0.0737
25	12.50	37.50	20	121.0	5,793.3	0.0574
35	17.50	52.50	20	74.0	4,959.8	0.0724
50	25.00	75.00	10	36.2	3,464.5	0.0860
75	37.50	112.50	20	18.7	2,679.4	0.0758
100	50.00	150.00	20	9.4	1,791.6	0.2174

Geomean 4,434
Min 1,792
Max 8,080
Median 4,981
Std. Dev. 2,058

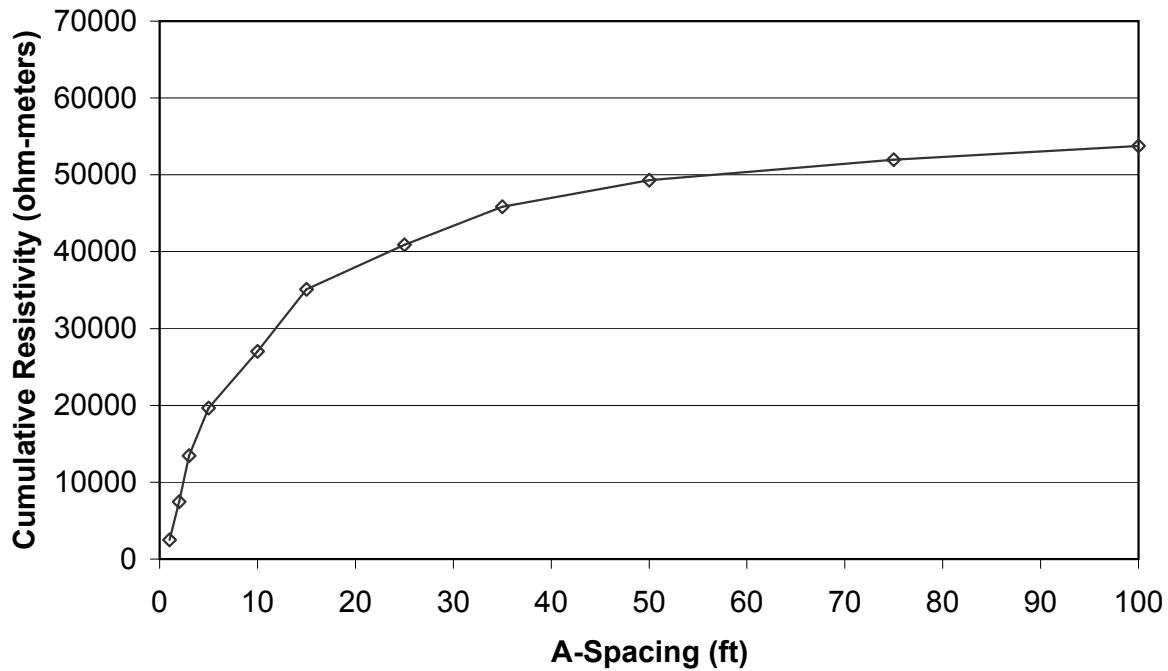


Cumulative Resistivity Sheet

T-06B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	8143.495419	2482.137404	0.02357	2482
2	1	3	10	8170.735227	4980.880194	0.06119	7463
3	1.5	4.5	10	6554.769709	5993.681422	0.03814	13457
5	2.5	7.5	10	4056.245992	6181.718892	0.03512	19638
10	5	15	20	2418.416874	7371.334633	0.06428	27010
15	7.5	22.5	20	1767.209014	8079.67961	0.07369	35089
25	12.5	37.5	20	760.2726478	5793.277576	0.05744	40883
35	17.5	52.5	20	464.9195844	4959.762127	0.07242	45842
50	25	75	10	227.3312993	3464.529001	0.08602	49307
75	37.5	112.5	20	117.209052	2679.398929	0.07584	51986
100	50	150	20	58.77825607	1791.561245	0.21739	53778

T-06B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt06b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 23/10/2013 13:00:24

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	657	-1.5	1	1	20	25.921551	8143.495197	0.023571
2	774	-3	2	2	10	13.004129	16341.47126	0.061188
4	944	-4.5	3	3	10	10.43224	19664.30681	0.038137
6	1147	-7.5	5	5	10	6.455716	20281.22978	0.035118
7	1218	-15	10	10	20	7.69806	24184.16969	0.064276
8	1375	-22.5	15	15	20	5.625201	26508.13429	0.073689
9	1468	-37.5	25	25	20	2.420023	19006.81412	0.057437
10	1579	-52.5	35	35	20	1.479885	16272.18489	0.072415
11	1686	-75	50	50	10	0.361809	11366.56035	0.086024
12	1811	-112.5	75	75	20	0.373088	8790.678839	0.075839
13	1958	-150	100	100	20	0.187097	5877.815904	0.217394
3	862	-4.5	3	3	10	3.069218	5785.339896	7.088289
5	1062	-7.5	5	5	10	3.446887	10828.71649	0.160995
14	1992	-150	100	100	10	0.09378	5892.352169	0.007543



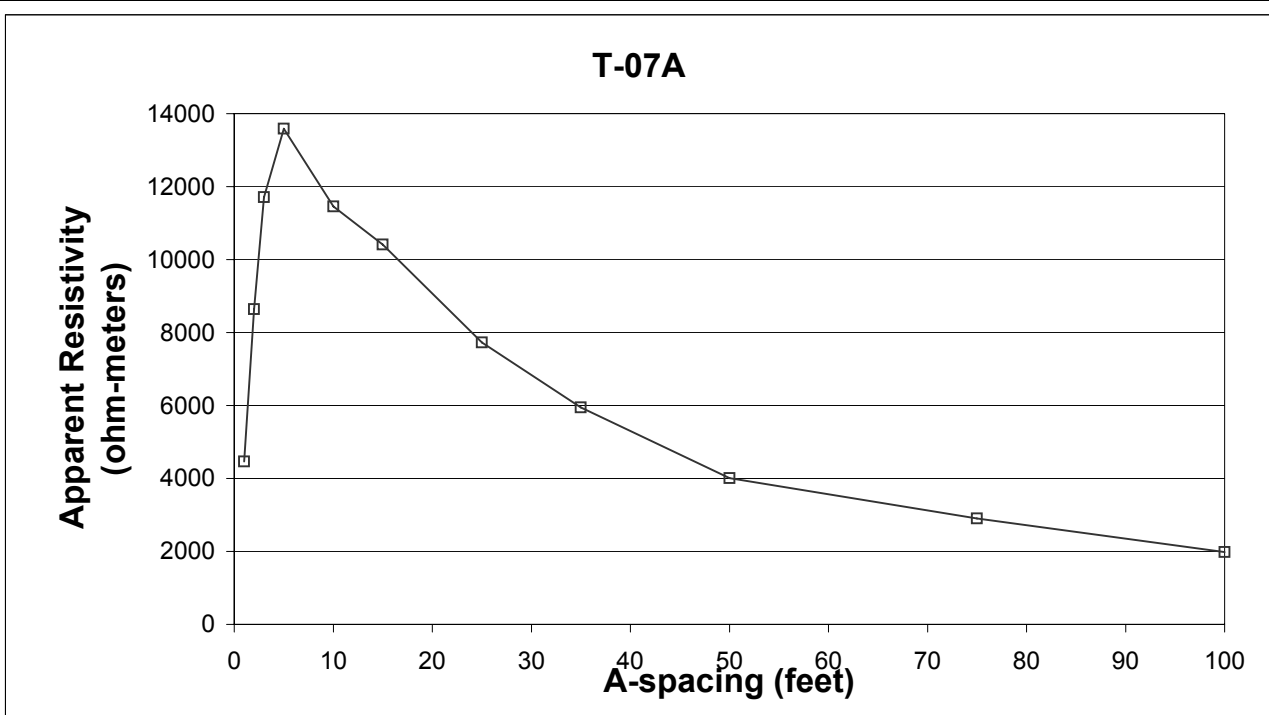
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-07A
 Orientation 352° (mag)

Date 10/28/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	2331.1	4,464.3	0.0061
2	1.00	3.00	10	2255.9	8,640.7	0.5272
3	1.50	4.50	10	2037.9	11,708.7	0.0544
5	2.50	7.50	10	1418.9	13,586.4	0.0531
10	5.00	15.00	20	598.1	11,455.2	0.0344
15	7.50	22.50	10	362.5	10,413.2	0.0625
25	12.50	37.50	20	161.5	7,731.5	0.0861
35	17.50	52.50	10	88.7	5,947.2	0.0722
50	25.00	75.00	10	41.9	4,012.6	0.0582
75	37.50	112.50	10	20.2	2,906.6	0.0210
100	50.00	150.00	10	10.4	1,985.1	0.0808

Geomean 6,432
 Min 1,985
 Max 13,586
 Median 7,731
 Std. Dev. 3,944

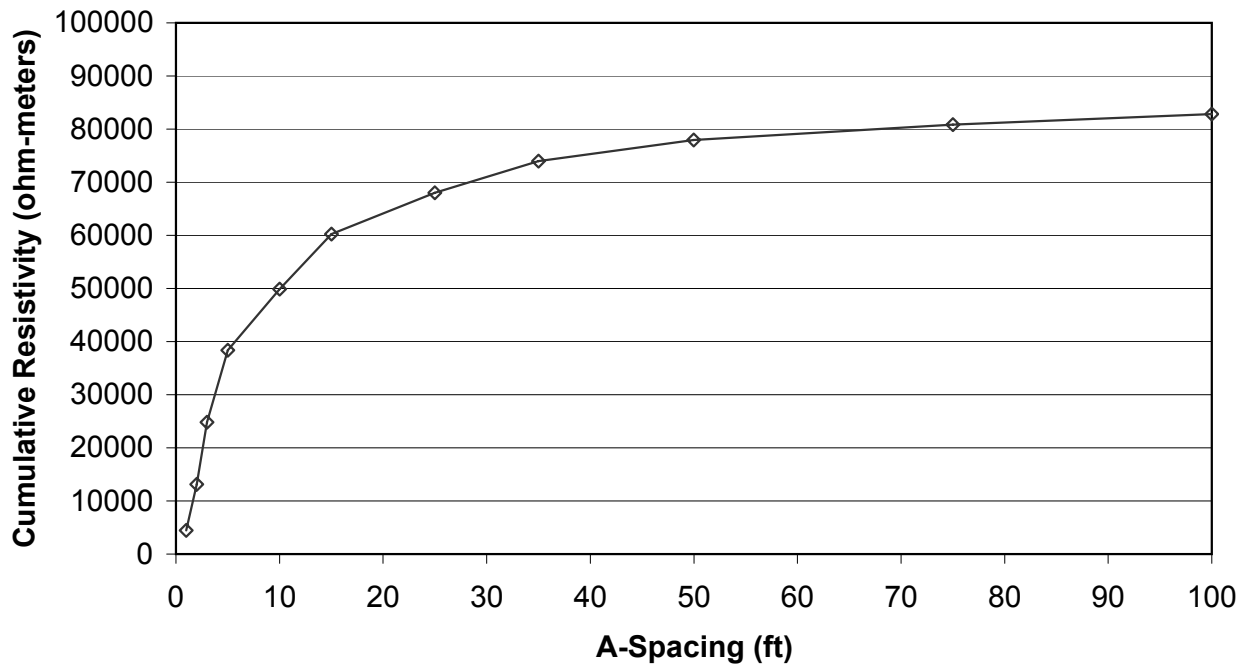


Cumulative Resistivity Sheet

T-07A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	14646.59504	4464.282168	0.006095	4464
2	1	3	10	14174.32884	8640.670861	0.527186	13105
3	1.5	4.5	10	12804.75341	11708.66652	0.054383	24814
5	2.5	7.5	10	8914.959048	13586.39759	0.053076	38400
10	5	15	20	3758.266871	11455.19742	0.034445	49855
15	7.5	22.5	10	2277.606293	10413.21597	0.062542	60268
25	12.5	37.5	20	1014.632325	7731.498319	0.086075	68000
35	17.5	52.5	10	557.4793863	5947.190093	0.072152	73947
50	25	75	10	263.2956237	4012.625305	0.058237	77960
75	37.5	112.5	10	127.1465379	2906.569856	0.020974	80866
100	50	150	10	65.12772898	1985.093179	0.080813	82851

T-07A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt07a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 28/10/2013 14:47:29

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	415	-1.5	1	1	10	23.31078	14646.59429	0.006095
2	524	-3	2	2	10	22.559145	28348.65832	0.527186
3	578	-4.5	3	3	10	20.379398	38414.26059	0.054383
4	644	-7.5	5	5	10	14.188598	44574.7934	0.053076
5	723	-15	10	10	20	11.962935	37582.6712	0.034445
7	893	-22.5	15	15	10	3.624923	34164.10105	0.062542
9	1067	-37.5	25	25	20	3.229675	25365.80564	0.086075
10	1156	-52.5	35	35	10	0.887256	19511.77207	0.072152
11	1233	-75	50	50	10	0.419048	13164.76573	0.058237
12	1326	-112.5	75	75	10	0.20236	9535.983179	0.020974
13	1479	-150	100	100	10	0.103654	6512.77729	0.080813
6	818	-22.5	15	15	10	1.100392	10370.95025	2.968204
8	1015	-37.5	25	25	2	0.330577	25963.47811	0.066334
14	1554	-150	100	100	10	0.103623	6510.806484	0.147294



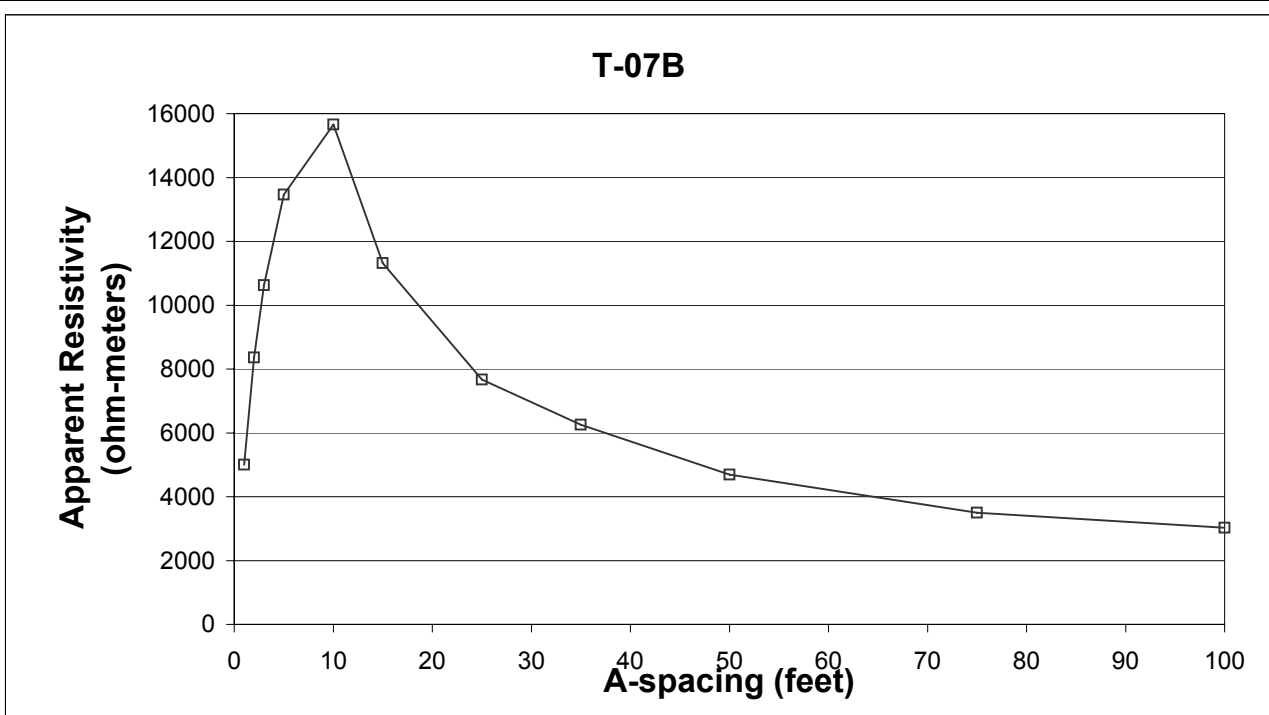
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-07B
 Orientation 90° (mag)

Date 10/28/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	2613.2	5,004.5	0.1120
2	1.00	3.00	10	2184.1	8,365.6	0.0501
3	1.50	4.50	10	1849.9	10,628.3	0.0407
5	2.50	7.50	10	1405.8	13,461.1	0.0576
10	5.00	15.00	10	817.9	15,663.0	0.0695
15	7.50	22.50	20	394.1	11,322.4	0.0397
25	12.50	37.50	10	160.2	7,668.6	0.0541
35	17.50	52.50	10	93.3	6,250.8	0.1301
50	25.00	75.00	20	49.0	4,694.1	0.0862
75	37.50	112.50	10	24.4	3,500.6	0.0813
100	50.00	150.00	20	15.8	3,024.9	0.0918

Geomean 7,159
 Min 3,025
 Max 15,663
 Median 7,669
 Std. Dev. 4,177

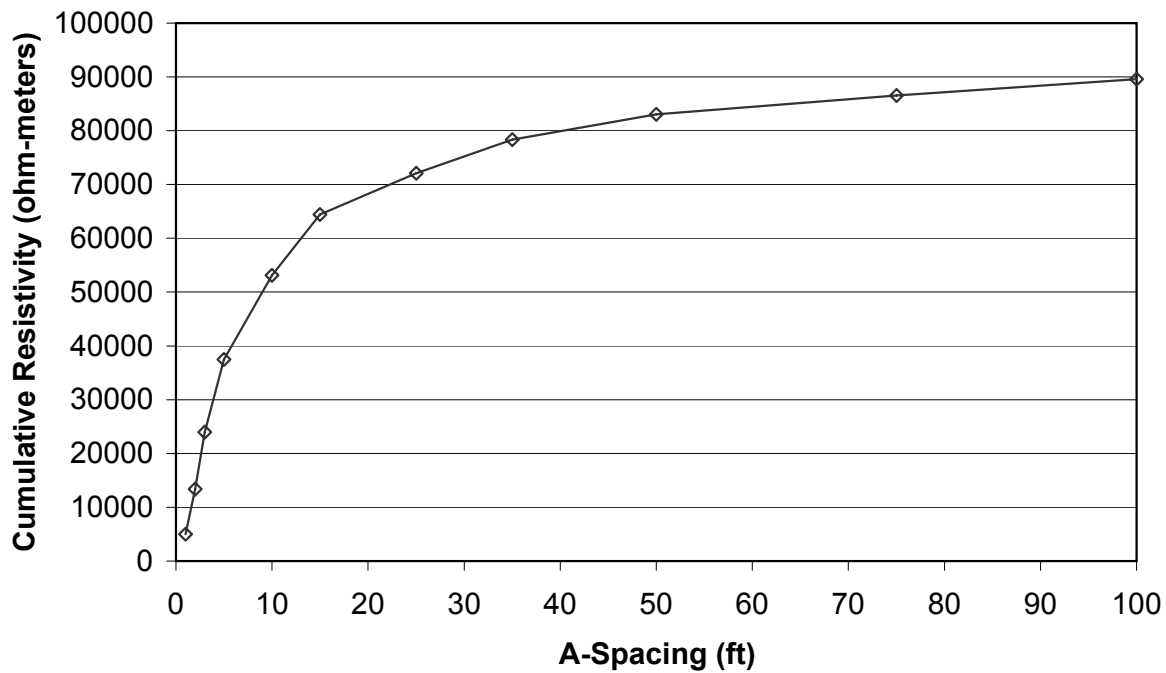


Cumulative Resistivity Sheet

T-07B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	16419.11931	5004.547567	0.11201	5005
2	1	3	10	13723.08555	8365.592952	0.050093	13370
3	1.5	4.5	10	11623.3022	10628.34753	0.040709	23998
5	2.5	7.5	10	8832.764931	13461.13376	0.057613	37460
10	5	15	10	5138.794838	15663.04667	0.069493	53123
15	7.5	22.5	20	2476.471936	11322.42969	0.039655	64445
25	12.5	37.5	10	1006.380932	7668.622704	0.0541	72114
35	17.5	52.5	10	585.9397025	6250.804746	0.130088	78365
50	25	75	20	308.0143101	4694.138086	0.086217	83059
75	37.5	112.5	10	153.1306507	3500.566675	0.081268	86559
100	50	150	20	99.24354025	3024.943107	0.091807	89584

T-07B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt07b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 28/10/2013 15:22:00

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	62	-1.5	1	1	10	26.13184	16419.11983	0.11201
2	120	-3	2	2	10	21.840969	27446.1714	0.050093
3	191	-4.5	3	3	10	18.49906	34869.90671	0.040709
4	275	-7.5	5	5	10	14.057782	44163.8246	0.057613
5	346	-15	10	10	10	8.178646	51387.94989	0.069493
6	400	-22.5	15	15	20	7.882855	37147.08009	0.039655
7	502	-37.5	25	25	10	1.601705	25159.52357	0.0541
10	855	-52.5	35	35	10	0.932552	20507.89869	0.130088
11	1024	-75	50	50	20	0.98044	15400.7177	0.086217
12	1109	-112.5	75	75	10	0.243715	11484.806	0.081268
13	1239	-150	100	100	20	0.315902	9924.349364	0.091807
8	626	-52.5	35	35	5	0.489221	21517.06175	0.098322
9	727	-52.5	35	35	5	0.481978	21198.5129	0.092461
14	1276	-150	100	100	10	0.157344	9886.205374	0.152932



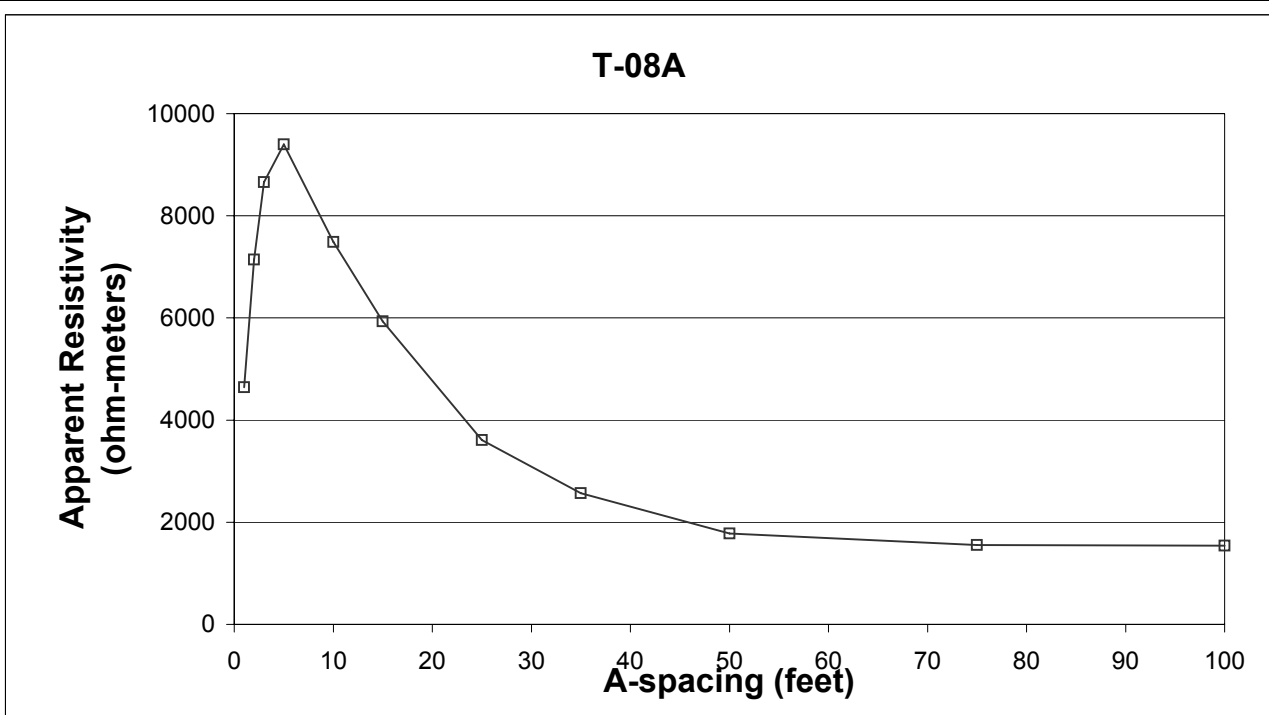
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-08A
 Orientation 290° (mag)
No outcrop, generally level

Date 10/28/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	2424.1	4,642.4	0.0328
2	1.00	3.00	10	1864.8	7,142.6	0.0716
3	1.50	4.50	10	1506.9	8,657.6	0.0622
5	2.50	7.50	10	981.2	9,395.4	0.0796
10	5.00	15.00	20	391.1	7,489.9	0.0860
15	7.50	22.50	10	206.6	5,935.3	0.0370
25	12.50	37.50	20	75.4	3,609.6	0.0310
35	17.50	52.50	20	38.4	2,570.9	0.0212
50	25.00	75.00	10	18.6	1,782.4	0.0426
75	37.50	112.50	10	10.8	1,554.0	0.0027
100	50.00	150.00	10	8.1	1,543.9	0.0183

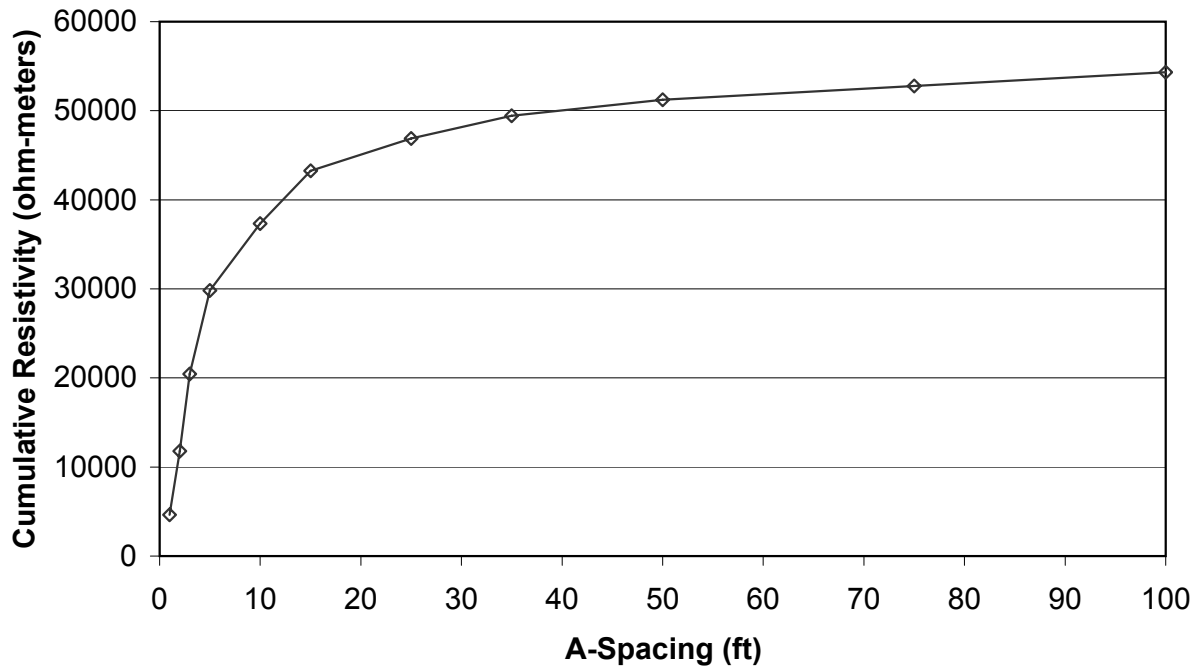
Geomean 4,046
 Min 1,544
 Max 9,395
 Median 4,642
 Std. Dev. 2,940



T-08A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	15230.9118	4642.381915	0.032825	4642
2	1	3	10	11716.92166	7142.635444	0.071623	11785
3	1.5	4.5	10	9468.028267	8657.565047	0.062234	20443
5	2.5	7.5	10	6164.950211	9395.384122	0.079648	29838
10	5	15	20	2457.311676	7489.885989	0.086049	37328
15	7.5	22.5	10	1298.183996	5935.29723	0.036975	43263
25	12.5	37.5	20	473.70442	3609.62768	0.030962	46873
35	17.5	52.5	20	240.9928291	2570.911501	0.021209	49444
50	25	75	10	116.952698	1782.359118	0.042634	51226
75	37.5	112.5	10	67.97778184	1553.972093	0.002689	52780
100	50	150	10	50.65315499	1543.908164	0.018266	54324

**T-08A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt08a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 28/10/2013 13:18:10

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	221	-1.5	1	1	10	24.240749	15230.91212	0.032825
2	274	-3	2	2	10	18.64806	23433.8437	0.071623
3	361	-4.5	3	3	10	15.068835	28404.08565	0.062234
4	415	-7.5	5	5	10	9.811823	30824.75143	0.079648
5	565	-15	10	10	20	7.821866	24573.11819	0.086049
6	750	-22.5	15	15	10	2.066124	19472.76246	0.036975
7	845	-37.5	25	25	20	1.507848	11842.60852	0.030962
8	969	-52.5	35	35	20	0.767104	8434.746041	0.021209
9	1068	-75	50	50	10	0.186136	5847.62824	0.042634
10	1180	-112.5	75	75	10	0.10819	5098.334652	0.002689
11	1307	-150	100	100	10	0.080617	5065.33459	0.018266
12	1350	-150	100	100	10	0.080638	5066.607914	0.127499



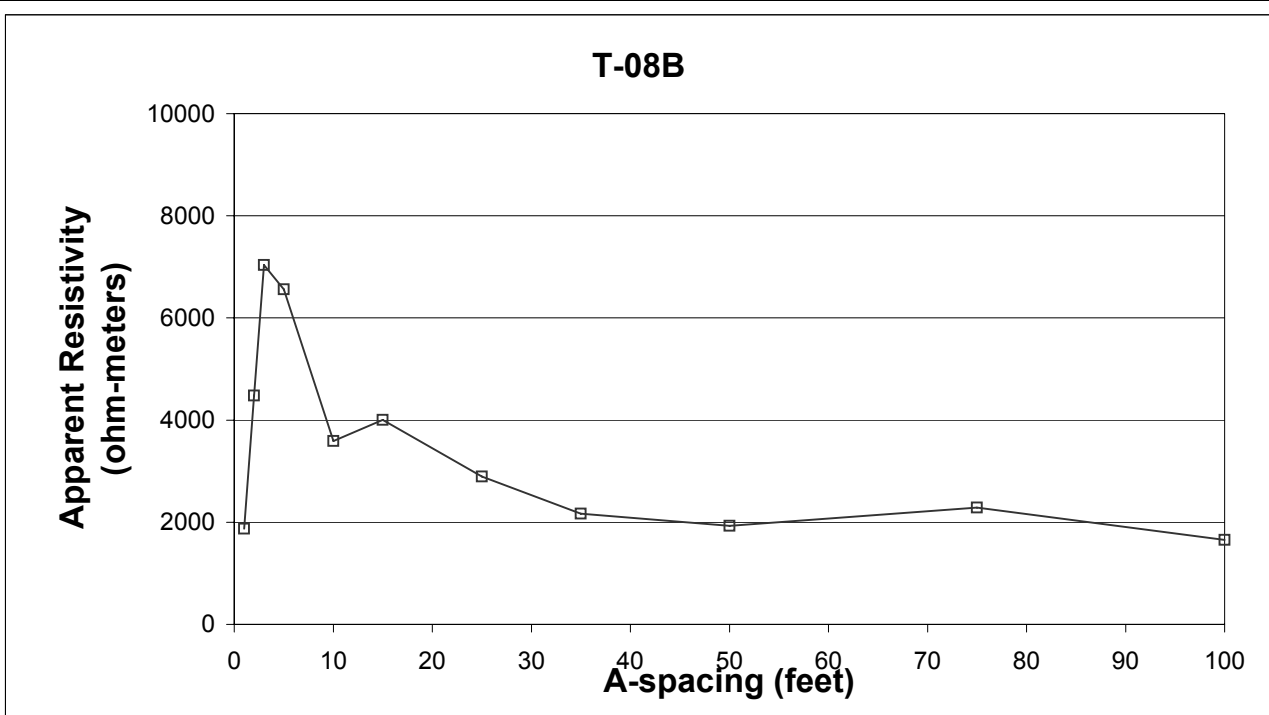
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-08B**
 Orientation **34° (mag)**

Date **10/28/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	977.5	1,872.1	0.0538
2	1.00	3.00	10	1170.2	4,482.2	0.0559
3	1.50	4.50	10	1224.9	7,037.3	0.0464
5	2.50	7.50	10	685.4	6,563.2	0.0530
10	5.00	15.00	10	187.3	3,587.6	0.0021
15	7.50	22.50	10	139.5	4,006.2	0.0195
25	12.50	37.50	10	60.4	2,892.4	0.0082
35	17.50	52.50	20	32.3	2,165.4	0.0060
50	25.00	75.00	10	20.2	1,930.9	0.0246
75	37.50	112.50	10	15.9	2,285.6	0.0813
100	50.00	150.00	10	8.6	1,655.7	0.0370

Geomean 3,101
 Min 1,656
 Max 7,037
 Median 2,892
 Std. Dev. 1,878

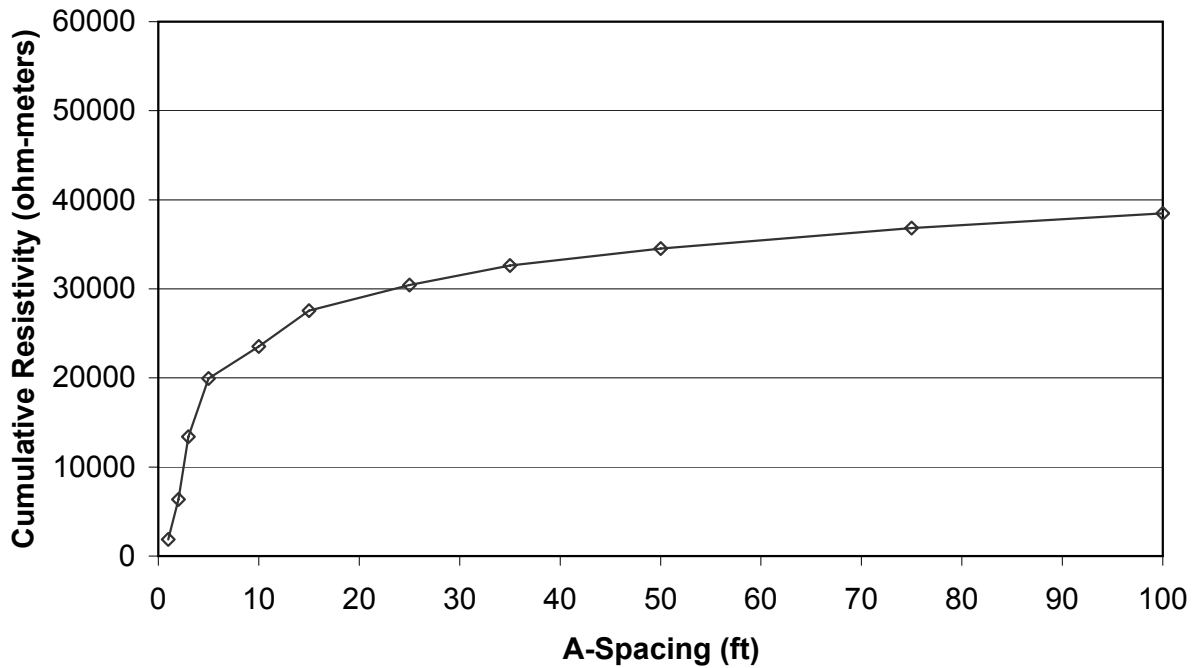


Cumulative Resistivity Sheet

T-08B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	6142.098266	1872.111551	0.053781	1872
2	1	3	10	7352.714765	4482.214921	0.055854	6354
3	1.5	4.5	10	7696.134196	7037.345109	0.046401	13392
5	2.5	7.5	10	4306.558041	6563.194455	0.053047	19955
10	5	15	10	1177.032245	3587.594283	0.002077	23542
15	7.5	22.5	10	876.2486247	4006.208712	0.019528	27549
25	12.5	37.5	10	379.5753925	2892.364491	0.008196	30441
35	17.5	52.5	20	202.9833279	2165.426142	0.006021	32606
50	25	75	10	126.6972901	1930.866702	0.024556	34537
75	37.5	112.5	10	99.9811862	2285.569917	0.081345	36823
100	50	150	10	54.31939362	1655.655117	0.037023	38479

T-08B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt08b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 28/10/2013 13:56:07

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	43	-1.5	1	1	10	9.775453	6142.097808	0.053781
2	203	-3	2	2	10	11.702209	14705.43012	0.055854
3	279	-4.5	3	3	10	12.248778	23088.40273	0.046401
4	354	-7.5	5	5	10	6.8541	21532.79128	0.053047
5	437	-15	10	10	10	1.873305	11770.32471	0.002077
6	514	-22.5	15	15	10	1.394593	13143.7327	0.019528
7	581	-37.5	25	25	10	0.604113	9489.392108	0.008196
8	672	-52.5	35	35	20	0.646116	7104.421816	0.006021
9	755	-75	50	50	10	0.201645	6334.851098	0.024556
10	881	-112.5	75	75	10	0.159125	7498.599032	0.081345
11	988	-150	100	100	10	0.086452	5431.965586	0.037023
12	1027	-150	100	100	10	0.086299	5422.336261	0.124345



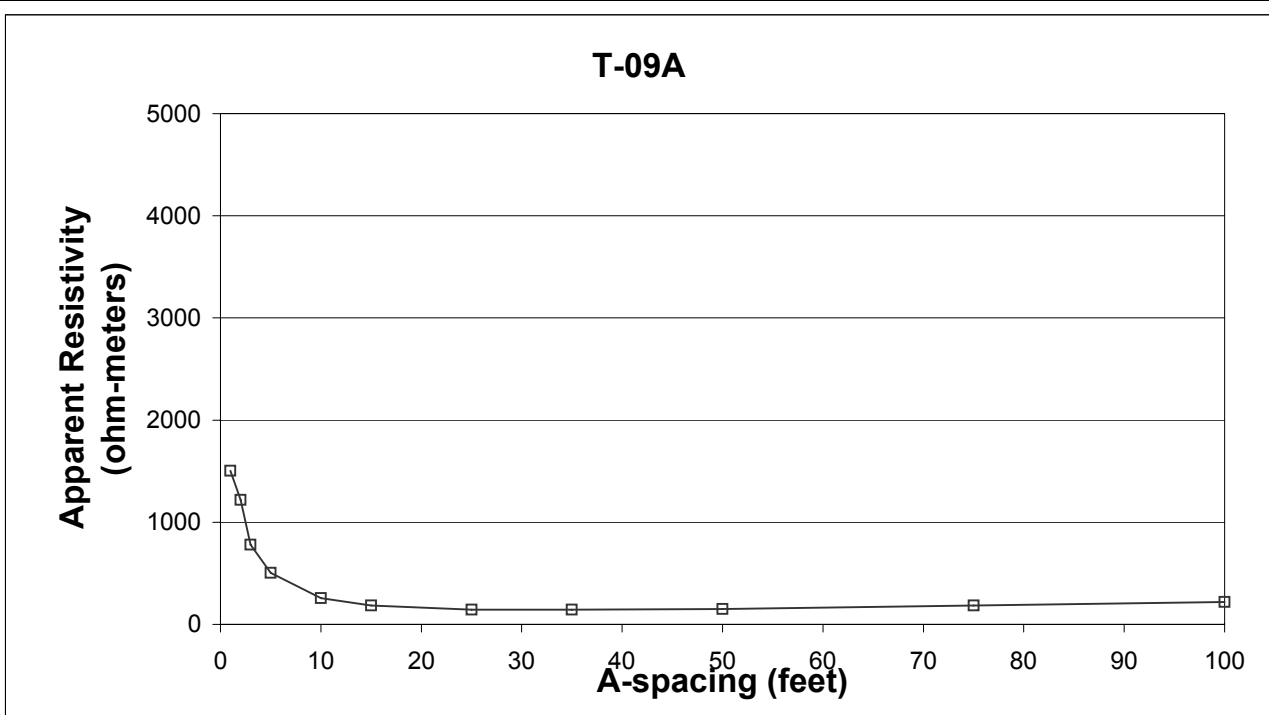
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-09A**
 Orientation **326° (mag)**
No outcrop, moist silty

Date **10/28/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	785.6	1,504.6	0.0687
2	1.00	3.00	50	318.5	1,219.8	0.0473
3	1.50	4.50	50	135.5	778.7	0.0626
5	2.50	7.50	50	52.7	504.8	0.0374
10	5.00	15.00	50	13.5	257.6	0.0184
15	7.50	22.50	50	6.4	183.7	0.0155
25	12.50	37.50	50	3.0	145.1	0.0531
35	17.50	52.50	50	2.1	143.0	0.0065
50	25.00	75.00	50	1.6	149.6	0.0124
75	37.50	112.50	50	1.3	183.5	0.0175
100	50.00	150.00	50	1.1	218.2	0.0567

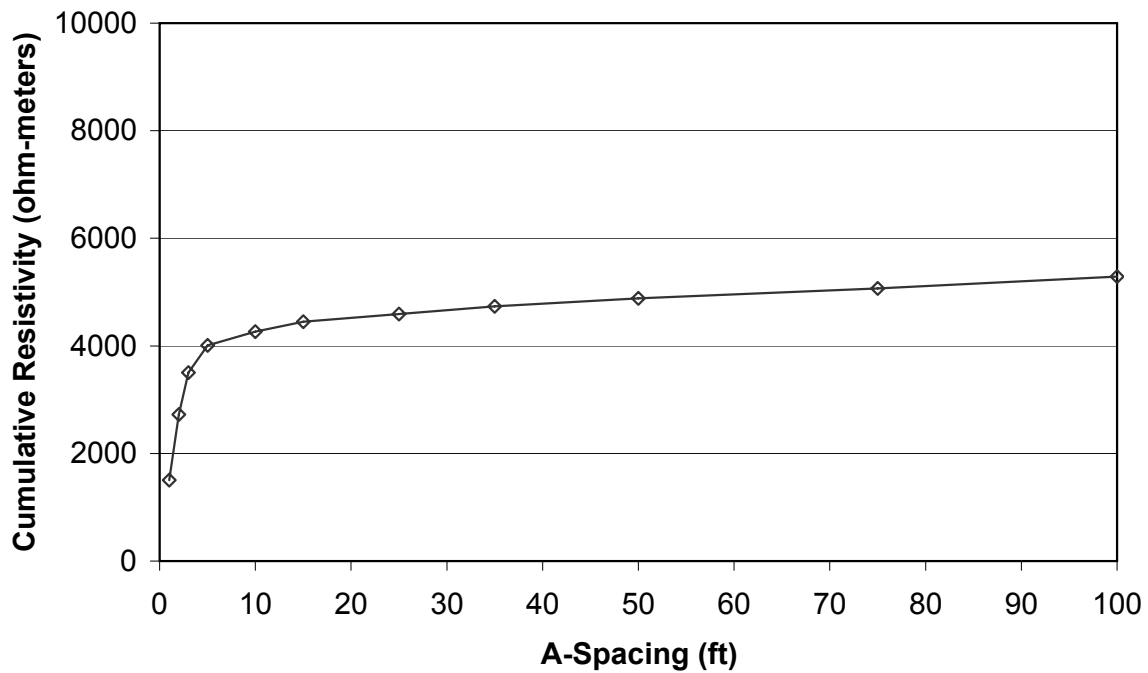
Geomean 325
 Min 143
 Max 1,505
 Median 218
 Std. Dev. 481



T-09A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	4936.303735	1504.585378	0.068726	1505
2	1	3	50	2000.962168	1219.786538	0.047294	2724
3	1.5	4.5	50	851.5951649	778.6986187	0.062577	3503
5	2.5	7.5	50	331.2266586	504.7894277	0.037437	4008
10	5	15	50	84.51839282	257.6120613	0.018405	4265
15	7.5	22.5	50	40.18448862	183.723482	0.015484	4449
25	12.5	37.5	50	19.04370635	145.1130424	0.053064	4594
35	17.5	52.5	50	13.40140594	142.9661986	0.006532	4737
50	25	75	50	9.815843414	149.5934536	0.012417	4887
75	37.5	112.5	50	8.028654186	183.5350347	0.017527	5070
100	50	150	50	7.157553375	218.1622269	0.056659	5289

**T-09A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt09a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 28/10/2013 10:53:24

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	353	-1.5	1	1	50	39.282	4936.303	0.068726
2	453	-3	2	2	50	15.923	4001.924	0.047294
3	544	-4.5	3	3	50	6.777	2554.786	0.062577
4	634	-7.5	5	5	50	2.636	1656.133	0.037437
6	837	-15	10	10	50	0.673	845.184	0.018405
7	941	-22.5	15	15	50	0.320	602.768	0.015484
8	1076	-37.5	25	25	50	0.152	476.092	0.053064
9	1211	-52.5	35	35	50	0.107	469.050	0.006532
10	1363	-75	50	50	50	0.078	490.795	0.012417
11	1558	-112.5	75	75	50	0.064	602.150	0.017527
12	1810	-150	100	100	50	0.057	715.754	0.056659
5	775	-15	10	10	50	0.059	74.361	11.03504
13	1906	-150	100	100	20	0.023	722.184	0.33294



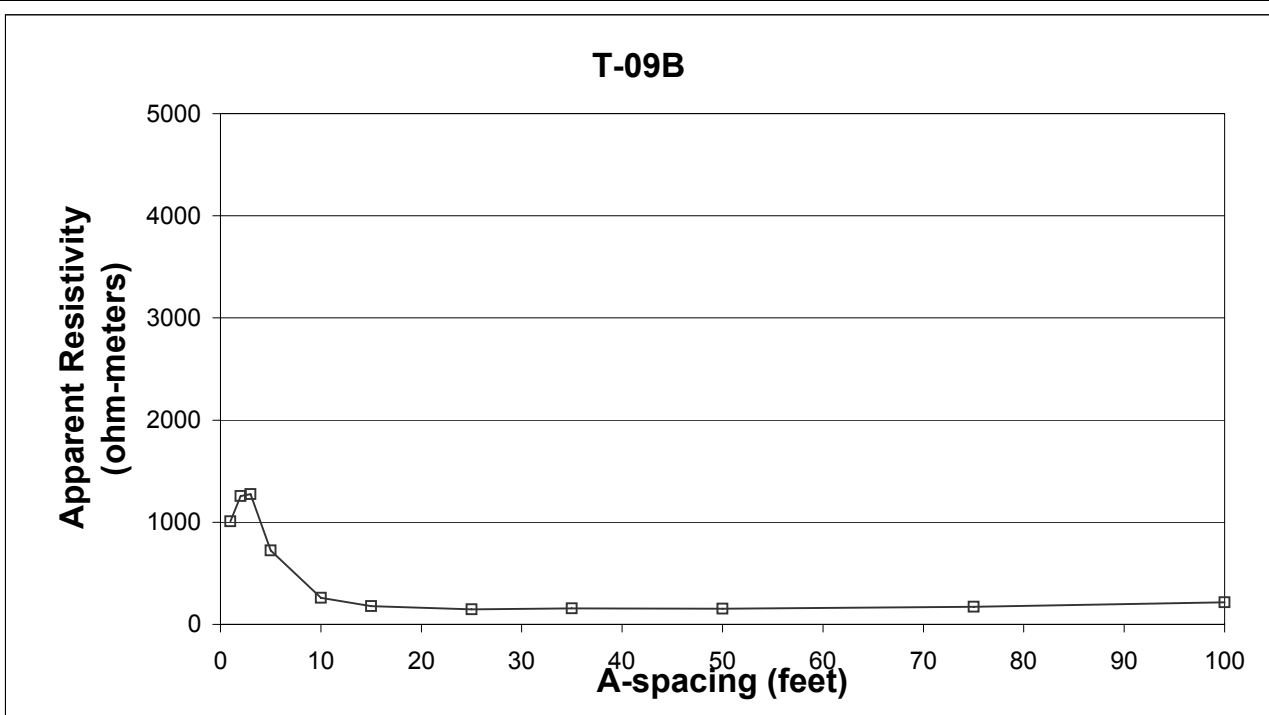
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-09B**
 Orientation **60° (mag)**

Date **10/28/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	526.5	1,008.3	0.0232
2	1.00	3.00	50	327.8	1,255.5	0.0251
3	1.50	4.50	50	221.7	1,273.9	0.0256
5	2.50	7.50	50	75.7	724.7	0.0273
10	5.00	15.00	50	13.5	259.0	0.0392
15	7.50	22.50	50	6.2	178.8	0.0057
25	12.50	37.50	50	3.1	148.7	0.0122
35	17.50	52.50	50	2.3	157.1	0.0488
50	25.00	75.00	50	1.6	154.1	0.0105
75	37.50	112.50	50	1.2	171.8	0.0993
100	50.00	150.00	50	1.1	217.4	0.0365

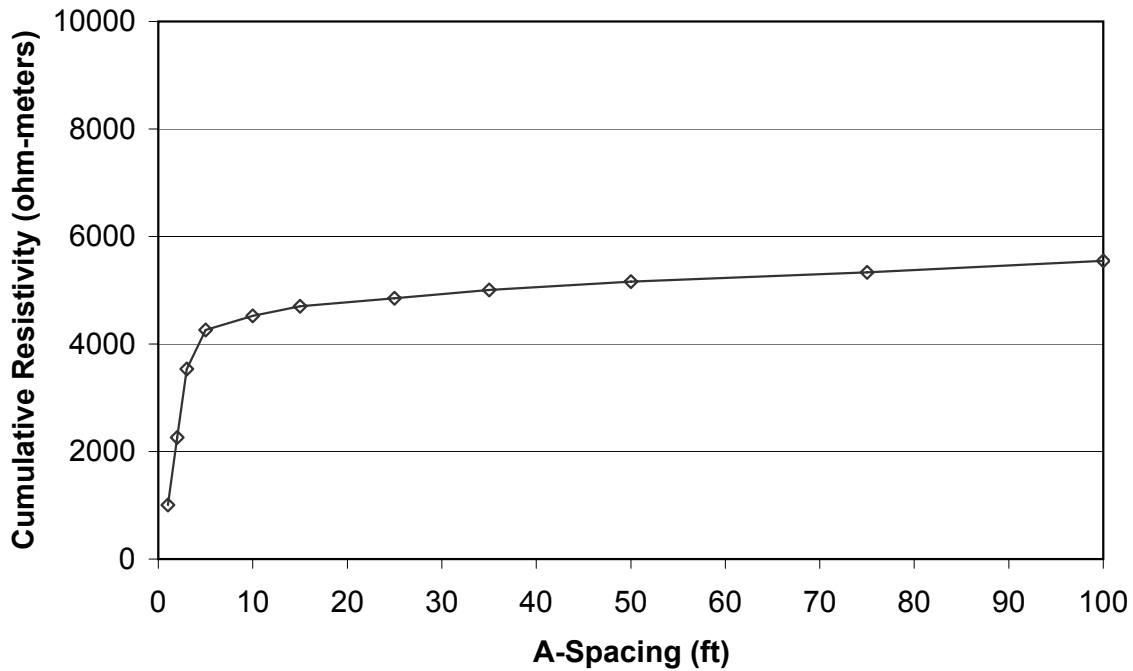
Geomean 341
 Min 149
 Max 1,274
 Median 217
 Std. Dev. 468



T-09B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	3308.229514	1008.348356	0.023208	1008
2	1	3	50	2059.595974	1255.529706	0.025141	2264
3	1.5	4.5	50	1393.122046	1273.870799	0.025634	3538
5	2.5	7.5	50	475.5240304	724.6986224	0.027292	4262
10	5	15	50	84.98674146	259.039588	0.039223	4521
15	7.5	22.5	50	39.11823208	178.8485571	0.005681	4700
25	12.5	37.5	50	19.51004436	148.666538	0.012211	4849
35	17.5	52.5	50	14.72552441	157.0918944	0.048759	5006
50	25	75	50	10.11291242	154.1207852	0.010518	5160
75	37.5	112.5	50	7.51343299	171.7570782	0.099251	5332
100	50	150	50	7.133425943	217.4268227	0.036502	5549

T-09B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt09b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 28/10/2013 11:44:52

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	410	-1.5	1	1	50	26.326054	3308.22937	0.023208
2	564	-3	2	2	50	16.389744	4119.19209	0.025141
3	699	-4.5	3	3	50	11.086113	4179.36613	0.025634
4	867	-7.5	5	5	50	3.7841	2377.620127	0.027292
5	1040	-15	10	10	50	0.676303	849.867002	0.039223
6	1237	-22.5	15	15	50	0.311293	586.772863	0.005681
7	1458	-37.5	25	25	50	0.155256	487.750389	0.012211
8	1686	-52.5	35	35	50	0.117182	515.394685	0.048759
9	1942	-75	50	50	50	0.080476	505.646132	0.010518
10	2127	-112.5	75	75	50	0.05979	563.50391	0.099251
11	2348	-150	100	100	50	0.056766	713.345033	0.036502
12	2399	-150	100	100	20	0.022839	717.514046	0.558254



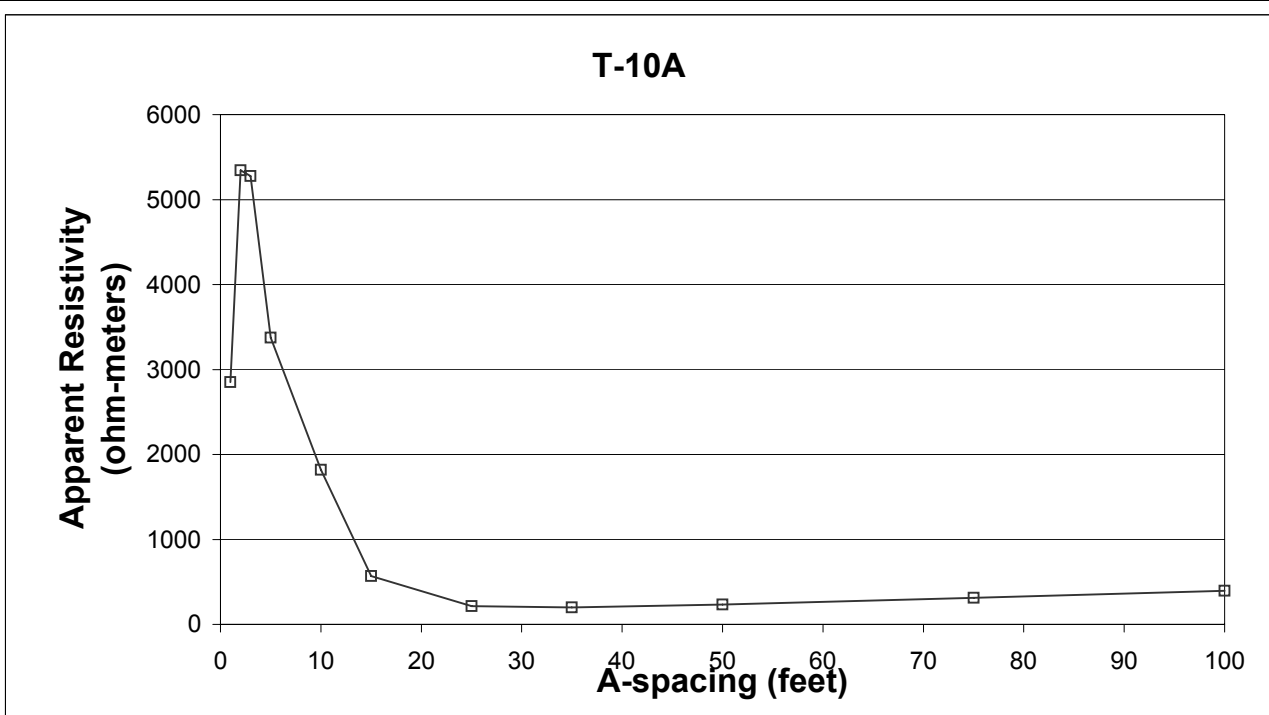
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-10A
 Orientation 320° (true)
No outcrop, silty sand

Date 10/25/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	1489.0	2,851.7	0.0372
2	1.00	3.00	10	1395.5	5,344.9	0.0285
3	1.50	4.50	10	918.7	5,278.1	0.0309
5	2.50	7.50	20	352.3	3,373.5	0.0373
10	5.00	15.00	10	95.0	1,819.4	0.0086
15	7.50	22.50	20	19.9	570.3	0.0169
25	12.50	37.50	20	4.5	215.2	0.0458
35	17.50	52.50	20	3.0	200.1	0.2050
50	25.00	75.00	20	2.5	235.0	0.1139
75	37.50	112.50	20	2.2	310.8	0.2805
100	50.00	150.00	20	2.1	397.3	0.1430

Geomean 909
 Min 200
 Max 5,345
 Median 570
 Std. Dev. 2,035

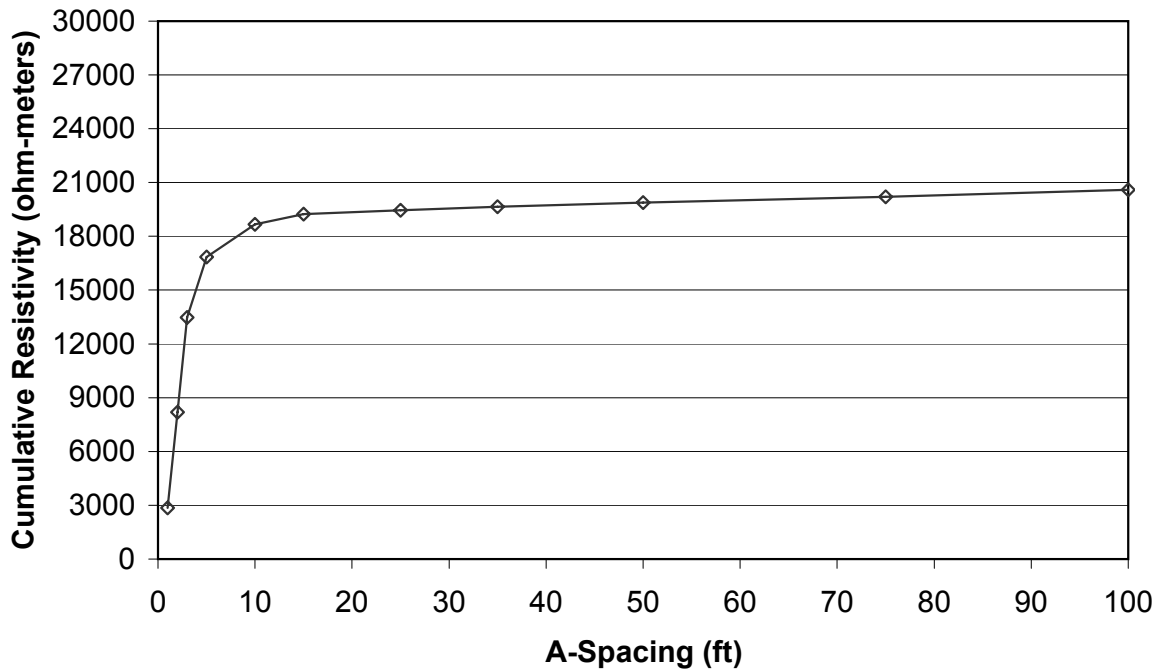


Cumulative Resistivity Sheet

T-10A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	9355.975197	2851.70124	0.037215	2852
2	1	3	10	8767.931884	5344.931276	0.02851	8197
3	1.5	4.5	10	5772.227253	5278.1246	0.030933	13475
5	2.5	7.5	20	2213.569639	3373.480131	0.037346	16848
10	5	15	10	596.908259	1819.376374	0.008563	18668
15	7.5	22.5	20	124.7271974	570.2527464	0.016926	19238
25	12.5	37.5	20	28.23663477	215.163157	0.045814	19453
35	17.5	52.5	20	18.75782142	200.1084389	0.204977	19653
50	25	75	20	15.41830843	234.9750204	0.113906	19888
75	37.5	112.5	20	13.59649885	310.8159636	0.280542	20199
100	50	150	20	13.0338396	397.271431	0.143032	20596

**T-10A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rbt10a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 25/10/2013 11:28:09

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	310	-1.5	1	1	10	14.890497	9355.975087	0.037215
2	361	-3	2	2	10	13.954597	17535.86398	0.02851
3	401	-4.5	3	3	10	9.186785	17316.68228	0.030933
5	519	-7.5	5	5	20	7.046011	11067.84875	0.037346
6	582	-15	10	10	10	0.950009	5969.082128	0.008563
7	654	-22.5	15	15	20	0.397019	1870.909601	0.016926
8	734	-37.5	25	25	20	0.08988	705.918709	0.045814
9	840	-52.5	35	35	20	0.059708	656.518341	0.204977
10	930	-75	50	50	20	0.049078	770.915452	0.113906
11	1034	-112.5	75	75	20	0.043279	1019.745936	0.280542
12	1148	-150	100	100	20	0.041488	1303.398009	0.143032
4	456	-7.5	5	5	10	3.696825	11613.91811	0.020952
13	1177	-150	100	100	10	0.020789	1306.228383	0.282475



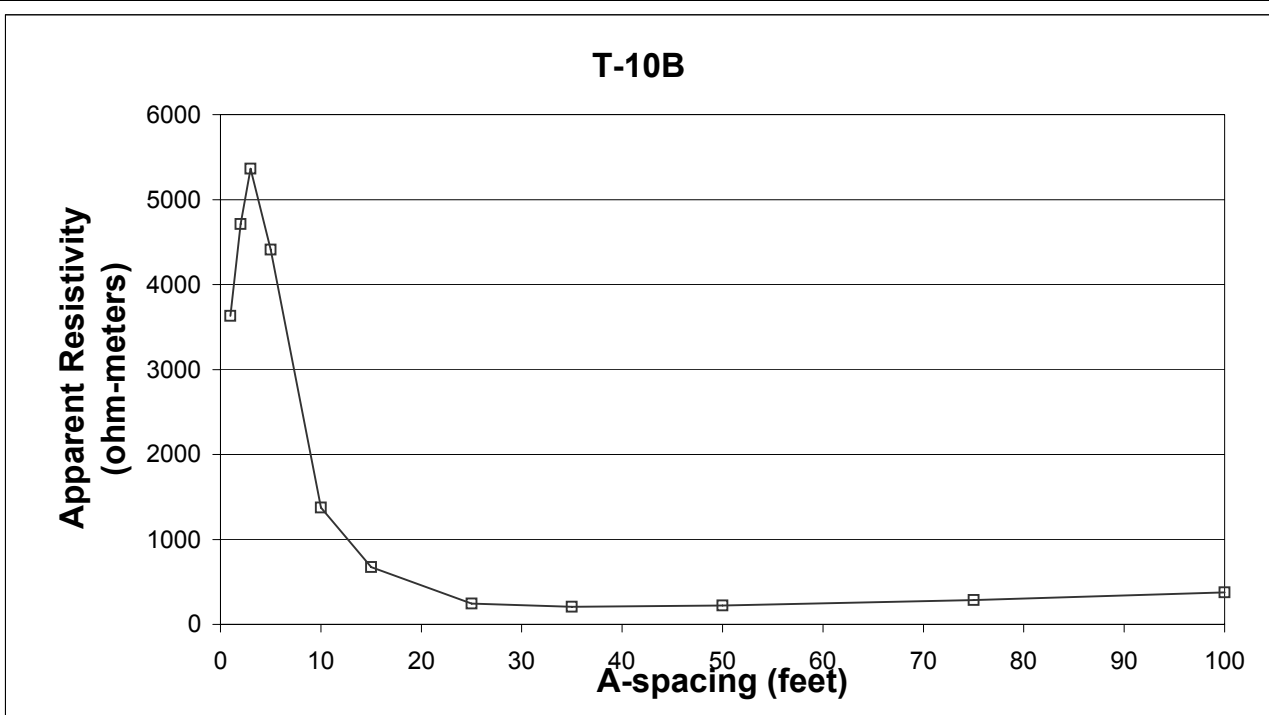
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-10B
 Orientation 44° (true)
No outcrop, silty sand

Date 10/25/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	1896.6	3,632.2	0.0142
2	1.00	3.00	10	1230.3	4,712.2	0.0254
3	1.50	4.50	20	933.7	5,364.5	0.0251
5	2.50	7.50	10	460.5	4,409.9	0.0329
10	5.00	15.00	20	71.9	1,376.3	0.0231
15	7.50	22.50	20	23.5	675.0	0.0068
25	12.50	37.50	20	5.1	246.0	0.0687
35	17.50	52.50	20	3.1	208.1	0.0567
50	25.00	75.00	20	2.3	222.9	0.0072
75	37.50	112.50	20	2.0	285.1	0.0633
100	50.00	150.00	20	2.0	375.0	0.2842

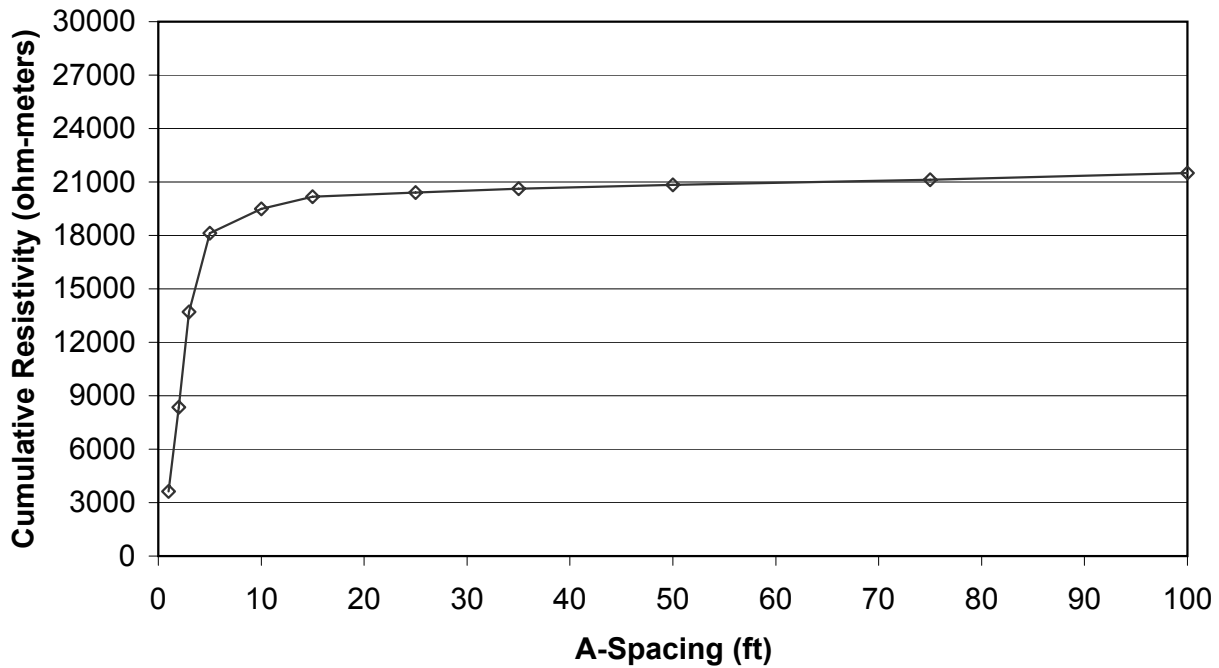
Geomean 932
 Min 208
 Max 5,364
 Median 675
 Std. Dev. 2,105



T-10B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	11916.59815	3632.179115	0.014235	3632
2	1	3	10	7729.971034	4712.190342	0.025409	8344
3	1.5	4.5	20	5866.635882	5364.451851	0.025109	13709
5	2.5	7.5	10	2893.605383	4409.854603	0.032947	18119
10	5	15	20	451.5385988	1376.289649	0.023131	19495
15	7.5	22.5	20	147.6378901	675.0004336	0.006773	20170
25	12.5	37.5	20	32.27735124	245.9534165	0.068743	20416
35	17.5	52.5	20	19.50866206	208.1184069	0.056655	20624
50	25	75	20	14.62317132	222.857131	0.007198	20847
75	37.5	112.5	20	12.47369363	285.1486364	0.063292	21132
100	50	150	20	12.30153435	374.9507671	0.284178	21507

**T-10B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rbt10b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 25/10/2013 12:03:42

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	24	-1.5	1	1	10	18.965855	11916.5986	0.014235
2	88	-3	2	2	10	12.302631	15459.94312	0.025409
3	165	-4.5	3	3	20	18.674082	17599.90768	0.025109
4	219	-7.5	5	5	10	4.605316	14468.02838	0.032947
5	319	-15	10	10	20	1.437292	4515.384621	0.023131
6	403	-22.5	15	15	20	0.469946	2214.569894	0.006773
7	488	-37.5	25	25	20	0.102742	806.936437	0.068743
8	596	-52.5	35	35	20	0.062098	682.804877	0.056655
9	701	-75	50	50	20	0.046547	731.15479	0.007198
10	800	-112.5	75	75	20	0.039705	935.518594	0.063292
11	905	-150	100	100	20	0.039157	1230.162336	0.284178
12	1024	-150	100	100	10	0.019701	1237.868117	0.0734



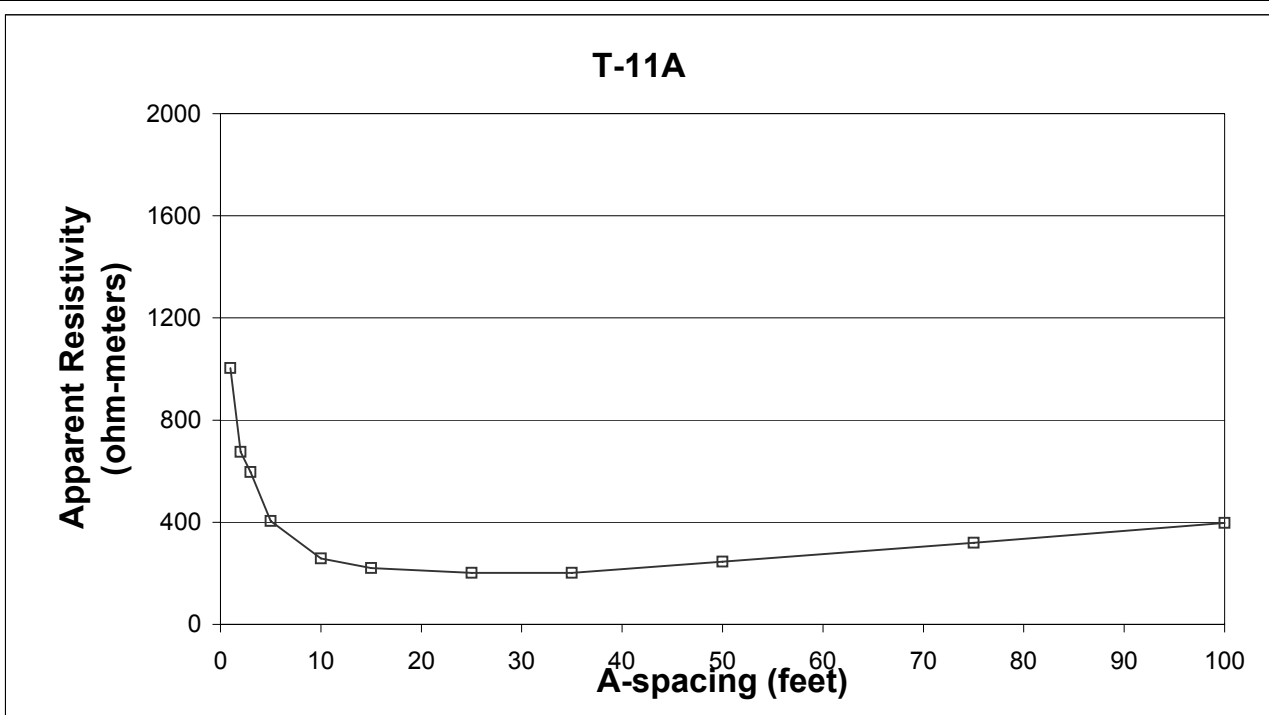
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-11A**
 Orientation **60° (mag)**
Moist- Wet gravelly silt (local ponding)

Date **10/29/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	523.8	1,003.1	0.0849
2	1.00	3.00	50	176.4	675.6	0.0322
3	1.50	4.50	20	103.8	596.5	0.0186
5	2.50	7.50	50	42.3	404.7	0.0598
10	5.00	15.00	20	13.5	258.5	0.0170
15	7.50	22.50	50	7.7	220.3	0.0120
25	12.50	37.50	50	4.2	201.7	0.0084
35	17.50	52.50	100	3.0	202.3	0.0258
50	25.00	75.00	100	2.6	245.1	0.0276
75	37.50	112.50	100	2.2	319.2	0.0127
100	50.00	150.00	100	2.1	397.8	0.0409

Geomean 357
 Min 202
 Max 1,003
 Median 319
 Std. Dev. 253

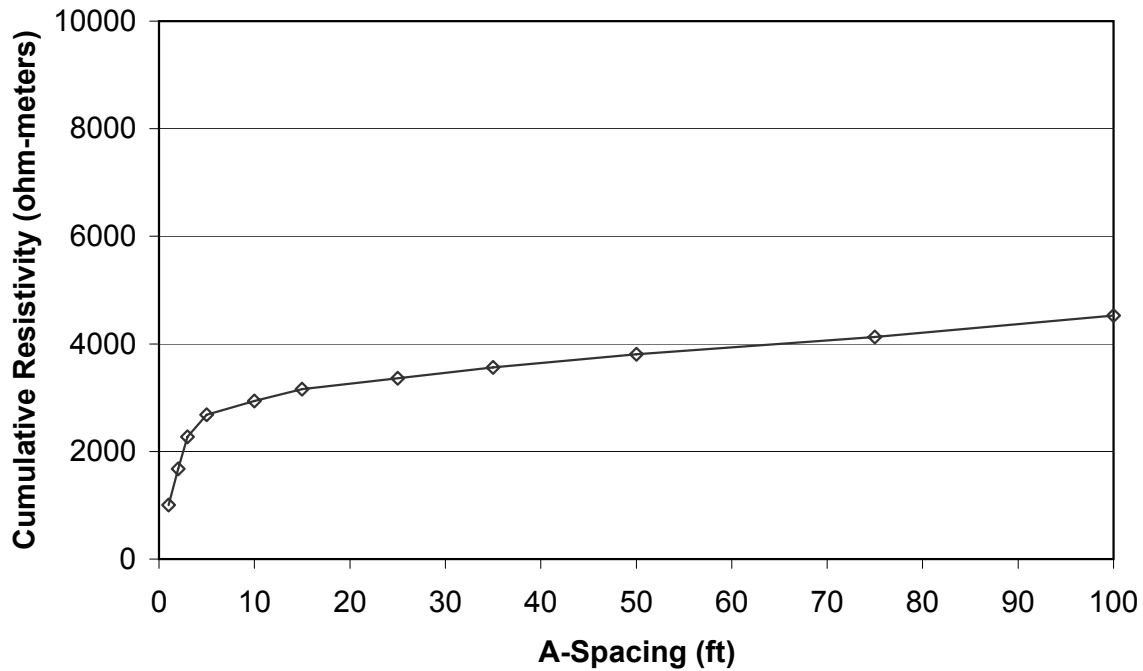


Cumulative Resistivity Sheet

T-11A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Error	Cumulative Resistivity
1	0.5	1.5	10	3291.16388	1003.146751	0.084875	1003
2	1	3	50	1108.210003	675.564818	0.032224	1679
3	1.5	4.5	20	652.3865862	596.5422944	0.018565	2275
5	2.5	7.5	50	265.5574447	404.7095457	0.05975	2680
10	5	15	20	84.81891758	258.5280608	0.01703	2938
15	7.5	22.5	50	48.1736844	220.2500851	0.011994	3159
25	12.5	37.5	50	26.47043138	201.7046871	0.008395	3360
35	17.5	52.5	100	18.96434972	202.3116828	0.02578	3563
50	25	75	100	16.07961368	245.0533125	0.027641	3808
75	37.5	112.5	100	13.96230589	319.1783127	0.012733	4127
100	50	150	100	13.05092987	397.7923423	0.040866	4525

T-11A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt11a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 29/10/2013 07:37:04

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	434	-1.5	1	1	10	5.23805	3291.163834	0.084875
3	493	-3	2	2	50	8.818855	2216.420078	0.032224
4	557	-4.5	3	3	20	2.076611	1957.159349	0.018565
5	620	-7.5	5	5	50	2.113239	1327.787405	0.05975
6	687	-15	10	10	20	0.269987	848.190349	0.01703
7	756	-22.5	15	15	50	0.383354	722.605843	0.011994
8	839	-37.5	25	25	50	0.210645	661.762083	0.008395
9	918	-52.5	35	35	100	0.301827	663.75151	0.02578
10	1006	-75	50	50	100	0.255915	803.979629	0.027641
12	1140	-112.5	75	75	100	0.222217	1047.173895	0.012733
13	1248	-150	100	100	100	0.207712	1305.091979	0.040866
1	273	0	0	0	10	6.541182	inf	0.354107
11	1108	-112.5	75	75	100	0.171116	806.364228	1.906058
14	1295	-150	100	100	50	0.103129	1295.953558	0.032661



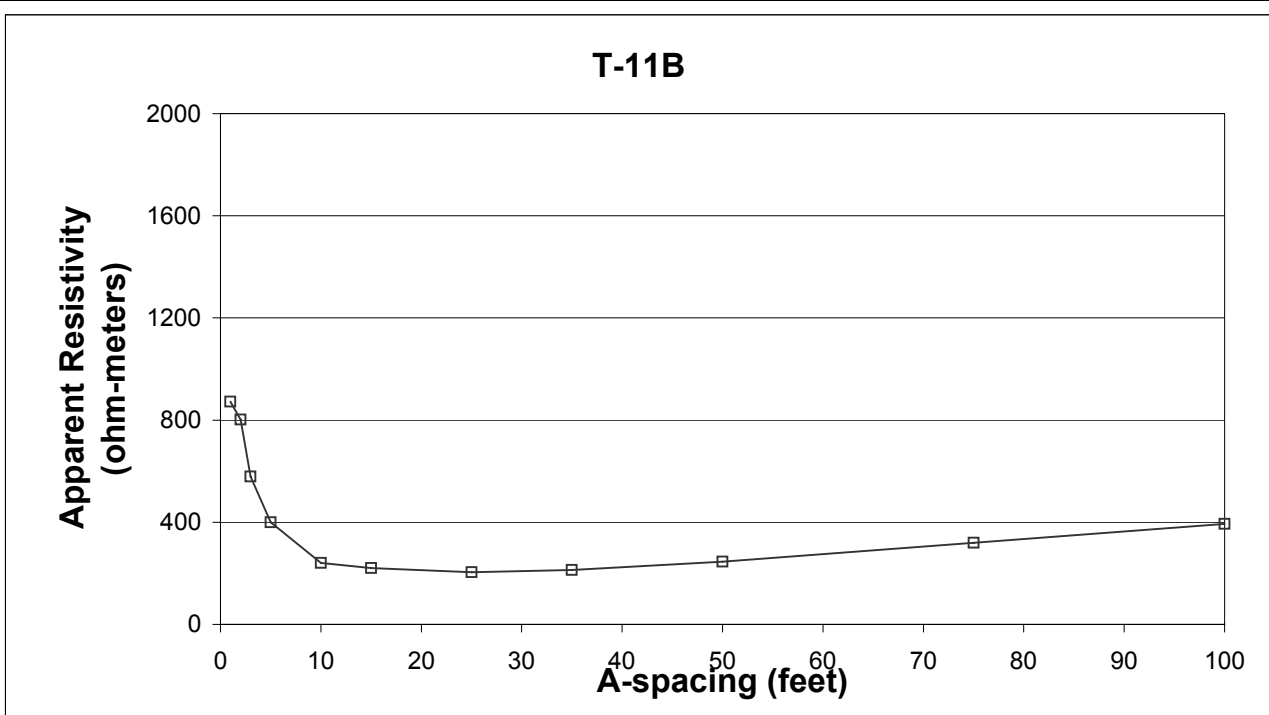
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-11B**
 Orientation **330° (mag)**
Moist- Wet gravelly silt (local ponding)

Date **10/29/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	455.4	872.1	0.0268
2	1.00	3.00	50	209.5	802.5	0.0054
3	1.50	4.50	20	100.8	579.0	0.0186
5	2.50	7.50	20	41.7	399.5	0.0102
10	5.00	15.00	50	12.6	240.8	0.0045
15	7.50	22.50	100	7.7	220.5	0.0249
25	12.50	37.50	100	4.3	204.8	0.0157
35	17.50	52.50	100	3.2	213.3	0.0056
50	25.00	75.00	100	2.6	245.8	0.0014
75	37.50	112.50	50	2.2	320.0	0.0476
100	50.00	150.00	100	2.1	393.8	0.0034

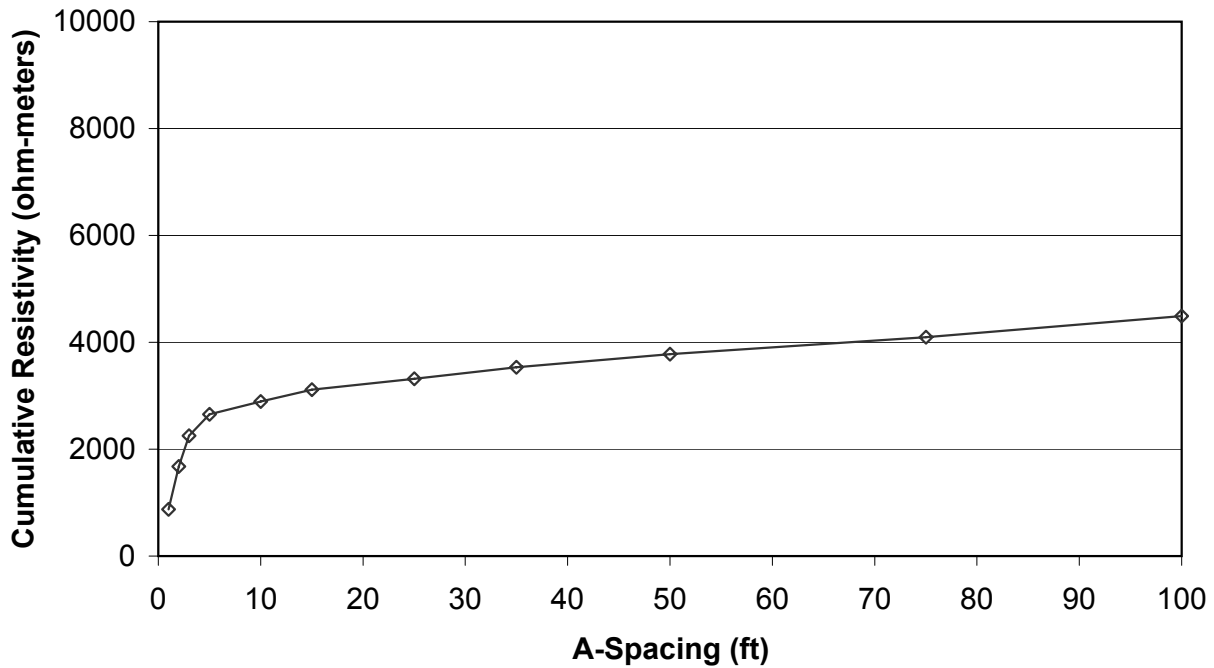
Geomean 356
 Min 205
 Max 872
 Median 320
 Std. Dev. 240



T-11B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2861.37993	872.1486028	0.026833	872
2	1	3	50	1316.458766	802.5132638	0.005425	1675
3	1.5	4.5	20	633.215017	579.0118116	0.0186	2254
5	2.5	7.5	20	262.1121857	399.458971	0.010174	2653
10	5	15	50	79.00829064	240.8172699	0.0045	2894
15	7.5	22.5	100	48.23783573	220.5433849	0.024877	3114
25	12.5	37.5	100	26.88141453	204.8363787	0.015707	3319
35	17.5	52.5	100	19.99875051	213.3466705	0.005556	3533
50	25	75	100	16.12906235	245.8069102	0.001378	3778
75	37.5	112.5	50	13.99629793	319.9553706	0.047633	4098
100	50	150	100	12.92017678	393.8069882	0.00344	4492

T-11B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt11b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 29/10/2013 08:08:38

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	209	-1.5	1	1	50	22.770138	2861.38	0.026833
2	303	-3	2	2	50	10.476046	2632.91753	0.005425
3	352	-4.5	3	3	20	2.015586	1899.644705	0.0186
4	431	-7.5	5	5	20	0.834329	1310.560321	0.010174
6	564	-15	10	10	50	0.628728	790.082318	0.0045
7	686	-22.5	15	15	100	0.767729	723.567532	0.024877
8	808	-37.5	25	25	100	0.427831	672.034961	0.015707
10	985	-52.5	35	35	100	0.31829	699.956782	0.005556
11	1095	-75	50	50	100	0.256702	806.454521	0.001378
12	1227	-112.5	75	75	50	0.111379	1049.719569	0.047633
13	1366	-150	100	100	100	0.205631	1292.018089	0.00344
5	501	-15	10	10	50	0.145519	182.864352	0.957619
9	912	-52.5	35	35	100	0.112732	247.909972	0.112946
14	1430	-150	100	100	50	0.101829	1279.626999	0.034983



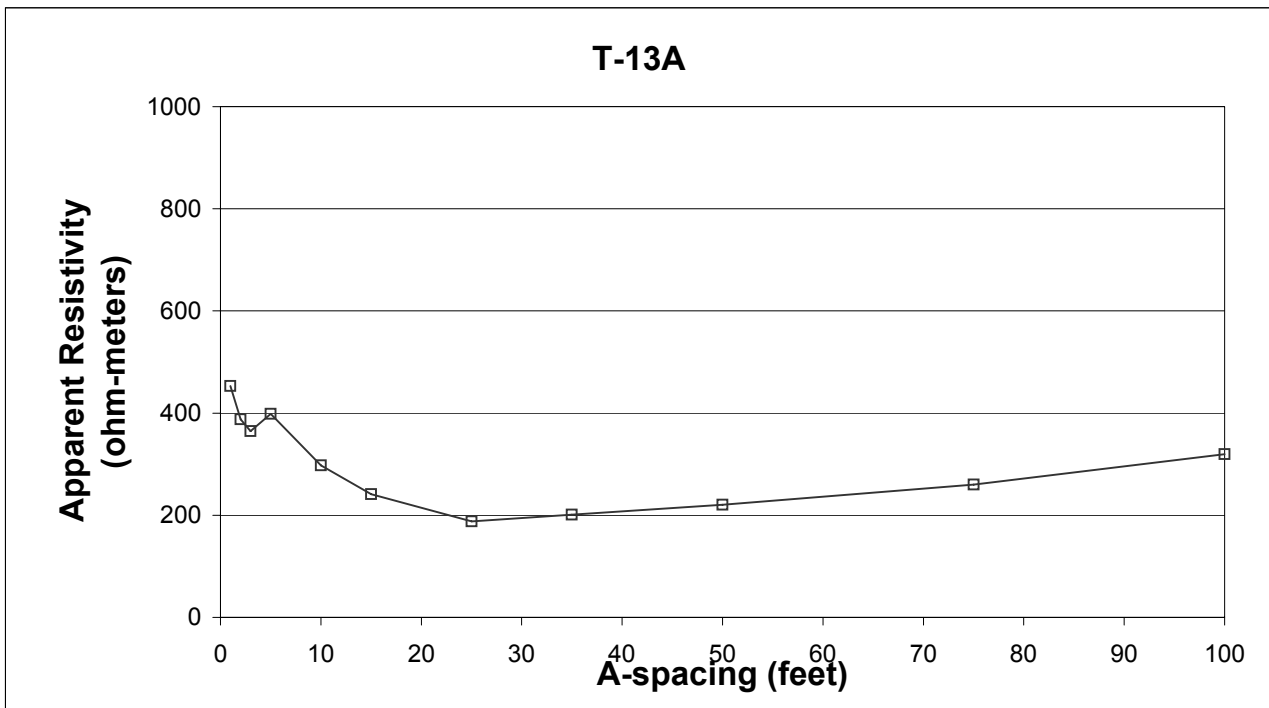
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-13A
 Orientation 287° (mag)
Saturated soils

Date 10/29/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	236.6	453.2	0.0324
2	1.00	3.00	50	101.3	387.9	0.0395
3	1.50	4.50	50	63.5	364.9	0.0111
5	2.50	7.50	50	41.6	398.4	0.0309
10	5.00	15.00	100	15.6	297.9	0.0150
15	7.50	22.50	100	8.4	241.0	0.0215
25	12.50	37.50	100	3.9	188.2	0.0135
35	17.50	52.50	100	3.0	201.1	0.0153
50	25.00	75.00	100	2.3	220.6	0.0184
75	37.50	112.50	50	1.8	260.3	0.0240
100	50.00	150.00	100	1.7	319.7	0.0551

Geomean 291
 Min 188
 Max 453
 Median 298
 Std. Dev. 89

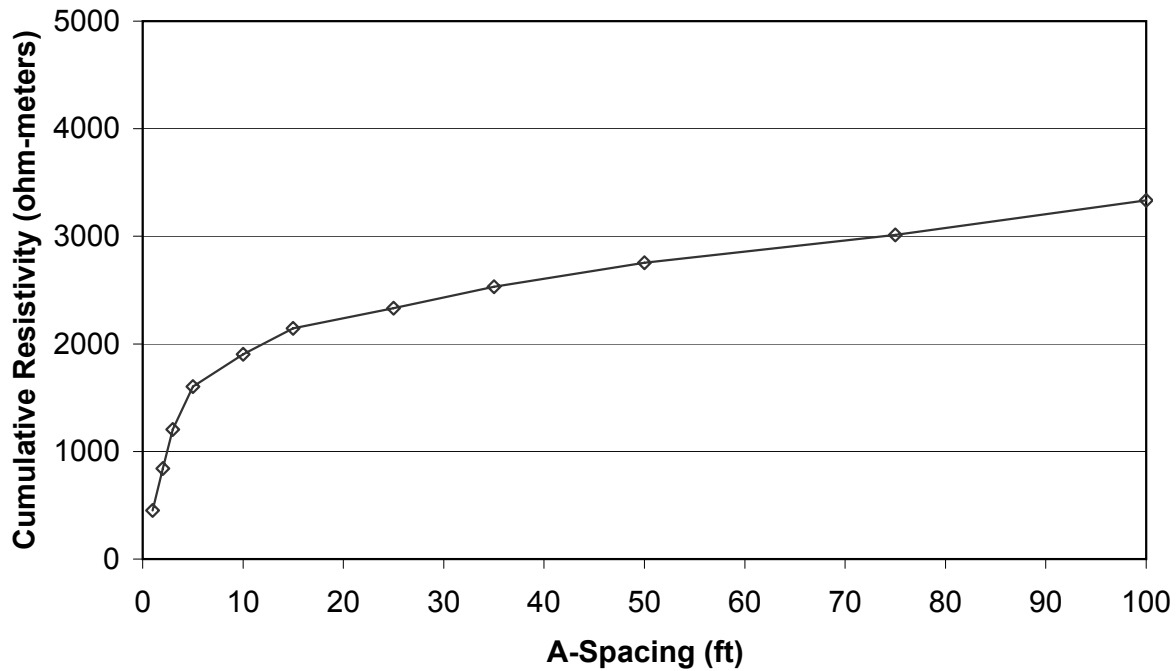


Cumulative Resistivity Sheet

T-13A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	1486.767017	453.1665868	0.032426	453
2	1	3	50	636.3507035	387.9193888	0.039532	841
3	1.5	4.5	50	399.0633201	364.9034999	0.011137	1206
5	2.5	7.5	50	261.4326592	398.4233726	0.030941	1604
10	5	15	100	97.73620409	297.8999501	0.015007	1902
15	7.5	22.5	100	52.71799818	241.0266877	0.021498	2143
25	12.5	37.5	100	24.70158905	188.2261086	0.013495	2332
35	17.5	52.5	100	18.85005858	201.0924249	0.015326	2533
50	25	75	100	14.4730032	220.5685687	0.018425	2753
75	37.5	112.5	50	11.3867654	260.3014572	0.024035	3014
100	50	150	100	10.4886469	319.6939574	0.055087	3333

T-13A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt13a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 29/10/2013 10:02:25

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	140	-1.5	1	1	50	11.831316	1486.767064	0.032426
2	206	-3	2	2	50	5.063918	1272.701388	0.039532
3	263	-4.5	3	3	50	3.175645	1197.189769	0.011137
4	324	-7.5	5	5	50	2.080415	1307.163033	0.030941
5	388	-15	10	10	100	1.55552	977.362257	0.015007
7	558	-22.5	15	15	100	0.839033	790.769823	0.021498
8	652	-37.5	25	25	100	0.393138	617.539619	0.013495
12	965	-52.5	35	35	100	0.300008	659.753123	0.015326
14	1254	-75	50	50	100	0.230345	723.650793	0.018425
15	1393	-112.5	75	75	50	0.090613	854.010566	0.024035
16	1565	-150	100	100	100	0.166932	1048.863109	0.055087
6	446	-22.5	15	15	100	0.253321	238.749601	0.671567
9	766	-52.5	35	35	2	0.005059	556.306949	3.941629
10	823	-52.5	35	35	2	0.00487	535.479474	1.092046
11	908	-52.5	35	35	1	0.002249	494.688483	0.388057
13	1219	-75	50	50	100	0.010879	34.175899	75.912
17	1601	-150	100	100	50	0.08315	1044.898128	0.033934



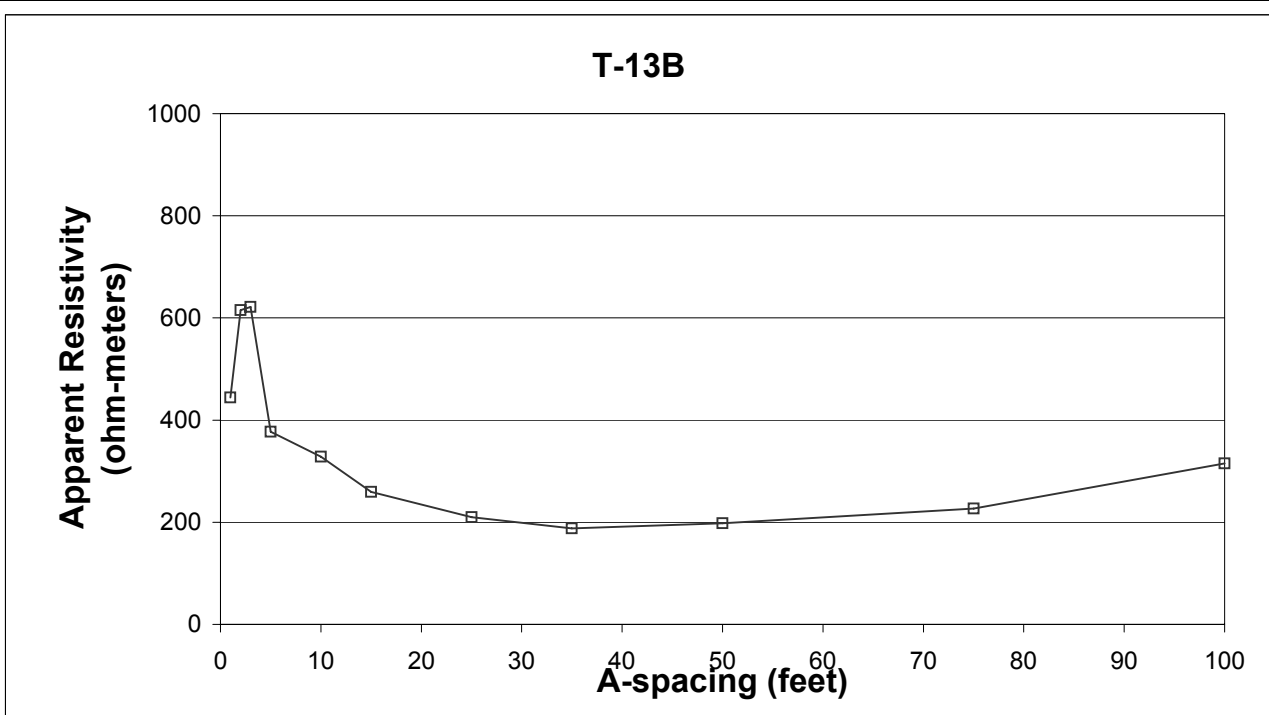
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-13B
 Orientation 28° (mag)
Saturated Soils

Date 10/29/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

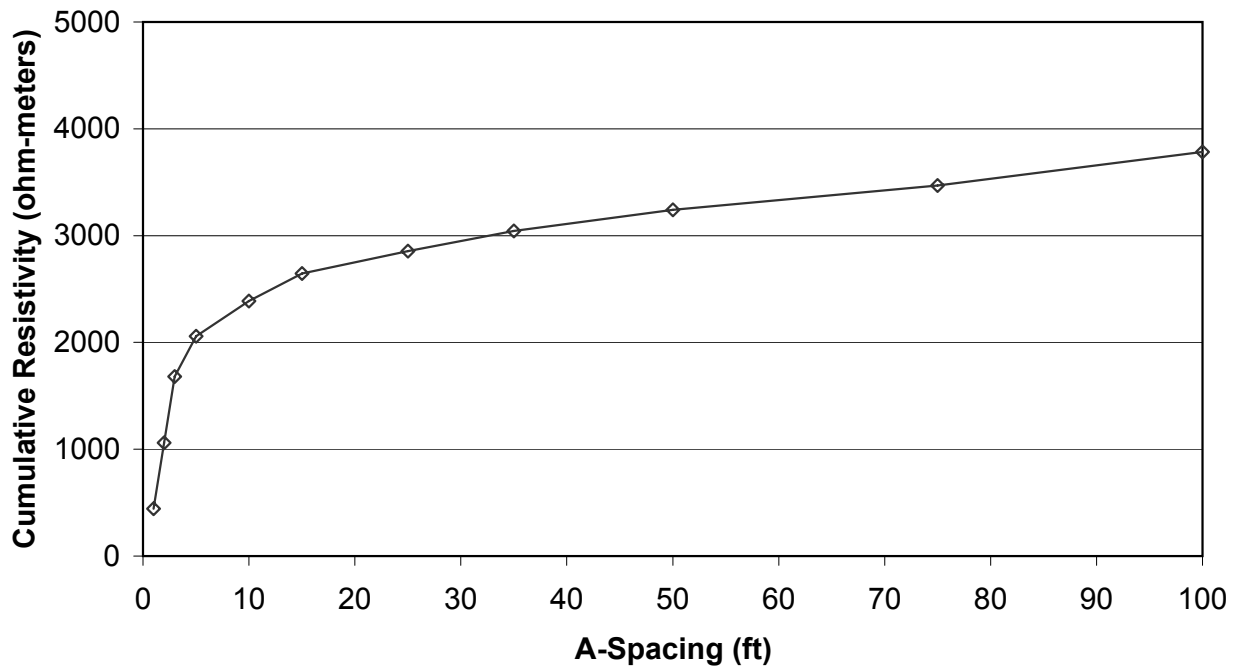
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	232.0	444.4	0.0686
2	1.00	3.00	50	160.6	615.2	0.0389
3	1.50	4.50	50	108.2	621.5	0.0645
5	2.50	7.50	50	39.4	377.2	0.0181
10	5.00	15.00	50	17.2	328.6	0.0198
15	7.50	22.50	50	9.0	259.5	0.0047
25	12.50	37.50	50	4.4	209.8	0.0113
35	17.50	52.50	100	2.8	188.3	0.0214
50	25.00	75.00	50	2.1	198.1	0.0197
75	37.50	112.50	20	1.6	226.9	0.1111
100	50.00	150.00	100	1.6	315.4	0.0301

Geomean 315
 Min 188
 Max 621
 Median 315
 Std. Dev. 157



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	1457.967786	444.3885812	0.068582	444
2	1	3	50	1009.199067	615.2077509	0.038924	1060
3	1.5	4.5	50	679.6477564	621.4699085	0.064479	1681
5	2.5	7.5	50	247.5123878	377.2088791	0.018136	2058
10	5	15	50	107.8159413	328.622989	0.019787	2387
15	7.5	22.5	50	56.76883058	259.5470934	0.004697	2646
25	12.5	37.5	50	27.53027908	209.7807266	0.011301	2856
35	17.5	52.5	100	17.64638877	188.2516754	0.021409	3044
50	25	75	50	12.9971458	198.076502	0.019693	3243
75	37.5	112.5	20	9.926176148	226.9123867	0.111071	3469
100	50	150	100	10.34689824	315.3734582	0.030069	3785

**T-13B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt13b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 29/10/2013 10:30:48

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	617	-1.5	1	1	50	11.602139	1457.967726	0.068582
2	684	-3	2	2	50	8.030951	2018.398307	0.038924
3	765	-4.5	3	3	50	5.408465	2038.943343	0.064479
4	861	-7.5	5	5	50	1.969641	1237.56201	0.018136
5	966	-15	10	10	50	0.857972	1078.159955	0.019787
6	1052	-22.5	15	15	50	0.451752	851.532629	0.004697
7	1173	-37.5	25	25	50	0.219079	688.255534	0.011301
8	1284	-52.5	35	35	100	0.280851	617.62446	0.021409
9	1447	-75	50	50	50	0.103428	649.854482	0.019693
10	1699	-112.5	75	75	20	0.031596	744.456643	0.111071
11	1875	-150	100	100	100	0.164676	1034.689216	0.030069
12	1966	-150	100	100	50	0.082255	1033.652131	0.051598



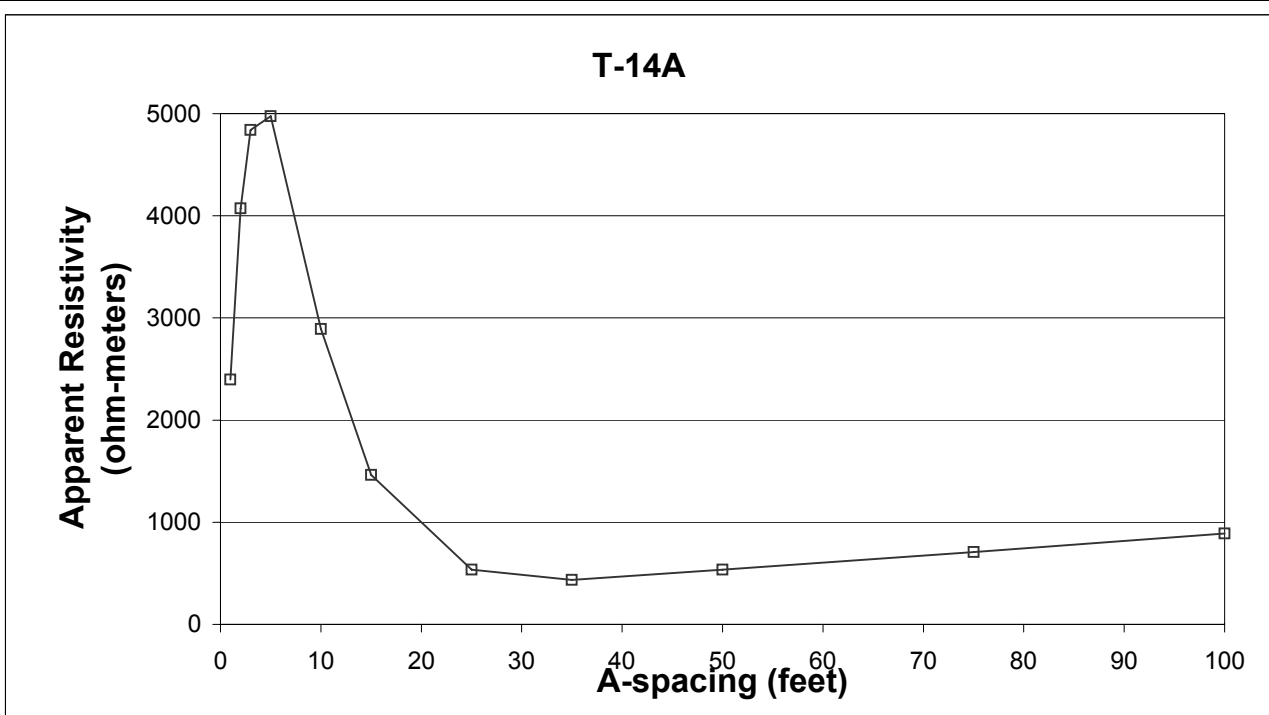
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-14A
 Orientation 52° (mag)
No Outcrop, moist soils

Date 10/29/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1250.6	2,395.1	0.0261
2	1.00	3.00	20	1063.2	4,072.4	0.0568
3	1.50	4.50	20	842.3	4,839.6	0.0211
5	2.50	7.50	20	519.6	4,975.5	0.0260
10	5.00	15.00	20	151.0	2,892.6	0.0225
15	7.50	22.50	20	50.9	1,461.8	0.0170
25	12.50	37.50	20	11.2	535.2	0.0063
35	17.50	52.50	20	6.5	434.5	0.0035
50	25.00	75.00	20	5.6	534.2	0.0195
75	37.50	112.50	20	4.9	709.2	0.0790
100	50.00	150.00	20	4.7	890.7	0.0103

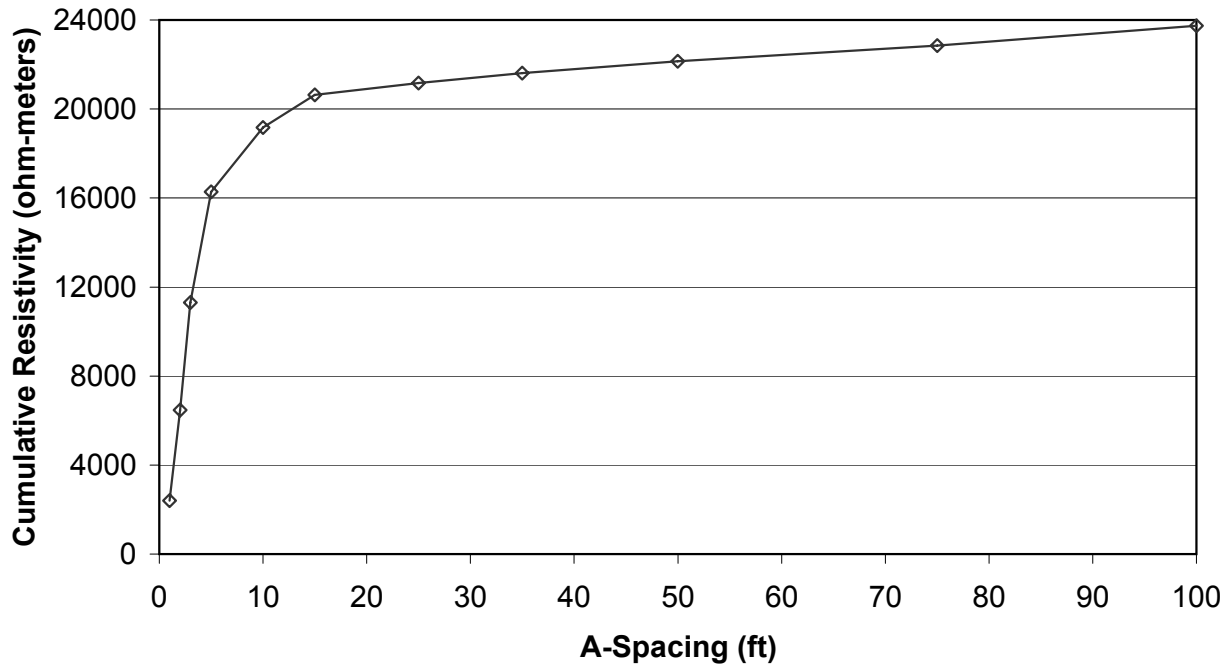
Geomean 1,486
 Min 434
 Max 4,976
 Median 1,462
 Std. Dev. 1,784



T-14A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7857.869983	2395.078771	0.026131	2395
2	1	3	20	6680.489964	4072.426682	0.056797	6468
3	1.5	4.5	20	5292.607528	4839.560324	0.021085	11307
5	2.5	7.5	20	3264.790524	4975.540758	0.025978	16283
10	5	15	20	949.0317867	2892.648886	0.022479	19175
15	7.5	22.5	20	319.736849	1461.836873	0.017028	20637
25	12.5	37.5	20	70.24067103	535.2339132	0.006328	21172
35	17.5	52.5	20	40.72477973	434.4519501	0.003537	21607
50	25	75	20	35.05169171	534.1877817	0.01952	22141
75	37.5	112.5	20	31.02416993	709.2125246	0.07902	22850
100	50	150	20	29.22215239	890.6912047	0.010333	23741

**T-14A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt14a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 29/10/2013 12:22:48

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	195	-1.5	1	1	20	25.012377	7857.870275	0.026131
2	298	-3	2	2	20	21.26466	13360.98033	0.056797
3	411	-4.5	3	3	20	16.846893	15877.82173	0.021085
4	529	-7.5	5	5	20	10.392151	16323.95243	0.025978
6	689	-15	10	10	20	3.020862	9490.319207	0.022479
8	1068	-22.5	15	15	20	1.017754	4796.052652	0.017028
7	932	-37.5	25	25	20	0.223583	1756.01447	0.006328
9	1191	-52.5	35	35	20	0.129631	1425.371637	0.003537
10	1303	-75	50	50	20	0.111573	1752.591476	0.01952
11	1435	-112.5	75	75	20	0.098753	2326.803853	0.07902
12	1612	-150	100	100	20	0.093017	2922.20404	0.010333
5	644	-15	10	10	20	0.206654	649.222494	8.303782
13	1666	-150	100	100	10	0.046863	2944.504285	0.169714



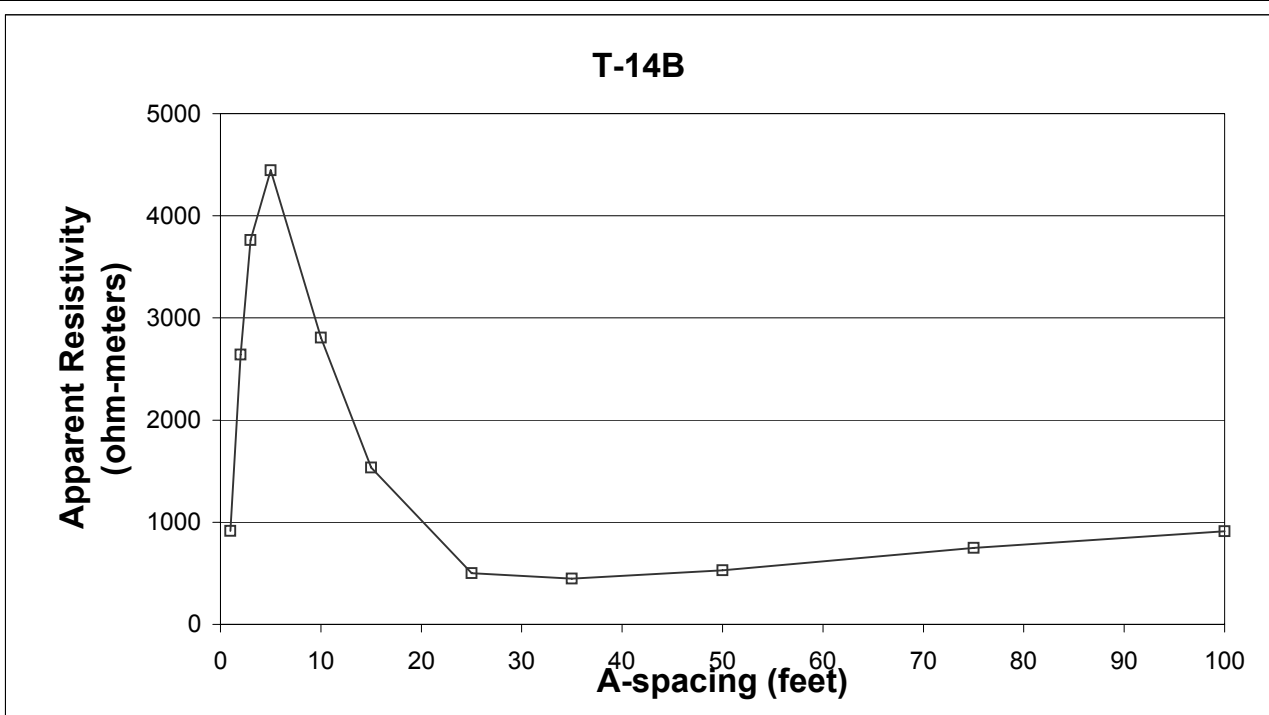
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-14B
 Orientation 354° (mag)
No Outcrop, moist soils

Date 10/29/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	477.0	913.6	0.0134
2	1.00	3.00	20	689.2	2,639.8	0.1041
3	1.50	4.50	10	654.7	3,761.5	0.0528
5	2.50	7.50	20	464.1	4,444.1	0.0276
10	5.00	15.00	20	146.5	2,806.4	0.0148
15	7.50	22.50	20	53.5	1,536.3	0.0132
25	12.50	37.50	20	10.4	499.9	0.0119
35	17.50	52.50	20	6.7	448.0	0.0391
50	25.00	75.00	20	5.5	530.9	0.0518
75	37.50	112.50	20	5.2	748.0	0.0108
100	50.00	150.00	20	4.8	910.1	0.0620

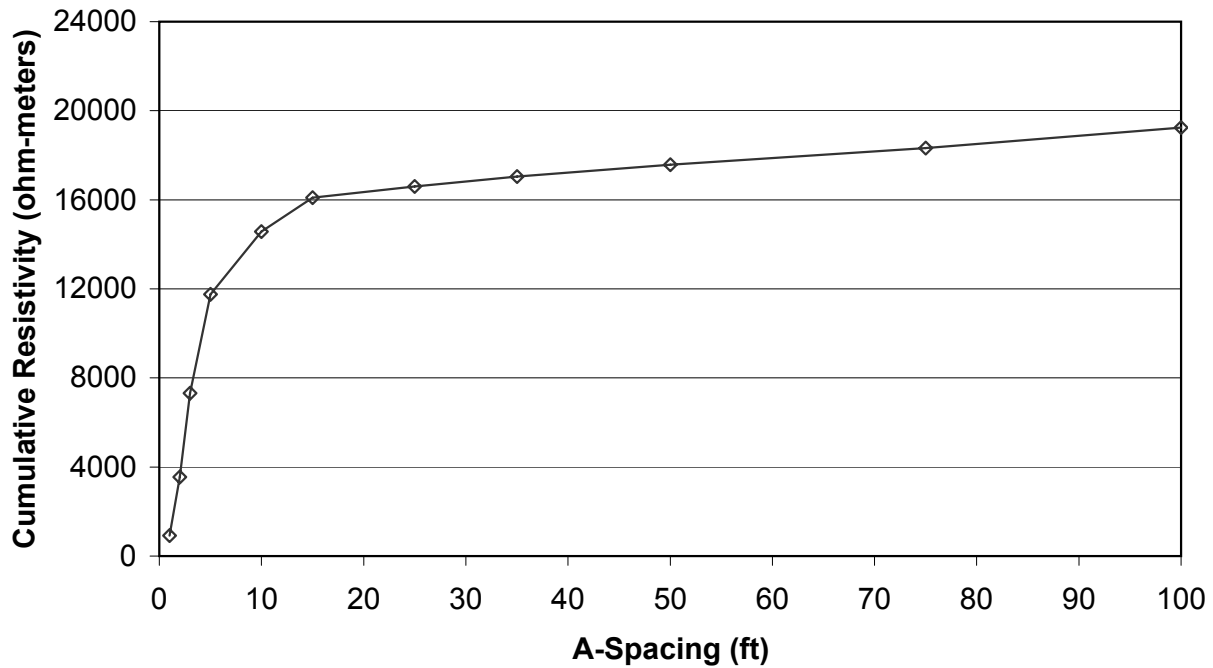
Geomean 1,272
 Min 448
 Max 4,444
 Median 914
 Std. Dev. 1,429



T-14B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	2997.314697	913.5815196	0.013404	914
2	1	3	20	4330.338327	2639.774244	0.104114	3553
3	1.5	4.5	10	4113.596394	3761.472543	0.052834	7315
5	2.5	7.5	20	2916.0995	4444.135638	0.027554	11759
10	5	15	20	920.7448864	2806.430414	0.014843	14565
15	7.5	22.5	20	336.0219228	1536.292231	0.013227	16102
25	12.5	37.5	20	65.60430859	499.9048314	0.011856	16602
35	17.5	52.5	20	41.99241236	447.9750551	0.039052	17050
50	25	75	20	34.83869173	530.941662	0.051762	17581
75	37.5	112.5	20	32.72000165	747.9792376	0.010752	18328
100	50	150	20	29.85989569	910.1296208	0.06197	19239

**T-14B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt14b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 29/10/2013 12:56:59

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
3	758	-1.5	1	1	20	9.540749	2997.314666	0.013404
2	668	-3	2	2	20	13.783895	8660.676053	0.104114
4	867	-4.5	3	3	10	6.546992	12340.78839	0.052834
5	973	-7.5	5	5	20	9.282233	14580.49794	0.027554
6	1075	-15	10	10	20	2.930822	9207.448356	0.014843
7	1206	-22.5	15	15	20	1.069591	5040.327348	0.013227
9	1370	-37.5	25	25	20	0.208825	1640.105594	0.011856
10	1492	-52.5	35	35	20	0.133666	1469.738422	0.039052
11	1640	-75	50	50	20	0.110895	1741.934054	0.051762
12	1787	-112.5	75	75	20	0.104151	2453.998349	0.010752
13	1956	-150	100	100	20	0.095047	2985.998466	0.06197
1	587	-1.5	1	1	20	12.886074	4048.27961	0.01654
8	1332	-37.5	25	25	20	0.012965	101.825259	171.6068
14	2015	-150	100	100	10	0.047786	3002.459997	0.259068



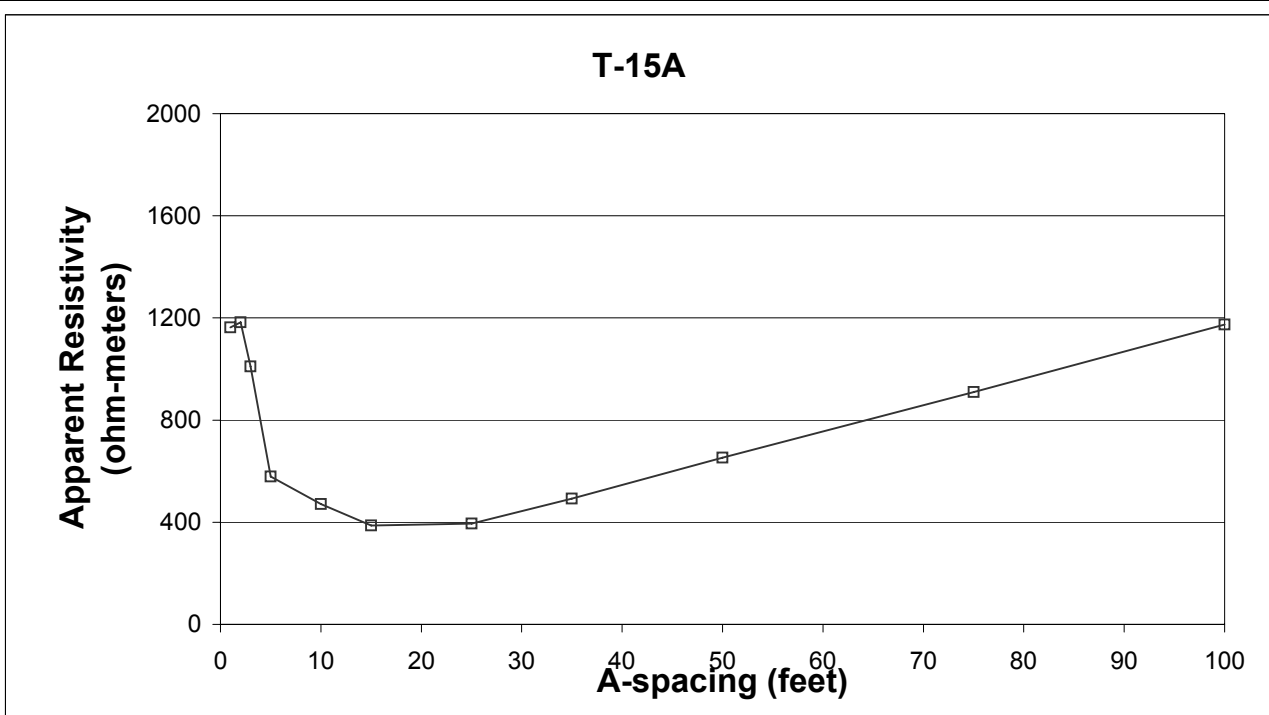
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-15A
 Orientation 285° (mag)
No Outcrop, moist soils

Date 10/29/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	607.3	1,163.0	0.0222
2	1.00	3.00	20	308.9	1,183.3	0.0040
3	1.50	4.50	20	175.7	1,009.6	0.0401
5	2.50	7.50	20	60.5	579.0	0.0170
10	5.00	15.00	20	24.6	471.7	0.0108
15	7.50	22.50	20	13.5	387.8	0.0406
25	12.50	37.50	50	8.2	394.4	0.0180
35	17.50	52.50	50	7.3	492.3	0.0318
50	25.00	75.00	20	6.8	653.2	0.0190
75	37.50	112.50	20	6.3	910.1	
100	50.00	150.00	20	6.1	1,174.0	0.0231

Geomean 701
 Min 388
 Max 1,183
 Median 653
 Std. Dev. 327

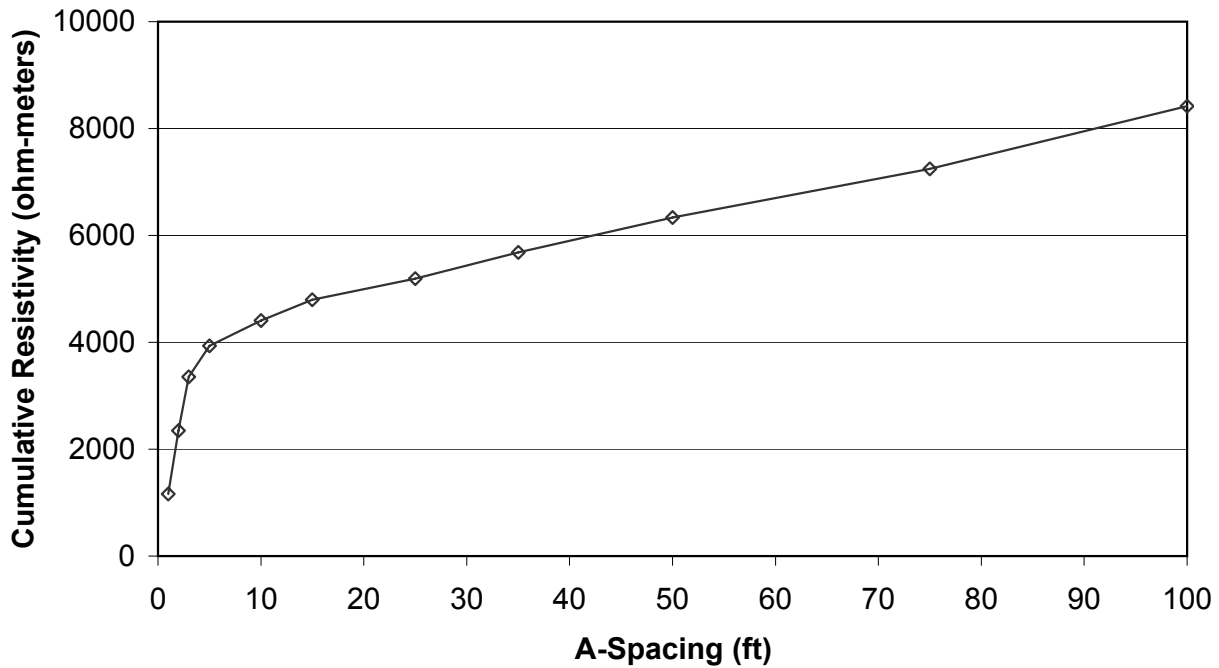


Cumulative Resistivity Sheet

T-15A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	3815.524596	1162.971897	0.022229	1163
2	1	3	20	1941.131353	1183.313673	0.00395	2346
3	1.5	4.5	20	1104.128446	1009.615051	0.040052	3356
5	2.5	7.5	20	379.9259943	579.0072153	0.016963	3935
10	5	15	20	154.7611373	471.7119465	0.010769	4407
15	7.5	22.5	20	84.82205917	387.8064545	0.040609	4794
25	12.5	37.5	50	51.75773897	394.3939709	0.018033	5189
35	17.5	52.5	50	46.1478598	492.3053683	0.031782	5681
50	25	75	20	42.86169105	653.2121716	0.019001	6334
75	37.5	112.5	20	39.81089042	910.0769551	0	7244
100	50	150	20	38.51749673	1174.0133	0.023078	8418

T-15A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt15a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 29/10/2013 14:12:09

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	36	-1.5	1	1	20	12.145192	3815.52487	0.022229
2	91	-3	2	2	20	6.178813	3882.262622	0.00395
3	149	-4.5	3	3	20	3.51455	3312.385499	0.040052
4	415	-7.5	5	5	20	1.209342	1899.630635	0.016963
5	544	-15	10	10	20	0.49262	1547.610447	0.010769
6	711	-22.5	15	15	20	0.269997	1272.332531	0.040609
7	904	-37.5	25	25	50	0.411875	1293.943055	0.018033
8	1078	-52.5	35	35	50	0.367233	1615.176623	0.031782
9	1316	-75	50	50	20	0.136433	2143.08531	0.019001
10	1600	-112.5	75	75	20	0.126722	2985.813684	0
11	1796	-150	100	100	20	0.122605	3851.760744	0.023078
12	1839	-150	100	100	10	0.060796	3819.929145	0.026831



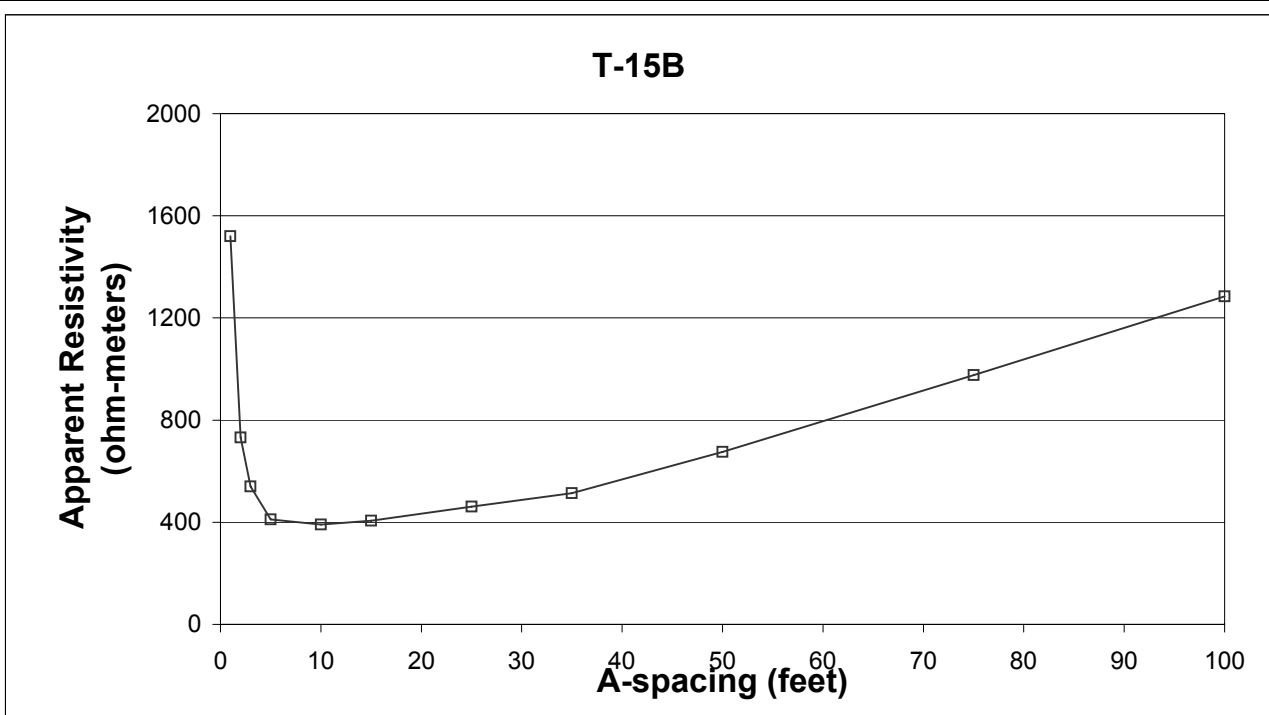
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-15B**
 Orientation **207° (mag)**
No Outcrop, moist soils

Date **10/29/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	793.4	1,519.5	0.0663
2	1.00	3.00	20	191.2	732.2	0.0281
3	1.50	4.50	20	94.1	540.5	0.0070
5	2.50	7.50	20	42.9	410.5	0.0128
10	5.00	15.00	50	20.4	390.9	0.0451
15	7.50	22.50	50	14.1	405.6	0.0050
25	12.50	37.50	50	9.6	460.6	0.0147
35	17.50	52.50	50	7.7	514.3	0.0120
50	25.00	75.00	50	7.1	675.4	0.0251
75	37.50	112.50	50	6.8	976.7	0.0239
100	50.00	150.00	50	6.7	1,285.1	0.0253

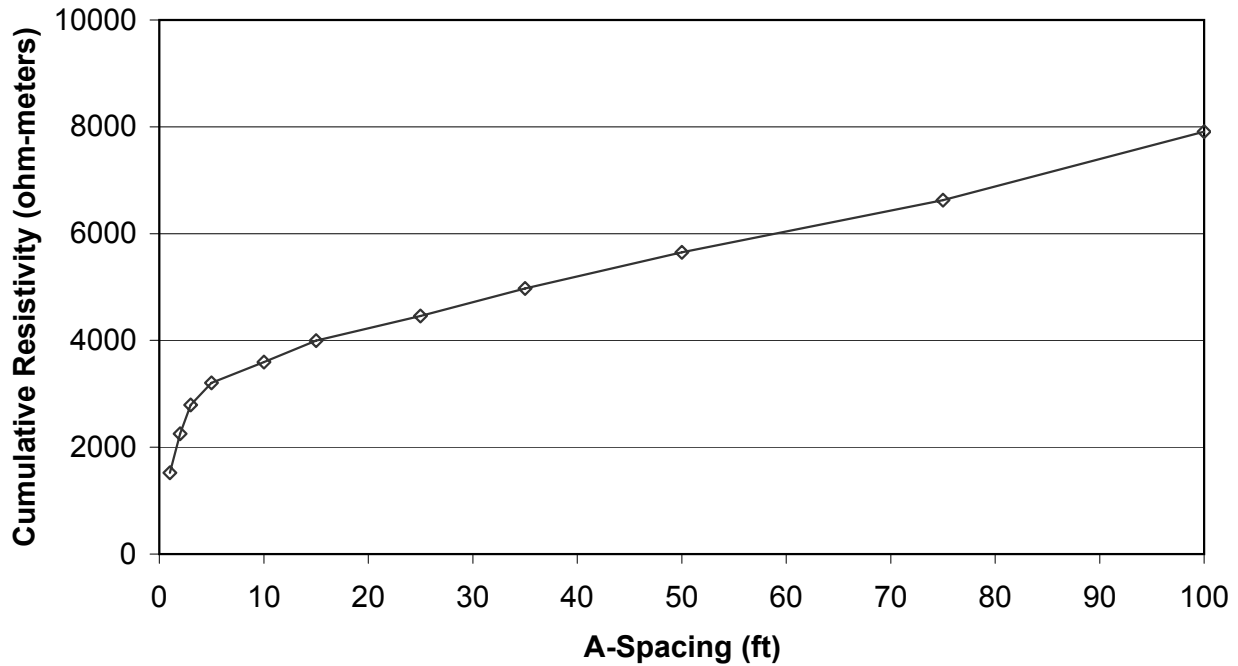
Geomean 644
 Min 391
 Max 1,520
 Median 540
 Std. Dev. 384



T-15B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4985.265833	1519.509026	0.06626	1520
2	1	3	20	1201.137371	732.2133416	0.028122	2252
3	1.5	4.5	20	591.0523303	540.4582509	0.006956	2792
5	2.5	7.5	20	269.3350214	410.4665726	0.012789	3203
10	5	15	50	128.2388068	390.8718832	0.045056	3594
15	7.5	22.5	50	88.71304733	405.5960524	0.00501	3999
25	12.5	37.5	50	60.44713292	460.6071529	0.014706	4460
35	17.5	52.5	50	48.21201184	514.3257423	0.011984	4974
50	25	75	50	44.31945287	675.4284618	0.025071	5649
75	37.5	112.5	50	42.72352381	976.6597542	0.023927	6626
100	50	150	50	42.16130438	1285.076558	0.0253	7911

**T-15B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt15b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 29/10/2013 14:57:07

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	579	-1.5	1	1	20	15.868594	4985.265755	0.06626
2	699	-3	2	2	20	3.823339	2402.27489	0.028122
3	774	-4.5	3	3	20	1.881378	1773.157442	0.006956
4	841	-7.5	5	5	20	0.85732	1346.674423	0.012789
5	954	-15	10	10	50	1.020492	1282.388644	0.045056
6	1023	-22.5	15	15	50	0.705956	1330.696036	0.00501
7	1106	-37.5	25	25	50	0.481023	1511.178104	0.014706
8	1199	-52.5	35	35	50	0.383659	1687.422324	0.011984
9	1310	-75	50	50	50	0.352683	2215.972318	0.025071
10	1425	-112.5	75	75	50	0.339983	3204.266629	0.023927
11	1578	-150	100	100	50	0.335509	4216.131515	0.0253
12	1608	-150	100	100	20	0.13486	4236.748576	0.005245



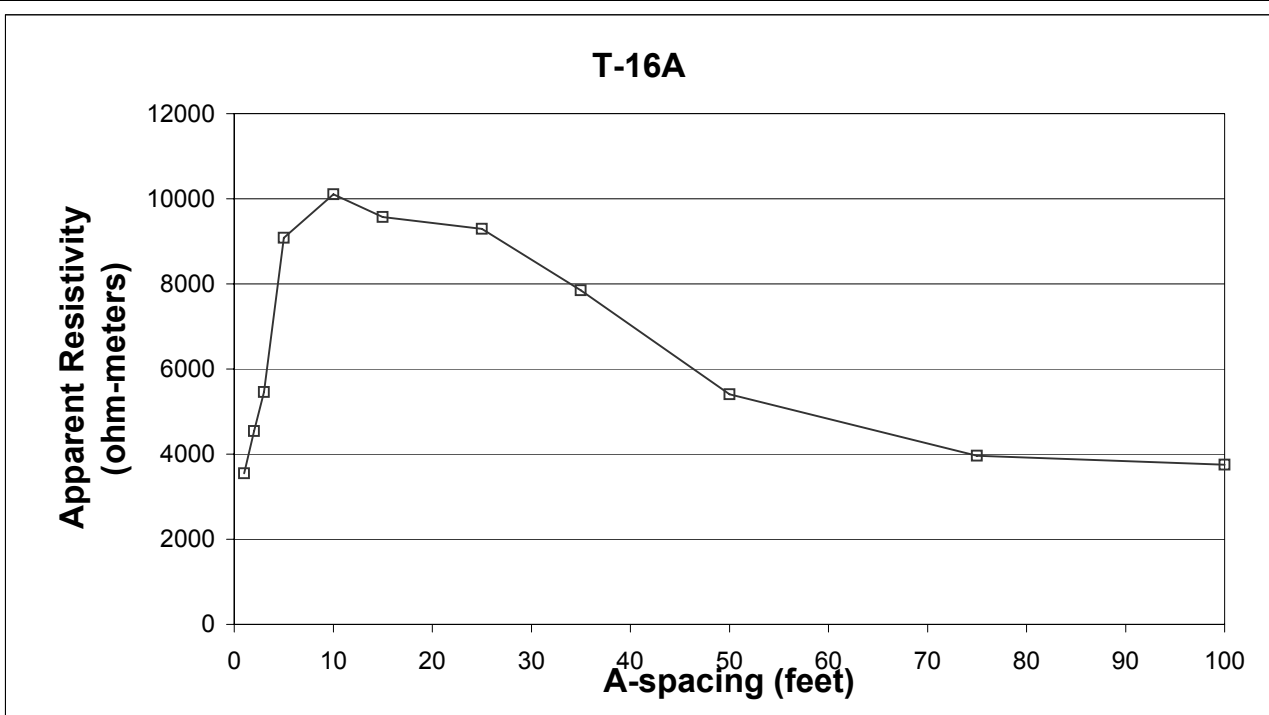
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
Spread No **T-16A**
Orientation **354° (mag)**
No Outcrop, moist soils, boulders

Date **11/05/2013**
lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1854.6	3,551.8	0.0176
2	1.00	3.00	20	1184.7	4,537.8	0.0258
3	1.50	4.50	20	950.6	5,461.6	0.0448
5	2.50	7.50	20	948.9	9,086.1	0.0367
10	5.00	15.00	20	527.5	10,103.1	0.0525
15	7.50	22.50	50	333.3	9,574.2	0.0298
25	12.50	37.50	20	194.1	9,292.5	0.0199
35	17.50	52.50	20	117.2	7,853.2	0.0202
50	25.00	75.00	20	56.5	5,408.0	0.0106
75	37.50	112.50	20	27.6	3,958.9	0.0225
100	50.00	150.00	50	19.6	3,753.1	0.0296

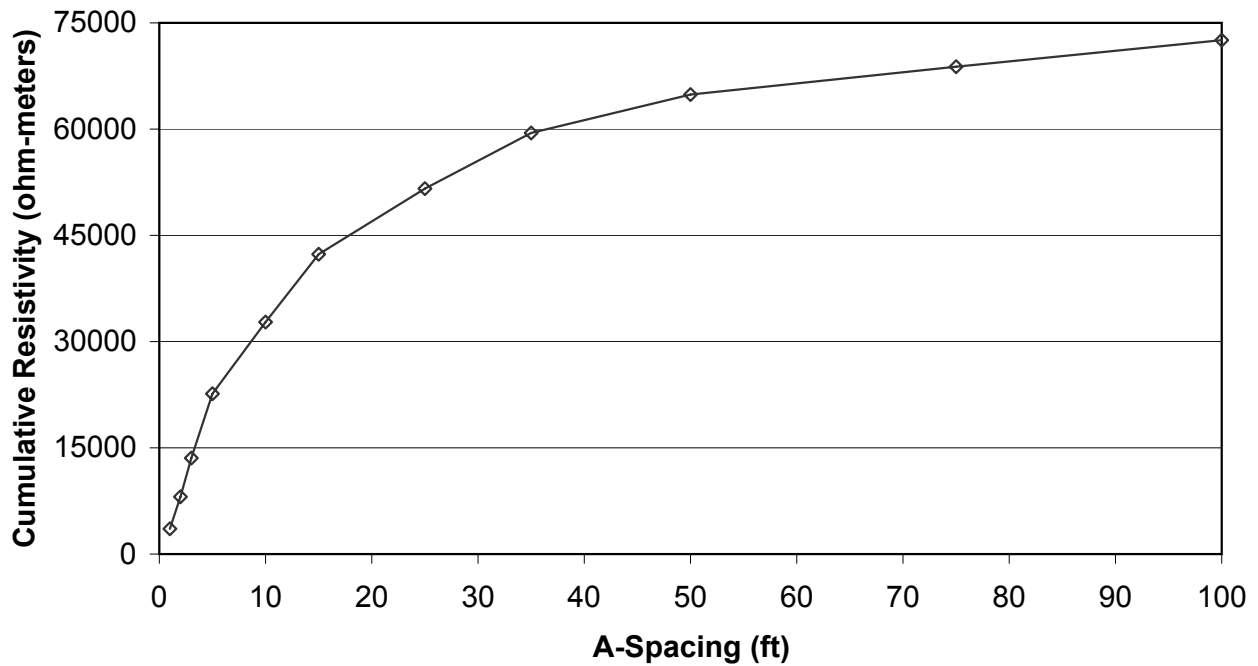
Geomean 6,123
Min 3,552
Max 10,103
Median 5,462
Std. Dev. 2,597



T-16A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	11652.90888	3551.806627	0.017621	3552
2	1	3	20	7443.904204	4537.804003	0.025786	8090
3	1.5	4.5	20	5972.913134	5461.63177	0.044841	13551
5	2.5	7.5	20	5962.023746	9086.124189	0.036687	22637
10	5	15	20	3314.662365	10103.09089	0.052521	32740
15	7.5	22.5	50	2094.089404	9574.176757	0.029843	42315
25	12.5	37.5	20	1219.484901	9292.474945	0.019863	51607
35	17.5	52.5	20	736.1417605	7853.160301	0.020226	59460
50	25	75	20	354.8563991	5408.011522	0.010646	64868
75	37.5	112.5	20	173.18218	3958.944634	0.022456	68827
100	50	150	50	123.1330904	3753.096596	0.029598	72580

T-16A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt16a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 5/11/2013 10:46

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	542	-1.5	1	1	20	37.092361	11652.9096	0.017621
2	935	-3	2	2	20	23.694683	14887.80817	0.025786
3	1206	-4.5	3	3	20	19.012373	17918.73945	0.044841
4	1428	-7.5	5	5	20	18.977711	29810.11902	0.036687
5	1587	-15	10	10	20	10.550898	33146.62119	0.052521
6	1711	-22.5	15	15	50	16.664234	31411.34281	0.029843
7	1879	-37.5	25	25	20	3.881741	30487.12034	0.019863
8	2009	-52.5	35	35	20	2.343212	25764.95799	0.020226
9	2176	-75	50	50	20	1.129543	17742.81755	0.010646
10	2331	-112.5	75	75	20	0.551256	12988.67313	0.022456
11	2544	-150	100	100	50	0.979862	12313.31412	0.029598
12	2799	-150	100	100	20	0.392933	12344.34847	0.060308



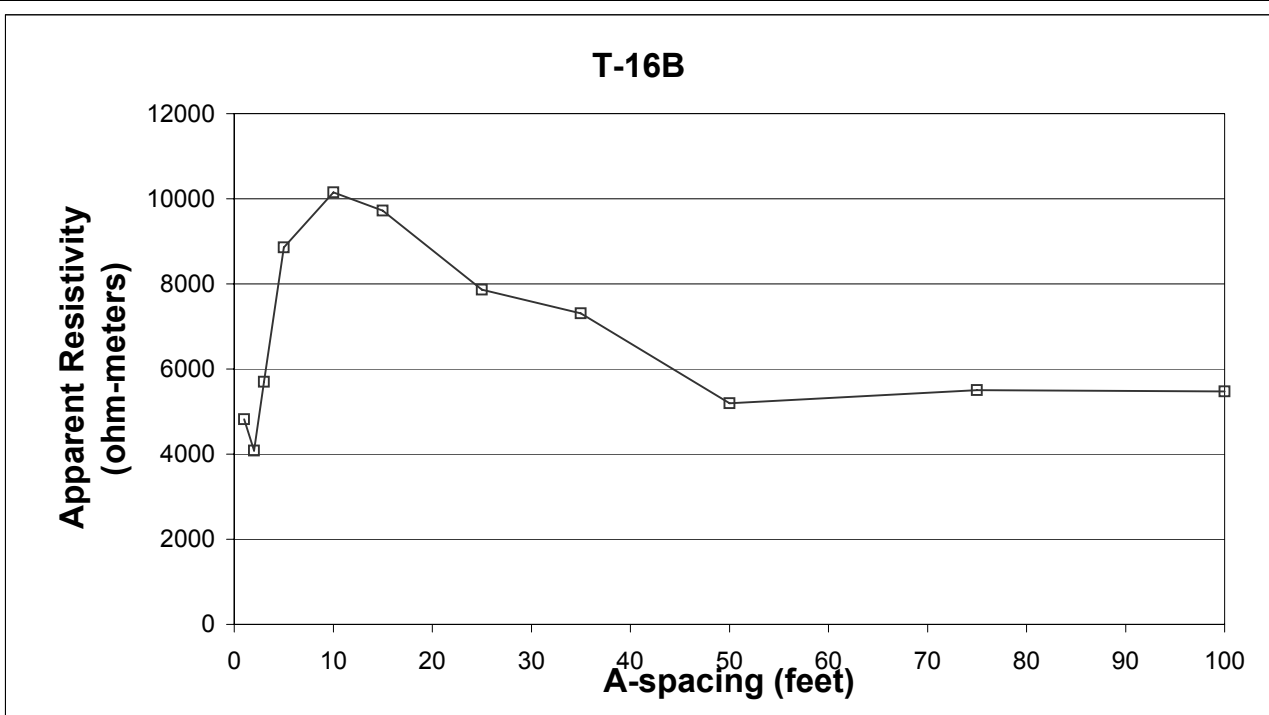
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-16B**
 Orientation **276° (mag)**
No Outcrop, moist soils, wooded

Date **11/05/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

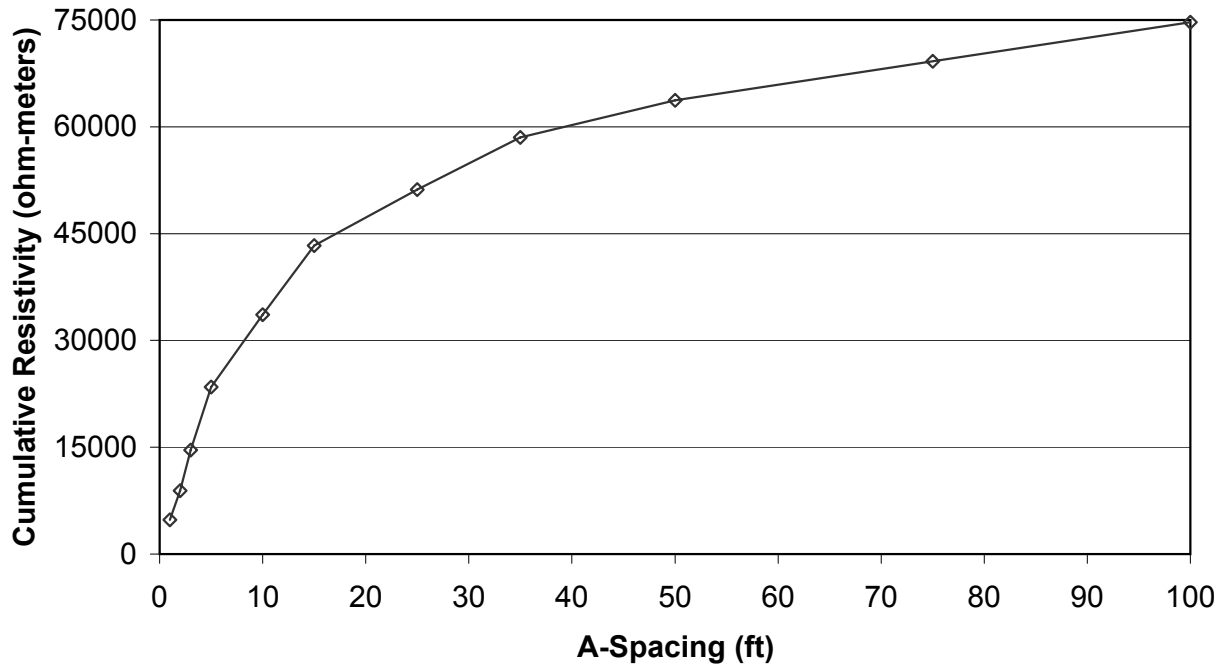
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	2515.7	4,817.9	0.0435
2	1.00	3.00	20	1065.6	4,081.5	0.0253
3	1.50	4.50	20	992.3	5,701.1	0.0258
5	2.50	7.50	20	925.2	8,859.1	0.0468
10	5.00	15.00	20	530.0	10,150.8	0.0308
15	7.50	22.50	10	338.5	9,723.5	0.0238
25	12.50	37.50	20	164.3	7,864.5	0.0352
35	17.50	52.50	10	109.0	7,306.0	0.0282
50	25.00	75.00	20	54.3	5,198.4	0.0150
75	37.50	112.50	20	38.3	5,506.5	0.0088
100	50.00	150.00	20	28.6	5,474.8	0.0049

Geomean 6,505
 Min 4,081
 Max 10,151
 Median 5,701
 Std. Dev. 2,096



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	15806.64509	4817.865424	0.04349	4818
2	1	3	20	6695.293462	4081.450895	0.025335	8899
3	1.5	4.5	20	6234.833683	5701.13192	0.025774	14600
5	2.5	7.5	20	5813.039998	8859.072956	0.046842	23460
10	5	15	20	3330.318177	10150.8098	0.030829	33610
15	7.5	22.5	10	2126.755811	9723.527566	0.023824	43334
25	12.5	37.5	20	1032.087957	7864.510229	0.035204	51198
35	17.5	52.5	10	684.8489772	7305.968889	0.028231	58504
50	25	75	20	341.1053339	5198.445288	0.014984	63703
75	37.5	112.5	20	240.8787893	5506.489123	0.008764	69209
100	50	150	20	179.6208741	5474.844243	0.004949	74684

T-16B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt16b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 5/11/2013 11:48

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	518	-1.5	1	1	20	50.314114	15806.64425	0.04349
2	616	-3	2	2	20	21.311781	13390.5877	0.025335
3	725	-4.5	3	3	20	19.846092	18704.5004	0.025774
4	889	-7.5	5	5	20	18.503481	29065.19877	0.046842
5	1082	-15	10	10	20	10.600732	33303.17926	0.030829
6	1482	-22.5	15	15	10	3.384837	31901.3375	0.023824
7	1645	-37.5	25	25	20	3.285238	25802.19681	0.035204
8	1753	-37.5	35	35	10	1.089971	17121.21977	0.028231
9	1903	-75	50	50	20	1.085772	17055.26219	0.014984
10	2098	-112.5	75	75	20	0.766741	18065.91165	0.008764
11	2265	-150	100	100	20	0.571751	17962.1025	0.004949
12	2318	-150	100	100	10	0.286771	18018.35884	0.024667



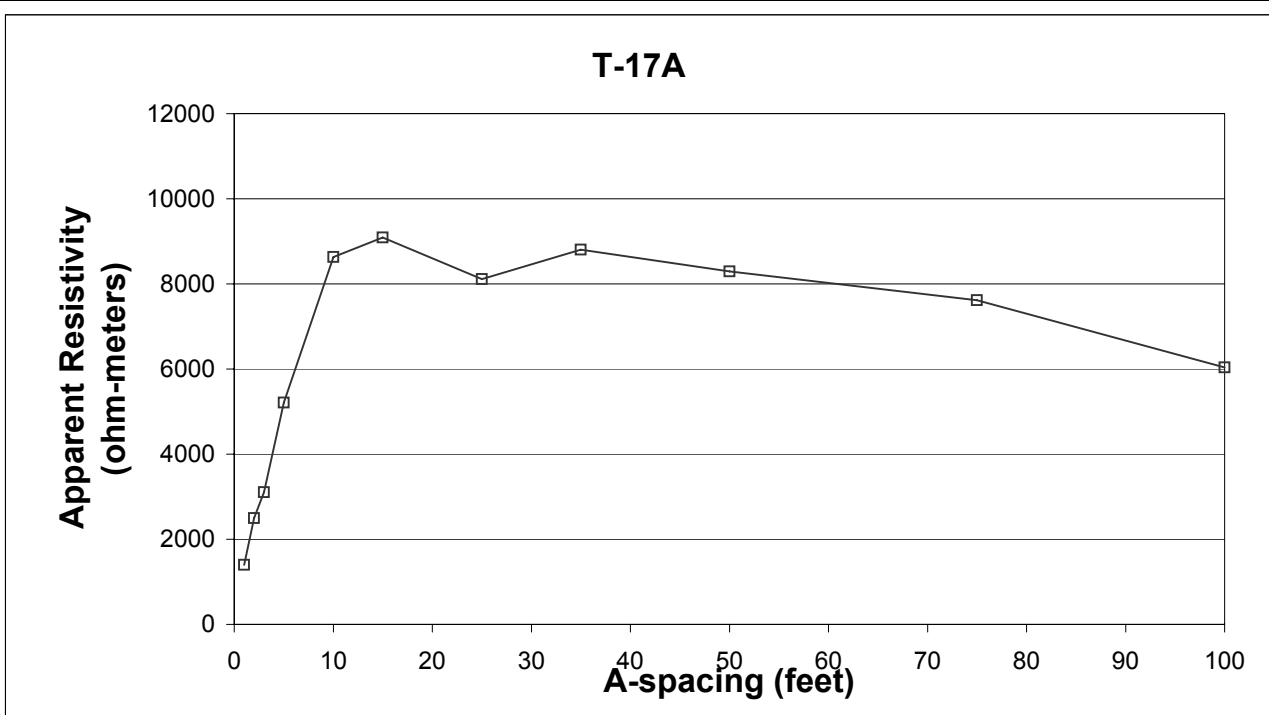
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-17A
 Orientation 292° (mag)
Shallow bedrock & outcrop

Date 11/05/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	729.9	1,397.9	0.0506
2	1.00	3.00	20	651.8	2,496.5	0.0305
3	1.50	4.50	50	540.3	3,104.3	0.0615
5	2.50	7.50	50	544.0	5,209.0	0.0434
10	5.00	15.00	50	450.9	8,634.5	0.0277
15	7.50	22.50	50	316.5	9,091.1	0.0449
25	12.50	37.50	20	169.5	8,114.4	0.0547
35	17.50	52.50	20	131.4	8,807.5	0.0767
50	25.00	75.00	20	86.6	8,295.9	0.0621
75	37.50	112.50	20	53.0	7,618.2	0.0363
100	50.00	150.00	20	31.5	6,039.6	0.0370

Geomean 5,429
 Min 1,398
 Max 9,091
 Median 7,618
 Std. Dev. 2,802

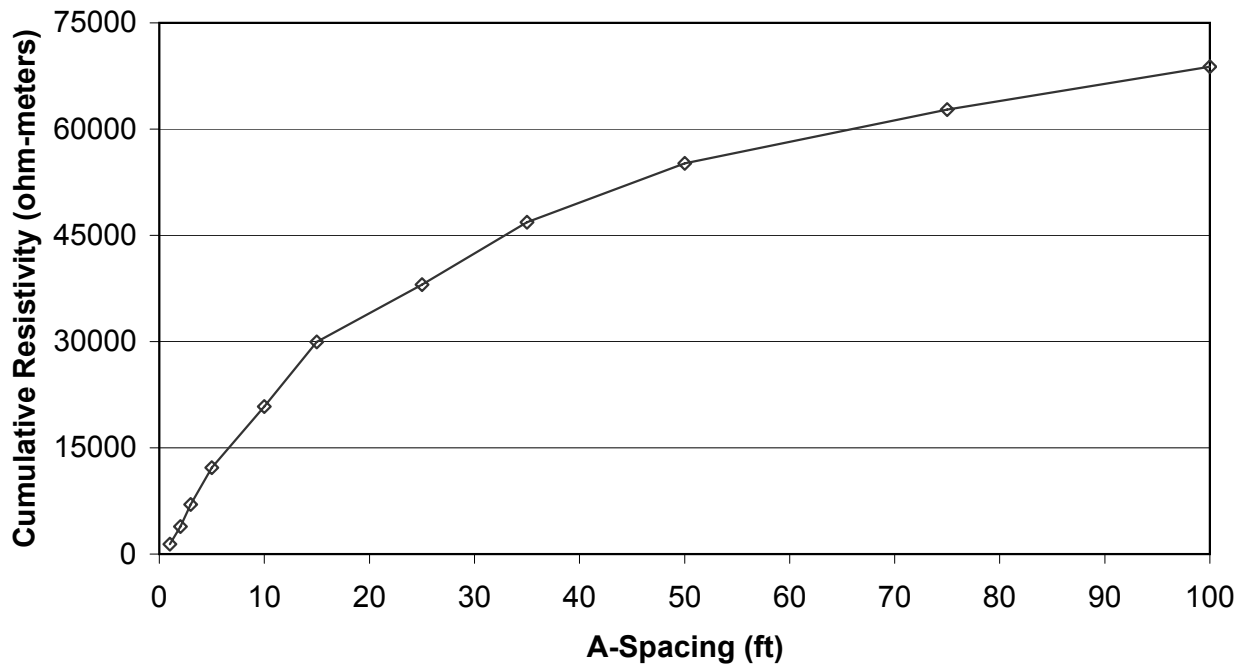


Cumulative Resistivity Sheet

T-16A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4586.356137	1397.921351	0.050611	1398
2	1	3	20	4095.279024	2496.482093	0.03052	3894
3	1.5	4.5	50	3394.892232	3104.289457	0.061536	6999
5	2.5	7.5	50	3417.946998	5208.951225	0.043359	12208
10	5	15	50	2832.833032	8634.475082	0.027733	20842
15	7.5	22.5	50	1988.424826	9091.078304	0.044899	29933
25	12.5	37.5	20	1064.877073	8114.363299	0.054676	38048
35	17.5	52.5	20	825.6001821	8807.502743	0.076713	46855
50	25	75	20	544.3519272	8295.923371	0.062053	55151
75	37.5	112.5	20	333.2538655	7618.183366	0.036343	62769
100	50	150	20	198.1490451	6039.582895	0.03701	68809

T-16A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt17a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 5/11/2013 13:45

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	34	-1.5	1	1	20	14.598825	4586.356352	0.050611
2	152	-3	2	2	20	13.035678	8190.557728	0.03052
3	229	-4.5	3	3	50	27.015694	10184.676	0.061536
4	365	-7.5	5	5	50	27.199158	17089.73481	0.043359
5	584	-15	10	10	50	22.542969	28328.33001	0.027733
6	745	-22.5	15	15	50	15.823382	29826.37346	0.044899
7	875	-37.5	25	25	20	3.389609	26621.92498	0.054676
8	1014	-52.5	35	35	20	2.627967	28896.00548	0.076713
9	1156	-75	50	50	20	1.732726	27217.59609	0.062053
10	1351	-112.5	75	75	20	1.06078	24994.03701	0.036343
11	1549	-150	100	100	20	0.630728	19814.9152	0.03701
12	1625	-150	100	100	10	0.31639	19879.33999	0.034654



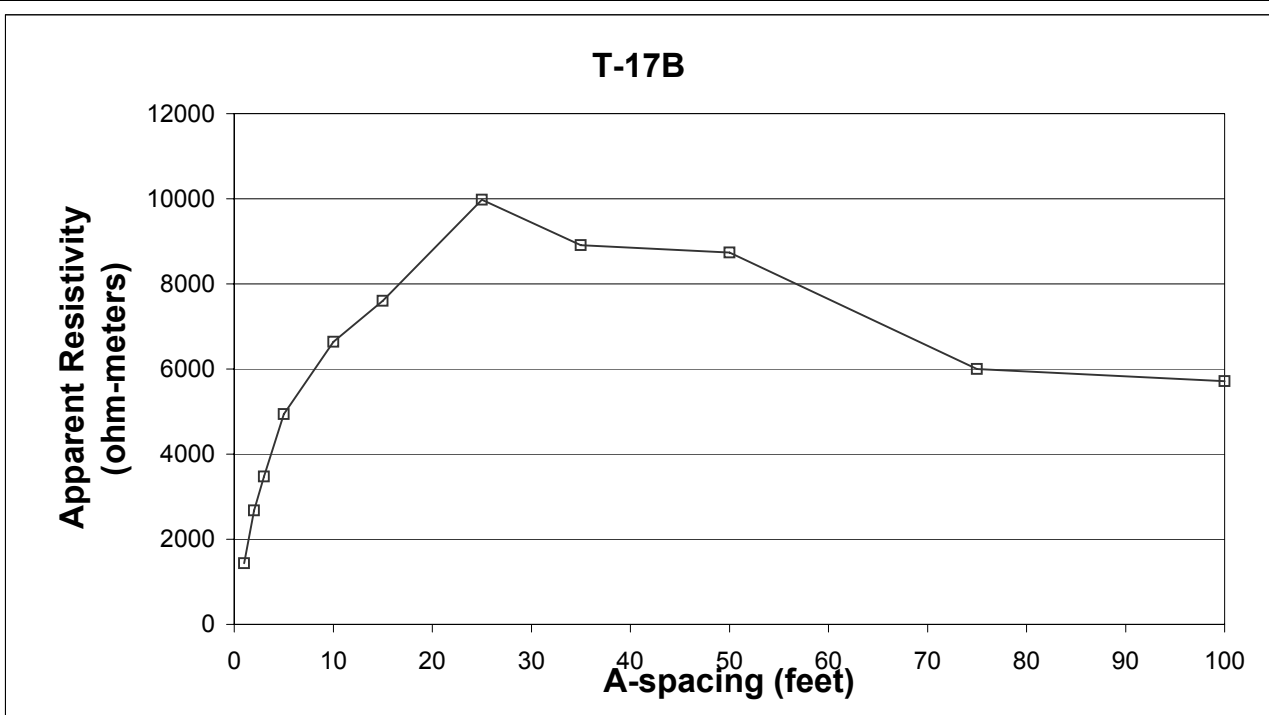
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-17B
 Orientation 357° (mag)
Shallow Bedrock, some outcrop

Date 11/05/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

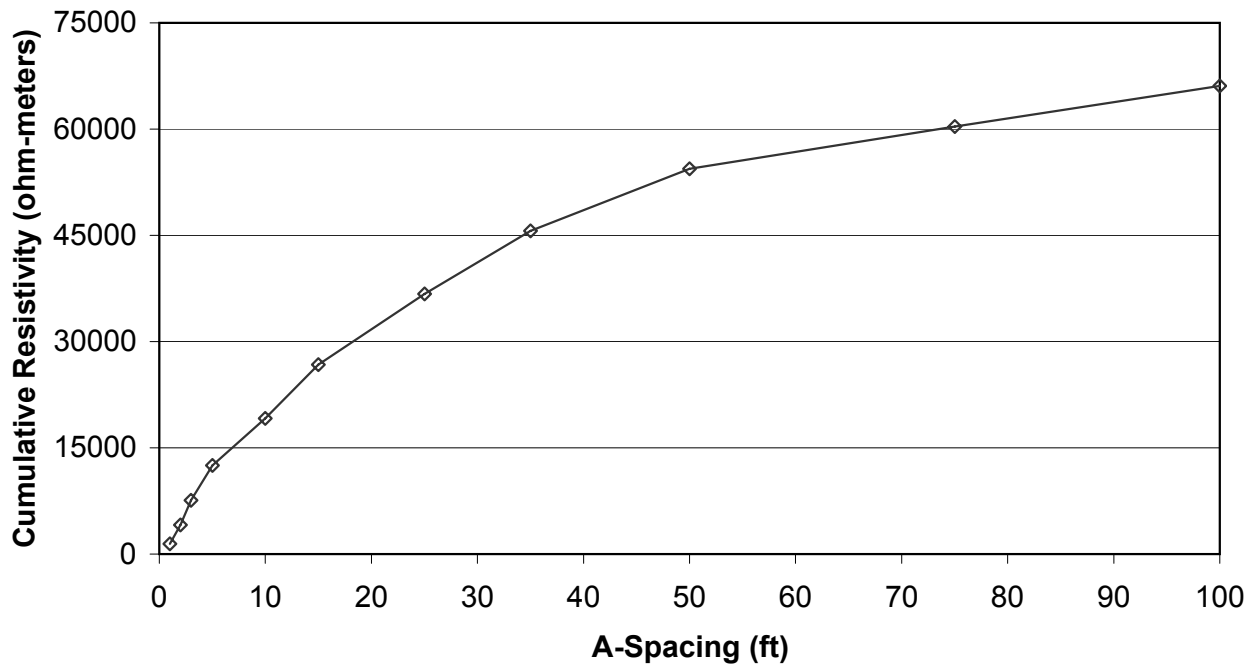
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	749.2	1,434.8	0.0408
2	1.00	3.00	50	698.4	2,674.9	0.0289
3	1.50	4.50	20	604.8	3,474.5	0.0446
5	2.50	7.50	20	516.0	4,940.6	0.0661
10	5.00	15.00	20	346.6	6,638.0	0.0350
15	7.50	22.50	20	264.5	7,598.5	0.0380
25	12.50	37.50	20	208.4	9,975.8	0.0661
35	17.50	52.50	50	132.9	8,906.6	0.0882
50	25.00	75.00	20	91.2	8,736.6	0.0492
75	37.50	112.50	50	41.8	6,001.8	0.0516
100	50.00	150.00	20	29.8	5,711.6	0.0107

Geomean 5,277
 Min 1,435
 Max 9,976
 Median 6,002
 Std. Dev. 2,724



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4707.27918	1434.778694	0.040776	1435
2	1	3	50	4387.880178	2674.851756	0.028892	4110
3	1.5	4.5	20	3799.774222	3474.513548	0.044641	7584
5	2.5	7.5	20	3241.843388	4940.569324	0.066094	12525
10	5	15	20	2177.806691	6637.954795	0.035	19163
15	7.5	22.5	20	1661.955607	7598.461034	0.038042	26761
25	12.5	37.5	20	1309.154752	9975.759208	0.066117	36737
35	17.5	52.5	50	834.8874211	8906.579009	0.088157	45643
50	25	75	20	573.2699734	8736.634395	0.049231	54380
75	37.5	112.5	50	262.5454113	6001.788103	0.051632	60382
100	50	150	20	187.388462	5711.600321	0.010673	66093

T-17B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt17b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 5/11/2013 14:34

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	45	-1.5	1	1	20	14.983735	4707.27929	0.040776
2	130	-3	2	2	50	34.917641	8775.759893	0.028892
3	194	-4.5	3	3	20	12.095057	11399.32187	0.044641
4	273	-7.5	5	5	20	10.319108	16209.21834	0.066094
5	381	-15	10	10	20	6.932174	21778.06714	0.035
6	503	-22.5	15	15	20	5.290169	24929.33729	0.038042
8	773	-37.5	25	25	20	4.167169	32728.86788	0.066117
9	946	-52.5	35	35	50	6.643823	29221.05745	0.088157
10	1103	-75	50	50	20	1.824775	28663.50002	0.049231
11	1288	-112.5	75	75	50	2.08927	19690.90783	0.051632
12	1440	-150	100	100	20	0.596476	18738.83487	0.010673
7	632	-37.5	25	25	20	4.021758	31586.8096	1.590301
13	1523	-150	100	100	10	0.299173	18797.60551	0.036648



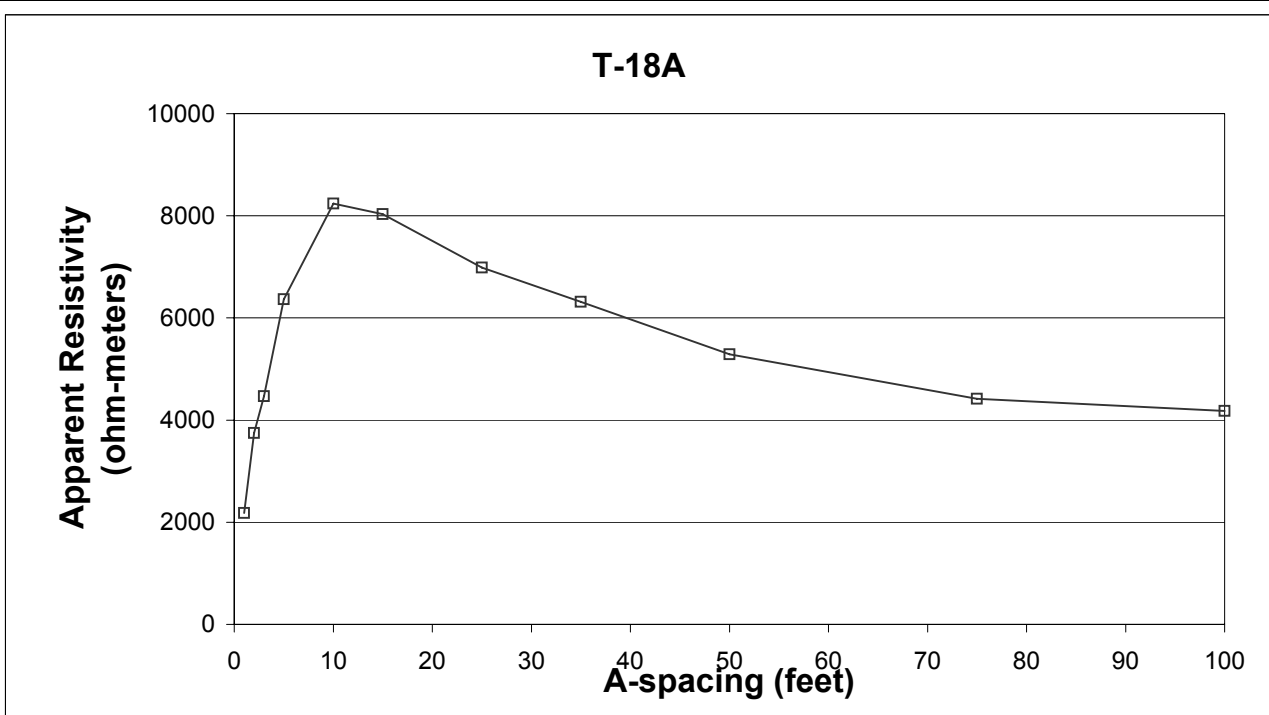
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-18A**
 Orientation **50° (mag)**
No Outcrop, silty till, moist

Date **11/05/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1138.7	2,180.7	0.0343
2	1.00	3.00	20	978.6	3,748.3	0.0261
3	1.50	4.50	20	778.0	4,469.7	0.0457
5	2.50	7.50	20	664.6	6,363.7	0.0192
10	5.00	15.00	20	430.3	8,241.7	0.0479
15	7.50	22.50	20	279.7	8,034.9	0.0424
25	12.50	37.50	20	145.9	6,987.2	0.0622
35	17.50	52.50	20	94.2	6,316.4	0.0621
50	25.00	75.00	20	55.2	5,286.5	0.0509
75	37.50	112.50	20	30.7	4,414.5	0.0328
100	50.00	150.00	20	21.8	4,178.2	0.0154

Geomean 5,141
 Min 2,181
 Max 8,242
 Median 5,286
 Std. Dev. 1,889

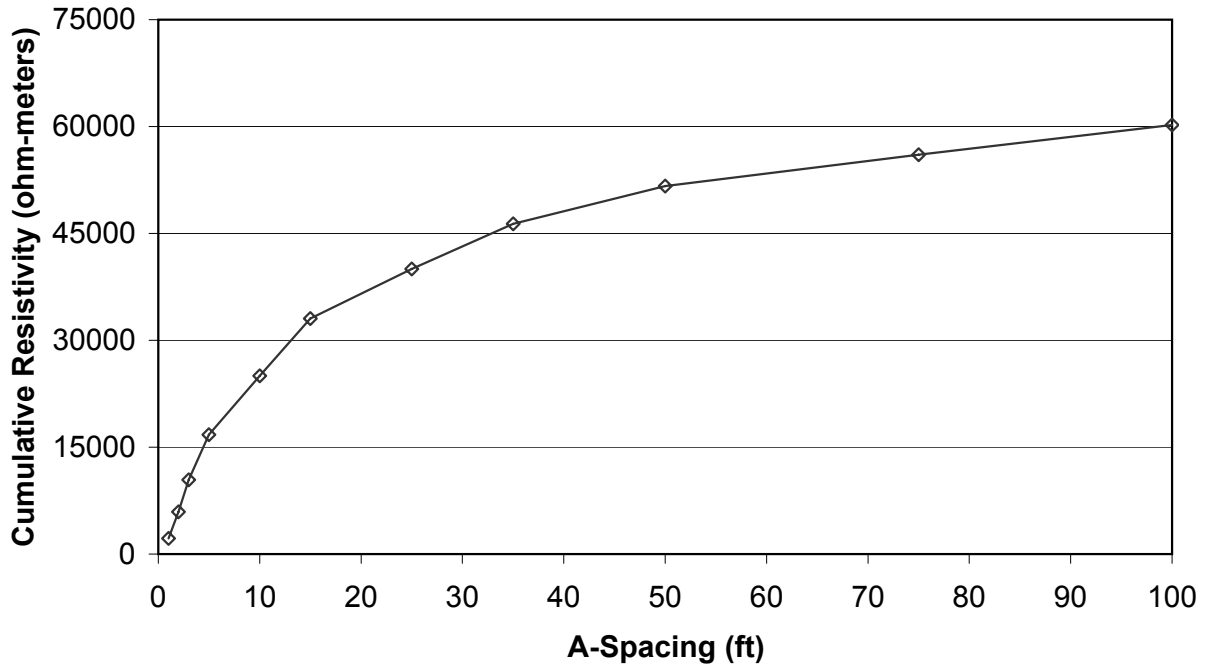


Cumulative Resistivity Sheet

T-18A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	7154.396388	2180.660019	0.034316	2181
2	1	3	20	6148.726398	3748.263612	0.026135	5929
3	1.5	4.5	20	4888.110824	4469.688537	0.04566	10399
5	2.5	7.5	20	4175.641592	6363.677787	0.019242	16762
10	5	15	20	2703.955916	8241.657633	0.047875	25004
15	7.5	22.5	20	1757.405045	8034.855868	0.042361	33039
25	12.5	37.5	20	916.9561257	6987.205678	0.062163	40026
35	17.5	52.5	20	592.0881134	6316.395994	0.062117	46342
50	25	75	20	346.8824086	5286.487907	0.050931	51629
75	37.5	112.5	20	193.1121296	4414.543283	0.032797	56043
100	50	150	20	137.0815105	4178.24444	0.015401	60222

T-18A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt18a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 5/11/2013 15:46

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	76	-1.5	1	1	20	22.773151	7154.396657	0.034316
3	162	-3	2	2	20	19.572004	12297.45304	0.026135
4	257	-4.5	3	3	20	15.55934	14664.33325	0.04566
5	397	-7.5	5	5	20	13.29148	20878.20908	0.019242
6	479	-15	10	10	20	8.606959	27039.55988	0.047875
7	585	-22.5	15	15	20	5.593994	26361.07635	0.042361
8	676	-37.5	25	25	20	2.918762	22923.90477	0.062163
9	781	-52.5	35	35	20	1.884675	20723.08048	0.062117
10	899	-75	50	50	20	1.104161	17344.11916	0.050931
11	1031	-112.5	75	75	20	0.614695	14483.40738	0.032797
12	1168	-150	100	100	20	0.436344	13708.14847	0.015401
1	21	0	0	0	20	22.774858	inf	0.043672
13	1226	-150	100	100	10	0.218831	13749.55397	0.019395



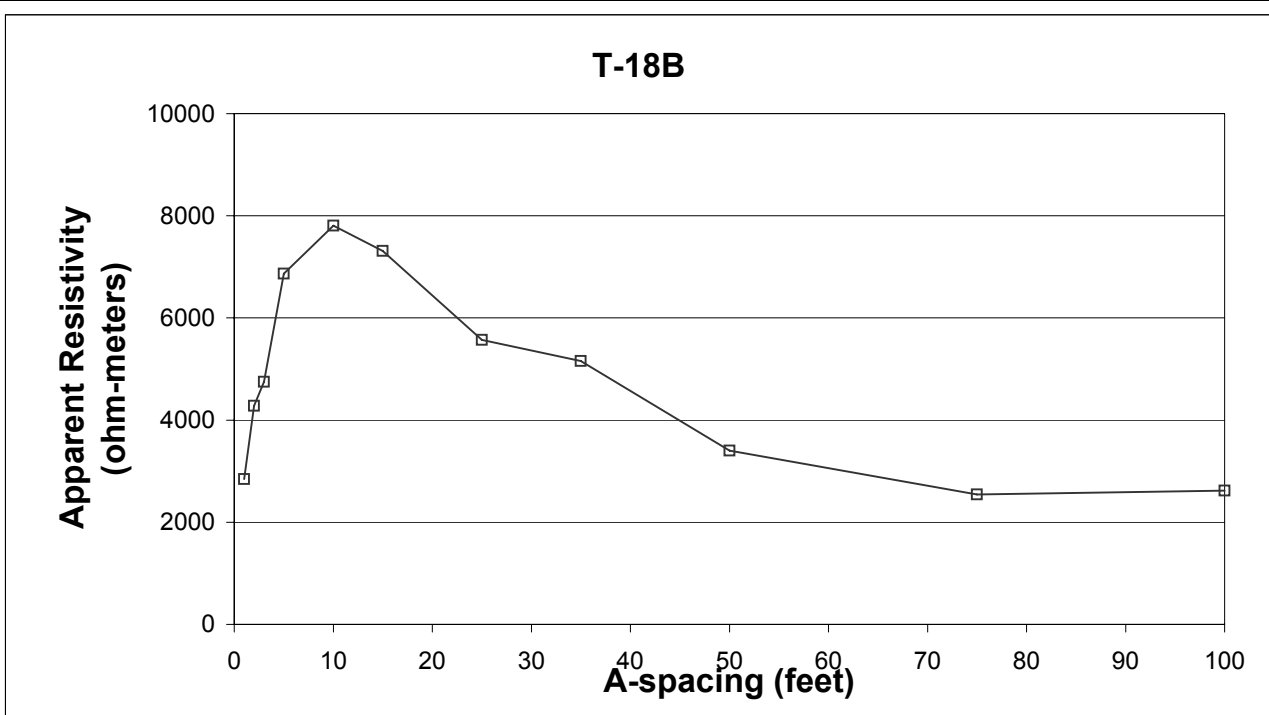
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-18B
 Orientation 357° (mag)
Shallow Bedrock 15 to 75 ft on C2, Till

Date 11/05/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1486.6	2,847.1	0.0435
2	1.00	3.00	20	1116.8	4,277.5	0.0312
3	1.50	4.50	20	826.1	4,746.3	0.0404
5	2.50	7.50	20	716.9	6,865.2	0.0367
10	5.00	15.00	20	407.6	7,806.4	0.0436
15	7.50	22.50	20	254.6	7,314.7	0.0446
25	12.50	37.50	20	116.3	5,567.7	0.0506
35	17.50	52.50	20	76.9	5,157.4	0.0542
50	25.00	75.00	20	35.5	3,403.1	0.0323
75	37.50	112.50	20	17.7	2,542.4	0.0220
100	50.00	150.00	50	13.7	2,620.0	0.0321

Geomean 4,484
 Min 2,542
 Max 7,806
 Median 4,746
 Std. Dev. 1,903

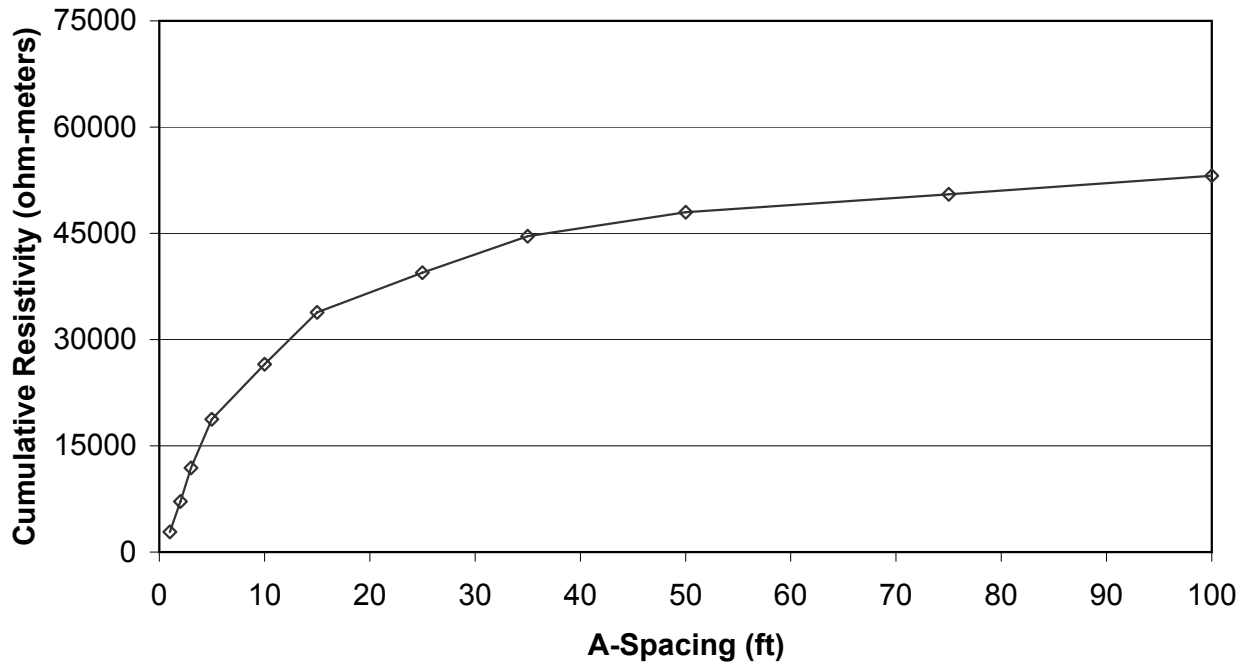


Cumulative Resistivity Sheet

T-18B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	9340.729676	2847.054405	0.043488	2847
2	1	3	20	7016.965532	4277.542189	0.031172	7125
3	1.5	4.5	20	5190.591847	4746.277185	0.04042	11871
5	2.5	7.5	20	4504.699233	6865.16163	0.036665	18736
10	5	15	20	2561.159221	7806.413304	0.043573	26542
15	7.5	22.5	20	1599.890302	7314.698462	0.044587	33857
25	12.5	37.5	20	730.6694203	5567.700982	0.050639	39425
35	17.5	52.5	20	483.4468129	5157.4106	0.054241	44582
50	25	75	20	223.2996934	3403.087328	0.032344	47985
75	37.5	112.5	20	111.2174065	2542.429912	0.021979	50528
100	50	150	50	85.95749359	2619.984405	0.032058	53148

T-18B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt18b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 5/11/2013 16:16

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	92	-1.5	1	1	20	29.732466	9340.729619	0.043488
2	295	-3	2	2	20	22.335695	14033.93157	0.031172
3	390	-4.5	3	3	20	16.522167	15571.77645	0.04042
4	479	-7.5	5	5	20	14.338903	22523.49743	0.036665
5	570	-15	10	10	20	8.152423	25611.59251	0.043573
6	664	-22.5	15	15	20	5.092609	23998.35429	0.044587
7	791	-37.5	25	25	20	2.325793	18266.7331	0.050639
8	908	-52.5	35	35	20	1.538859	16920.64123	0.054241
9	1042	-75	50	50	20	0.710785	11164.99168	0.032344
10	1240	-112.5	75	75	20	0.354016	8341.30456	0.021979
11	1449	-150	100	100	50	0.684028	8595.749429	0.032058
12	1501	-150	100	100	20	0.274582	8626.234301	0



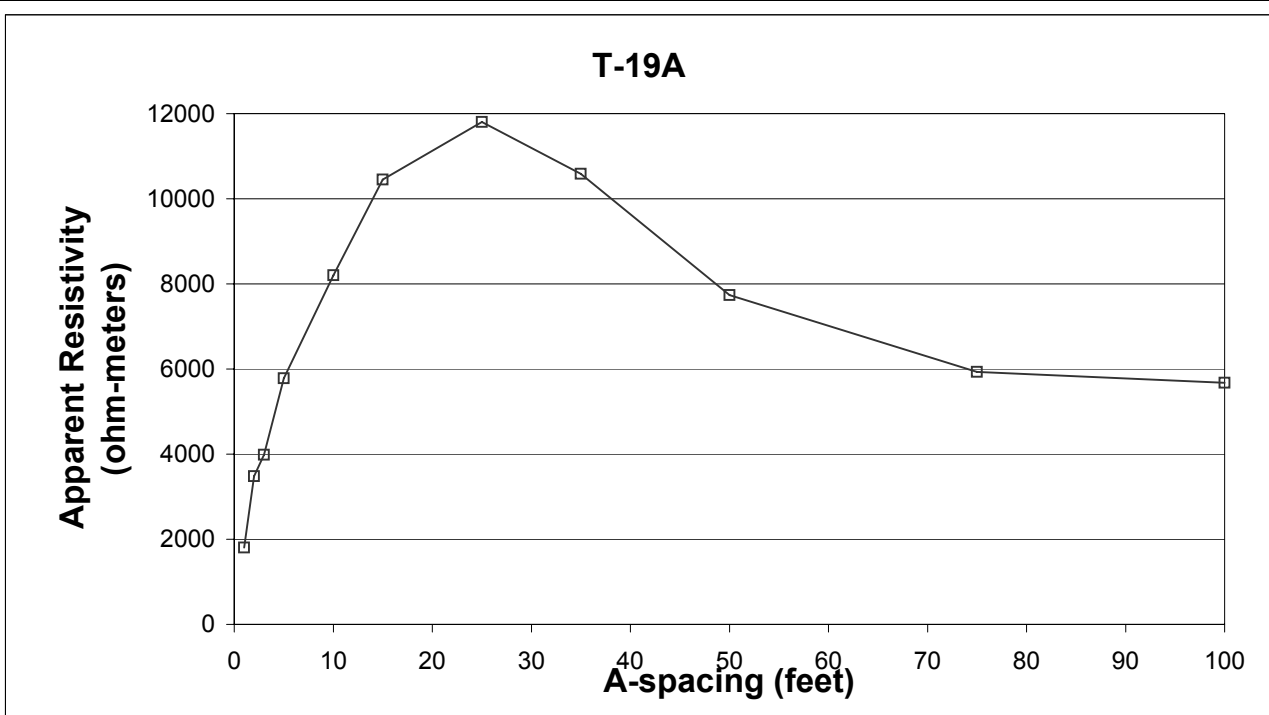
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-19A
 Orientation 336° (mag)
Shallow Bedrock, silty till, moist

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	942.8	1,805.7	0.0241
2	1.00	3.00	20	908.4	3,479.5	0.0250
3	1.50	4.50	20	693.2	3,982.8	0.1875
5	2.50	7.50	20	603.9	5,782.5	0.0471
10	5.00	15.00	20	428.2	8,200.8	0.0299
15	7.50	22.50	50	363.9	10,452.7	0.0156
25	12.50	37.50	50	246.6	11,808.2	0.0576
35	17.50	52.50	20	157.9	10,585.1	0.0485
50	25.00	75.00	50	80.8	7,738.5	0.0671
75	37.50	112.50	20	41.3	5,929.8	0.0664
100	50.00	150.00	50	29.6	5,677.6	0.0554

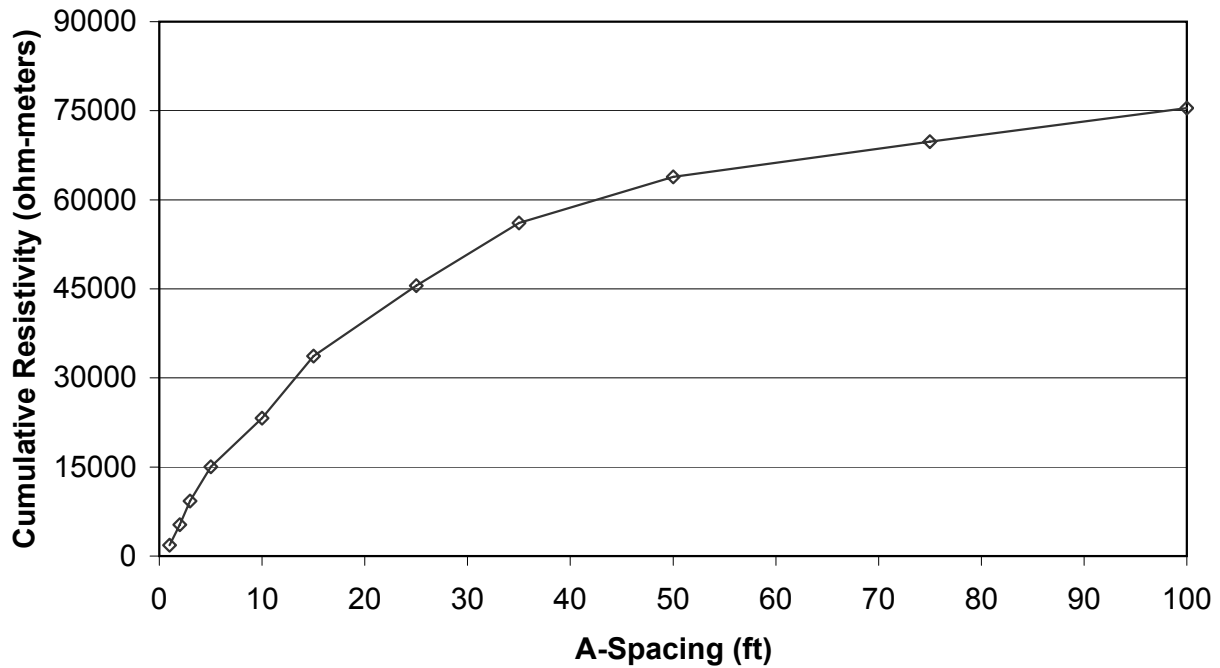
Geomean 6,059
 Min 1,806
 Max 11,808
 Median 5,930
 Std. Dev. 3,202



T-19A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	5924.089454	1805.662466	0.024112	1806
2	1	3	20	5707.899374	3479.535458	0.025026	5285
3	1.5	4.5	20	4355.652652	3982.808785	0.187547	9268
5	2.5	7.5	20	3794.281775	5782.485425	0.047059	15050
10	5	15	20	2690.541316	8200.769931	0.029864	23251
15	7.5	22.5	50	2286.240395	10452.69109	0.01562	33704
25	12.5	37.5	50	1549.630537	11808.1847	0.057612	45512
35	17.5	52.5	20	992.2299423	10585.10902	0.048489	56097
50	25	75	50	507.7733587	7738.465986	0.067135	63836
75	37.5	112.5	20	259.3943939	5929.755845	0.066395	69765
100	50	150	50	186.2716886	5677.561069	0.055356	75443

**T-19A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt19a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 6/11/2013 7:54

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	664	-1.5	1	1	50	47.142406	5924.089609	0.024112
2	724	-3	2	2	20	18.168808	11415.79912	0.025026
3	786	-4.5	3	3	20	13.864473	13066.95878	0.187547
4	851	-7.5	5	5	20	12.077574	18971.4096	0.047059
5	949	-15	10	10	20	8.564259	26905.41326	0.029864
6	1046	-22.5	15	15	50	18.193323	34293.60547	0.01562
7	1143	-37.5	25	25	50	12.331568	38740.7615	0.057612
8	1255	-52.5	35	35	20	3.158366	34728.0456	0.048489
9	1359	-75	50	50	50	4.040732	25388.67154	0.067135
10	1524	-112.5	75	75	20	0.825678	19454.57832	0.066395
11	1738	-150	100	100	50	1.482303	18627.17185	0.055356
12	1797	-150	100	100	20	0.595993	18723.67123	0.081301



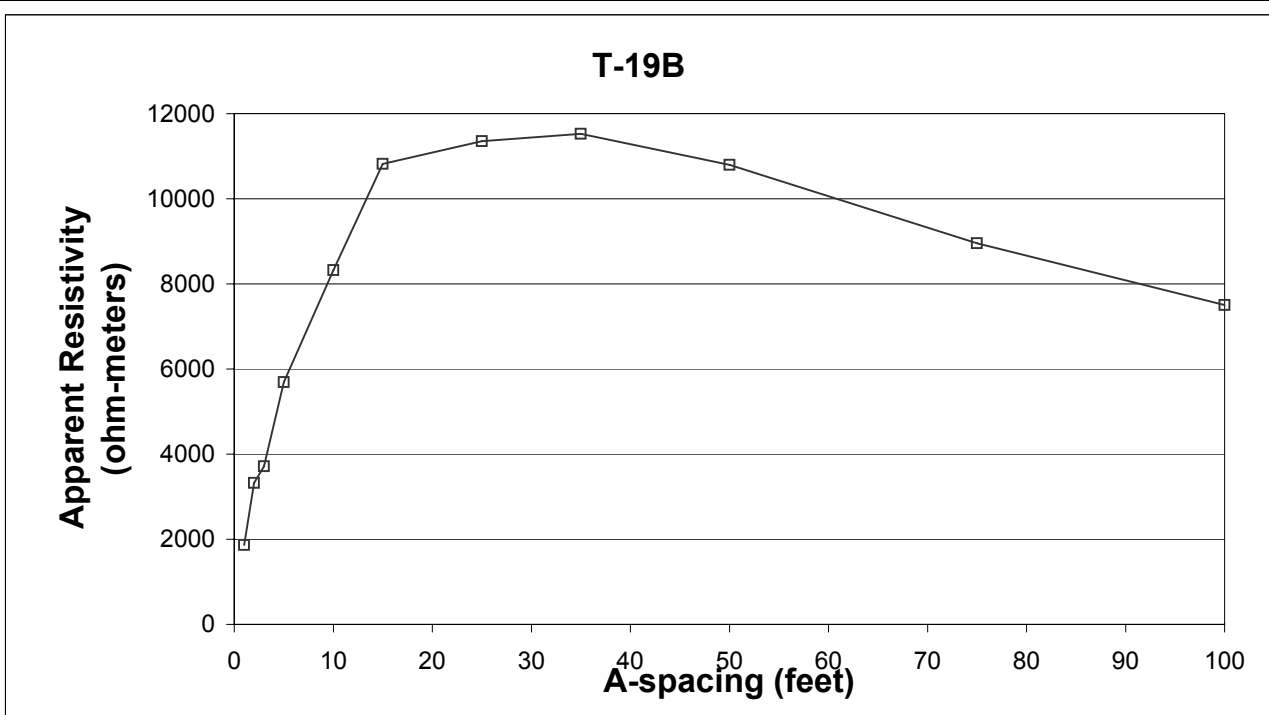
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-19B
 Orientation 252° (mag)
Shallow Bedrock, silty till, moist

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

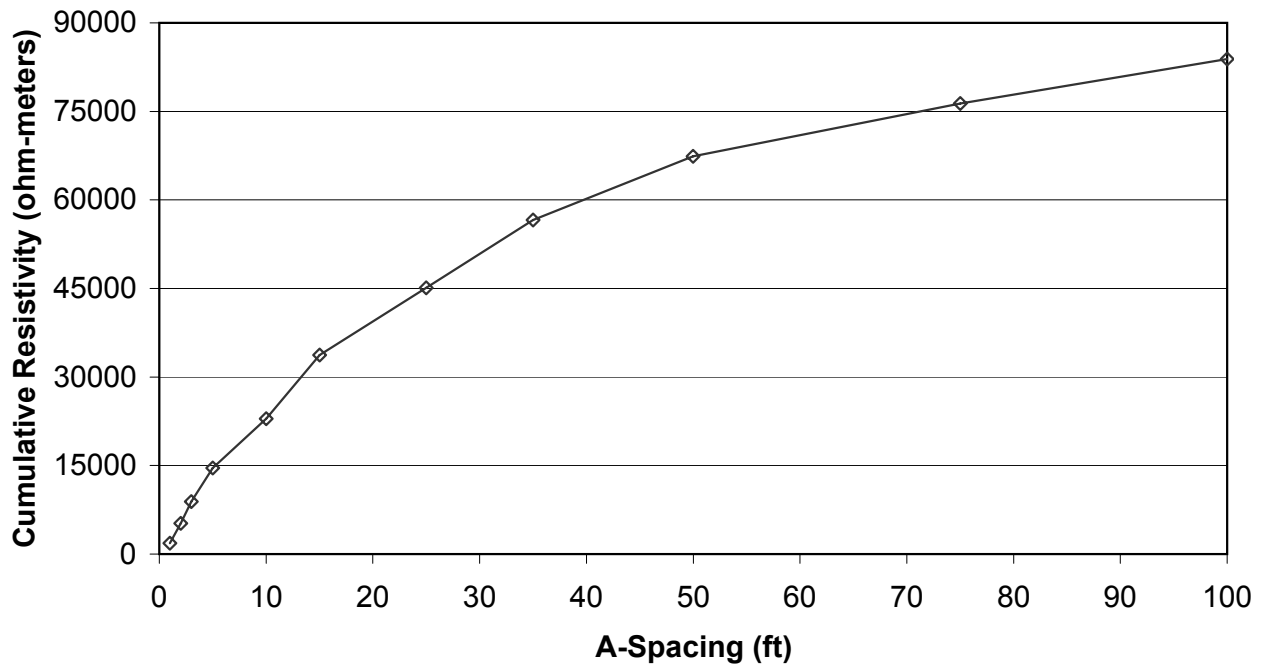
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	973.4	1,864.2	0.0470
2	1.00	3.00	20	868.5	3,326.7	0.0491
3	1.50	4.50	20	646.3	3,713.4	0.0484
5	2.50	7.50	50	594.8	5,695.2	0.0444
10	5.00	15.00	50	434.4	8,319.8	0.0379
15	7.50	22.50	50	376.5	10,816.6	0.0453
25	12.50	37.50	50	237.1	11,351.8	0.0671
35	17.50	52.50	50	172.0	11,527.5	0.0644
50	25.00	75.00	20	112.7	10,795.4	0.0467
75	37.50	112.50	20	62.3	8,952.8	0.0241
100	50.00	150.00	50	39.2	7,502.7	0.1053

Geomean 6,647
 Min 1,864
 Max 11,528
 Median 8,320
 Std. Dev. 3,497



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	6116.114153	1864.191594	0.047003	1864
2	1	3	20	5457.215674	3326.718675	0.049079	5191
3	1.5	4.5	20	4061.062996	3713.436003	0.048364	8904
5	2.5	7.5	50	3736.998854	5695.186254	0.044436	14600
10	5	15	50	2729.605198	8319.836644	0.03794	22919
15	7.5	22.5	50	2365.832896	10816.588	0.045283	33736
25	12.5	37.5	50	1489.734063	11351.77356	0.06712	45088
35	17.5	52.5	50	1080.572407	11527.54644	0.064444	56615
50	25	75	20	708.3565726	10795.35417	0.046744	67411
75	37.5	112.5	20	391.6369092	8952.819745	0.024116	76363
100	50	150	50	246.1522039	7502.719174	0.105267	83866

**T-19B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt19b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 6/11/2013 8:25

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	1782	-1.5	1	1	50	48.67049	6116.114474	0.047003
2	1863	-3	2	2	20	17.370857	10914.43131	0.049079
3	1932	-4.5	3	3	20	12.926765	12183.18912	0.048364
4	2025	-7.5	5	5	50	29.738092	18684.9943	0.044436
5	2113	-15	10	10	50	21.721508	27296.05106	0.03794
6	2207	-22.5	15	15	50	18.8267	35487.496	0.045283
7	2293	-37.5	25	25	50	11.854927	37243.35177	0.06712
8	2376	-52.5	35	35	50	8.598922	37820.03411	0.064444
9	2485	-75	50	50	20	2.254769	35417.82835	0.046744
10	2616	-112.5	75	75	20	1.246619	29372.76	0.024116
11	2755	-150	100	100	50	1.958817	24615.22165	0.105267
12	2798	-150	100	100	20	0.786338	24703.54779	0.072416



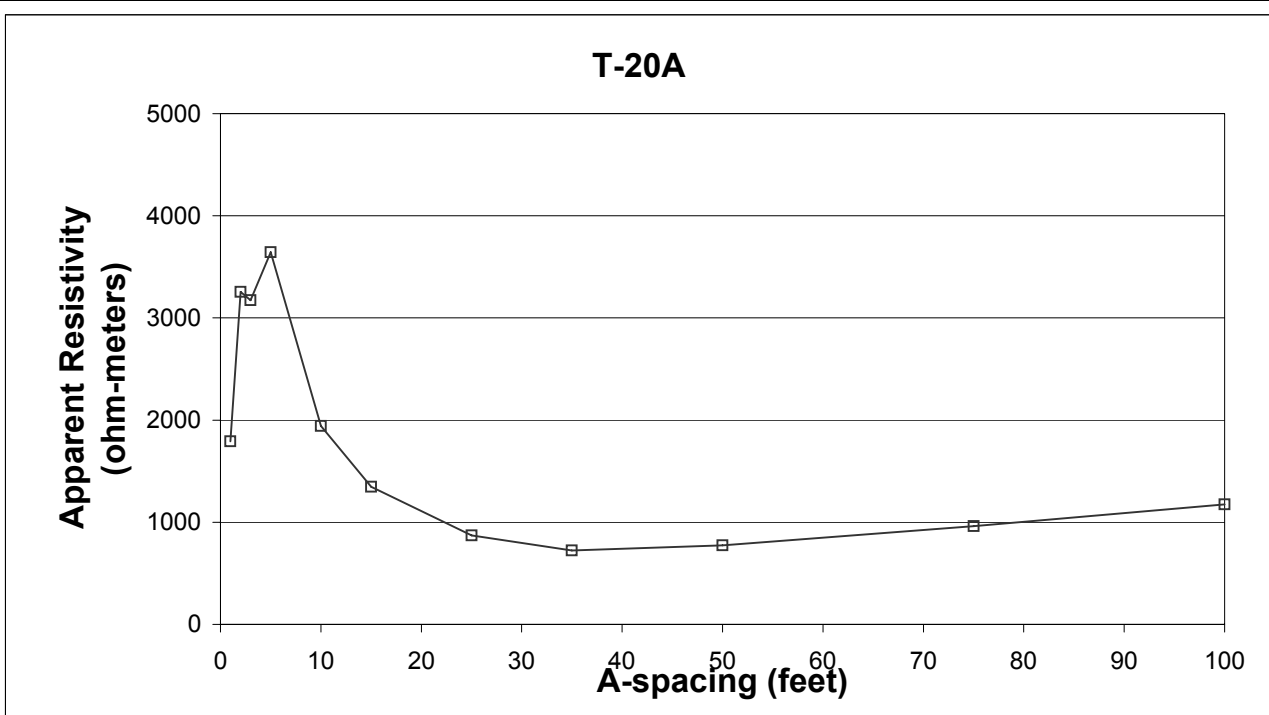
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-20A
 Orientation 028° (mag)
Shallow Bedrock, silty till, boulders, moist, tr frost

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	935.0	1,790.6	0.0646
2	1.00	3.00	20	849.7	3,254.6	0.0368
3	1.50	4.50	20	552.3	3,172.9	0.0283
5	2.50	7.50	20	380.6	3,644.8	0.0485
10	5.00	15.00	20	101.3	1,941.0	0.0075
15	7.50	22.50	20	46.9	1,348.4	0.0045
25	12.50	37.50	20	18.2	869.5	0.0058
35	17.50	52.50	20	10.8	722.6	0.0033
50	25.00	75.00	20	8.1	775.0	0.0131
75	37.50	112.50	20	6.7	962.9	0.0071
100	50.00	150.00	20	6.1	1,173.8	0.0352

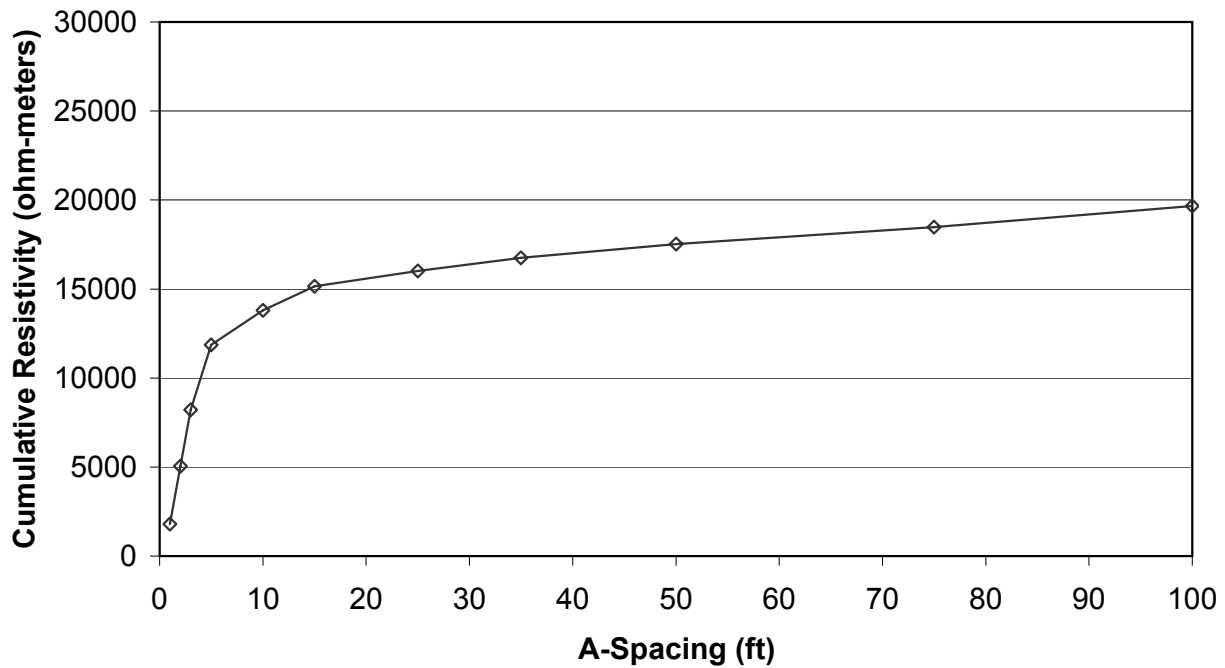
Geomean 1,516
 Min 723
 Max 3,645
 Median 1,348
 Std. Dev. 1,086



T-20A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	5874.527563	1790.556001	0.064589	1791
2	1	3	20	5338.912405	3254.601002	0.036788	5045
3	1.5	4.5	20	3469.926785	3172.901052	0.028302	8218
5	2.5	7.5	20	2391.57385	3644.758547	0.048505	11863
10	5	15	20	636.7983176	1940.961272	0.007503	13804
15	7.5	22.5	20	294.9317758	1348.428079	0.004521	15152
25	12.5	37.5	20	114.110185	869.5196097	0.005842	16022
35	17.5	52.5	20	67.73116682	722.5560876	0.003281	16744
50	25	75	20	50.85453108	775.0230537	0.01311	17519
75	37.5	112.5	20	42.12341678	962.9413075	0.007102	18482
100	50	150	20	38.5115277	1173.831364	0.035173	19656

**T-20A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt20a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 6/11/2013 9:59

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	56	-1.5	1	1	20	18.699202	5874.527456	0.064589
2	141	-3	2	2	20	16.994286	10677.82397	0.036788
3	188	-4.5	3	3	20	11.04512	10409.78001	0.028302
4	262	-7.5	5	5	20	7.612616	11957.8692	0.048505
5	350	-15	10	10	20	2.026992	6367.984245	0.007503
6	440	-22.5	15	15	20	0.938797	4423.977702	0.004521
7	542	-37.5	25	25	20	0.363224	2852.757553	0.005842
8	663	-52.5	35	35	20	0.215595	2370.588084	0.003281
9	778	-75	50	50	20	0.161875	2542.724756	0.01311
10	1090	-112.5	75	75	20	0.134083	3159.261745	0.007102
11	1286	-150	100	100	20	0.122586	3851.157338	0.035173
12	1370	-150	100	100	10	0.06143	3859.746432	0.006459



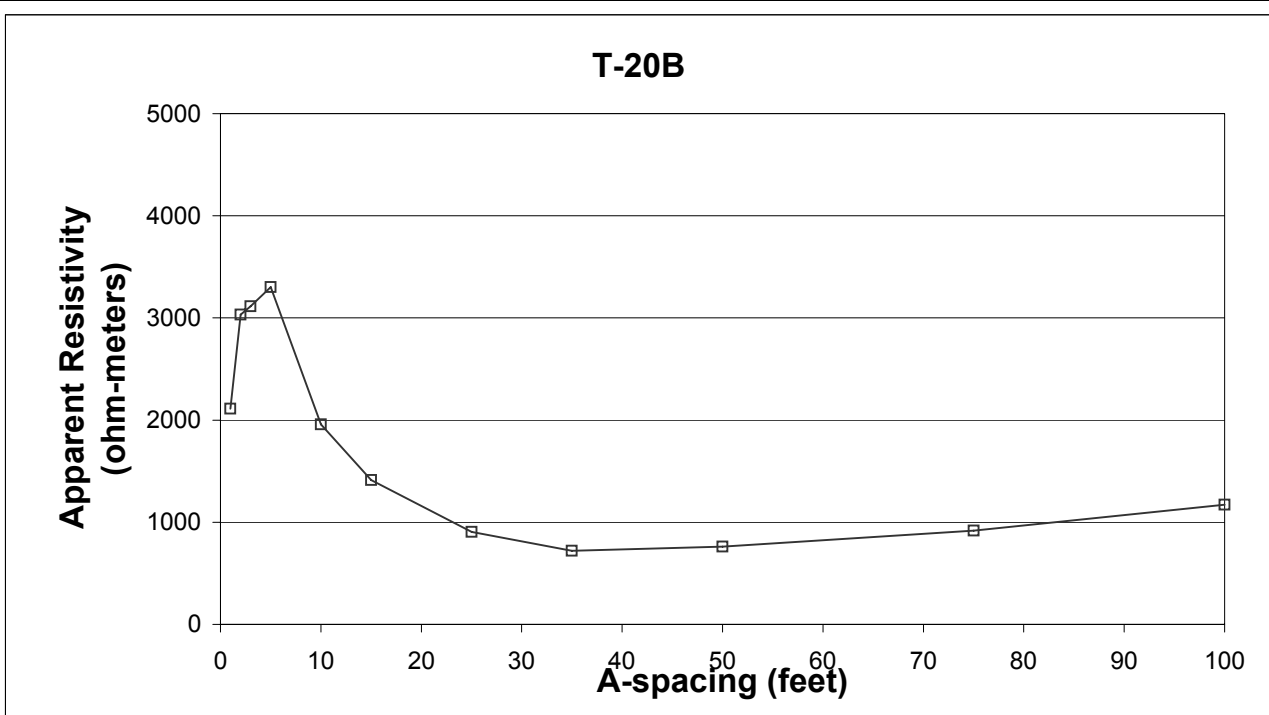
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-20B
 Orientation 290° (mag)
Shallow Bedrock, silty till, moist

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1102.7	2,111.8	0.0792
2	1.00	3.00	20	791.9	3,033.2	0.0960
3	1.50	4.50	20	541.9	3,113.6	0.0734
5	2.50	7.50	20	345.0	3,303.5	0.0289
10	5.00	15.00	20	102.2	1,957.5	0.0033
15	7.50	22.50	20	49.1	1,411.6	0.0036
25	12.50	37.50	50	18.9	904.8	0.0045
35	17.50	52.50	50	10.7	719.6	0.0158
50	25.00	75.00	50	8.0	762.7	0.0169
75	37.50	112.50	50	6.4	917.7	0.0144
100	50.00	150.00	50	6.1	1,171.3	0.0347

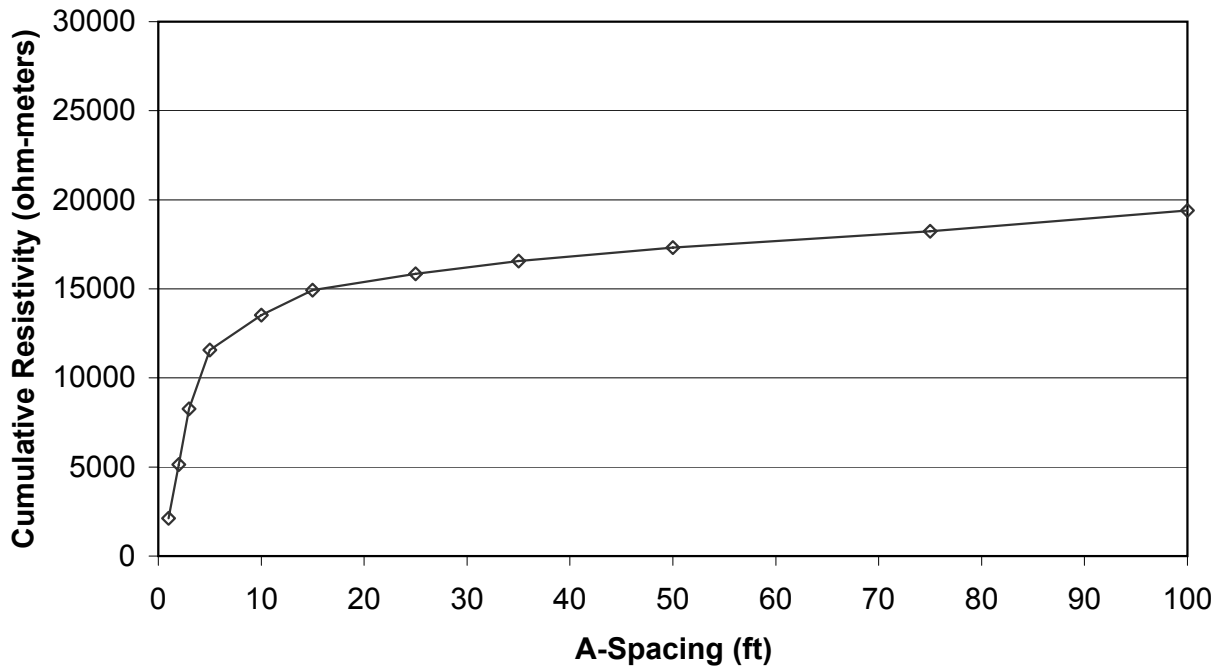
Geomean 1,516
 Min 720
 Max 3,303
 Median 1,412
 Std. Dev. 999



T-20B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6928.522788	2111.813746	0.079246	2112
2	1	3	20	4975.702197	3033.188059	0.095993	5145
3	1.5	4.5	20	3405.030906	3113.56026	0.073414	8259
5	2.5	7.5	20	2167.625104	3303.460658	0.02886	11562
10	5	15	20	642.2166225	1957.476265	0.003287	13519
15	7.5	22.5	20	308.7554118	1411.629743	0.003599	14931
25	12.5	37.5	50	118.7415209	904.8103892	0.004492	15836
35	17.5	52.5	50	67.45049693	719.5619012	0.015814	16556
50	25	75	50	50.04494265	762.684926	0.016874	17318
75	37.5	112.5	50	40.14590987	917.7354995	0.014392	18236
100	50	150	50	38.42771001	1171.276601	0.034698	19407

T-20B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt20b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 6/11/2013 10:25

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	548	-1.5	1	1	20	22.054173	6928.522588	0.079246
2	629	-3	2	2	20	15.838152	9951.404303	0.095993
3	697	-4.5	3	3	20	10.83855	10215.09253	0.073414
4	762	-7.5	5	5	20	6.899765	10838.12458	0.02886
5	848	-15	10	10	20	2.044239	6422.164925	0.003287
6	927	-22.5	15	15	20	0.982799	4631.329001	0.003599
7	1026	-37.5	25	25	50	0.944915	2968.536551	0.004492
8	1125	-52.5	35	35	50	0.536754	2360.765453	0.015814
9	1234	-75	50	50	50	0.398245	2502.24594	0.016874
10	1370	-112.5	75	75	50	0.319471	3010.940109	0.014392
11	1518	-150	100	100	50	0.305798	3842.772575	0.034698
12	1562	-150	100	100	20	0.122293	3841.945364	0.08133



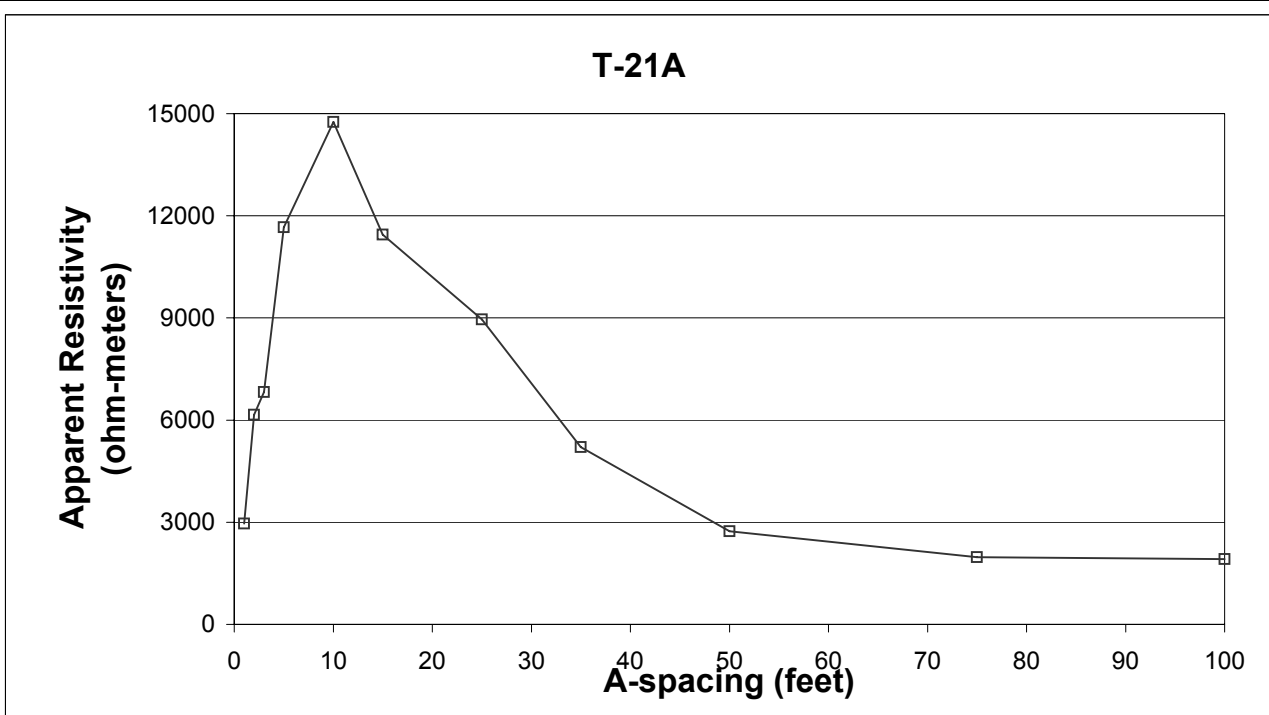
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-21A
 Orientation 338° (mag)
No Outcrop, Shallow water

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	1547.0	2,962.7	0.0404
2	1.00	3.00	10	1607.6	6,157.4	0.0177
3	1.50	4.50	10	1188.1	6,826.0	0.0466
5	2.50	7.50	10	1217.7	11,659.8	0.0467
10	5.00	15.00	20	770.7	14,759.8	0.0332
15	7.50	22.50	20	398.6	11,450.6	0.0392
25	12.50	37.50	20	187.1	8,959.1	0.0344
35	17.50	52.50	20	77.7	5,209.6	0.0307
50	25.00	75.00	20	28.6	2,736.3	0.0483
75	37.50	112.50	10	13.7	1,972.6	0.0850
100	50.00	150.00	20	10.0	1,914.1	0.0902

Geomean 5,419
 Min 1,914
 Max 14,760
 Median 6,157
 Std. Dev. 4,412

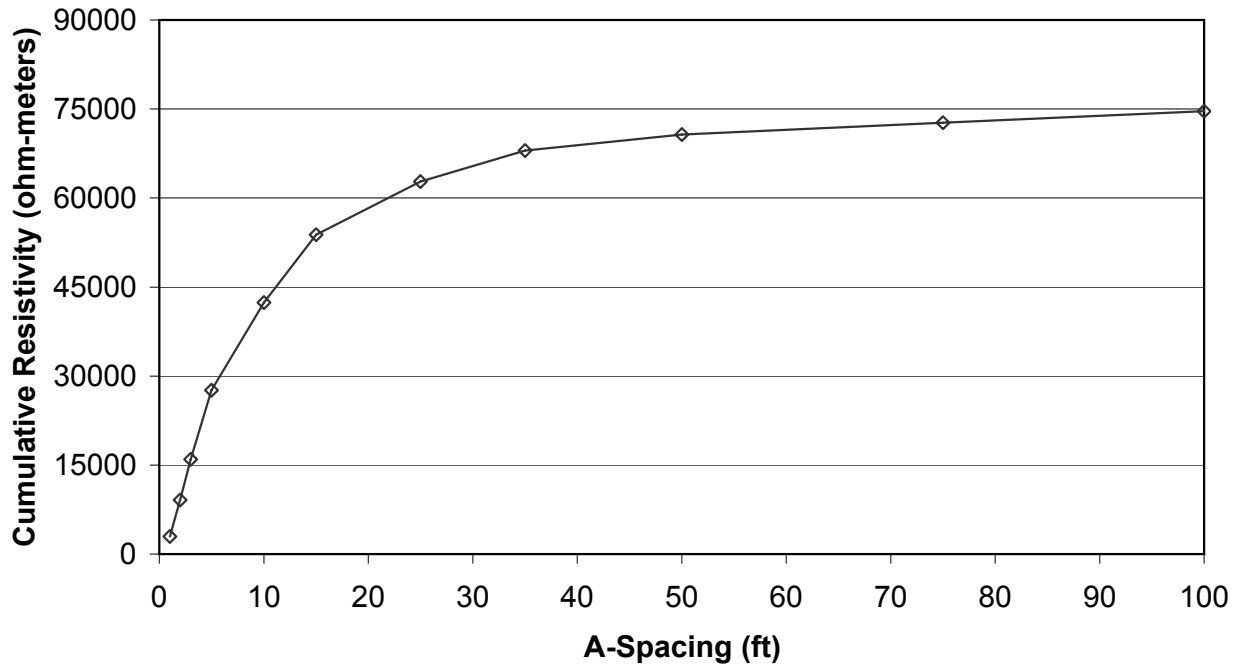


Cumulative Resistivity Sheet

T-21A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	9720.163697	2962.705895	0.040413	2963
2	1	3	10	10100.70356	6157.388889	0.017677	9120
3	1.5	4.5	10	7465.021048	6826.015246	0.046642	15946
5	2.5	7.5	10	7650.808554	11659.83224	0.046676	27606
10	5	15	20	4842.469137	14759.84593	0.033185	42366
15	7.5	22.5	20	2504.501225	11450.5796	0.039211	53816
25	12.5	37.5	20	1175.737595	8959.120473	0.0344	62775
35	17.5	52.5	20	488.3426709	5209.639613	0.030717	67985
50	25	75	20	179.5470467	2736.296992	0.04827	70721
75	37.5	112.5	10	86.2894971	1972.577904	0.085007	72694
100	50	150	20	62.79918051	1914.119022	0.090236	74608

T-21A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt21a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 6/11/2013 12:57

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	237	-1.5	1	1	10	15.470121	9720.163602	0.040413
2	309	-3	2	2	10	16.075769	20201.40717	0.017677
3	459	-4.5	3	3	10	11.88095	22395.06259	0.046642
4	525	-7.5	5	5	10	12.17664	38254.0409	0.046676
5	657	-15	10	10	20	15.414058	48424.69017	0.033185
6	740	-22.5	15	15	20	7.972075	37567.5193	0.039211
7	867	-37.5	25	25	20	3.742489	29393.44238	0.0344
8	994	-52.5	35	35	20	1.554443	17091.98737	0.030717
9	1155	-75	50	50	20	0.571516	8977.358908	0.04827
10	1318	-112.5	75	75	10	0.137334	6471.735365	0.085007
11	1471	-150	100	100	20	0.199896	6279.93159	0.090236
12	1526	-150	100	100	10	0.099534	6253.900655	0.085044



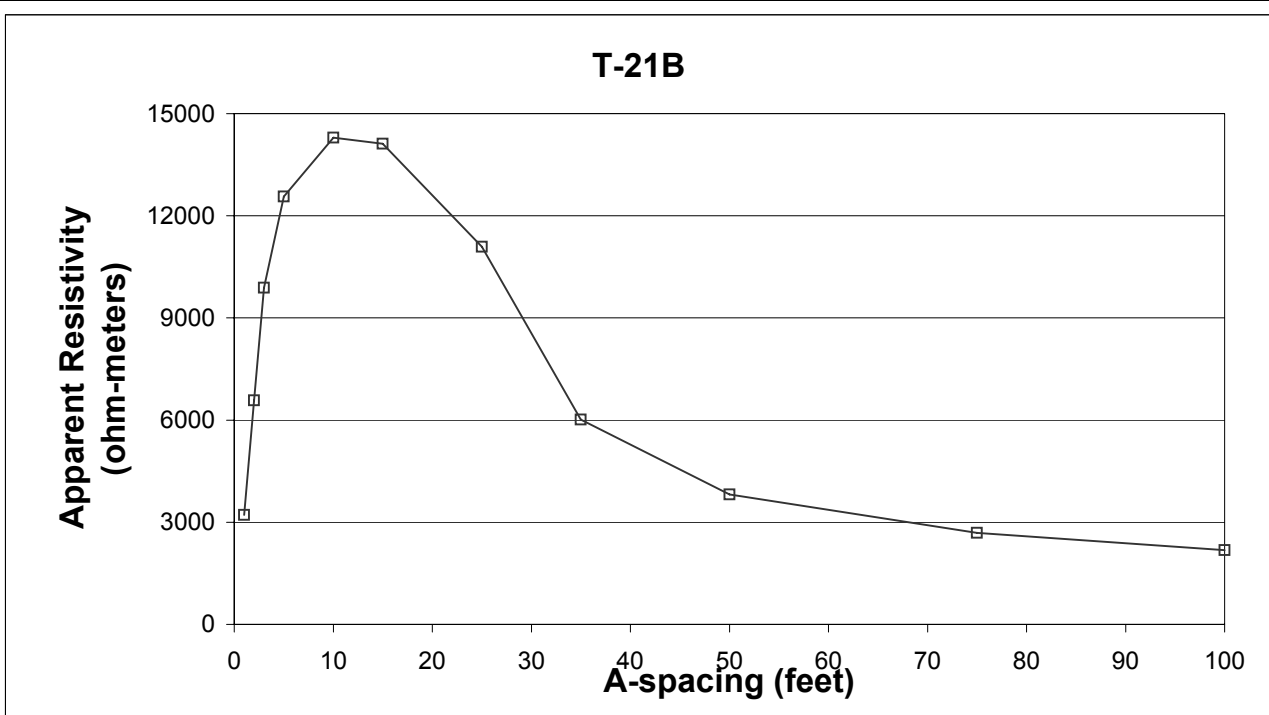
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-21B
 Orientation 088° (mag)
No Outcrop, Shallow water

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1676.2	3,210.0	0.0335
2	1.00	3.00	20	1716.6	6,575.0	0.0306
3	1.50	4.50	20	1720.4	9,884.1	0.0335
5	2.50	7.50	10	1312.7	12,570.2	0.0758
10	5.00	15.00	20	746.4	14,294.7	0.0466
15	7.50	22.50	20	491.3	14,113.1	0.0781
25	12.50	37.50	10	231.5	11,086.1	0.1190
35	17.50	52.50	20	89.8	6,018.3	0.1560
50	25.00	75.00	10	39.9	3,820.0	0.0931
75	37.50	112.50	20	18.7	2,686.2	0.1040
100	50.00	150.00	20	11.4	2,183.1	0.0248

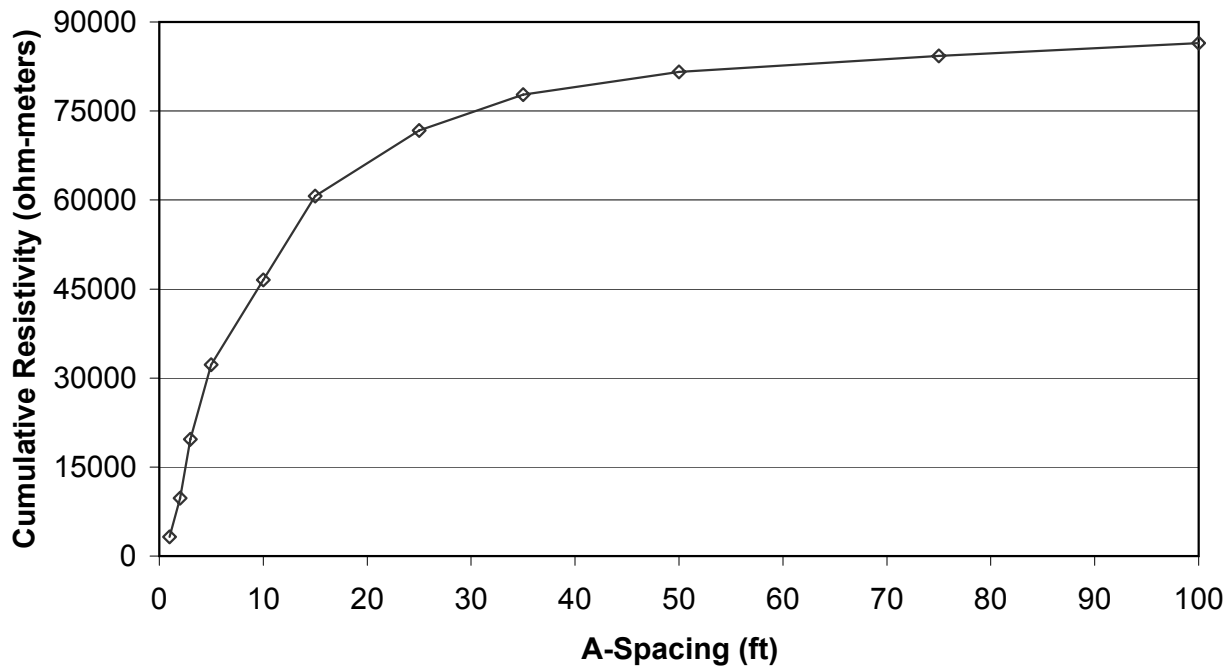
Geomean 6,440
 Min 2,183
 Max 14,295
 Median 6,575
 Std. Dev. 4,682



T-21B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	10531.58713	3210.027757	0.033485	3210
2	1	3	20	10785.83842	6575.047101	0.030626	9785
3	1.5	4.5	20	10809.41607	9884.130057	0.03345	19669
5	2.5	7.5	10	8248.131503	12570.15241	0.075768	32239
10	5	15	20	4689.855593	14294.67985	0.046639	46534
15	7.5	22.5	20	3086.86234	14113.13462	0.078089	60647
25	12.5	37.5	10	1454.87093	11086.11648	0.118989	71733
35	17.5	52.5	20	564.1496158	6018.348101	0.15599	77752
50	25	75	10	250.6551115	3819.983899	0.093091	81572
75	37.5	112.5	20	117.5059325	2686.185617	0.104015	84258
100	50	150	20	71.62485675	2183.125634	0.024821	86441

**T-21B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt21b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 6/11/2013 13:24

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	479	-1.5	1	1	20	33.523083	10531.58652	0.033485
2	542	-3	2	2	20	34.33239	21571.67693	0.030626
3	597	-4.5	3	3	20	34.40744	32428.24955	0.03345
4	706	-7.5	5	5	10	13.127309	41240.65547	0.075768
5	752	-15	10	10	20	14.928274	46898.5557	0.046639
6	816	-22.5	15	15	20	9.825788	46302.93493	0.078089
7	891	-37.5	25	25	10	2.315499	36371.77265	0.118989
8	972	-52.5	35	35	20	1.795744	19745.24011	0.15599
9	1088	-75	50	50	10	0.39893	12532.75846	0.093091
10	1197	-112.5	75	75	20	0.374033	8812.953319	0.104015
11	1295	-150	100	100	20	0.227989	7162.496051	0.024821
12	1330	-150	100	100	10	0.113673	7142.288251	0.042042



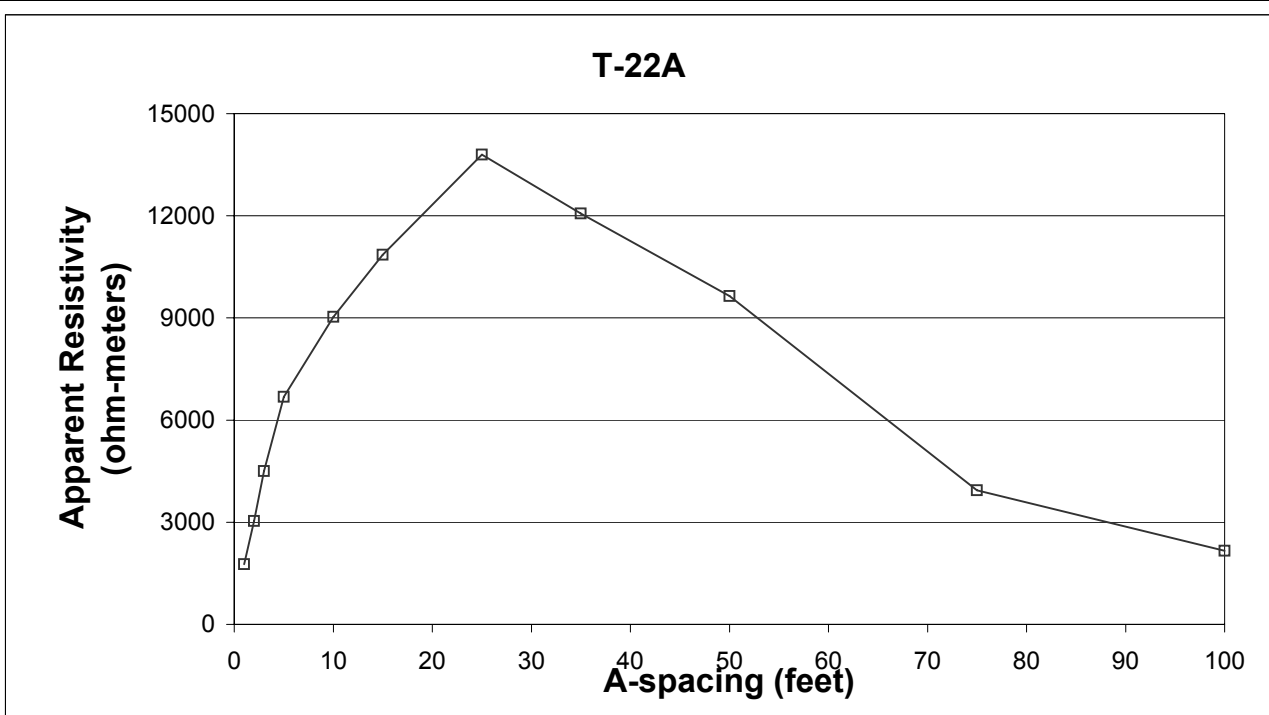
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-22A
 Orientation 335° (mag)
No Outcrop, Shallow bedrock

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	920.3	1,762.5	0.0509
2	1.00	3.00	20	792.0	3,033.7	0.0404
3	1.50	4.50	20	783.1	4,499.3	0.1442
5	2.50	7.50	20	697.8	6,682.1	0.0367
10	5.00	15.00	50	471.5	9,030.0	0.0446
15	7.50	22.50	50	378.0	10,857.6	0.0684
25	12.50	37.50	50	288.1	13,793.3	0.0454
35	17.50	52.50	20	180.0	12,064.9	0.0618
50	25.00	75.00	20	100.7	9,646.4	0.0521
75	37.50	112.50	50	27.4	3,934.2	0.1154
100	50.00	150.00	20	11.3	2,160.3	0.0596

Geomean 5,721
 Min 1,763
 Max 13,793
 Median 6,682
 Std. Dev. 4,244

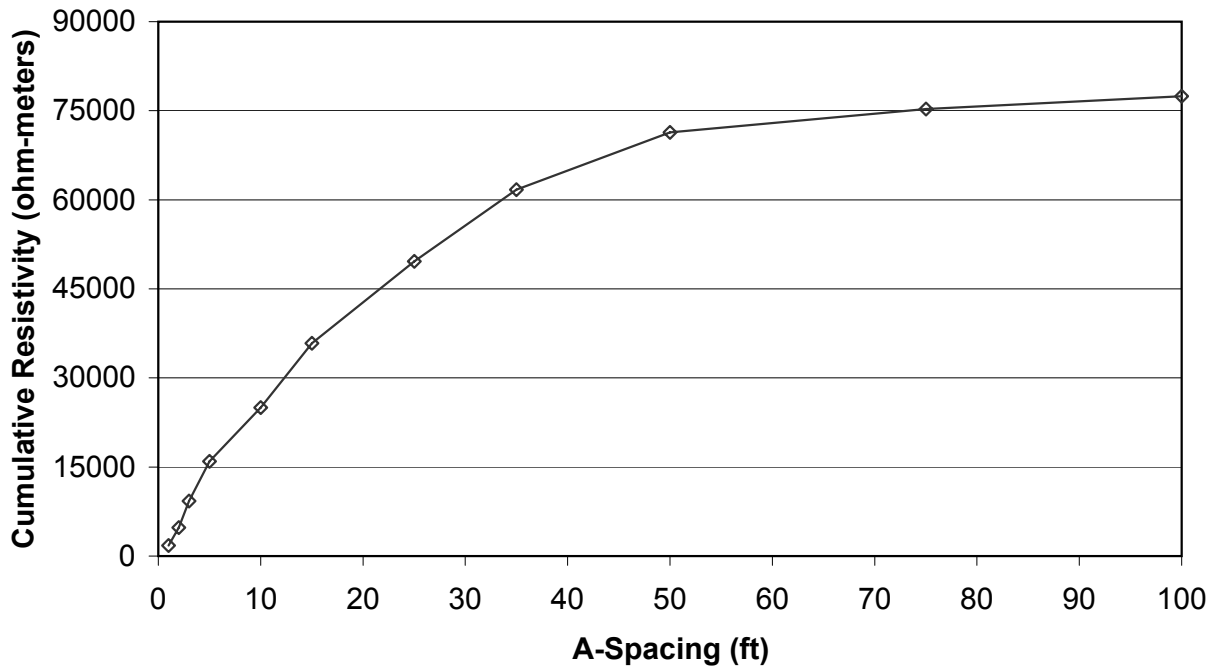


Cumulative Resistivity Sheet

T-22A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	5782.517226	1762.51125	0.050949	1763
2	1	3	20	4976.522781	3033.688287	0.040364	4796
3	1.5	4.5	20	4920.464516	4499.272753	0.144245	9295
5	2.5	7.5	20	4384.597402	6682.126441	0.036651	15978
10	5	15	50	2962.600286	9030.005673	0.044599	25008
15	7.5	22.5	50	2374.809809	10857.63045	0.06842	35865
25	12.5	37.5	50	1810.149747	13793.34107	0.045375	49659
35	17.5	52.5	20	1130.946338	12064.93553	0.061798	61724
50	25	75	20	632.9690303	9646.448022	0.052136	71370
75	37.5	112.5	50	172.0982049	3934.164963	0.11544	75304
100	50	150	20	70.87684354	2160.326191	0.059572	77464

T-22A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt22a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 6/11/2013 14:09

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	44	-1.5	1	1	20	18.406324	5782.517371	0.050949
2	105	-3	2	2	20	15.840764	9953.045663	0.040364
4	212	-4.5	3	3	20	15.662325	14761.39396	0.144245
6	305	-7.5	5	5	20	13.956607	21922.98614	0.036651
7	430	-15	10	10	50	23.575624	29626.00489	0.044599
8	476	-22.5	15	15	50	18.898136	35622.14883	0.06842
9	536	-37.5	25	25	50	14.404714	45253.74192	0.045375
10	599	-52.5	35	35	20	3.599914	39583.12116	0.061798
11	669	-75	50	50	20	2.014803	31648.44686	0.052136
12	749	-112.5	75	75	50	1.369514	12907.36705	0.11544
13	830	-150	100	100	20	0.225608	7087.698909	0.059572
3	160	-4.5	3	3	20	11.784396	11106.53249	62.29456
5	269	-7.5	5	5	20	0.342069	537.320753	25.23866
14	876	-150	100	100	10	0.113152	7109.540758	0.093772



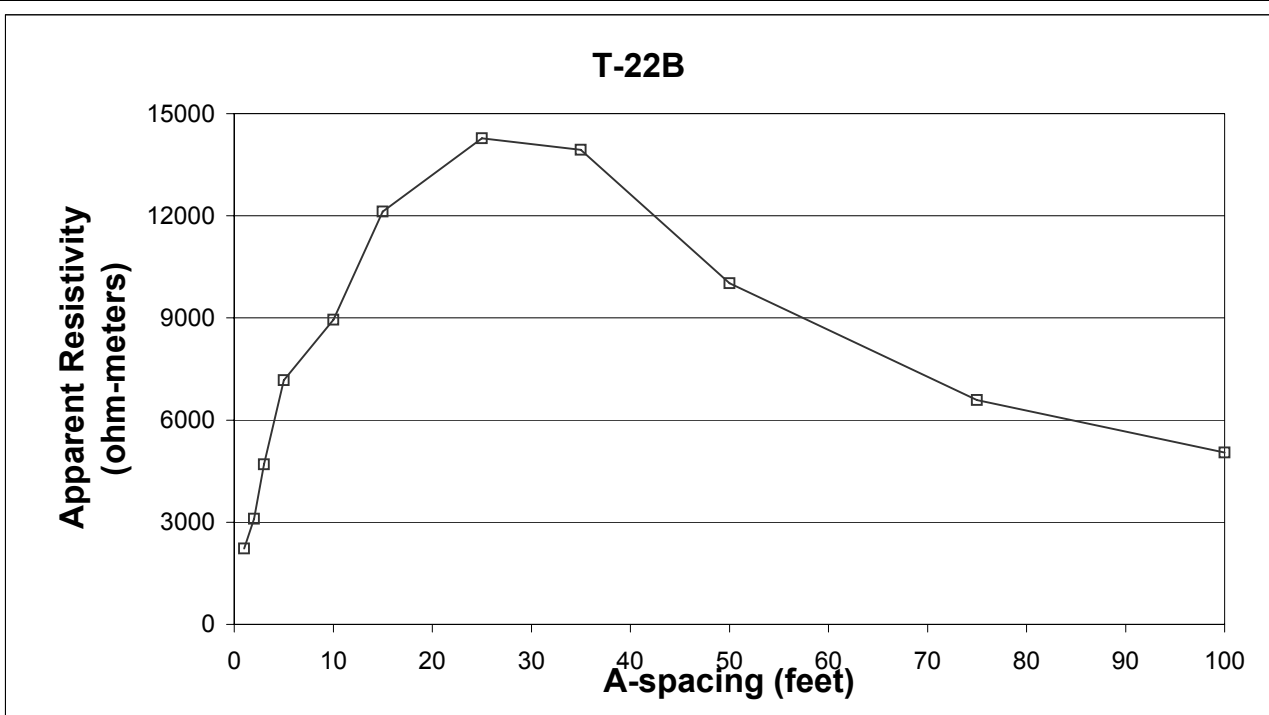
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-22B
 Orientation 089° (mag)
No Outcrop, Shallow bedrock

Date 11/06/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1161.7	2,224.9	0.0446
2	1.00	3.00	20	809.8	3,101.8	0.0544
3	1.50	4.50	20	818.1	4,700.0	0.0495
5	2.50	7.50	20	748.6	7,168.4	0.0664
10	5.00	15.00	20	467.2	8,946.8	0.0760
15	7.50	22.50	50	422.2	12,127.7	0.0390
25	12.50	37.50	20	298.2	14,278.0	0.0403
35	17.50	52.50	50	207.9	13,936.6	0.0533
50	25.00	75.00	20	104.6	10,016.6	0.0715
75	37.50	112.50	10	45.9	6,586.1	0.0370
100	50.00	150.00	20	26.3	5,046.3	0.0423

Geomean 6,894
 Min 2,225
 Max 14,278
 Median 7,168
 Std. Dev. 4,199

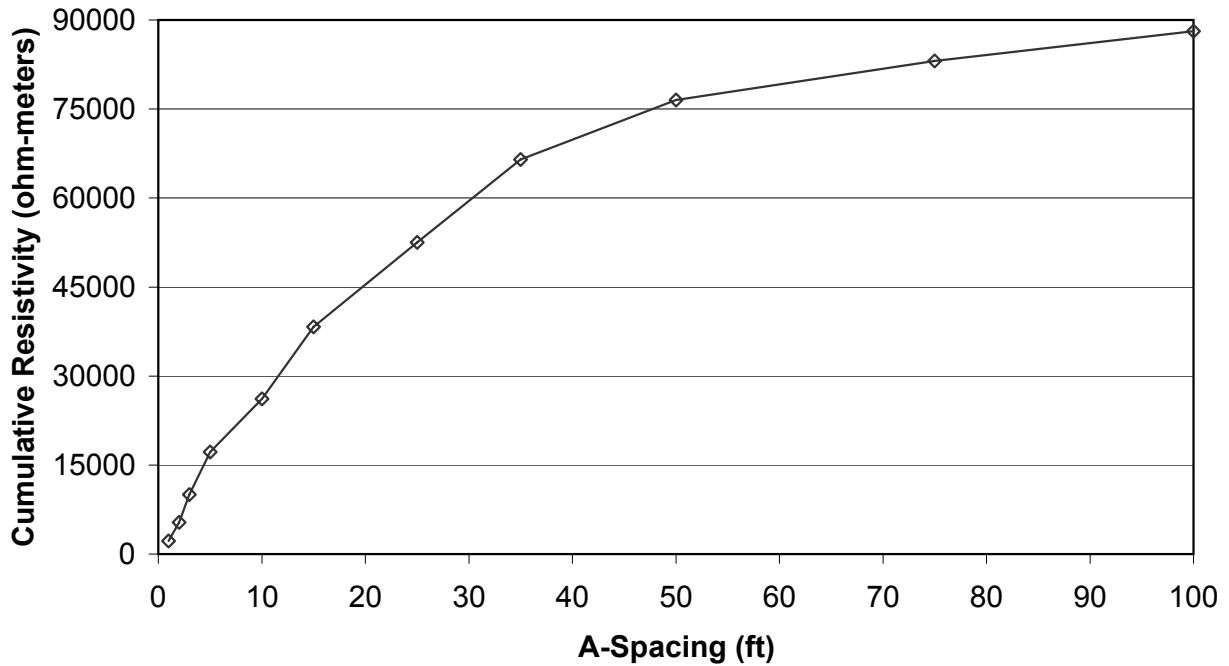


Cumulative Resistivity Sheet

T-22B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7299.466026	2224.877245	0.044642	2225
2	1	3	20	5088.292165	3101.822904	0.054391	5327
3	1.5	4.5	20	5139.962882	4699.982059	0.049502	10027
5	2.5	7.5	20	4703.64907	7168.361182	0.066432	17195
10	5	15	20	2935.290861	8946.766545	0.076038	26142
15	7.5	22.5	50	2652.613559	12127.74919	0.039041	38270
25	12.5	37.5	20	1873.7555	14278.01691	0.040265	52548
35	17.5	52.5	50	1306.395993	13936.63246	0.053304	66484
50	25	75	20	657.2560548	10016.58228	0.071511	76501
75	37.5	112.5	10	288.1060375	6586.104017	0.037024	83087
100	50	150	20	165.5594196	5046.251108	0.042282	88133

T-22B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt22b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 6/11/2013 14:35

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	198	-1.5	1	1	20	23.234922	7299.465987	0.044642
2	257	-3	2	2	20	16.196537	10176.58425	0.054391
3	359	-4.5	3	3	20	16.36101	15419.8882	0.049502
4	425	-7.5	5	5	20	14.97218	23518.24562	0.066432
5	498	-15	10	10	20	9.343321	29352.91029	0.076038
6	583	-22.5	15	15	50	21.108828	39789.20477	0.039041
7	669	-37.5	25	25	20	5.964349	46843.88558	0.040265
8	830	-52.5	35	35	50	10.395969	45723.86149	0.053304
9	983	-75	50	50	20	2.092111	32862.80837	0.071511
10	1127	-112.5	75	75	10	0.458535	21607.93501	0.037024
11	1284	-150	100	100	20	0.526992	16555.95504	0.042282
12	1344	-150	100	100	10	0.2643	16606.47574	0.033455



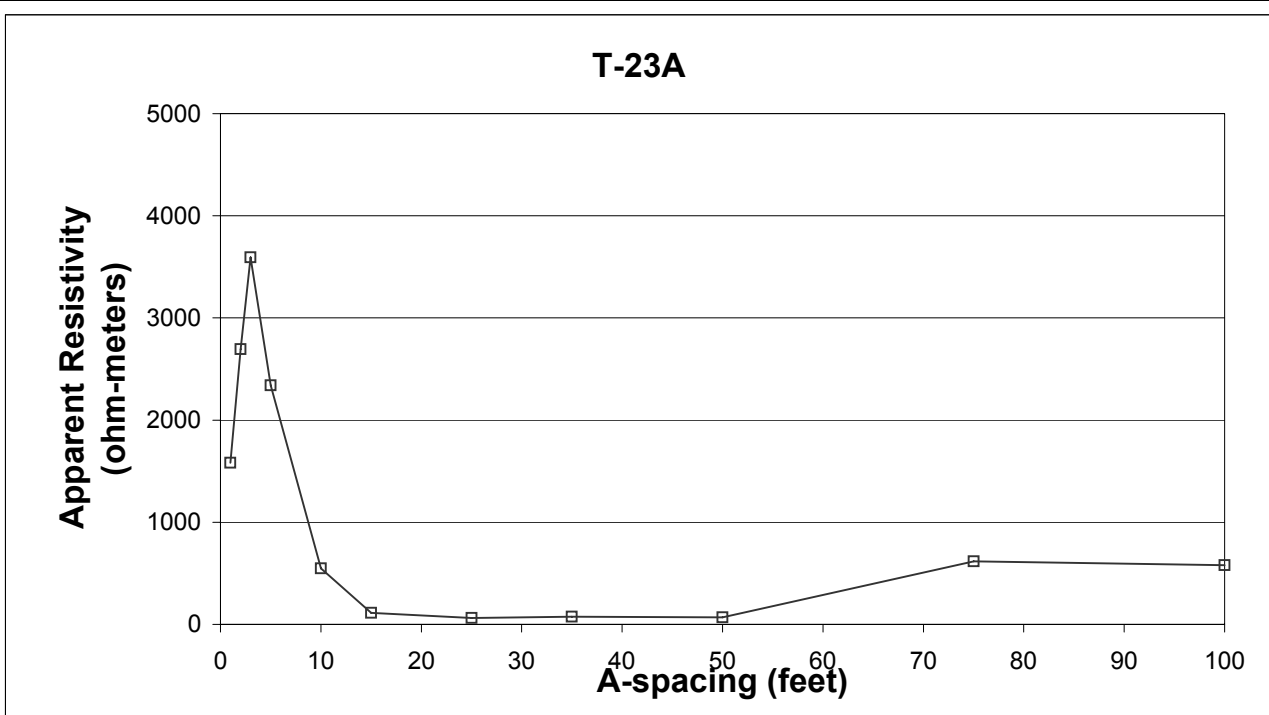
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-23A**
 Orientation **030° (mag)**
Outcrop and Shallow bedrock

Date **11/07/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	826.4	1,582.6	0.1290
2	1.00	3.00	20	703.5	2,694.7	0.1232
3	1.50	4.50	20	625.3	3,592.8	0.1363
5	2.50	7.50	20	244.4	2,340.5	0.0240
10	5.00	15.00	100	28.5	546.7	0.3267
15	7.50	22.50	20	4.0	114.1	0.5121
25	12.50	37.50	20	1.3	62.3	6.4122
35	17.50	52.50	20	1.1	74.1	0.2879
50	25.00	75.00	20	0.7	69.6	0.2432
75	37.50	112.50	20	4.3	615.6	0.2888
100	50.00	150.00	20	3.0	580.7	0.1374

Geomean 472
 Min 62
 Max 3,593
 Median 581
 Std. Dev. 1,245



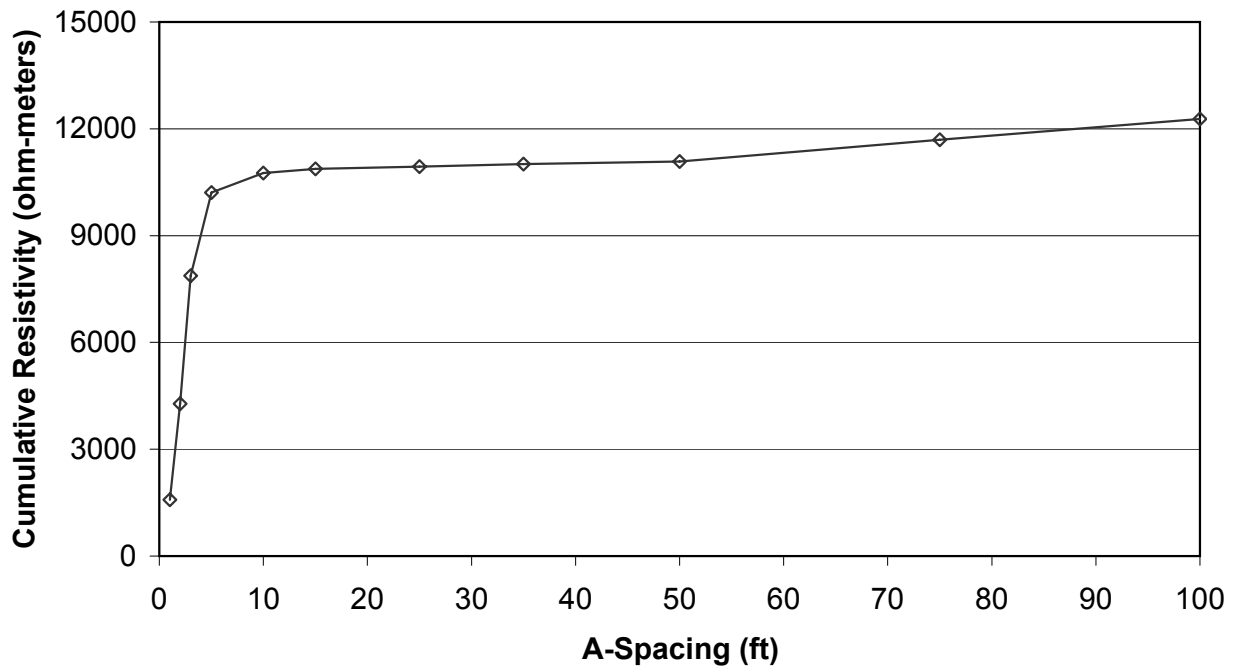
Cumulative Resistivity Sheet

T-23A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Error	Cumulative Resistivity
1	0.5	1.5	20	5192.265059	1582.60239	0.128957	1583
2	1	3	20	4420.391138	2694.670438	0.1232	4277
3	1.5	4.5	20	3929.124273	3592.791235	0.136332	7870
5	2.5	7.5	20	1535.78579	2340.537544	0.02402	10211
10	5	15	100	179.3631379	546.6988442	0.326718	10757
15	7.5	22.5	20	24.95115717	114.0766906	0.512122	10871
25	12.5	37.5	20	8.174424085	62.28911152	6.412206	10934
35	17.5	52.5	20	6.947003835	74.11063691	0.287897	11008
50	25	75	20	4.569446515	69.63836488	0.243159	11077
75	37.5	112.5	20	26.93036055	615.6280421	0.288817	11693
100	50	150	20	19.05250281	580.7202856	0.137395	12274

T-23A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt23a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 7/11/2013 10:11

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	116	-1.5	1	1	20	16.527493	5192.264957	0.128957
3	204	-3	2	2	20	14.070542	8840.782271	0.1232
4	272	-4.5	3	3	20	12.506791	11787.3726	0.136332
5	348	-7.5	5	5	20	4.888558	7678.929978	0.02402
6	455	-15	10	10	100	2.854653	1793.631604	0.326718
7	595	-22.5	15	15	20	0.079422	374.26676	0.512122
10	1244	-37.5	25	25	20	0.02602	204.35798	6.412206
11	1558	-52.5	35	35	20	0.022113	243.147115	0.287897
12	1920	-75	50	50	20	0.014545	228.478312	0.243159
13	2191	-112.5	75	75	20	0.085722	2019.770258	0.288817
14	2438	-150	100	100	20	0.060646	1905.259566	0.137395
1	58	0	0	0	20	16.503881	inf	0.495043
8	785	-37.5	25	25	20	0.026409	207.413621	6.789096
9	958	-37.5	25	25	20	0.029258	229.793824	16.89542
15	2505	-150	100	100	10	0.030341	1906.378143	0.244406



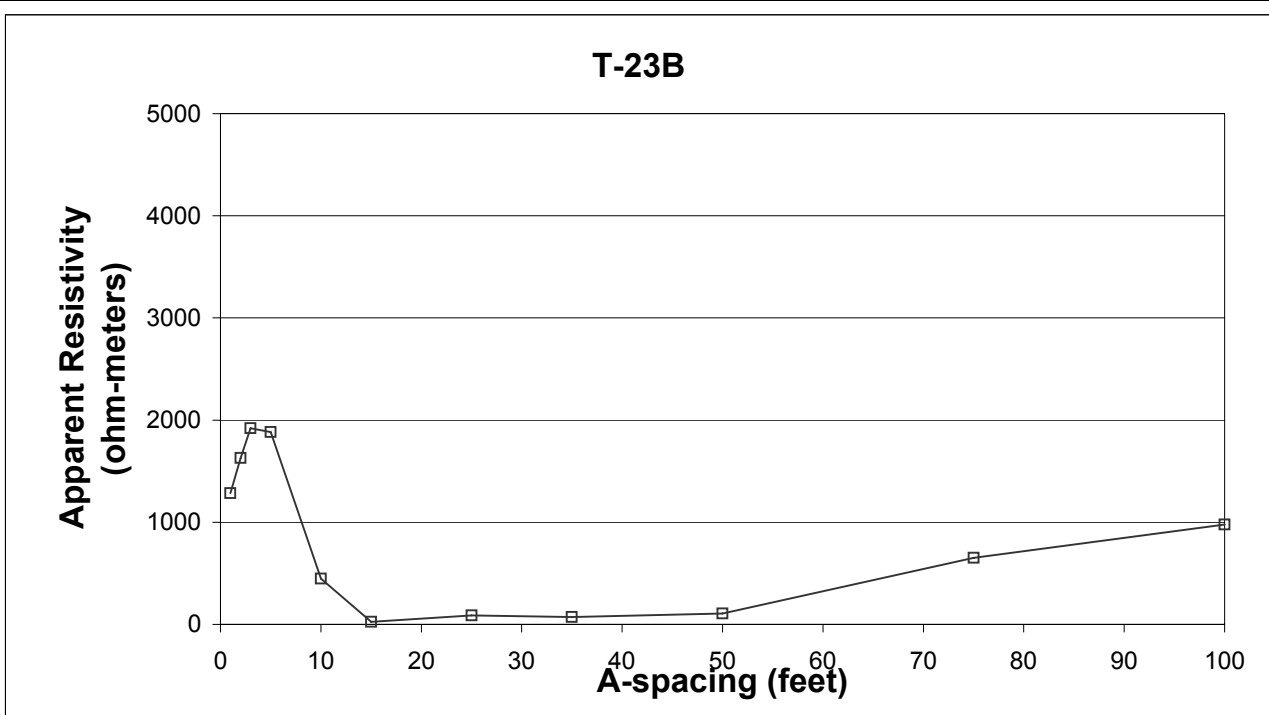
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-23B
 Orientation 320° (mag)
Outcrop and Shallow bedrock

Date 11/07/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	671.4	1,285.9	0.2000
2	1.00	3.00	20	425.0	1,628.0	0.2407
3	1.50	4.50	20	334.1	1,919.5	0.3093
5	2.50	7.50	20	196.8	1,884.1	0.2571
10	5.00	15.00	20	23.4	447.8	0.1444
15	7.50	22.50	50	0.9	26.6	0.6667
25	12.50	37.50	20	1.9	88.9	0.2095
35	17.50	52.50	20	1.1	72.7	0.7990
50	25.00	75.00	50	1.1	106.2	0.5166
75	37.50	112.50	20	4.5	652.6	0.6189
100	50.00	150.00	20	5.1	976.8	0.0297

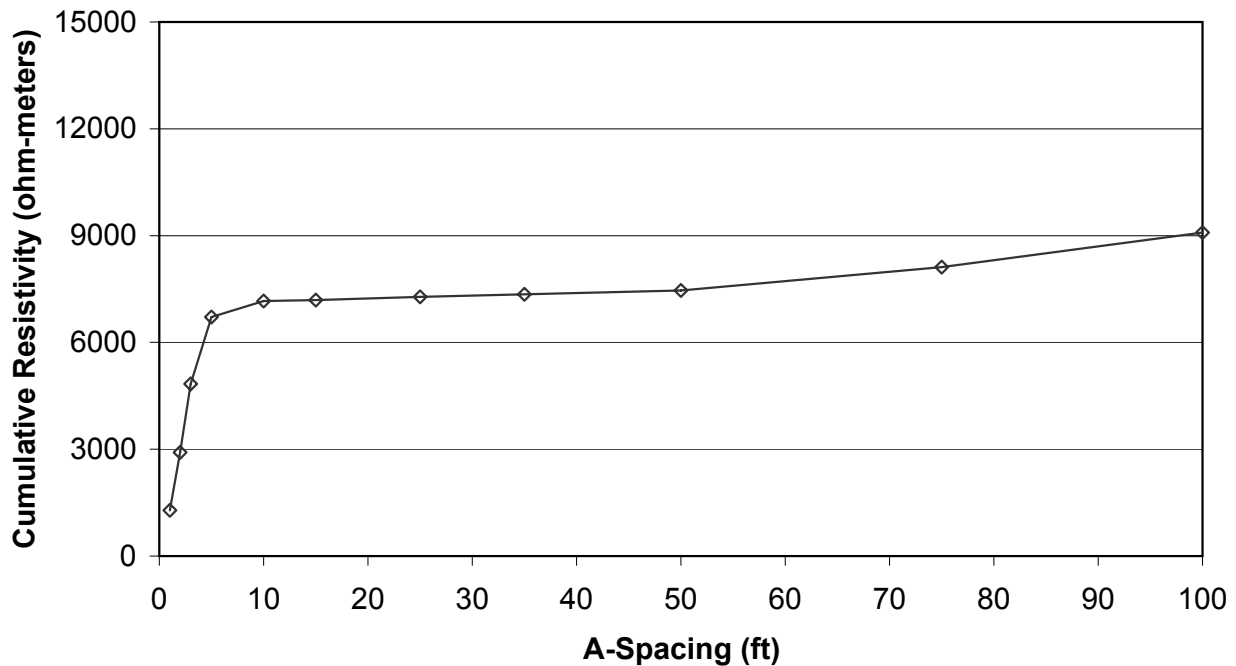
Geomean 398
 Min 27
 Max 1,920
 Median 653
 Std. Dev. 751



T-23B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4218.726965	1285.867979	0.199982	1286
2	1	3	20	2670.655663	1628.031692	0.240689	2914
3	1.5	4.5	20	2099.192419	1919.501548	0.309331	4833
5	2.5	7.5	20	1236.280484	1884.091457	0.257138	6717
10	5	15	20	146.9291468	447.8400395	0.144441	7165
15	7.5	22.5	50	5.821873842	26.61760721	0.666707	7192
25	12.5	37.5	20	11.66913175	88.91878395	0.209485	7281
35	17.5	52.5	20	6.813486147	72.68627022	0.799027	7354
50	25	75	50	6.968429497	106.1988655	0.516625	7460
75	37.5	112.5	20	28.5479666	652.6065165	0.618852	8112
100	50	150	20	32.04613002	976.7660431	0.029736	9089

T-23B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt23b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 8/11/2013 8:25

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	580	-1.5	1	1	20	13.428625	4218.727118	0.199982
2	824	-3	2	2	20	8.500961	5341.311133	0.240689
3	959	-4.5	3	3	20	6.681937	6297.576923	0.309331
4	1074	-7.5	5	5	20	3.935203	6181.402806	0.257138
5	1182	-15	10	10	20	0.46769	1469.293058	0.144441
7	1445	-22.5	15	15	50	0.046329	87.327356	0.666707
8	1634	-37.5	25	25	20	0.037144	291.726257	0.209485
10	1960	-52.5	35	35	20	0.021688	238.472264	0.799027
11	2292	-75	50	50	50	0.055453	348.421565	0.516625
12	2506	-112.5	75	75	20	0.090871	2141.099974	0.618852
13	2770	-150	100	100	20	0.102006	3204.614696	0.029736
6	1305	-22.5	15	15	20	0.017587	82.876336	0.793161
9	1846	-52.5	35	35	20	0.021571	237.186263	1.966409
14	2845	-150	100	100	10	0.051489	3235.132225	0.577628



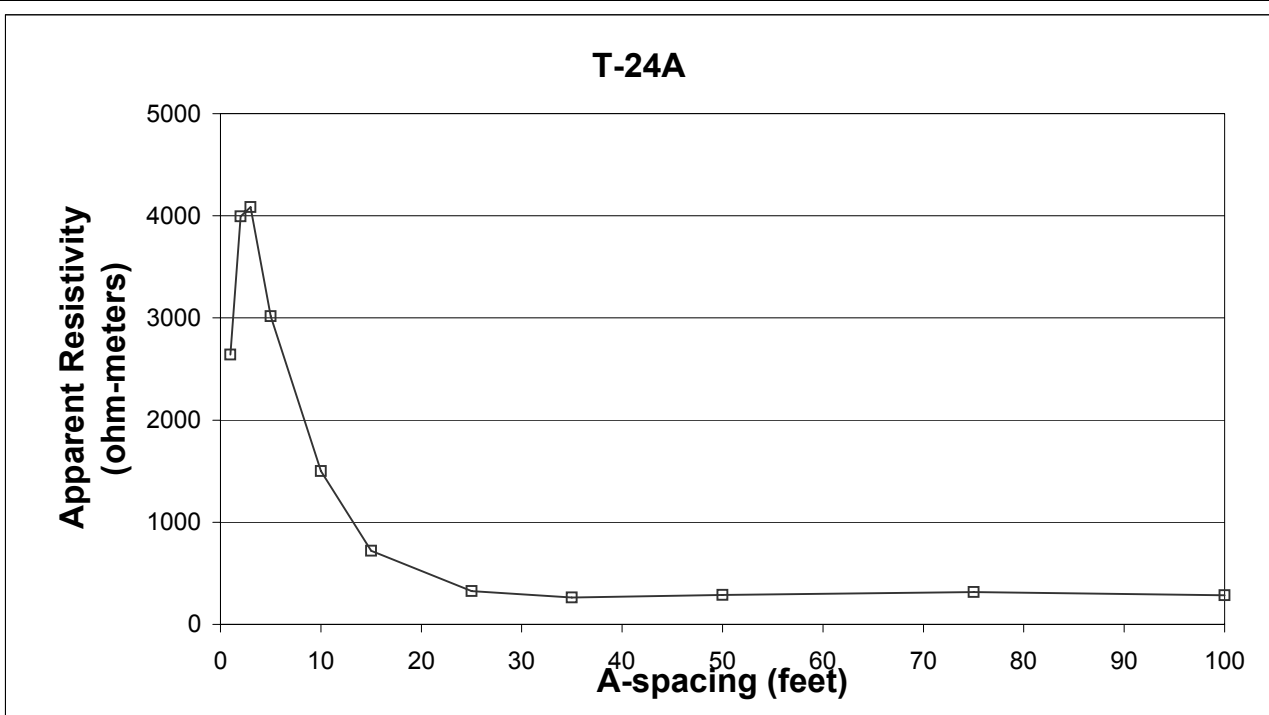
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-24A
 Orientation 290° (mag)
Shallow bedrock

Date 11/07/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1378.6	2,640.2	0.0320
2	1.00	3.00	10	1042.8	3,994.1	0.0232
3	1.50	4.50	10	710.8	4,083.9	0.0131
5	2.50	7.50	20	315.1	3,017.3	0.0239
10	5.00	15.00	20	78.4	1,500.6	0.0084
15	7.50	22.50	20	25.1	720.2	0.0085
25	12.50	37.50	20	6.8	324.5	0.0078
35	17.50	52.50	20	3.9	263.4	0.0589
50	25.00	75.00	20	3.0	289.7	0.0931
75	37.50	112.50	20	2.2	314.9	0.0038
100	50.00	150.00	20	1.5	284.6	0.4032

Geomean 899
 Min 263
 Max 4,084
 Median 720
 Std. Dev. 1,558

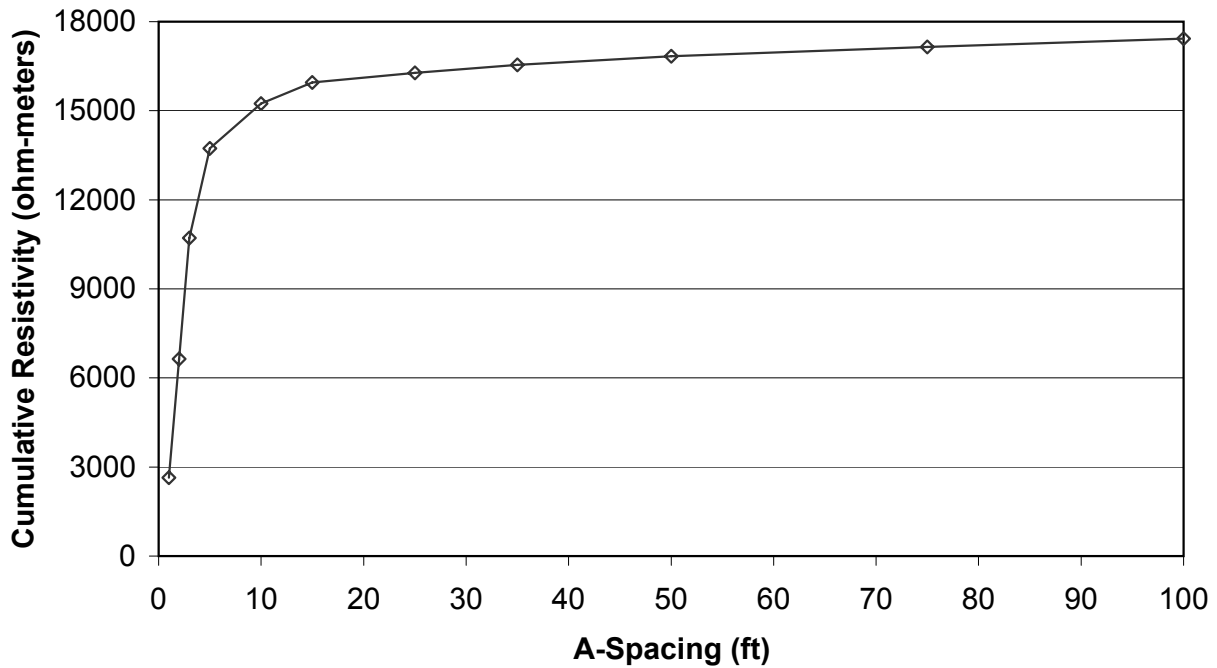


Cumulative Resistivity Sheet

T-24A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	8661.938946	2640.158991	0.031951	2640
2	1	3	10	6551.928453	3994.055585	0.023164	6634
3	1.5	4.5	10	4466.219435	4083.911051	0.013136	10718
5	2.5	7.5	20	1979.867504	3017.318077	0.023852	13735
10	5	15	20	492.3243255	1500.604544	0.008351	15236
15	7.5	22.5	20	157.5335928	720.2435864	0.008464	15956
25	12.5	37.5	20	42.5852309	324.4994594	0.007828	16281
35	17.5	52.5	20	24.69071914	263.4005918	0.0589	16544
50	25	75	20	19.00914883	289.6994281	0.093119	16834
75	37.5	112.5	20	13.77525547	314.90234	0.003821	17149
100	50	150	20	9.337755844	284.6147981	0.403152	17433

T-24A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt24a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 7/11/2013 7:40

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	851	-1.5	1	1	20	27.571808	8661.939286	0.031951
2	924	-3	2	2	10	10.427718	13103.85601	0.023164
3	1010	-4.5	3	3	10	7.108209	13398.65874	0.013136
4	1118	-7.5	5	5	20	6.302114	9899.336968	0.023852
5	1193	-15	10	10	20	1.567117	4923.243748	0.008351
6	1294	-22.5	15	15	20	0.501445	2363.006084	0.008464
7	1438	-37.5	25	25	20	0.135553	1064.627982	0.007828
8	1604	-52.5	35	35	20	0.078593	864.178803	0.0589
9	1757	-75	50	50	20	0.060508	950.449702	0.093119
10	1948	-112.5	75	75	20	0.043848	1033.155498	0.003821
11	2127	-150	100	100	20	0.029723	933.781743	0.403152
12	2198	-150	100	100	10	0.014875	934.625957	0.339657



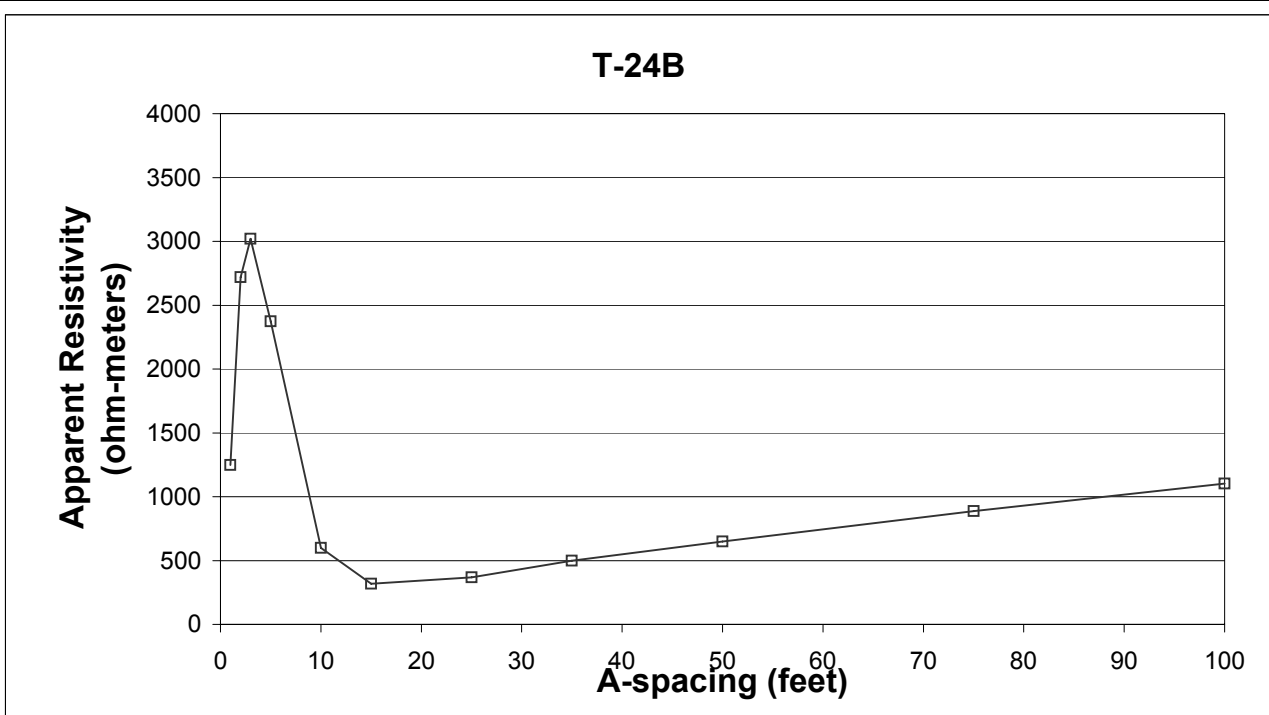
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-24B**
 Orientation **30° (mag)**
Moist soil, no bedrock observed, thin frost

Date **11/07/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	652.0	1,248.7	0.0567
2	1.00	3.00	50	709.8	2,718.8	0.0308
3	1.50	4.50	20	525.9	3,021.3	0.0338
5	2.50	7.50	20	247.9	2,373.4	0.0337
10	5.00	15.00	20	31.3	598.9	0.0090
15	7.50	22.50	20	11.1	319.4	0.0048
25	12.50	37.50	20	7.7	369.1	
35	17.50	52.50	20	7.4	498.1	0.0048
50	25.00	75.00	20	6.8	649.7	0.0326
75	37.50	112.50	20	6.2	886.9	0.0009
100	50.00	150.00	20	5.8	1,104.0	0.0123

Geomean 946
 Min 319
 Max 3,021
 Median 887
 Std. Dev. 985

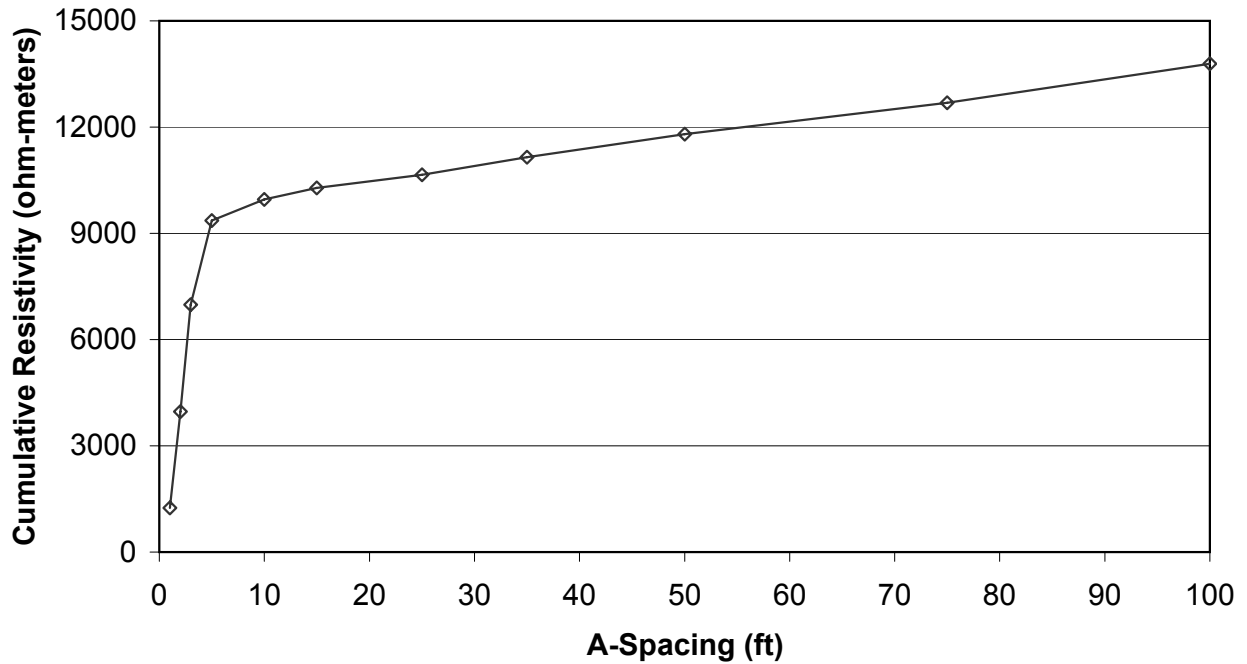


T-24B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4096.794214	1248.702876	0.056659	1249
2	1	3	50	4459.972943	2718.799506	0.030827	3968
3	1.5	4.5	20	3304.119808	3021.287152	0.033775	6989
5	2.5	7.5	20	1557.329576	2373.370273	0.033677	9362
10	5	15	20	196.4802311	598.8717444	0.009048	9961
15	7.5	22.5	20	69.85959584	319.3980722	0.004772	10280
25	12.5	37.5	20	48.43927465	369.1072728	0	10650
35	17.5	52.5	20	46.69192081	498.1094112	0.004759	11148
50	25	75	20	42.63361142	649.7362381	0.032617	11797
75	37.5	112.5	20	38.79647016	886.8873078	0.000928	12684
100	50	150	20	36.22036418	1103.9967	0.012271	13788

T-24B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt27b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 12/11/2013 10:20

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	299	-1.5	1	1	20	13.040501	4096.794053	0.056659
2	416	-3	2	2	50	35.491337	8919.94565	0.030827
3	485	-4.5	3	3	20	10.51734	9912.359507	0.033775
4	601	-7.5	5	5	20	4.957134	7786.647547	0.033677
5	660	-15	10	10	20	0.625416	1964.803367	0.009048
6	759	-22.5	15	15	20	0.22237	1047.892836	0.004772
7	826	-37.5	25	25	20	0.154187	1210.982183	0
8	930	-52.5	35	35	20	0.148625	1634.216935	0.004759
9	1011	-75	50	50	20	0.135707	2131.673632	0.032617
10	1116	-112.5	75	75	20	0.123493	2909.728387	0.000928
11	1253	-150	100	100	20	0.115293	3622.02525	0.012271
12	1294	-150	100	100	10	0.057677	3623.955908	0.016205



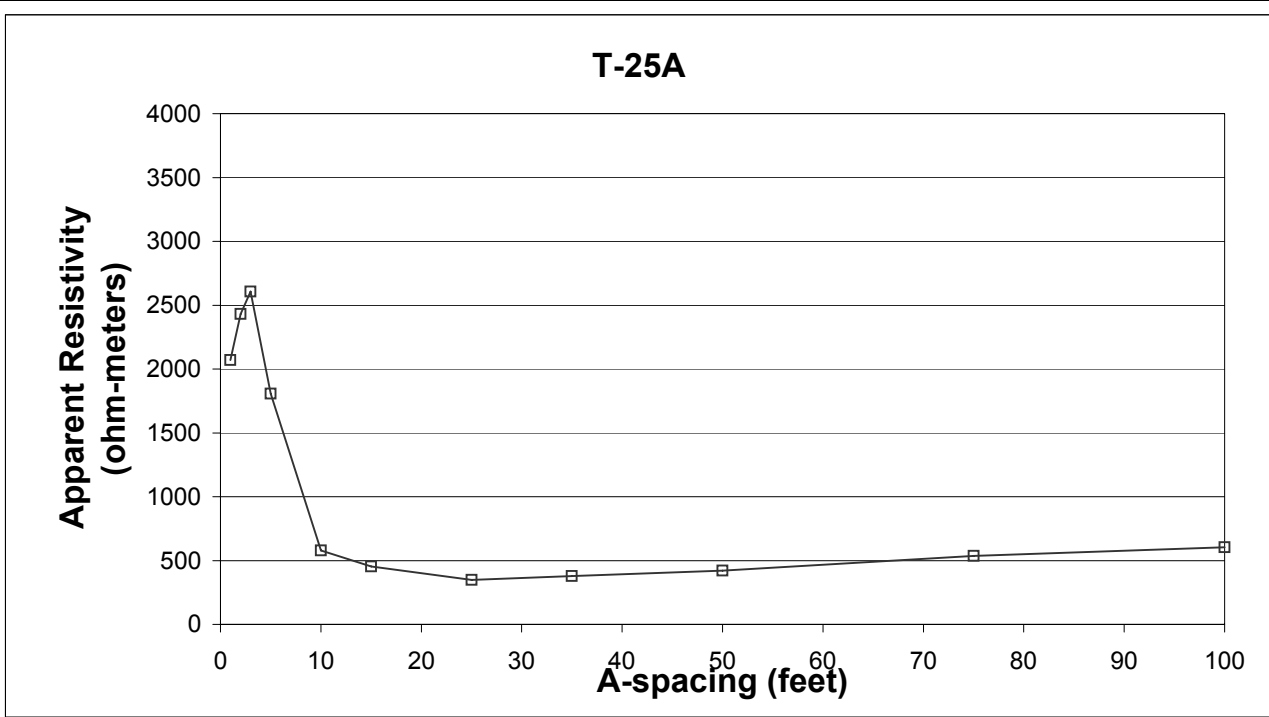
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-25A
 Orientation 65° (mag)
No Outcrop, boulders

Date 11/08/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1080.9	2,070.0	0.0546
2	1.00	3.00	20	634.6	2,430.6	0.0616
3	1.50	4.50	20	453.6	2,605.9	0.0313
5	2.50	7.50	20	188.6	1,805.9	0.0193
10	5.00	15.00	20	30.3	580.1	0.0146
15	7.50	22.50	20	15.8	452.9	0.0045
25	12.50	37.50	20	7.3	347.7	0.0457
35	17.50	52.50	50	5.7	379.4	0.0137
50	25.00	75.00	20	4.4	422.2	0.0924
75	37.50	112.50	20	3.7	536.3	0.0246
100	50.00	150.00	20	3.2	605.0	0.0205

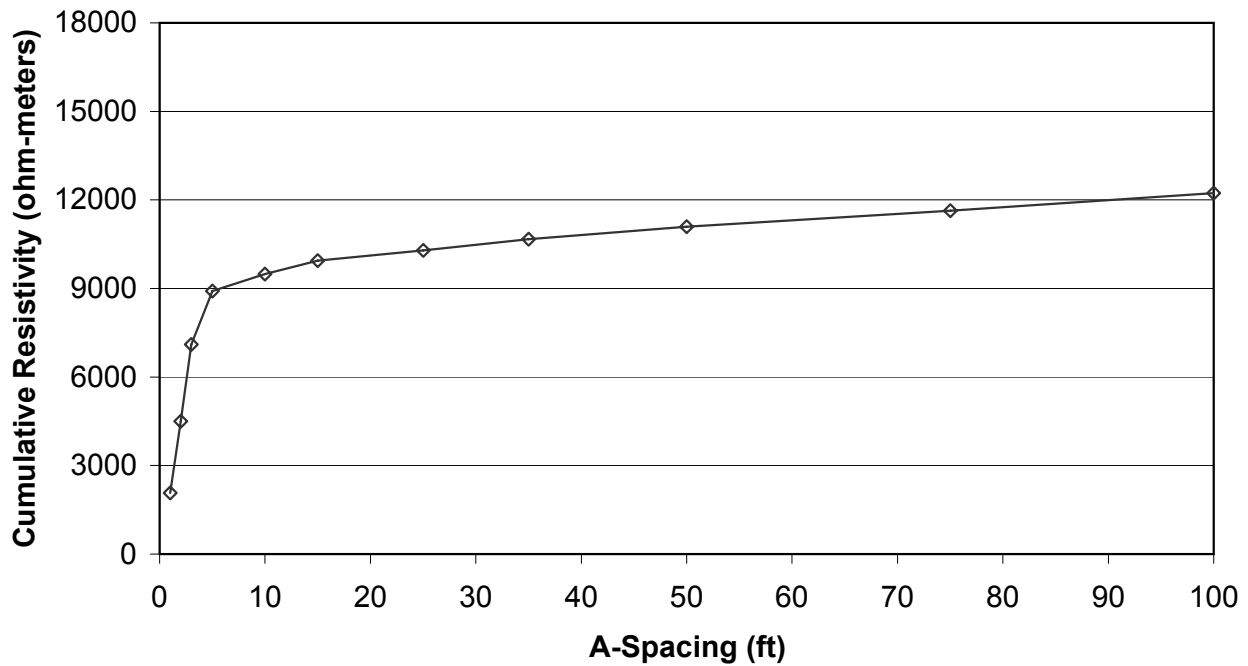
Geomean 820
 Min 348
 Max 2,606
 Median 580
 Std. Dev. 910



T-25A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6791.407034	2070.020864	0.054554	2070
2	1	3	20	3987.234312	2430.618037	0.061575	4501
3	1.5	4.5	20	2849.814408	2605.870295	0.031327	7107
5	2.5	7.5	20	1184.97105	1805.89588	0.019316	8912
10	5	15	20	190.3308776	580.1285151	0.014595	9493
15	7.5	22.5	20	99.0487615	452.8509376	0.004487	9945
25	12.5	37.5	20	45.62786338	347.684319	0.045715	10293
35	17.5	52.5	50	35.5674784	379.4338595	0.013746	10673
50	25	75	20	27.70319234	422.1966512	0.092393	11095
75	37.5	112.5	20	23.4617281	536.3351043	0.024558	11631
100	50	150	20	19.84795407	604.96564	0.020516	12236

T-25A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt25a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 8/11/2013 10:01

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	32	-1.5	1	1	20	21.61772	6791.406948	0.054554
2	92	-3	2	2	20	12.691761	7974.468155	0.061575
3	140	-4.5	3	3	20	9.071241	8549.443654	0.031327
4	197	-7.5	5	5	20	3.77188	5924.855544	0.019316
5	276	-15	10	10	20	0.605842	1903.307395	0.014595
6	389	-22.5	15	15	20	0.315282	1485.729632	0.004487
7	510	-37.5	25	25	20	0.145238	1140.69785	0.045715
8	622	-52.5	35	35	50	0.283037	1244.862456	0.013746
9	723	-75	50	50	20	0.088182	1385.158286	0.092393
10	862	-112.5	75	75	20	0.074681	1759.635129	0.024558
11	1028	-150	100	100	20	0.063178	1984.804409	0.020516
12	1100	-150	100	100	10	0.031784	1997.072061	0.235803



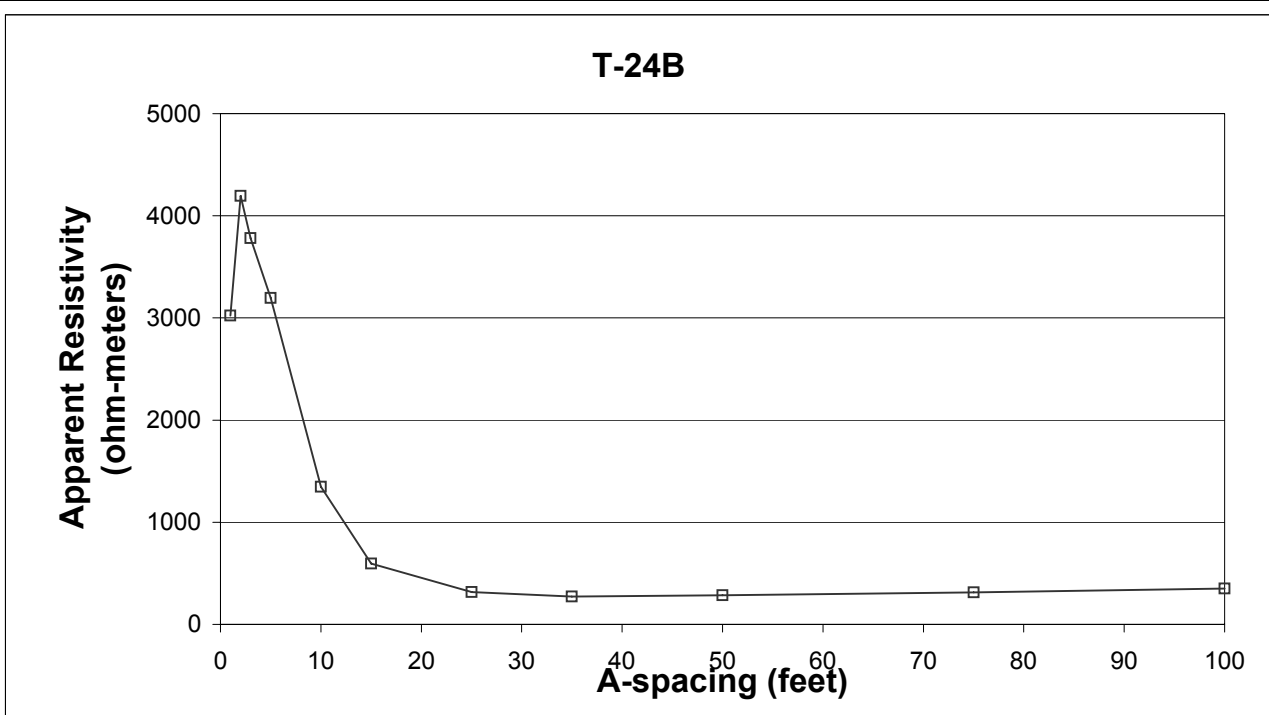
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-25B
 Orientation 65° (mag)
Shallow bedrock

Date 11/07/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1578.6	3,023.2	0.0644
2	1.00	3.00	20	1095.6	4,196.3	0.0512
3	1.50	4.50	20	657.9	3,780.0	0.0508
5	2.50	7.50	20	333.7	3,195.2	0.0151
10	5.00	15.00	20	70.3	1,347.1	0.0417
15	7.50	22.50	20	20.8	596.4	0.1176
25	12.50	37.50	20	6.6	317.0	0.1609
35	17.50	52.50	20	4.1	272.7	0.0359
50	25.00	75.00	20	3.0	284.7	0.1391
75	37.50	112.50	20	2.2	312.9	0.3892
100	50.00	150.00	20	1.8	351.3	0.8586

Geomean 905
 Min 273
 Max 4,196
 Median 596
 Std. Dev. 1,596

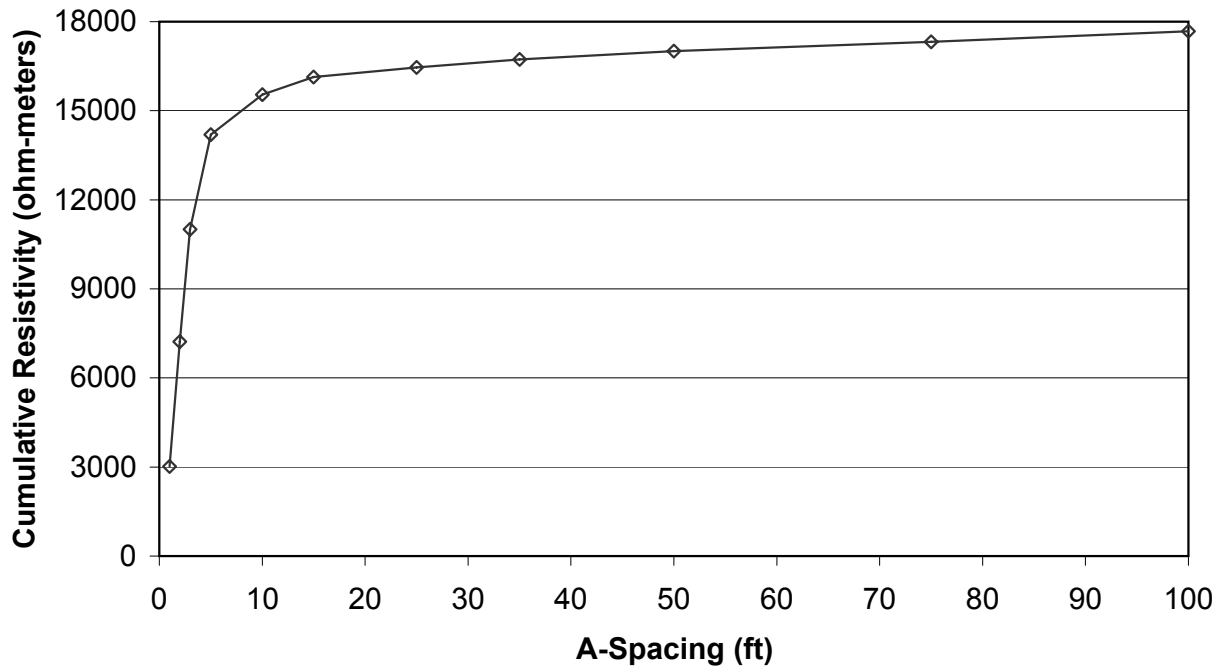


Cumulative Resistivity Sheet

T-24B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	9918.545534	3023.172679	0.064358	3023
2	1	3	20	6883.638225	4196.265862	0.05123	7219
3	1.5	4.5	20	4133.81914	3779.964222	0.050753	10999
5	2.5	7.5	20	2096.615371	3195.241825	0.015051	14195
10	5	15	20	441.9466881	1347.053505	0.041735	15542
15	7.5	22.5	20	130.4433252	596.3868828	0.11755	16138
25	12.5	37.5	20	41.60128408	317.0017847	0.16094	16455
35	17.5	52.5	20	25.56156863	272.6908141	0.03587	16728
50	25	75	20	18.68273735	284.7249172	0.139077	17013
75	37.5	112.5	20	13.68603424	312.8627426	0.389225	17325
100	50	150	20	11.52399017	351.2512204	0.858617	17677

T-24B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt24b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 7/11/2013 8:32

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	243	-1.5	1	1	20	31.571711	9918.545668	0.064358
2	333	-3	2	2	20	21.911301	13767.27662	0.05123
3	441	-4.5	3	3	20	13.158355	12401.45694	0.050753
4	584	-7.5	5	5	20	6.673734	10483.07706	0.015051
5	709	-15	10	10	20	1.40676	4419.468158	0.041735
6	845	-22.5	15	15	20	0.415214	1956.647922	0.11755
7	973	-37.5	25	25	20	0.132421	1040.032757	0.16094
8	1077	-52.5	35	35	20	0.081365	894.656095	0.03587
9	1201	-75	50	50	20	0.059469	934.140221	0.139077
10	1333	-112.5	75	75	20	0.043564	1026.441897	0.389225
11	1467	-150	100	100	20	0.036682	1152.407711	0.858617
12	1520	-150	100	100	10	0.018253	1146.868302	0.570507



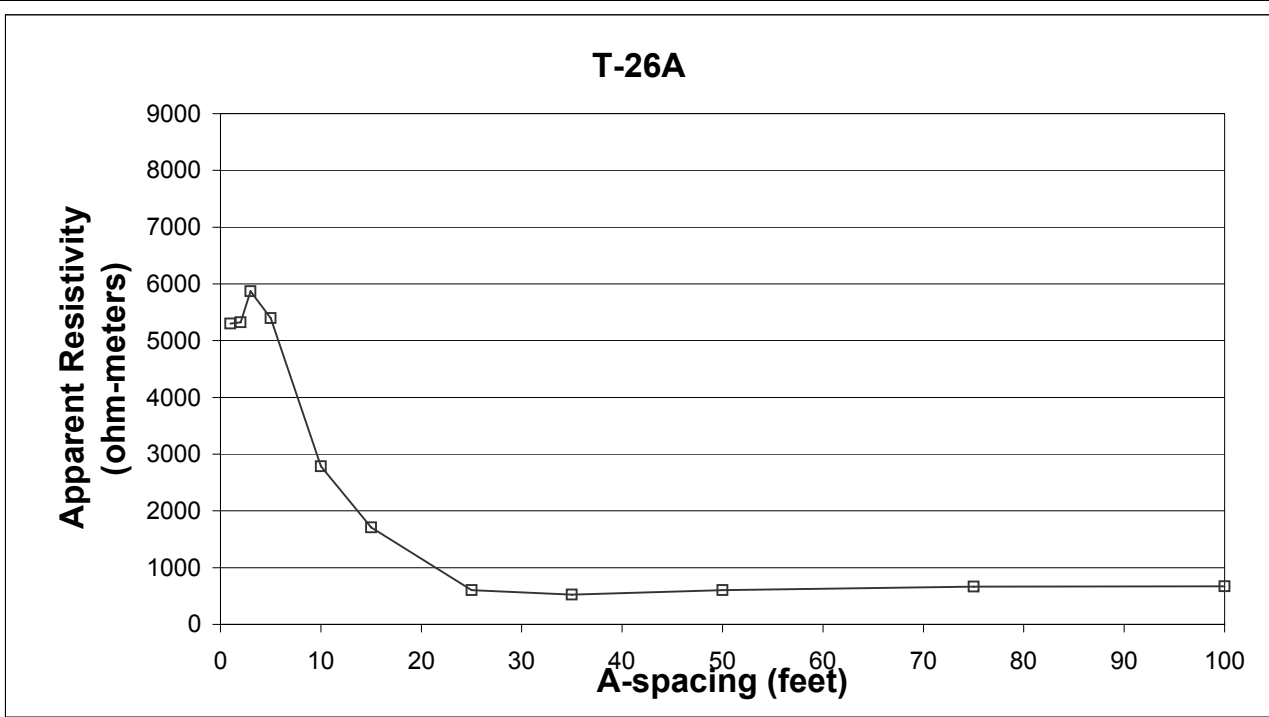
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-26A**
 Orientation **357° (mag)**
Off-set, met tower site, boulders, shallow bedrock (?)

Date **11/08/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	2767.6	5,300.3	0.0344
2	1.00	3.00	20	1389.2	5,320.8	0.0373
3	1.50	4.50	20	1022.0	5,871.5	0.0250
5	2.50	7.50	20	563.8	5,398.6	0.0328
10	5.00	15.00	20	145.6	2,788.4	0.0106
15	7.50	22.50	20	59.5	1,709.5	0.0113
25	12.50	37.50	20	12.7	606.2	0.0307
35	17.50	52.50	20	7.8	525.8	0.0570
50	25.00	75.00	20	6.3	601.7	0.1015
75	37.50	112.50	20	4.6	664.8	0.0346
100	50.00	150.00	20	3.5	673.5	0.0614

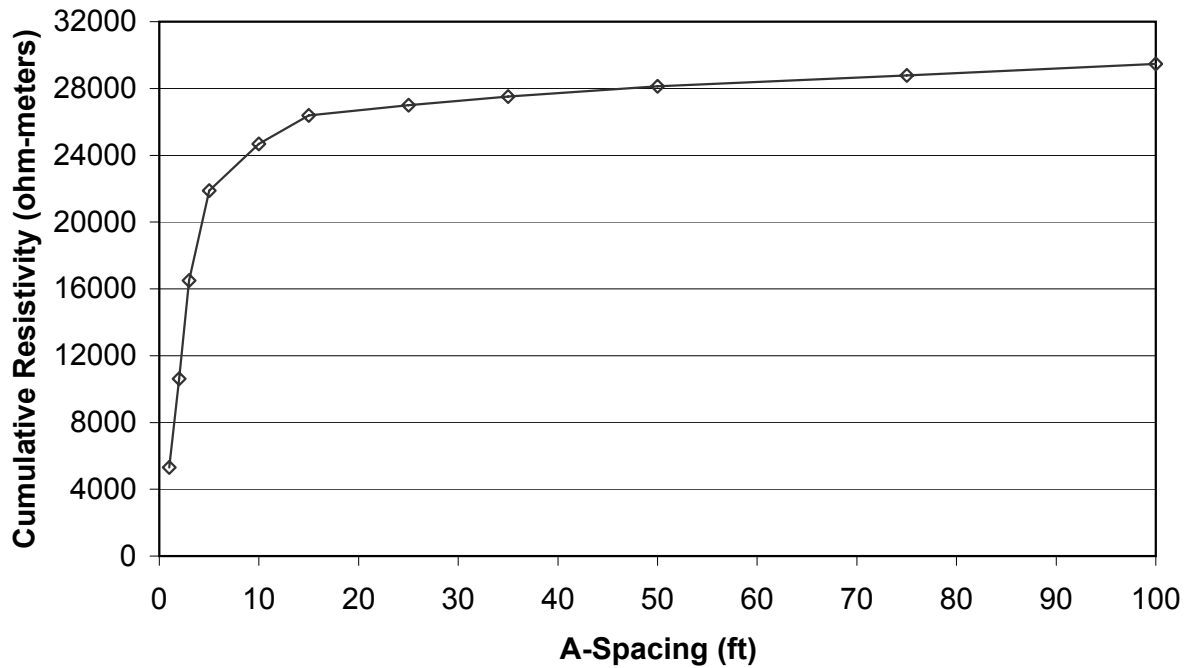
Geomean 1,710
 Min 526
 Max 5,871
 Median 1,709
 Std. Dev. 2,318



T-26A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	10	17389.46869	5300.310057	0.034398	5300
2	1	3	20	8728.381746	5320.821512	0.037334	10621
3	1.5	4.5	20	6421.126043	5871.477654	0.025027	16493
5	2.5	7.5	20	3542.398615	5398.615489	0.032763	21891
10	5	15	20	914.8380639	2788.426419	0.010567	24680
15	7.5	22.5	20	373.8997913	1709.469846	0.011293	26389
25	12.5	37.5	20	79.55266581	606.1913135	0.030728	26995
35	17.5	52.5	20	49.28813298	525.8058027	0.056989	27521
50	25	75	20	39.48322231	601.724308	0.10145	28123
75	37.5	112.5	20	29.08329399	664.8441006	0.034575	28788
100	50	150	20	22.09764857	673.5363283	0.061425	29461

**T-26A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt26a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 8/11/2013 11:51

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	121	-1.5	1	1	10	27.676199	17389.46852	0.034398
2	214	-3	2	2	20	27.783302	17456.76426	0.037334
3	277	-4.5	3	3	20	20.439079	19263.37869	0.025027
4	363	-7.5	5	5	20	11.275805	17711.9922	0.032763
5	470	-15	10	10	20	2.91202	9148.37955	0.010567
6	577	-22.5	15	15	20	1.19016	5608.498252	0.011293
7	669	-37.5	25	25	20	0.253224	1988.814031	0.030728
8	791	-52.5	35	35	20	0.156889	1725.08738	0.056989
9	903	-75	50	50	20	0.125679	1974.16062	0.10145
10	1034	-112.5	75	75	20	0.092575	2181.243157	0.034575
11	1187	-150	100	100	20	0.070339	2209.749359	0.061425
12	1228	-150	100	100	10	0.035337	2220.275703	0.061883



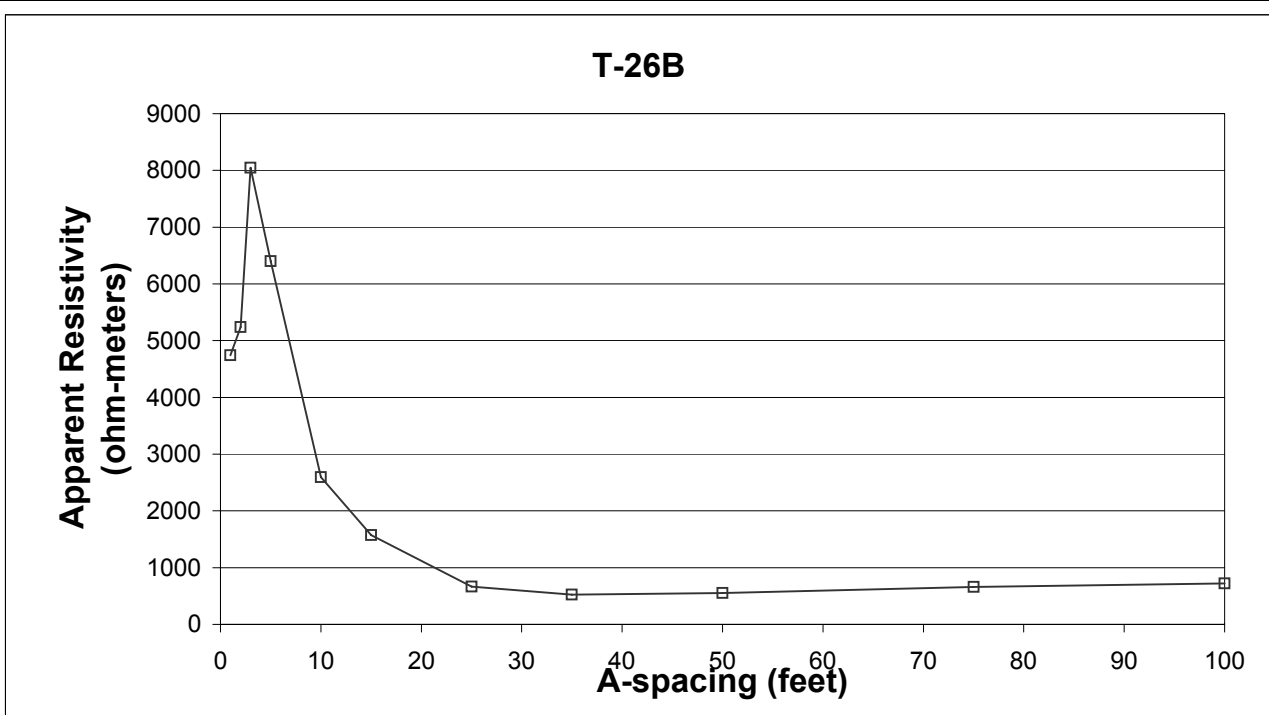
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-26B
 Orientation 80° (mag)
Off-set, met tower site, boulders, shallow bedrock (?)

Date 11/08/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	2475.6	4,741.1	0.0235
2	1.00	3.00	20	1367.7	5,238.4	0.0275
3	1.50	4.50	20	1400.9	8,048.7	0.0517
5	2.50	7.50	20	668.4	6,400.1	0.0287
10	5.00	15.00	20	135.4	2,593.8	0.0181
15	7.50	22.50	50	54.8	1,575.6	0.0006
25	12.50	37.50	20	13.9	666.0	0.0254
35	17.50	52.50	20	7.9	527.0	0.0217
50	25.00	75.00	20	5.8	554.6	0.0081
75	37.50	112.50	20	4.6	662.4	0.0009
100	50.00	150.00	20	3.8	723.1	0.0093

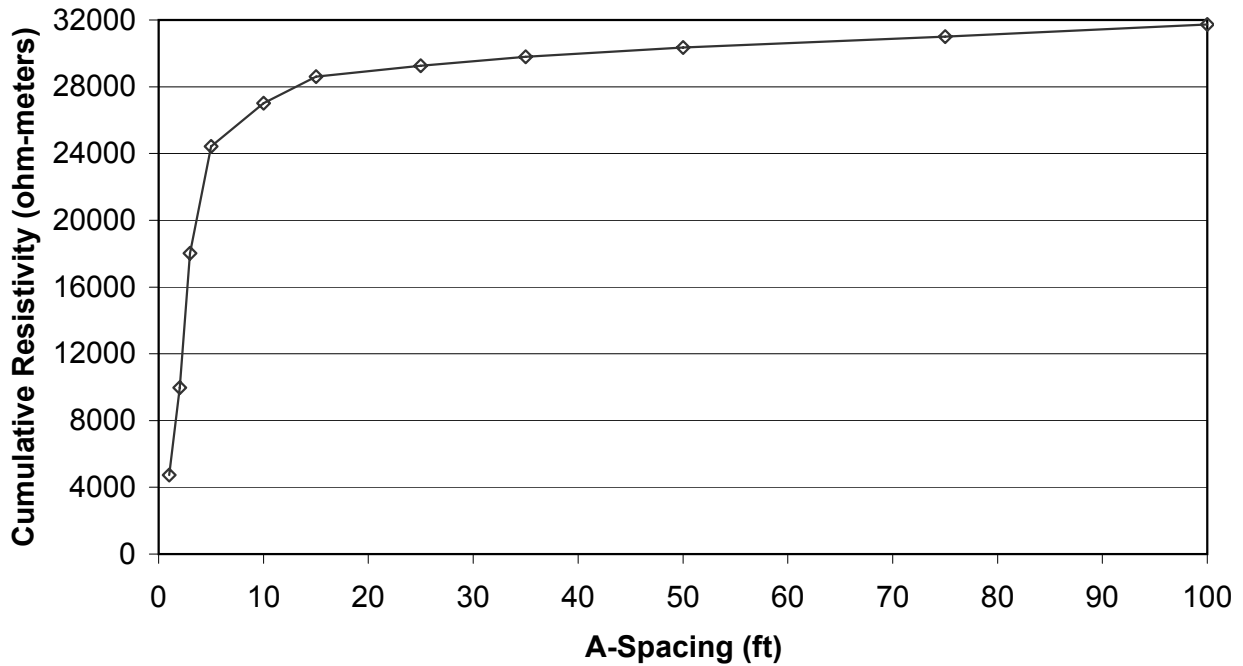
Geomean 1,755
 Min 527
 Max 8,049
 Median 1,576
 Std. Dev. 2,745



T-26B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	15554.952	4741.149369	0.023532	4741
2	1	3	20	8593.223832	5238.429248	0.027532	9980
3	1.5	4.5	20	8802.210744	8048.741504	0.051727	18028
5	2.5	7.5	20	4199.535604	6400.09226	0.028699	24428
10	5	15	20	850.994618	2593.831596	0.018149	27022
15	7.5	22.5	50	344.6229123	1575.615955	0.000645	28598
25	12.5	37.5	20	87.3984793	665.9764123	0.025427	29264
35	17.5	52.5	20	49.40123032	527.012325	0.0217	29791
50	25	75	20	36.39189514	554.6124819	0.008145	30345
75	37.5	112.5	20	28.97585152	662.3879658	0.00086	31008
100	50	150	20	23.7246794	723.1282282	0.009341	31731

T-26B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt26b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 8/11/2013 12:16

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	470	-1.5	1	1	10	24.756475	15554.95175	0.023532
2	526	-3	2	2	20	27.353081	17186.4477	0.027532
3	569	-4.5	3	3	20	28.018307	26406.63097	0.051727
4	652	-7.5	5	5	20	13.367537	20997.67742	0.028699
5	788	-15	10	10	20	2.7088	8509.944416	0.018149
6	874	-22.5	15	15	50	2.742422	5169.343521	0.000645
7	953	-37.5	25	25	20	0.278198	2184.961188	0.025427
8	1052	-52.5	35	35	20	0.157249	1729.045185	0.0217
9	1151	-75	50	50	20	0.115839	1819.598423	0.008145
10	1281	-112.5	75	75	20	0.092233	2173.192904	0.00086
11	1458	-150	100	100	20	0.075518	2372.462776	0.009341
12	1514	-150	100	100	10	0.037944	2384.09781	0.159413



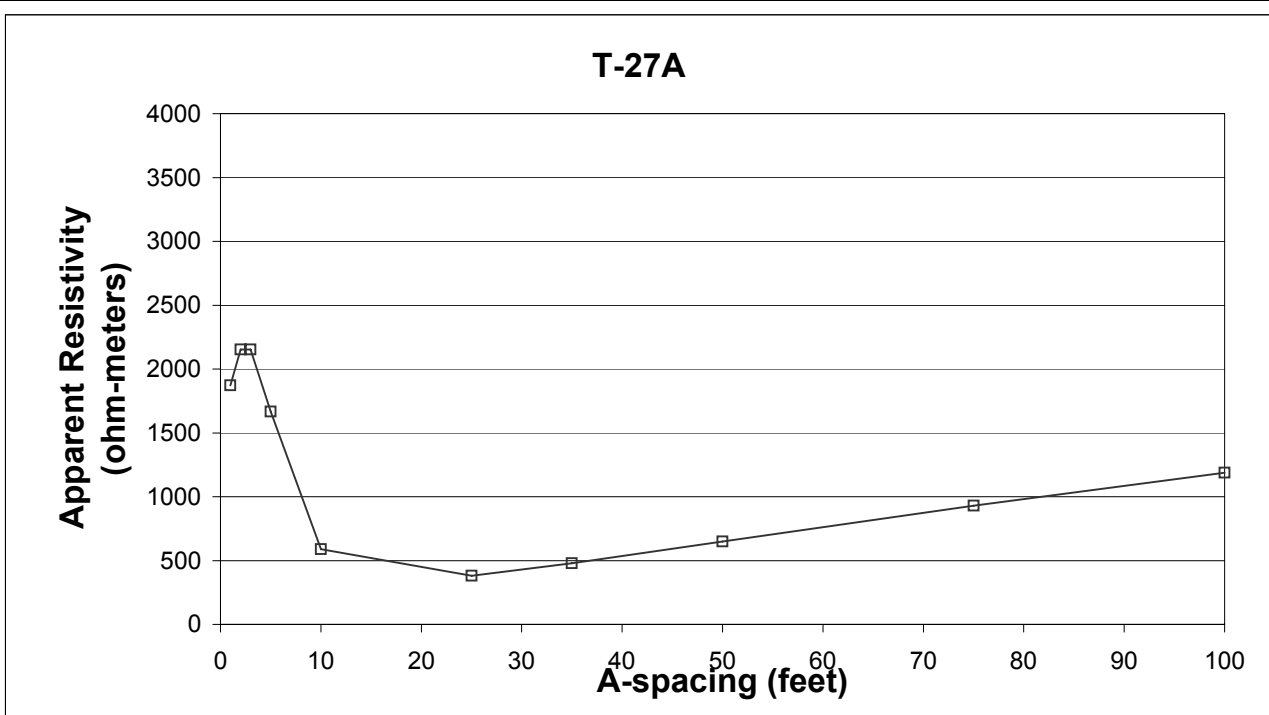
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-27A
 Orientation 287° (mag)
Moist soil - thin frost - no bedrock observed

Date 11/12/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	977.6	1,872.2	0.0371
2	1.00	3.00	20	562.1	2,152.9	0.0088
3	1.50	4.50	20	374.8	2,153.2	0.0219
5	2.50	7.50	20	174.0	1,665.8	0.0214
10	5.00	15.00	20	30.8	590.1	0.0046
25	12.50	37.50	20	8.0	380.7	0.0022
35	17.50	52.50	20	7.1	477.8	0.0397
50	25.00	75.00	20	6.8	649.3	0.1591
75	37.50	112.50	20	6.5	930.7	0.0065
100	50.00	150.00	20	6.2	1,189.0	0.3390

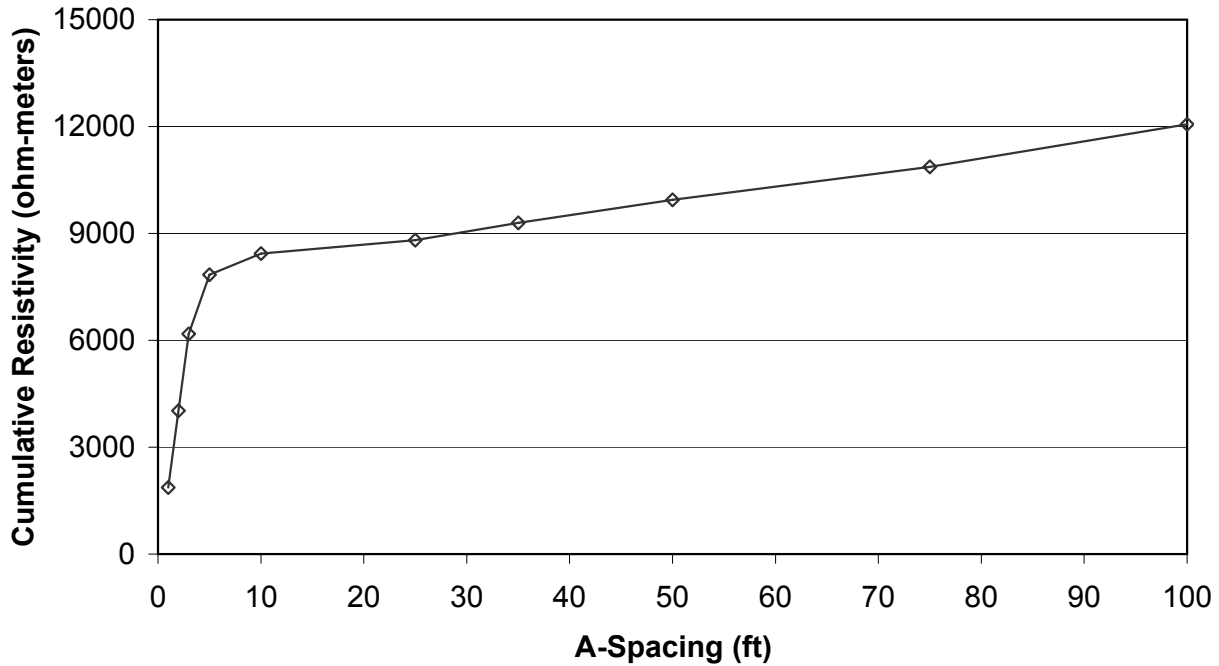
Geomean 1,011
 Min 381
 Max 2,153
 Median 1,060
 Std. Dev. 701



T-27A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6142.318492	1872.178676	0.037064	1872
2	1	3	20	3531.635205	2152.884821	0.008848	4025
3	1.5	4.5	20	2354.77826	2153.209241	0.021894	6178
5	2.5	7.5	20	1093.05119	1665.810014	0.021449	7844
10	5	15	20	193.600019	590.0928578	0.004591	8434
25	12.5	37.5	20	49.95634974	380.667385	0.002224	8815
35	17.5	52.5	20	44.78591655	477.7761578	0.039696	9293
50	25	75	20	42.60408045	649.2861861	0.159091	9942
75	37.5	112.5	20	40.71504079	930.7458325	0.006531	10873
100	50	150	20	39.00852766	1188.979923	0.338962	12062

T-27A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt27a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 12/11/2013 9:45

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm-ft)	Error(%)
1	83	-1.5	1	1	20	19.551607	6142.318701	0.037064
2	288	-3	2	2	20	11.241544	7063.270528	0.008848
3	347	-4.5	3	3	20	7.495492	7064.335303	0.021894
4	403	-7.5	5	5	20	3.47929	5465.255246	0.021449
5	473	-15	10	10	20	0.616248	1936.000001	0.004591
7	667	-37.5	25	25	20	0.159016	1248.911281	0.002224
8	732	-52.5	35	35	20	0.142558	1567.504065	0.039696
9	833	-75	50	50	20	0.135613	2130.198823	0.159091
11	945	-112.5	75	75	20	0.1296	3053.630315	0.006531
12	1071	-150	100	100	20	0.124168	3900.866405	0.338962
6	572	-37.5	25	25	20	0.300566	2360.641087	0.021181
10	919	-112.5	75	75	20	0.117809	2775.799505	0.187189
13	1128	-150	100	100	10	0.06202	3896.85918	0.279433



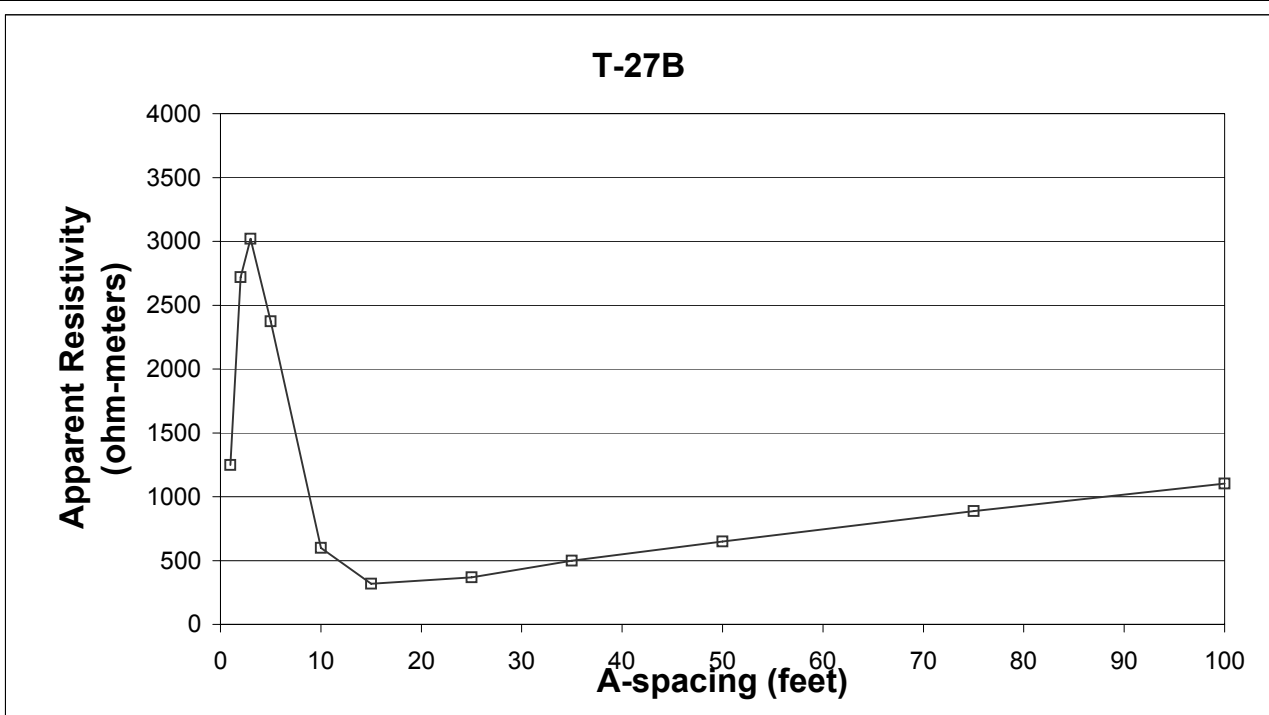
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-27B**
 Orientation **28° (mag)**
Moist soil, no bedrock observed, thin frost

Date **11/12/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	652.0	1,248.7	0.0567
2	1.00	3.00	50	709.8	2,718.8	0.0308
3	1.50	4.50	20	525.9	3,021.3	0.0338
5	2.50	7.50	20	247.9	2,373.4	0.0337
10	5.00	15.00	20	31.3	598.9	0.0090
15	7.50	22.50	20	11.1	319.4	0.0048
25	12.50	37.50	20	7.7	369.1	
35	17.50	52.50	20	7.4	498.1	0.0048
50	25.00	75.00	20	6.8	649.7	0.0326
75	37.50	112.50	20	6.2	886.9	0.0009
100	50.00	150.00	20	5.8	1,104.0	0.0123

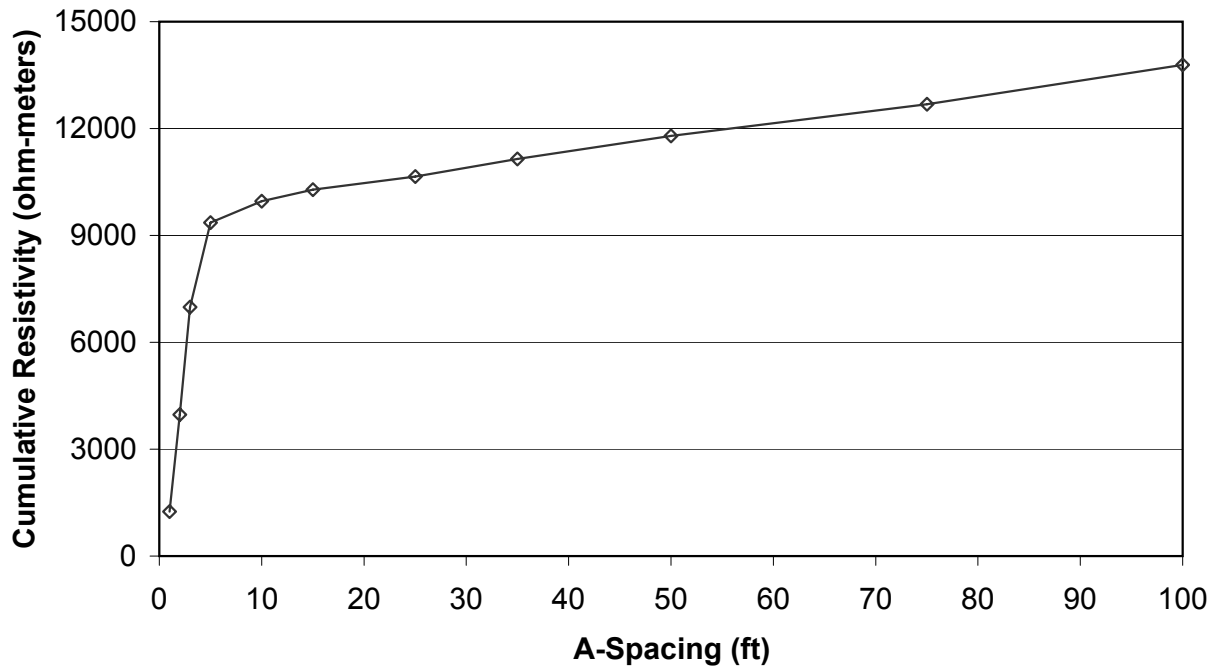
Geomean 946
 Min 319
 Max 3,021
 Median 887
 Std. Dev. 985



T-27B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4096.794214	1248.702876	0.056659	1249
2	1	3	50	4459.972943	2718.799506	0.030827	3968
3	1.5	4.5	20	3304.119808	3021.287152	0.033775	6989
5	2.5	7.5	20	1557.329576	2373.370273	0.033677	9362
10	5	15	20	196.4802311	598.8717444	0.009048	9961
15	7.5	22.5	20	69.85959584	319.3980722	0.004772	10280
25	12.5	37.5	20	48.43927465	369.1072728	0	10650
35	17.5	52.5	20	46.69192081	498.1094112	0.004759	11148
50	25	75	20	42.63361142	649.7362381	0.032617	11797
75	37.5	112.5	20	38.79647016	886.8873078	0.000928	12684
100	50	150	20	36.22036418	1103.9967	0.012271	13788

T-27B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt27b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 12/11/2013 10:20

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm-ft)	Error(%)
1	299	-1.5	1	1	20	13.040501	4096.794053	0.056659
2	416	-3	2	2	50	35.491337	8919.94565	0.030827
3	485	-4.5	3	3	20	10.51734	9912.359507	0.033775
4	601	-7.5	5	5	20	4.957134	7786.647547	0.033677
5	660	-15	10	10	20	0.625416	1964.803367	0.009048
6	759	-22.5	15	15	20	0.22237	1047.892836	0.004772
7	826	-37.5	25	25	20	0.154187	1210.982183	0
8	930	-52.5	35	35	20	0.148625	1634.216935	0.004759
9	1011	-75	50	50	20	0.135707	2131.673632	0.032617
10	1116	-112.5	75	75	20	0.123493	2909.728387	0.000928
11	1253	-150	100	100	20	0.115293	3622.02525	0.012271
12	1294	-150	100	100	10	0.057677	3623.955908	0.016205



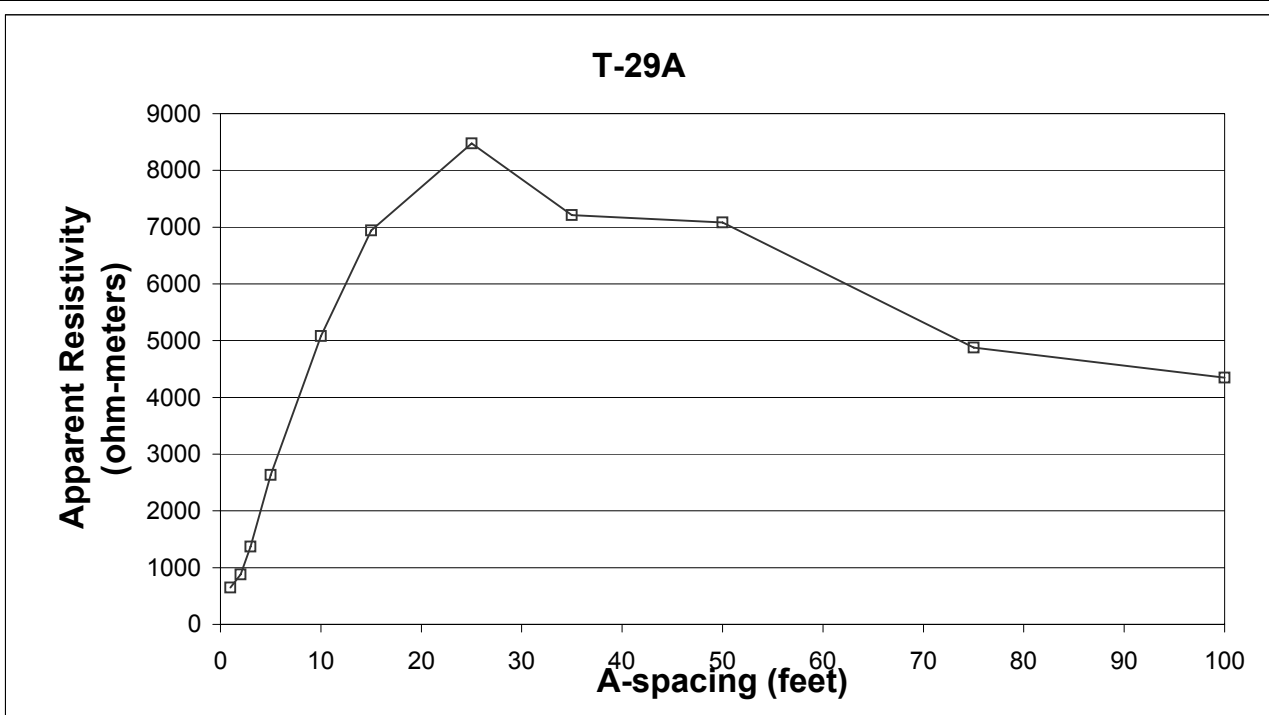
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-29A**
 Orientation **005° (mag)**
No Outcrop, bouldery gravel soils

Date **10/31/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	339.0	649.3	0.0117
2	1.00	3.00	50	230.2	881.7	0.0099
3	1.50	4.50	100	239.0	1,373.0	0.0327
5	2.50	7.50	50	275.3	2,636.2	0.0021
10	5.00	15.00	50	265.4	5,082.9	0.0225
15	7.50	22.50	50	241.7	6,944.5	0.0458
25	12.50	37.50	50	177.1	8,476.8	0.0337
35	17.50	52.50	50	107.6	7,210.6	0.0573
50	25.00	75.00	20	73.9	7,080.4	0.0380
75	37.50	112.50	50	34.0	4,880.1	0.0712
100	50.00	150.00	50	22.7	4,347.6	0.0536

Geomean 3,386
 Min 649
 Max 8,477
 Median 4,880
 Std. Dev. 2,783



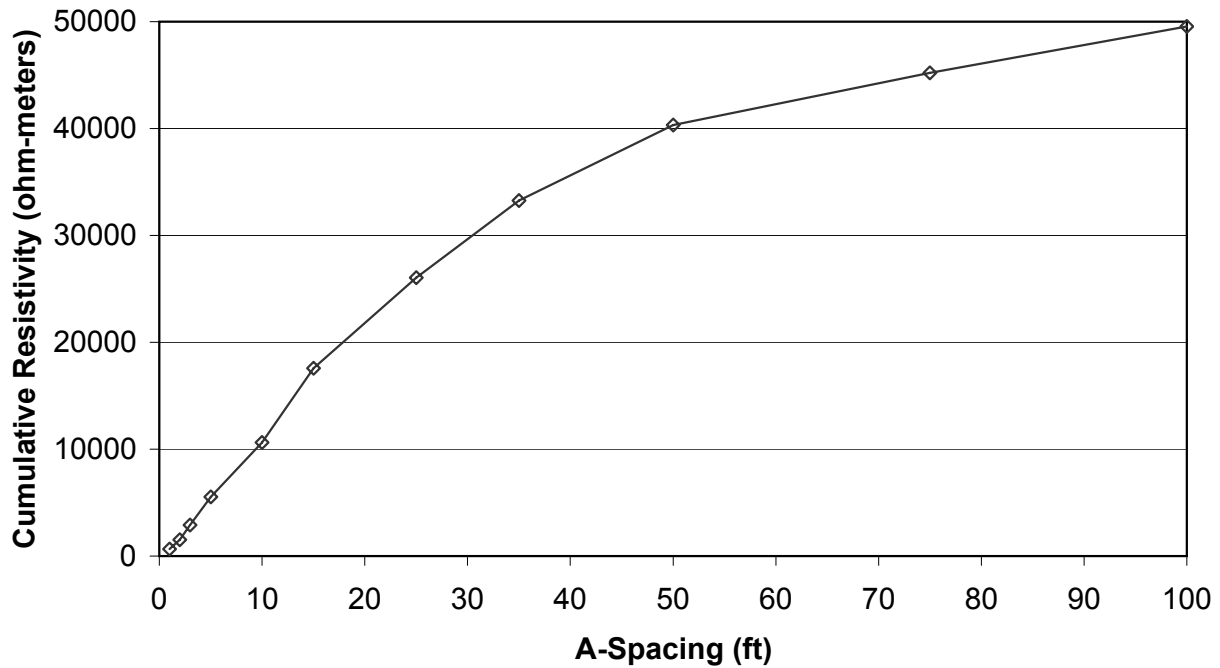
Cumulative Resistivity Sheet

T-29A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2130.161171	649.273125	0.011735	649
2	1	3	50	1446.352187	881.6962931	0.009876	1531
3	1.5	4.5	100	1501.570767	1373.03631	0.032701	2904
5	2.5	7.5	50	1729.774235	2636.175935	0.002064	5540
10	5	15	50	1667.617825	5082.89913	0.022485	10623
15	7.5	22.5	50	1518.91217	6944.466442	0.045846	17568
25	12.5	37.5	50	1112.439592	8476.789693	0.033707	26044
35	17.5	52.5	50	675.9082559	7210.589274	0.057274	33255
50	25	75	20	464.5928588	7080.395168	0.038027	40335
75	37.5	112.5	50	213.4791376	4880.133086	0.071203	45215
100	50	150	50	142.6371029	4347.578897	0.053595	49563

T-29A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt29a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 31/10/2013 10:43:38

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	420	-1.5	1	1	50	16.951284	2130.161271	0.011735
2	502	-3	2	2	50	11.509705	2892.704463	0.009876
3	572	-4.5	3	3	100	23.898241	4504.712238	0.032701
4	677	-7.5	5	5	50	13.765106	8648.871303	0.002064
5	790	-15	10	10	50	13.270481	16676.17934	0.022485
6	899	-22.5	15	15	50	12.087119	22783.68311	0.045846
7	1028	-37.5	25	25	50	8.852513	27810.99259	0.033707
8	1221	-52.5	35	35	50	5.378707	23656.7895	0.057274
9	1334	-75	50	50	20	1.478845	23229.63433	0.038027
10	1461	-112.5	75	75	50	1.698813	16010.93945	0.071203
11	1639	-150	100	100	50	1.13507	14263.70837	0.053595
12	1675	-150	100	100	20	0.455313	14304.09281	0.068358



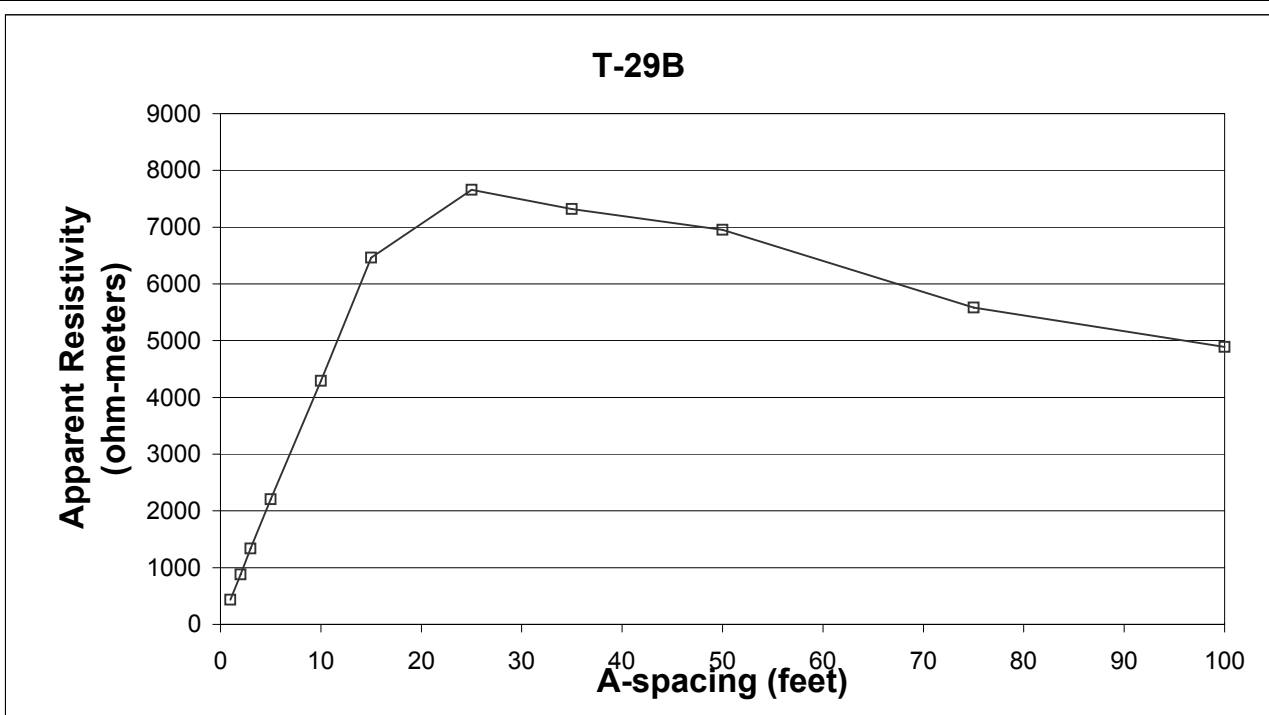
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-29B
 Orientation 290° (mag)
No Outcrop, bouldery gravel soils

Date 10/31/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	100	225.8	432.5	0.0107
2	1.00	3.00	100	229.7	880.0	0.0408
3	1.50	4.50	50	232.2	1,333.8	0.0171
5	2.50	7.50	20	230.1	2,203.1	0.0028
10	5.00	15.00	20	224.0	4,289.1	0.0166
15	7.50	22.50	20	225.0	6,462.8	0.0347
25	12.50	37.50	20	159.9	7,656.7	0.0433
35	17.50	52.50	20	109.2	7,321.0	0.0507
50	25.00	75.00	20	72.6	6,954.6	0.0404
75	37.50	112.50	20	38.9	5,583.0	0.0532
100	50.00	150.00	20	25.5	4,891.0	0.0270

Geomean 3,175
 Min 432
 Max 7,657
 Median 4,891
 Std. Dev. 2,719

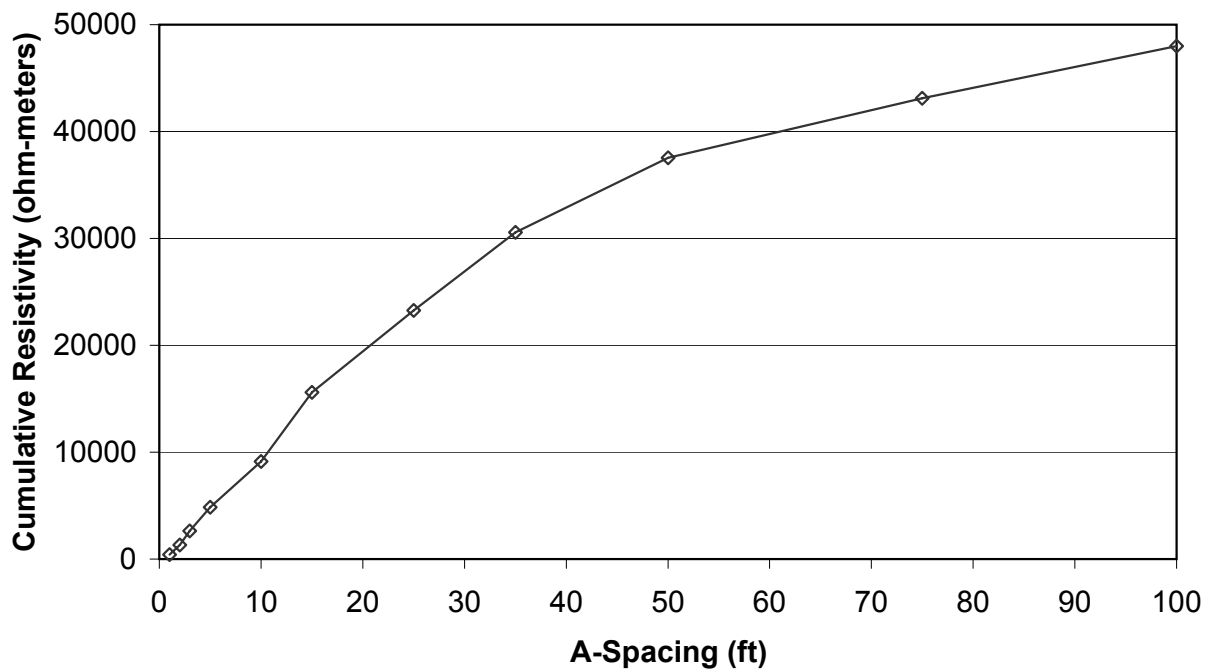


T-29B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	100	1418.847041	432.464578	0.010697	432
2	1	3	100	1443.524	879.9722301	0.040819	1312
3	1.5	4.5	50	1458.67477	1333.81221	0.017137	2646
5	2.5	7.5	20	1445.602917	2203.098846	0.002767	4849
10	5	15	20	1407.168673	4289.050114	0.016582	9138
15	7.5	22.5	20	1413.55553	6462.775885	0.034665	15601
25	12.5	37.5	20	1004.818932	7656.720265	0.043347	23258
35	17.5	52.5	20	686.2592382	7321.013553	0.050678	30579
50	25	75	20	456.3389524	6954.605635	0.040419	37534
75	37.5	112.5	20	244.2242713	5582.966842	0.053231	43116
100	50	150	20	160.4650129	4890.973594	0.027005	48007

T-29B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt29b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 31/10/2013 11:24:55

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	194	-1.5	1	1	100	22.581652	1418.847093	0.010697
2	279	-3	2	2	100	22.974398	2887.0481	0.040819
3	341	-4.5	3	3	50	11.607765	4376.024672	0.017137
4	431	-7.5	5	5	20	4.601497	7228.014888	0.002767
5	522	-15	10	10	20	4.479157	14071.6861	0.016582
6	680	-22.5	15	15	20	4.499487	21203.33152	0.034665
7	846	-37.5	25	25	20	3.198438	25120.47418	0.043347
8	1020	-52.5	35	35	20	2.184431	24019.06998	0.050678
9	1185	-75	50	50	20	1.452572	22816.95275	0.040419
10	1347	-112.5	75	75	20	0.77739	18316.82177	0.053231
11	1489	-150	100	100	20	0.510776	16046.51523	0.027005
12	1523	-150	100	100	10	0.2561	16091.22118	0.055242



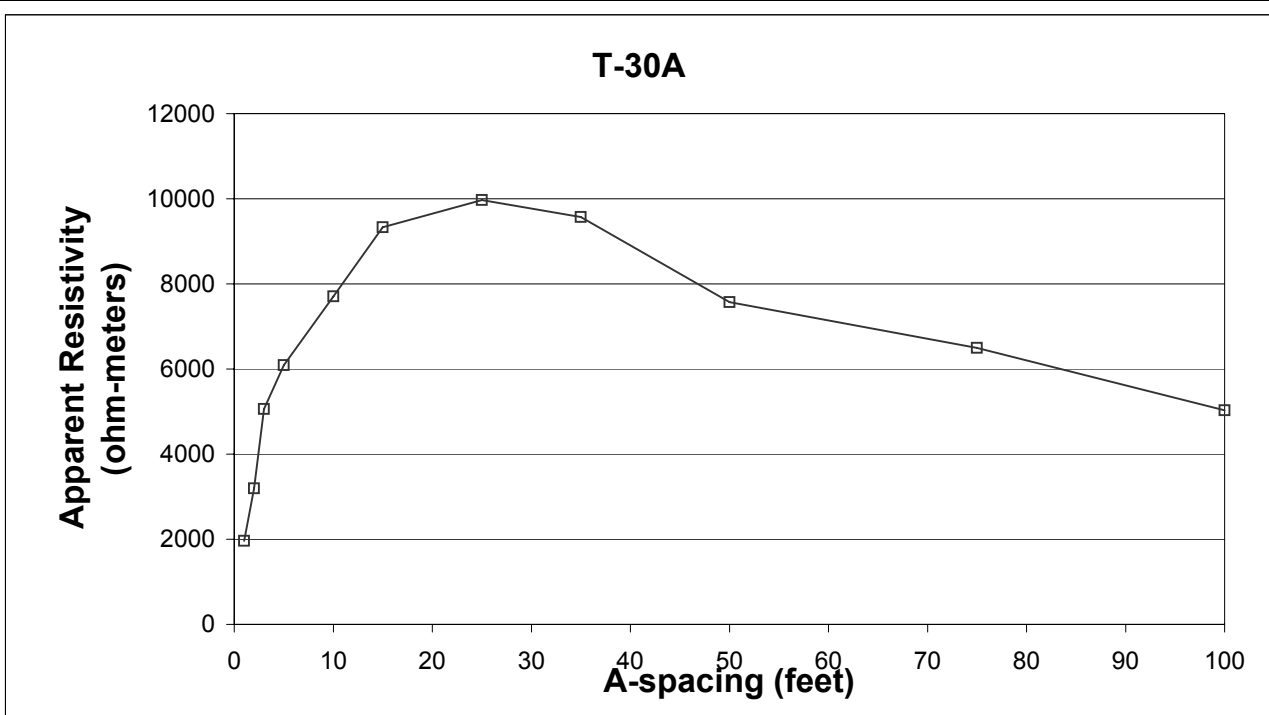
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-30A
 Orientation 83° (mag)
Outcrop and bouldery gravel soils

Date 10/31/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	1023.0	1,959.1	0.0472
2	1.00	3.00	20	834.4	3,195.9	0.0077
3	1.50	4.50	10	880.9	5,061.1	0.0500
5	2.50	7.50	20	636.2	6,091.7	0.0212
10	5.00	15.00	20	402.6	7,710.5	0.0353
15	7.50	22.50	20	324.9	9,332.5	0.0369
25	12.50	37.50	20	208.3	9,972.6	0.0568
35	17.50	52.50	10	142.8	9,570.5	0.0580
50	25.00	75.00	20	79.1	7,572.7	0.0595
75	37.50	112.50	20	45.2	6,499.1	0.0434
100	50.00	150.00	20	26.3	5,033.0	0.0182

Geomean 5,946
 Min 1,959
 Max 9,973
 Median 6,499
 Std. Dev. 2,608

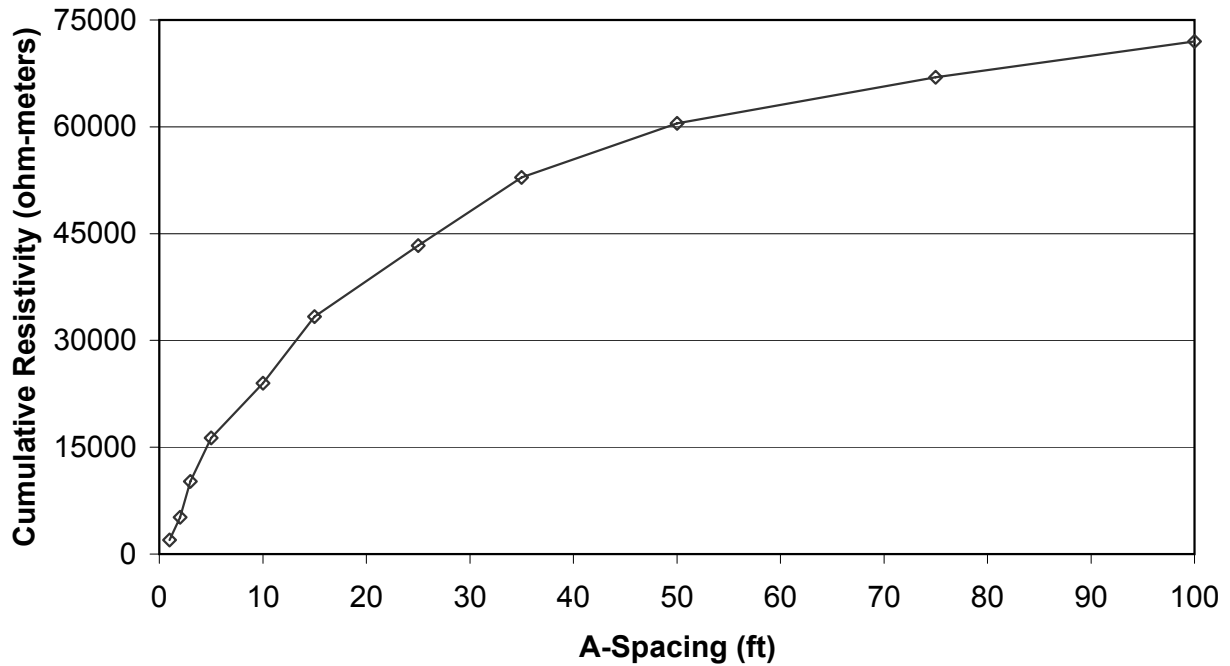


Cumulative Resistivity Sheet

T-30A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	6427.502534	1959.102772	0.047226	1959
2	1	3	20	5242.672856	3195.933373	0.007663	5155
3	1.5	4.5	10	5534.927052	5061.137296	0.050002	10216
5	2.5	7.5	20	3997.145723	6091.650081	0.021219	16308
10	5	15	20	2529.689573	7710.493818	0.035292	24018
15	7.5	22.5	20	2041.23349	9332.519518	0.036906	33351
25	12.5	37.5	20	1308.738176	9972.584905	0.056799	43323
35	17.5	52.5	10	897.1245079	9570.52425	0.057964	52894
50	25	75	20	496.897856	7572.723326	0.059481	60467
75	37.5	112.5	20	284.3006263	6499.112317	0.043382	66966
100	50	150	20	165.124309	5032.988938	0.018168	71999

T-30A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt30a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 31/10/2013 12:40:33

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	129	-1.5	1	1	10	10.229688	6427.50222	0.047226
2	196	-3	2	2	20	16.687946	10485.3462	0.007663
3	244	-4.5	3	3	10	8.80911	16604.78021	0.050002
4	314	-7.5	5	5	20	12.72331	19985.72755	0.021219
5	358	-15	10	10	20	8.052252	25296.89635	0.035292
6	410	-22.5	15	15	20	6.497448	30618.50292	0.036906
7	475	-37.5	25	25	20	4.165843	32718.45599	0.056799
8	546	-52.5	35	35	10	1.427818	31399.36434	0.057964
9	605	-75	50	50	20	1.581675	24844.89453	0.059481
10	709	-112.5	75	75	20	0.904957	21322.55166	0.043382
11	794	-150	100	100	20	0.525607	16512.42833	0.018168
12	827	-150	100	100	10	0.263552	16559.49158	0.091255



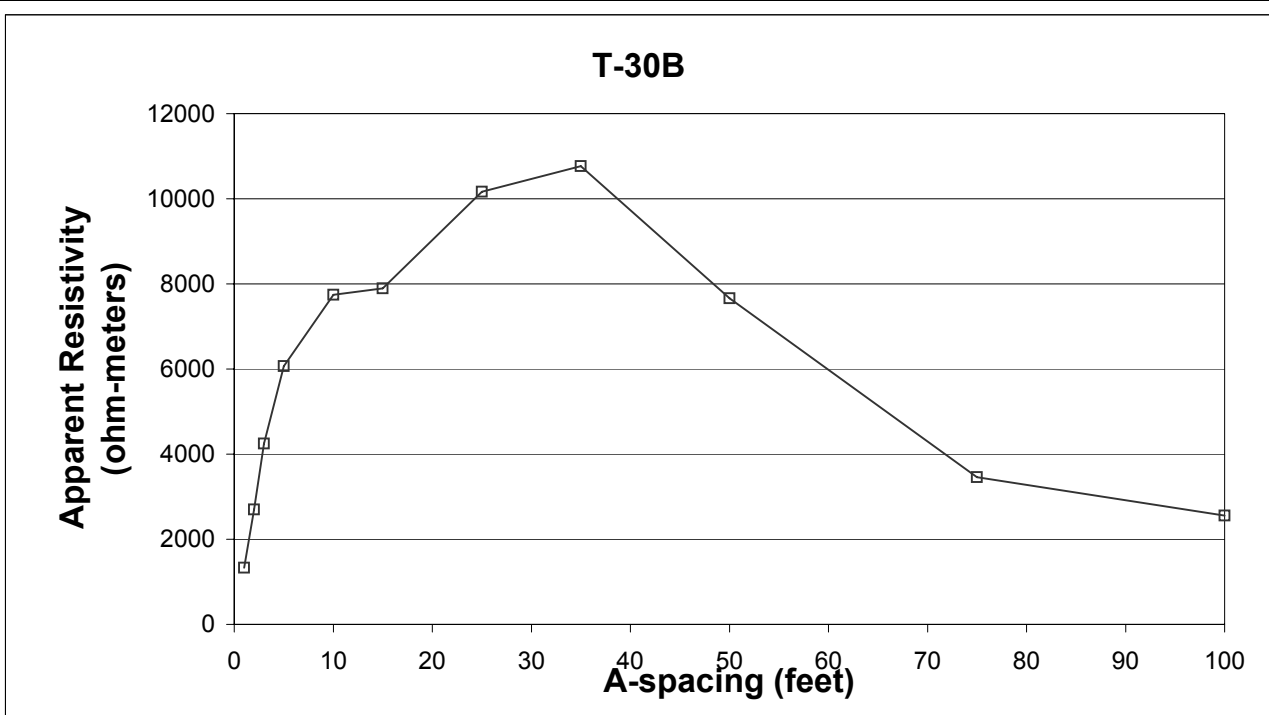
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-30B**
 Orientation **353° (mag)**
Outcrop and bouldery gravel soils

Date **10/31/2013**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	693.0	1,327.2	0.0287
2	1.00	3.00	20	705.6	2,702.8	0.0040
3	1.50	4.50	20	739.8	4,250.6	0.1844
5	2.50	7.50	10	633.3	6,064.3	0.0260
10	5.00	15.00	20	404.6	7,747.8	0.0105
15	7.50	22.50	20	274.7	7,891.1	0.0452
25	12.50	37.50	20	212.3	10,163.2	0.0379
35	17.50	52.50	20	160.6	10,768.1	0.0457
50	25.00	75.00	20	80.0	7,664.4	0.0555
75	37.50	112.50	20	24.1	3,455.7	0.0235
100	50.00	150.00	10	13.3	2,554.2	0.1402

Geomean 4,930
 Min 1,327
 Max 10,768
 Median 6,064
 Std. Dev. 3,216

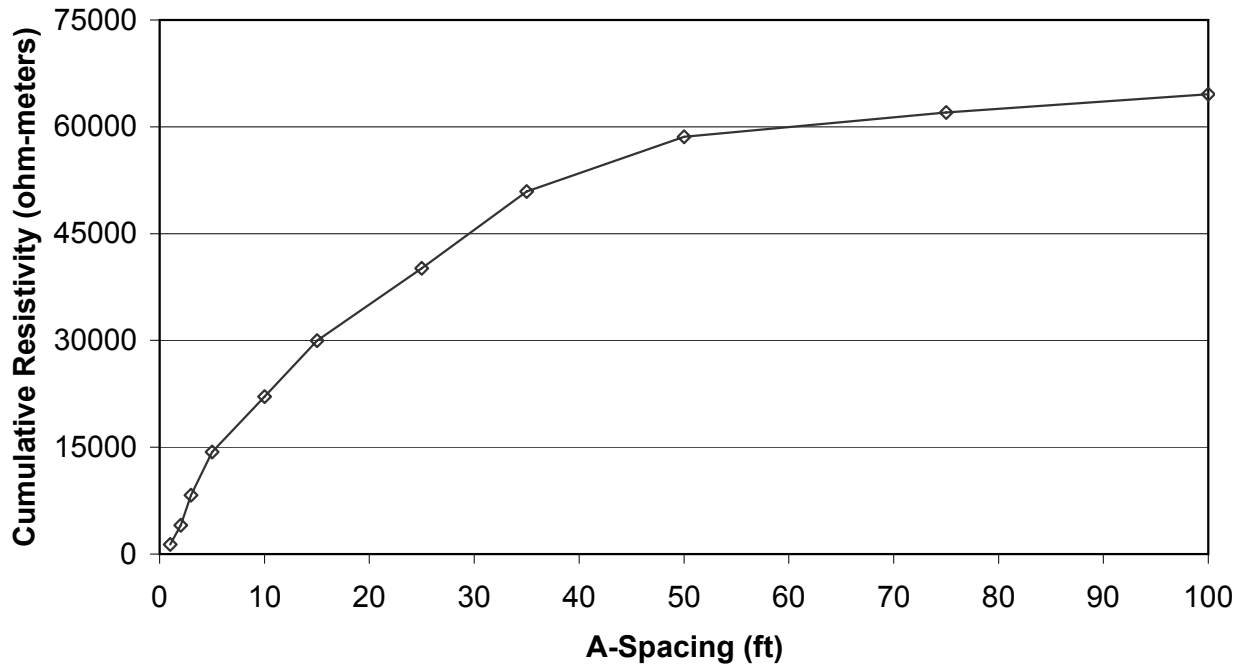


Cumulative Resistivity Sheet

T-30B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4354.232652	1327.170112	0.028705	1327
2	1	3	20	4433.648345	2702.752031	0.004027	4030
3	1.5	4.5	20	4648.475163	4250.565689	0.184375	8280
5	2.5	7.5	10	3979.194662	6064.292665	0.025969	14345
10	5	15	20	2541.936443	7747.82228	0.010537	22093
15	7.5	22.5	20	1725.953933	7891.061382	0.045193	29984
25	12.5	37.5	20	1333.751537	10163.18671	0.037905	40147
35	17.5	52.5	20	1009.381467	10768.08149	0.045683	50915
50	25	75	20	502.914006	7664.409451	0.055456	58579
75	37.5	112.5	20	151.1680978	3455.702715	0.023521	62035
100	50	150	10	83.79947076	2554.207869	0.140158	64589

T-30B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt30b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 31/10/2013 13:00:52

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	24	-1.5	1	1	20	13.859953	4354.232845	0.028705
2	98	-3	2	2	20	14.112741	8867.296362	0.004027
3	141	-4.5	3	3	20	14.796556	13945.42471	0.184375
4	224	-7.5	5	5	10	6.333085	19895.97242	0.025969
5	316	-15	10	10	20	8.091235	25419.36554	0.010537
6	403	-22.5	15	15	20	5.493882	25889.3111	0.045193
7	473	-37.5	25	25	20	4.245463	33343.78805	0.037905
8	537	-52.5	35	35	20	3.212961	35328.34933	0.045683
9	629	-75	50	50	20	1.600825	25145.69378	0.055456
10	728	-112.5	75	75	20	0.481183	11337.60676	0.023521
11	828	-150	100	100	10	0.133371	8379.975856	0.140158
12	923	-150	100	100	10	0.132615	8332.452413	0.075465



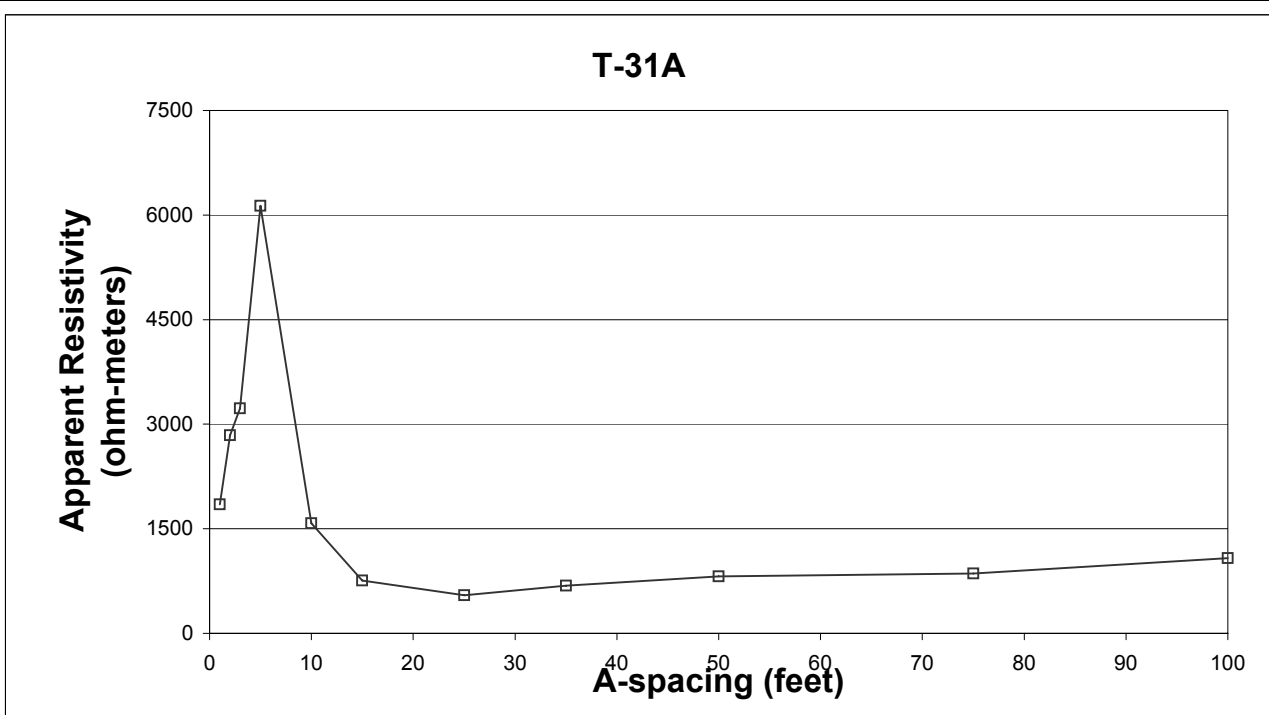
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-31A
 Orientation 129° (mag)
No outcrop, local ponding water

Date 10/31/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	966.5	1,850.9	0.0603
2	1.00	3.00	20	741.3	2,839.3	0.0403
3	1.50	4.50	20	561.3	3,224.6	0.0203
5	2.50	7.50	20	640.3	6,131.2	0.0155
10	5.00	15.00	20	82.4	1,578.8	0.1847
15	7.50	22.50	20	26.3	756.2	0.3393
25	12.50	37.50	20	11.4	544.4	0.5086
35	17.50	52.50	20	10.2	681.9	0.6762
50	25.00	75.00	50	8.6	819.0	0.3457
75	37.50	112.50	50	6.0	858.1	0.3398
100	50.00	150.00	20	5.6	1,076.4	0.0223

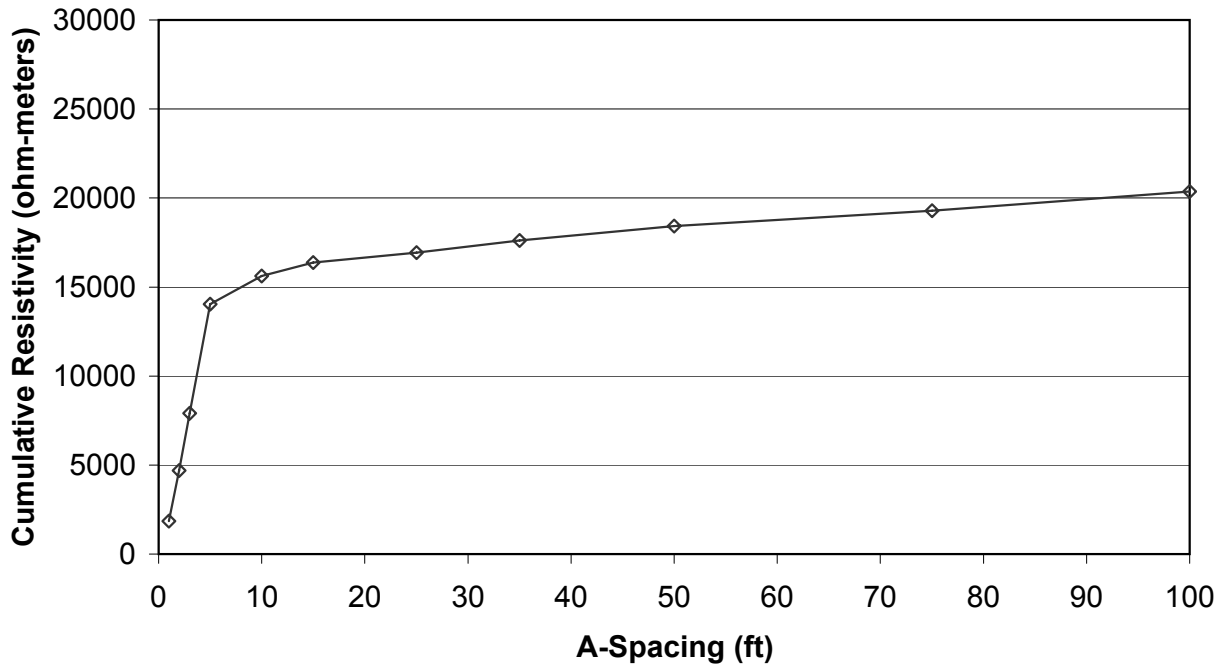
Geomean 1,381
 Min 544
 Max 6,131
 Median 1,076
 Std. Dev. 1,679



T-31A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6072.46675	1850.887865	0.060278	1851
2	1	3	20	4657.565361	2839.251844	0.040253	4690
3	1.5	4.5	20	3526.490218	3224.622656	0.020253	7915
5	2.5	7.5	20	4023.122924	6131.239336	0.015534	14046
10	5	15	20	517.9911374	1578.836987	0.184691	15625
15	7.5	22.5	20	165.4007691	756.2123165	0.33925	16381
25	12.5	37.5	20	71.43887446	544.3642234	0.508604	16925
35	17.5	52.5	20	63.91978661	681.8962835	0.676208	17607
50	25	75	50	53.74046092	819.0046245	0.345701	18426
75	37.5	112.5	50	37.53675433	858.0902041	0.339821	19284
100	50	150	20	35.31432886	1076.380744	0.022277	20361

**T-31A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt31a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 31/10/2013 13:44:42

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	41	-1.5	1	1	20	19.329262	6072.466585	0.060278
2	92	-3	2	2	20	14.825491	9315.130548	0.040253
3	128	-4.5	3	3	20	11.225167	10579.47088	0.020253
4	167	-7.5	5	5	20	12.805998	20115.61546	0.015534
6	286	-15	10	10	20	1.648817	5179.912769	0.184691
7	350	-22.5	15	15	20	0.526487	2481.012649	0.33925
8	432	-37.5	25	25	20	0.227397	1785.968741	0.508604
9	507	-52.5	35	35	20	0.203463	2237.190028	0.676208
10	571	-75	50	50	50	0.427653	2687.024412	0.345701
12	810	-112.5	75	75	50	0.298708	2815.256442	0.339821
13	909	-150	100	100	20	0.112409	3531.448178	0.022277
5	213	-7.5	5	5	10	2.665073	8372.575478	0.031718
11	675	-112.5	75	75	20	0.130139	3066.325879	1.041797
14	963	-150	100	100	10	0.056147	3527.79299	0.038476



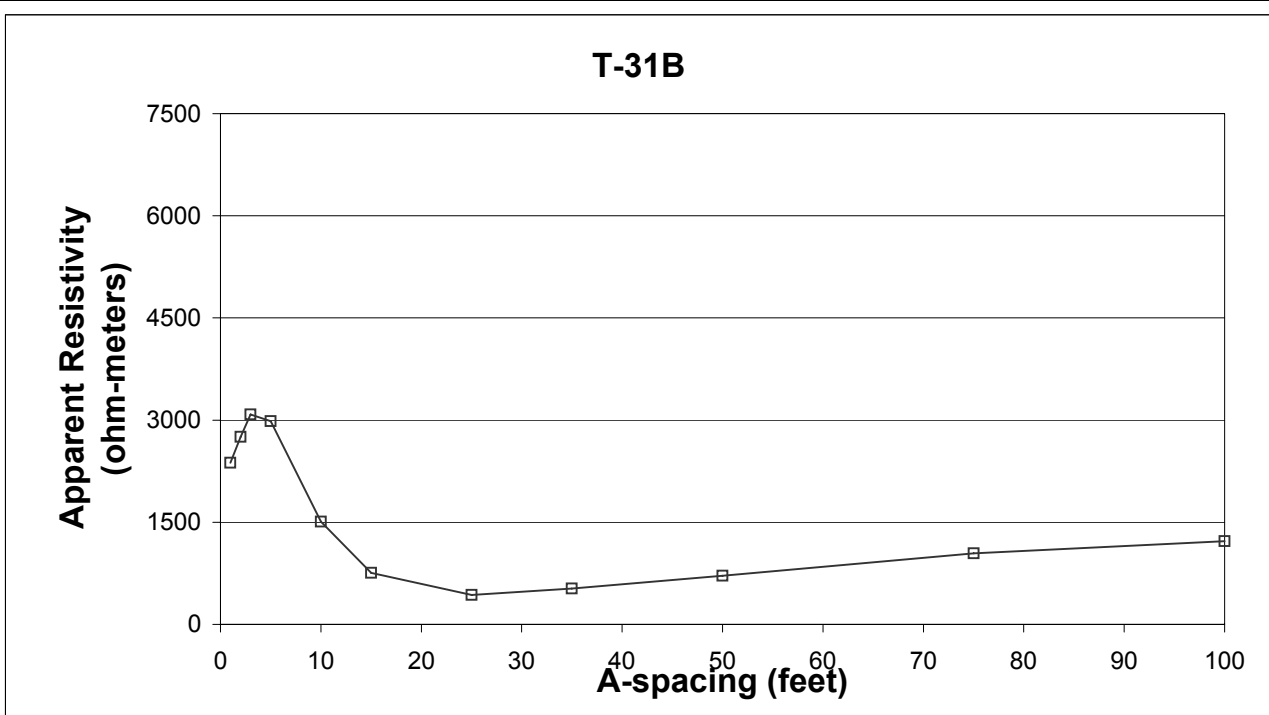
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-31B
 Orientation 353° (mag)
No outcrop, local ponding water

Date 10/31/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	1239.9	2,374.5	0.0458
2	1.00	3.00	20	718.6	2,752.3	0.0603
3	1.50	4.50	20	536.8	3,084.2	0.0582
5	2.50	7.50	20	311.7	2,985.1	0.0060
10	5.00	15.00	20	78.7	1,506.3	0.0214
15	7.50	22.50	20	26.3	755.9	0.0430
25	12.50	37.50	20	9.1	434.0	0.0351
35	17.50	52.50	20	7.8	524.8	0.7150
50	25.00	75.00	20	7.5	715.3	0.1055
75	37.50	112.50	20	7.2	1,041.2	0.1309
100	50.00	150.00	20	6.4	1,220.5	0.0252

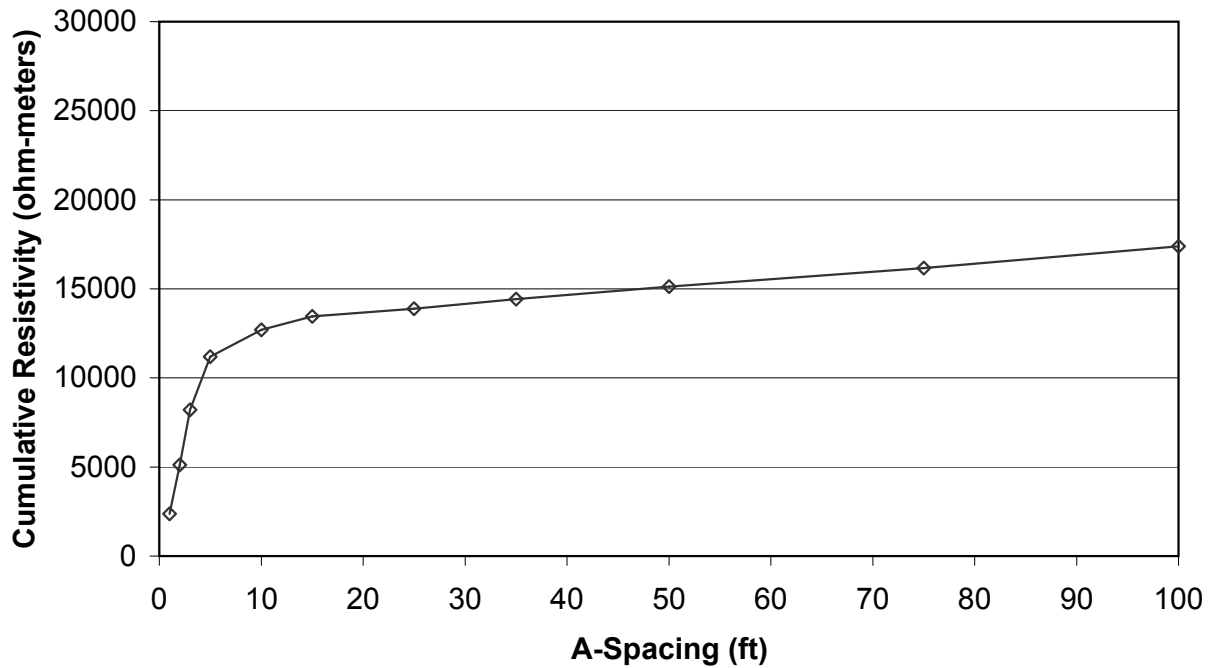
Geomean 1,273
 Min 434
 Max 3,084
 Median 1,220
 Std. Dev. 1,026



T-31B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2 <i>π</i> V/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7790.3226	2374.490328	0.04584	2374
2	1	3	20	4514.926373	2752.299117	0.06031	5127
3	1.5	4.5	20	3372.898382	3084.17828	0.058232	8211
5	2.5	7.5	20	1958.709506	2985.073288	0.006013	11196
10	5	15	20	494.1847766	1506.275199	0.02136	12702
15	7.5	22.5	20	165.337309	755.9221766	0.043011	13458
25	12.5	37.5	20	56.95927392	434.0296673	0.035113	13892
35	17.5	52.5	20	49.18917281	524.7500956	0.715031	14417
50	25	75	20	46.93822168	715.3384984	0.105461	15132
75	37.5	112.5	20	45.54775277	1041.221628	0.130879	16174
100	50	150	20	40.04179748	1220.473987	0.025182	17394

T-31B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt31b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 31/10/2013 14:10:46

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	45	-1.5	1	1	20	24.797367	7790.322965	0.04584
2	91	-3	2	2	20	14.371457	9029.853073	0.06031
3	125	-4.5	3	3	20	10.736269	10118.6945	0.058232
4	179	-7.5	5	5	20	6.234766	9793.547901	0.006013
5	237	-15	10	10	20	1.573039	4941.849017	0.02136
6	310	-22.5	15	15	20	0.526285	2480.058106	0.043011
7	375	-37.5	25	25	20	0.181307	1423.982381	0.035113
8	435	-52.5	35	35	20	0.156574	1721.625991	0.715031
9	515	-75	50	50	20	0.149409	2346.905967	0.105461
10	637	-112.5	75	75	20	0.144983	3416.083385	0.130879
11	712	-150	100	100	20	0.127457	4004.165031	0.025182
12	770	-150	100	100	10	0.064653	4062.262156	0.998003



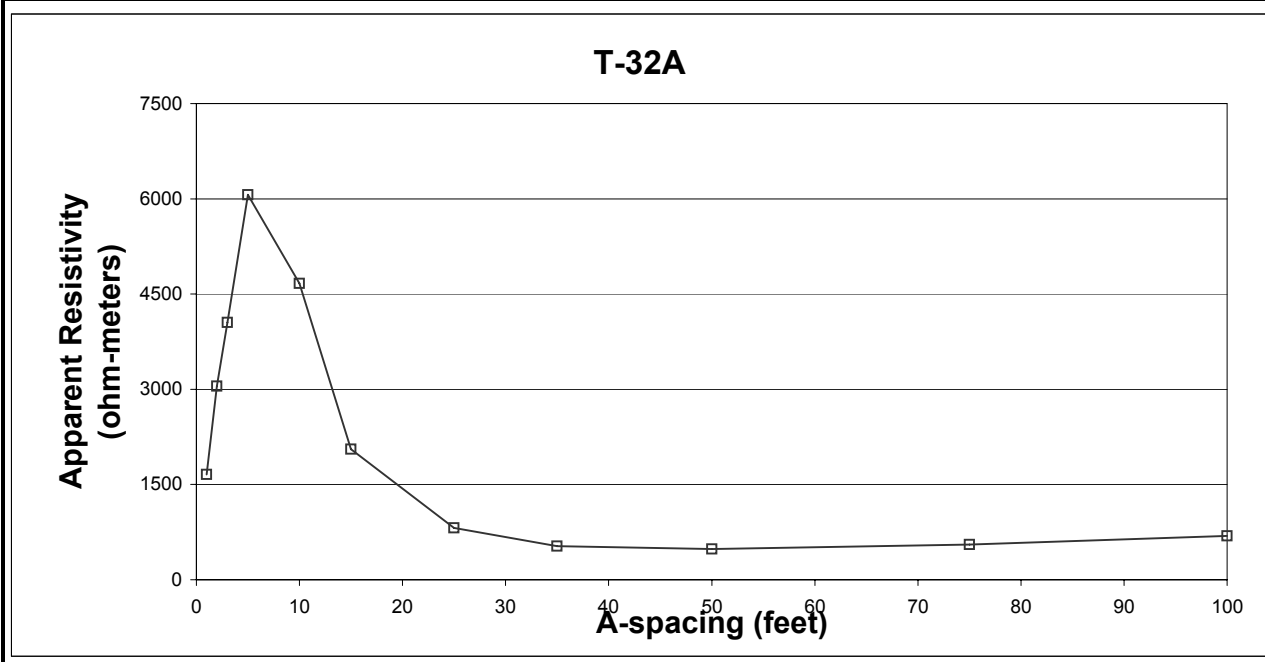
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-32A
 Orientation 320° (mag)
Frost to 0.5, No Outcrop

Date 11/12/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	17.339	866.9	1,660.3	0.0311
2	1.00	3.00	20	15.935	796.8	3,051.8	0.0143
3	1.50	4.50	20	14.103	705.2	4,051.4	0.0131
5	2.50	7.50	20	12.664	633.2	6,063.1	0.0067
10	5.00	15.00	10	2.436	243.6	4,666.0	0.0234
15	7.50	22.50	20	1.430	71.5	2,054.7	0.0020
25	12.50	37.50	10	0.170	17.0	814.7	0.0603
35	17.50	52.50	20	0.157	7.9	527.2	0.0115
50	25.00	75.00	20	0.101	5.0	483.5	0.0495
75	37.50	112.50	50	0.193	3.9	554.1	0.0018
100	50.00	150.00	50	0.180	3.6	688.9	0.0413

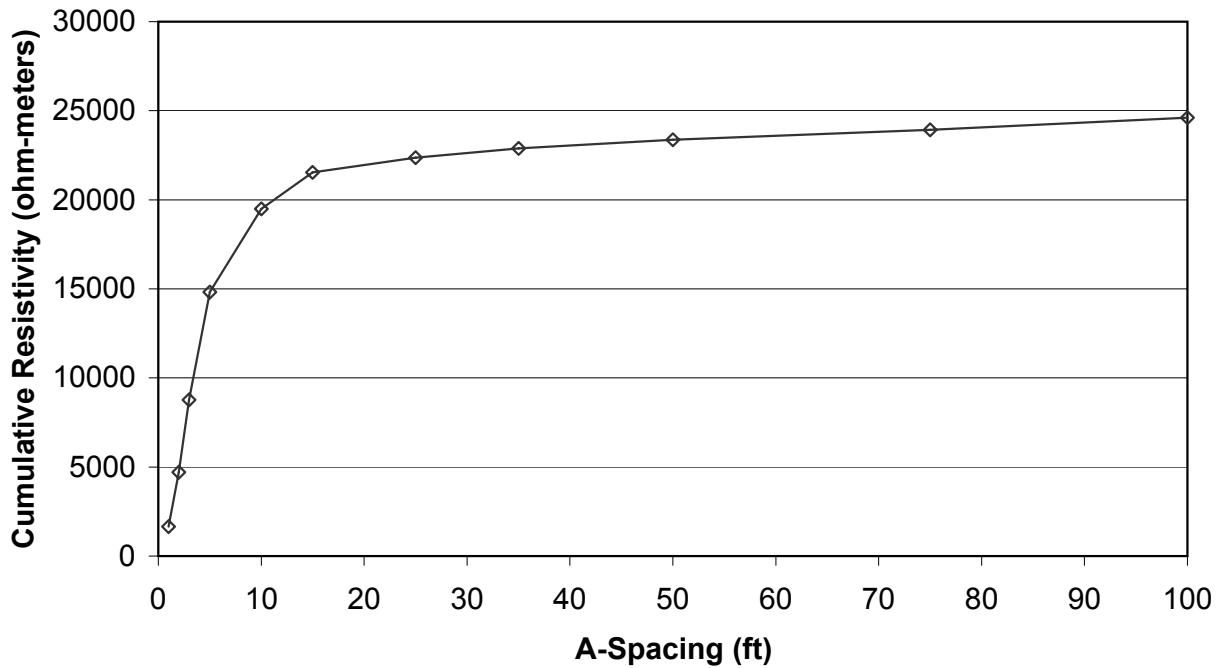
Geomean 1,512
 Min 484
 Max 6,063
 Median 1,660
 Std. Dev. 1,952



T-32A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2 <i>ρ</i> V/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Error	Cumulative Resistivity
1	0.5	1.5	20	5447.051993	1660.261448	0.031141	1660
2	1	3	20	5006.161509	3051.756056	0.014267	4712
3	1.5	4.5	20	4430.712526	4051.443534	0.013097	8763
5	2.5	7.5	20	3978.428114	6063.124445	0.006732	14827
10	5	15	10	1530.837782	4665.993558	0.023372	19493
15	7.5	22.5	20	449.3998025	2054.655897	0.001978	21547
25	12.5	37.5	10	106.9178228	814.7138096	0.060276	22362
35	17.5	52.5	20	49.41788076	527.1899519	0.011547	22889
50	25	75	20	31.72882916	483.5473565	0.049502	23373
75	37.5	112.5	50	24.23726166	554.0638015	0.001834	23927
100	50	150	50	22.60174852	688.901295	0.041296	24616

T-32A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt32a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 12/11/2013 11:53

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	102	-1.5	1	1	20	17.338505	5447.051496	0.031141
2	171	-3	2	2	20	15.935107	10012.32328	0.014267
4	238	-4.5	3	3	20	14.103396	13292.13758	0.013097
5	885	-7.5	5	5	20	12.66373	19892.13939	0.006732
6	965	-15	10	10	10	2.436404	15308.37661	0.023372
7	1087	-22.5	15	15	20	1.430484	6740.997799	0.001978
8	1193	-37.5	25	25	10	0.170165	2672.952535	0.060276
9	1352	-52.5	35	35	20	0.157302	1729.623185	0.011547
10	1527	-75	50	50	20	0.100996	1586.434692	0.049502
11	1754	-112.5	75	75	50	0.192874	1817.793299	0.001834
12	1948	-150	100	100	50	0.179859	2260.175083	0.041296
3	212	-4.5	3	3	20	12.092946	11397.33383	0.024675
13	1991	-150	100	100	20	0.071962	2260.741637	0.078052



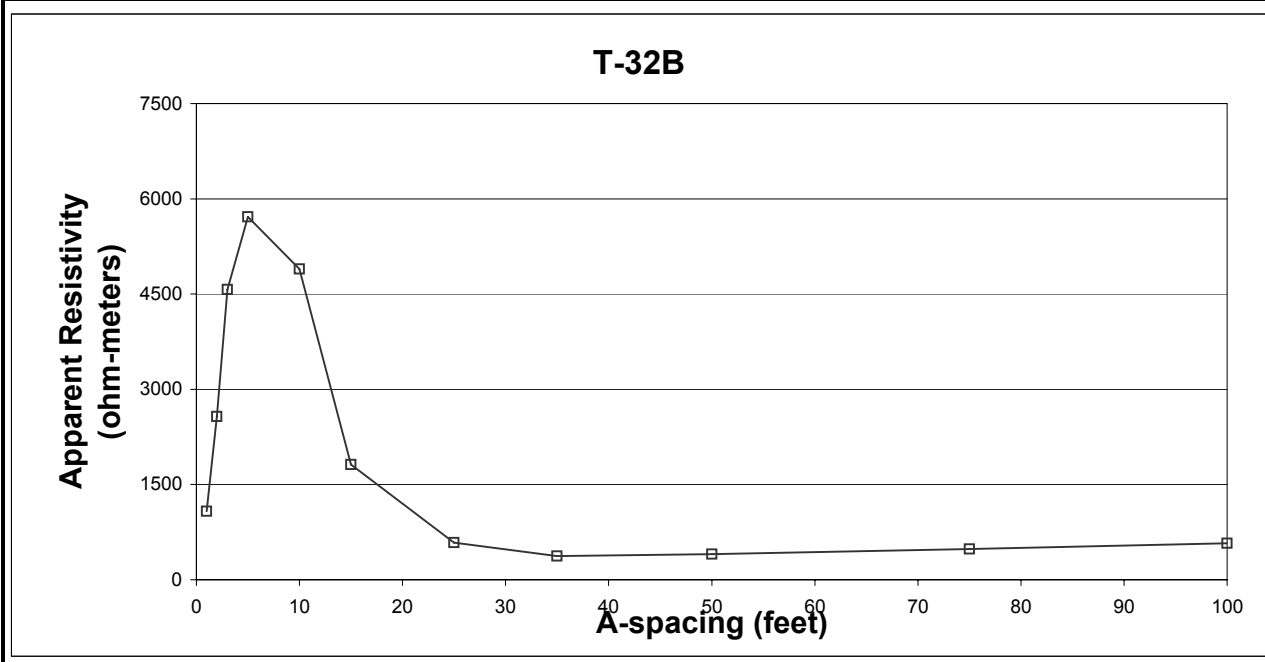
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-32B**
 Orientation **79° (mag)**
Frost to 0.5, No Outcrop, Pounded water @ 85-90 on C1

Date **11/12/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

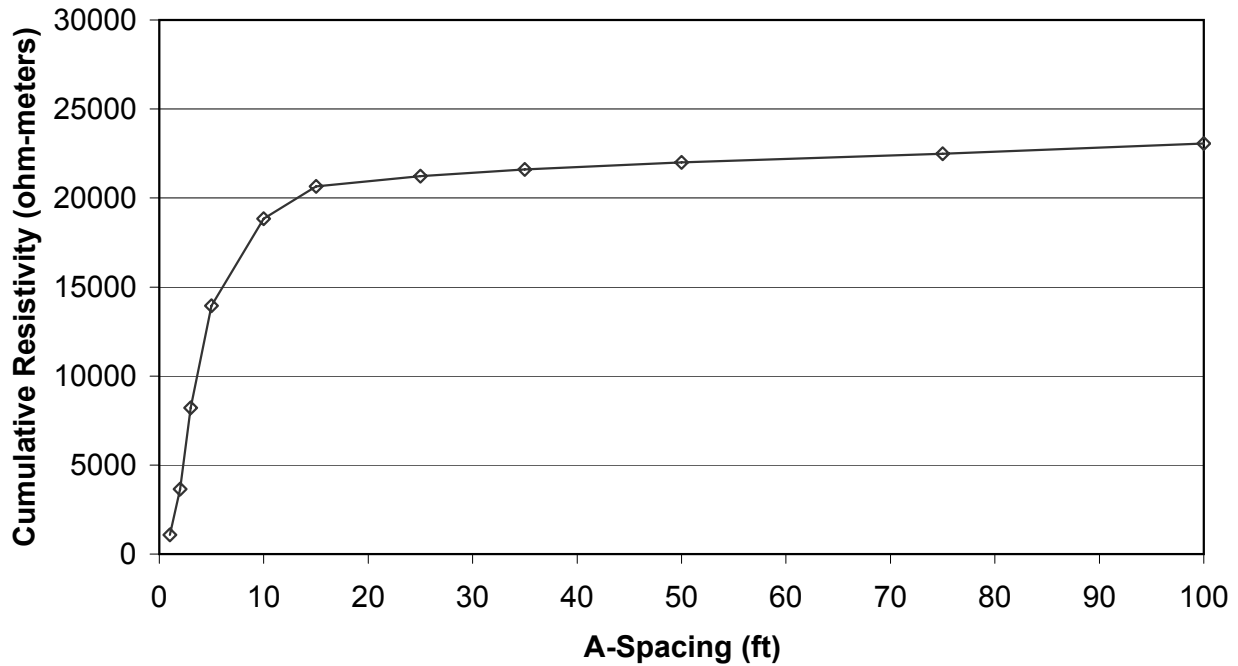
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	11.253	562.7	1,077.6	0.0619
2	1.00	3.00	20	13.433	671.6	2,572.5	0.0476
3	1.50	4.50	20	15.920	796.0	4,573.4	0.0357
5	2.50	7.50	20	11.941	597.0	5,717.0	0.0107
10	5.00	15.00	20	5.110	255.5	4,893.0	0.0168
15	7.50	22.50	10	0.631	63.1	1,812.9	0.0129
25	12.50	37.50	20	0.245	12.2	586.4	0.0029
35	17.50	52.50	20	0.111	5.5	371.3	0.0319
50	25.00	75.00	20	0.084	4.2	402.5	0.0379
75	37.50	112.50	20	0.067	3.4	483.7	0.0272
100	50.00	150.00	50	0.150	3.0	575.8	0.0212

Geomean 1,284
 Min 371
 Max 5,717
 Median 1,078
 Std. Dev. 2,036



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	3535.359877	1077.57769	0.061869	1078
2	1	3	20	4219.989571	2572.505642	0.047601	3650
3	1.5	4.5	20	5001.490274	4573.362707	0.0357	8223
5	2.5	7.5	20	3751.322695	5717.015787	0.01071	13940
10	5	15	20	1605.331227	4893.049578	0.016819	18834
15	7.5	22.5	10	396.5230283	1812.903285	0.01289	20646
25	12.5	37.5	20	76.96148019	586.4464791	0.002888	21233
35	17.5	52.5	20	34.80916076	371.344127	0.031921	21604
50	25	75	20	26.40791369	402.4566046	0.037868	22007
75	37.5	112.5	20	21.15894068	483.693384	0.027231	22490
100	50	150	50	18.8901453	575.7716287	0.021175	23066

T-32B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt32b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 12/11/2013 12:43

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	97	-1.5	1	1	20	11.2534	3535.359769	0.061869
2	209	-3	2	2	20	13.432644	8439.979169	0.047601
3	269	-4.5	3	3	20	15.920238	15004.46971	0.0357
4	389	-7.5	5	5	20	11.940831	18756.61394	0.01071
5	472	-15	10	10	20	5.109928	16053.31124	0.016819
6	568	-22.5	15	15	10	0.631086	5947.844763	0.01289
7	653	-37.5	25	25	20	0.244976	1924.034052	0.002888
8	756	-52.5	35	35	20	0.110801	1218.320528	0.031921
10	1399	-75	50	50	20	0.084059	1320.389243	0.037868
11	1531	-112.5	75	75	20	0.067351	1586.929266	0.027231
12	1699	-150	100	100	50	0.150323	1889.015848	0.021175
9	916	-75	50	50	20	0.163566	2569.2809	0.004325
13	1727	-150	100	100	20	0.060143	1889.442786	0.029322



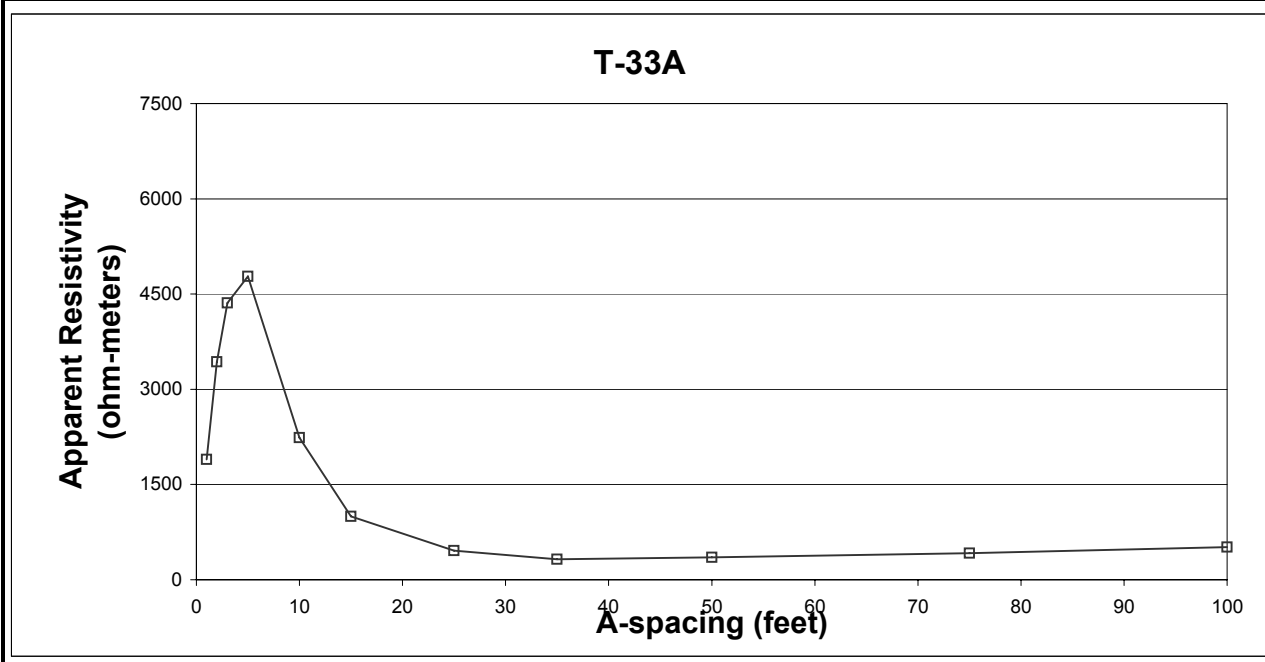
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-33A
 Orientation 288° (mag)
Bouldery, no outcrop

Date 11/12/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	9.888	988.8	1,893.6	0.0302
2	1.00	3.00	20	17.922	896.1	3,432.2	0.0246
3	1.50	4.50	20	15.176	758.8	4,359.6	0.0290
5	2.50	7.50	20	9.975	498.8	4,776.1	0.0342
10	5.00	15.00	20	2.337	116.8	2,237.4	0.0003
15	7.50	22.50	20	0.696	34.8	999.2	0.0071
25	12.50	37.50	20	0.191	9.6	457.7	0.0055
35	17.50	52.50	20	0.096	4.8	321.8	0.0293
50	25.00	75.00	20	0.073	3.7	351.8	0.0296
75	37.50	112.50	20	0.058	2.9	418.6	0.0634
100	50.00	150.00	20	0.054	2.7	513.6	0.0176

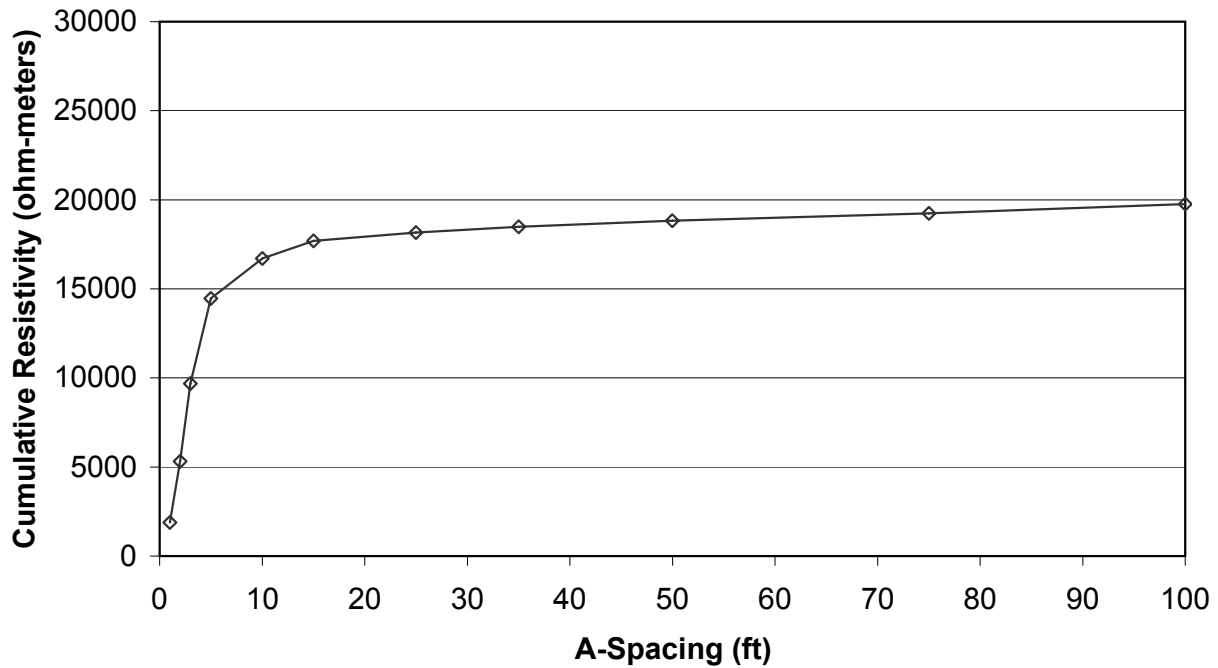
Geomean 1,117
 Min 322
 Max 4,776
 Median 999
 Std. Dev. 1,690



T-33A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	6212.675402	1893.623462	0.030177	1894
2	1	3	20	5630.219411	3432.181753	0.024578	5326
3	1.5	4.5	20	4767.693263	4359.57872	0.029024	9685
5	2.5	7.5	20	3133.893238	4776.053295	0.034185	14461
10	5	15	20	734.0516589	2237.389456	0.000303	16699
15	7.5	22.5	20	218.5423797	999.1757599	0.007118	17698
25	12.5	37.5	20	60.07133561	457.7435773	0.005549	18156
35	17.5	52.5	20	30.16840009	321.8364922	0.029291	18478
50	25	75	20	23.08599361	351.8305427	0.029637	18829
75	37.5	112.5	20	18.31014446	418.5699024	0.063389	19248
100	50	150	20	16.85056052	513.6050845	0.01759	19762

T-33A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt33a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 12/11/2013 13:49

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	36	-1.5	1	1	10	9.88778	6212.675497	0.030177
2	141	-3	2	2	20	17.921545	11260.43908	0.024578
3	207	-4.5	3	3	20	15.176039	14303.07962	0.029024
4	336	-7.5	5	5	20	9.975492	15669.4661	0.034185
5	440	-15	10	10	20	2.336559	7340.517518	0.000303
6	545	-22.5	15	15	20	0.695642	3278.136838	0.007118
7	638	-37.5	25	25	20	0.191213	1501.785317	0.005549
8	741	-52.5	35	35	20	0.096029	1055.899092	0.029291
9	864	-75	50	50	20	0.073485	1154.302941	0.029637
10	995	-112.5	75	75	20	0.058283	1373.267126	0.063389
11	1165	-150	100	100	20	0.053637	1685.044939	0.01759
12	1204	-150	100	100	10	0.026933	1692.270827	0.030446



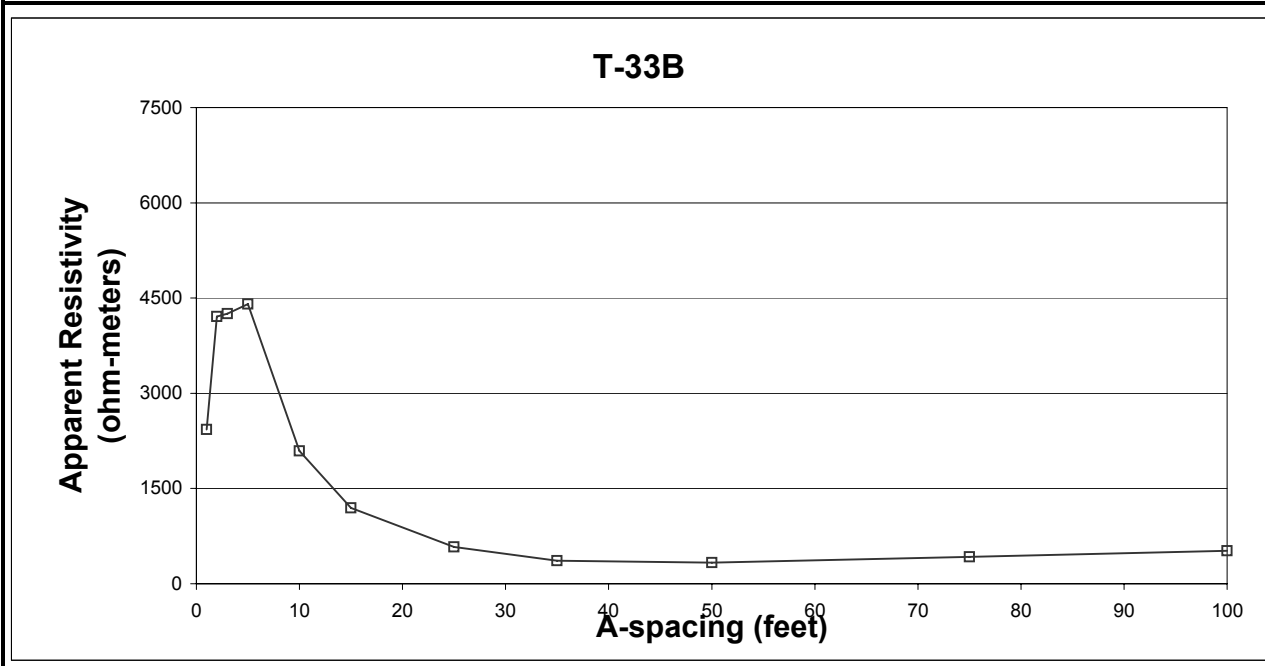
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-33B**
 Orientation **34° (mag)**
Bouldery, no outcrop

Date **11/12/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

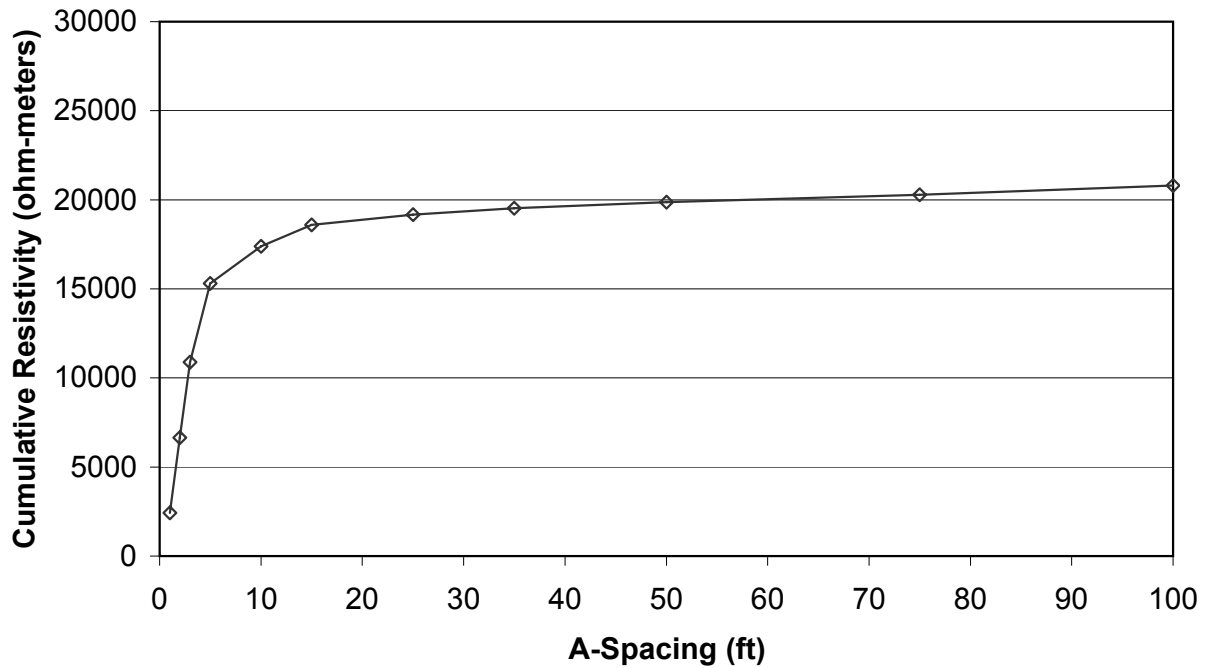
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	25.364	1268.2	2,428.8	0.0700
2	1.00	3.00	20	21.984	1099.2	4,210.3	0.0446
3	1.50	4.50	20	14.807	740.4	4,253.6	0.0384
5	2.50	7.50	20	9.203	460.2	4,406.3	0.0324
10	5.00	15.00	20	2.183	109.2	2,090.5	0.0194
15	7.50	22.50	20	0.832	41.6	1,195.6	0.0076
25	12.50	37.50	20	0.243	12.1	581.3	0.0262
35	17.50	52.50	10	0.054	5.4	365.2	0.1097
50	25.00	75.00	20	0.070	3.5	333.8	0.0587
75	37.50	112.50	10	0.029	2.9	423.4	0.0574
100	50.00	150.00	10	0.027	2.7	521.7	0.0217

Geomean 1,201
 Min 334
 Max 4,406
 Median 1,196
 Std. Dev. 1,691



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	7968.376447	2428.761141	0.070025	2429
2	1	3	20	6906.616776	4210.273587	0.044596	6639
3	1.5	4.5	20	4651.820645	4253.624798	0.038384	10893
5	2.5	7.5	20	2891.258613	4406.278126	0.032422	15299
10	5	15	20	685.8684241	2090.526957	0.01944	17389
15	7.5	22.5	20	261.4976902	1195.56744	0.007648	18585
25	12.5	37.5	20	76.28101122	581.2613055	0.026219	19166
35	17.5	52.5	10	34.23142187	365.1808085	0.109731	19531
50	25	75	20	21.90412646	333.8188872	0.058679	19865
75	37.5	112.5	10	18.52157365	423.4031736	0.05743	20289
100	50	150	10	17.11476846	521.6581426	0.021688	20810

T-33B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt33b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 12/11/2013 14:23

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	163	-1.5	1	1	20	25.36413	7968.376717	0.070025
2	269	-3	2	2	20	21.984444	13813.23315	0.044596
3	316	-4.5	3	3	20	14.807205	13955.46155	0.038384
4	378	-7.5	5	5	20	9.203162	14456.29343	0.032422
5	469	-15	10	10	20	2.183187	6858.686003	0.01944
6	617	-22.5	15	15	20	0.832373	3922.464855	0.007648
7	802	-37.5	25	25	20	0.24281	1907.023793	0.026219
8	924	-52.5	35	35	10	0.054481	1198.103455	0.109731
9	1057	-75	50	50	20	0.069723	1095.212174	0.058679
11	1319	-112.5	75	75	10	0.029478	1389.134615	0.05743
12	1504	-150	100	100	10	0.027239	1711.482289	0.021688
10	1219	-112.5	75	75	10	0.025794	1215.520609	2.295441
13	1538	-150	100	100	10	0.027243	1711.756578	0.179628



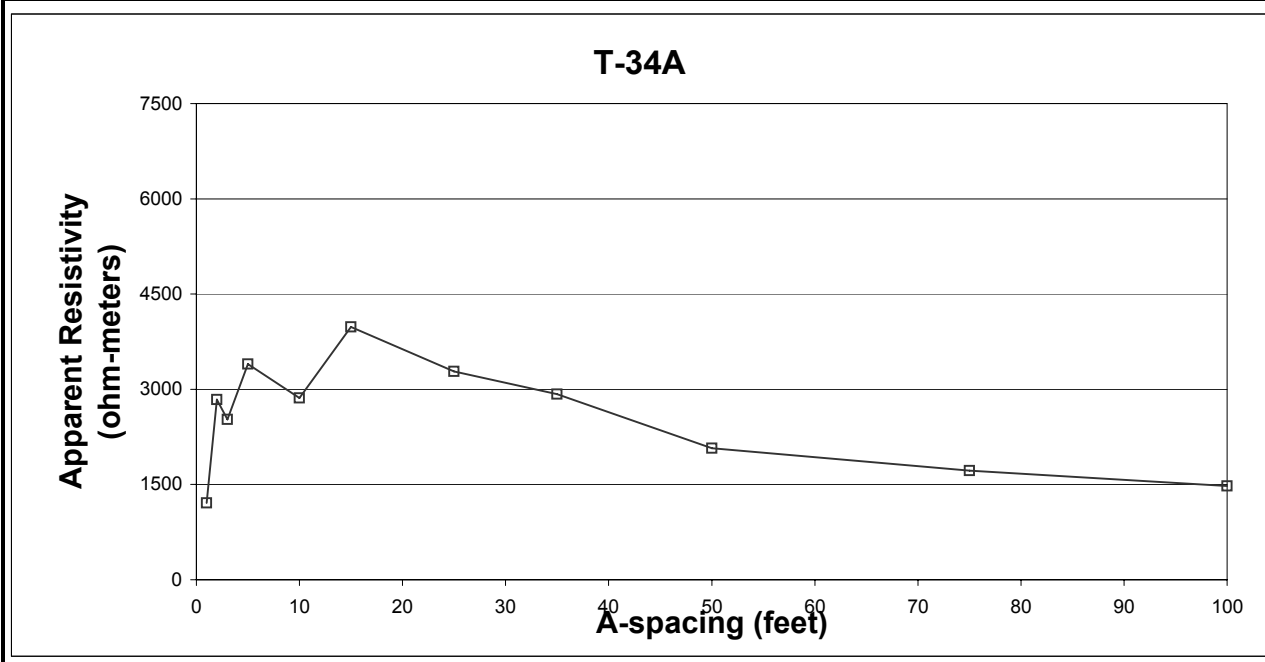
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-34A
 Orientation 175° (mag)
Bouldery, no outcrop

Date 11/13/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	12.611	630.5	1,207.5	0.1003
2	1.00	3.00	20	14.814	740.7	2,837.0	0.0259
3	1.50	4.50	50	21.974	439.5	2,525.0	0.0504
5	2.50	7.50	20	7.096	354.8	3,397.3	0.0357
10	5.00	15.00	20	2.988	149.4	2,861.5	0.9115
15	7.50	22.50	50	6.930	138.6	3,981.4	0.0388
25	12.50	37.50	50	3.428	68.6	3,282.6	0.0228
35	17.50	52.50	50	2.181	43.6	2,923.9	0.0668
50	25.00	75.00	20	0.433	21.6	2,072.5	0.0498
75	37.50	112.50	50	0.598	12.0	1,717.3	0.0515
100	50.00	150.00	20	0.154	7.7	1,476.5	0.0279

Geomean 2,423
 Min 1,208
 Max 3,981
 Median 2,837
 Std. Dev. 866

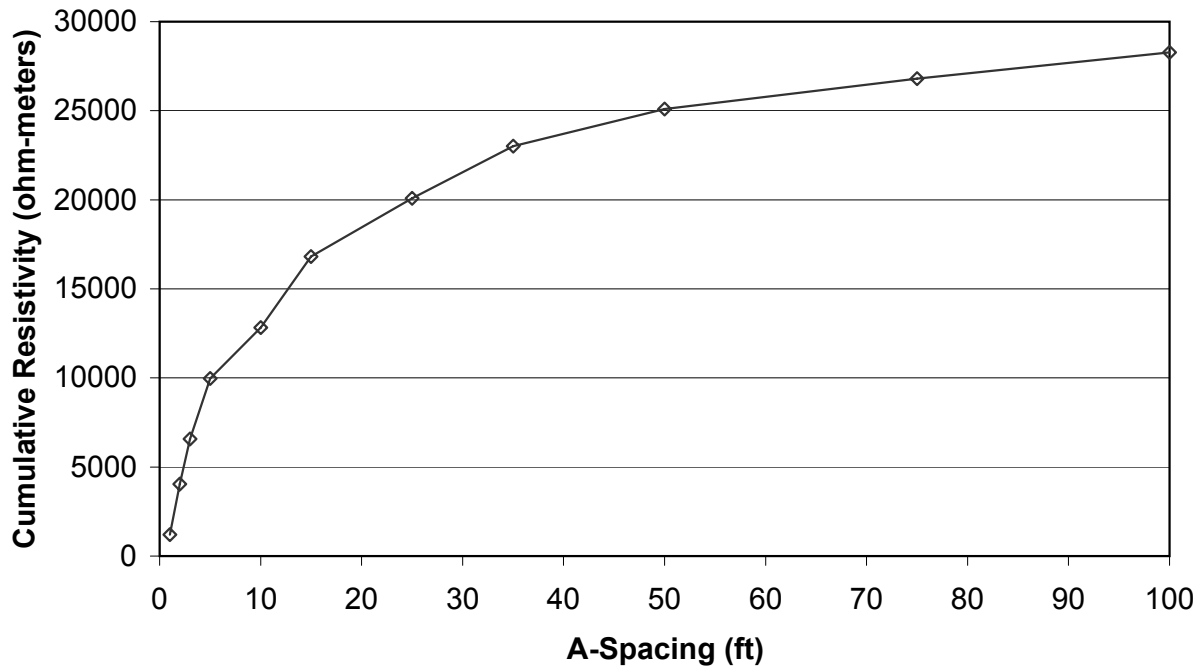


Cumulative Resistivity Sheet

T-34A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	3961.730234	1207.535375	0.10028	1208
2	1	3	20	4653.872419	2837.000627	0.025898	4045
3	1.5	4.5	50	2761.396734	2525.021173	0.050436	6570
5	2.5	7.5	20	2229.168904	3397.253409	0.035689	9967
10	5	15	20	938.8093583	2861.490924	0.911455	12828
15	7.5	22.5	50	870.8232199	3981.403761	0.03884	16810
25	12.5	37.5	50	430.7916466	3282.632347	0.022801	20092
35	17.5	52.5	50	274.0815909	2923.902412	0.06681	23016
50	25	75	20	135.9879221	2072.455933	0.049842	25089
75	37.5	112.5	50	75.12038123	1717.251915	0.051474	26806
100	50	150	20	48.44241624	1476.524847	0.027905	28282

T-34A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt34a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 13/11/2013 09:12:01

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	29	-1.5	1	1	20	12.610579	3961.730113	0.10028
2	278	-3	2	2	20	14.813736	9307.745198	0.025898
3	351	-4.5	3	3	50	21.974497	8284.189997	0.050436
4	465	-7.5	5	5	20	7.095665	11145.844	0.035689
5	537	-15	10	10	20	2.988323	9388.093769	0.911455
6	617	-22.5	15	15	50	6.929791	13062.34879	0.03884
7	731	-37.5	25	25	50	3.428131	10769.79029	0.022801
8	804	-52.5	35	35	50	2.181072	9592.855037	0.06681
9	881	-75	50	50	20	0.432863	6799.390215	0.049842
11	1000	-112.5	75	75	50	0.597789	5634.025011	0.051474
12	1126	-150	100	100	20	0.154197	4844.246014	0.027905
10	968	-112.5	75	75	50	0.407283	3838.553379	0.039078
13	1159	-150	100	100	10	0.077417	4864.22911	0.024374



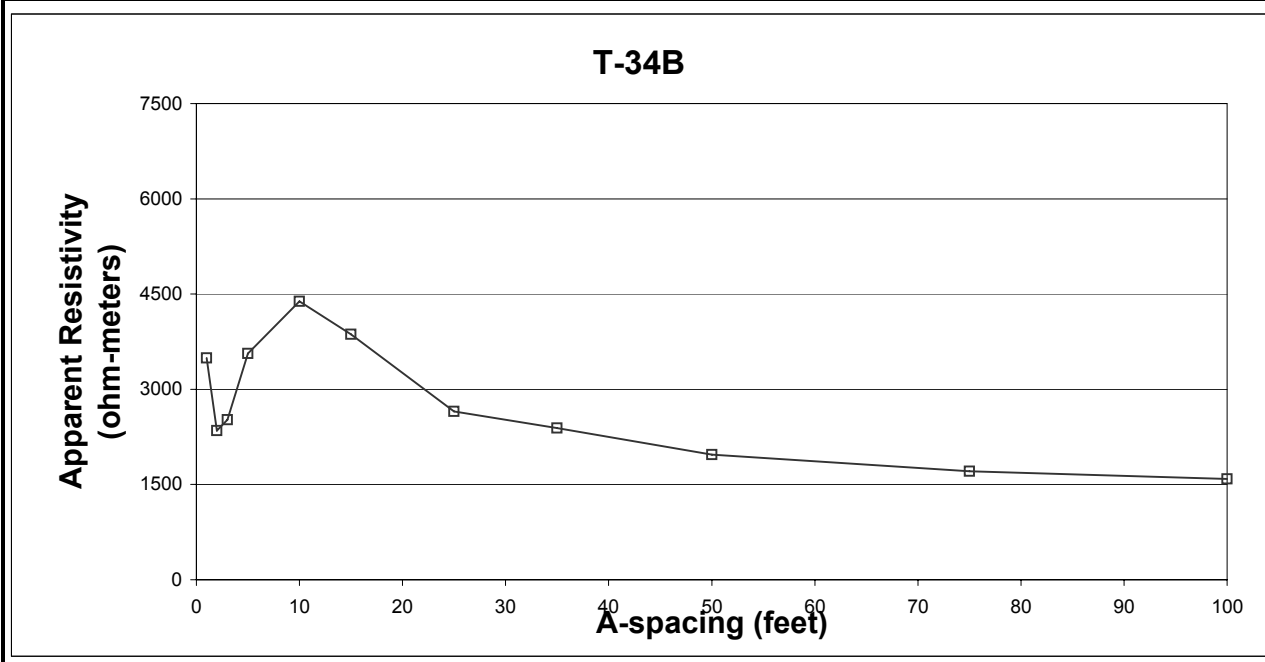
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-34B
 Orientation 79° (mag)
Bouldery, no outcrop

Date 11/13/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	91.156	1823.1	3,491.5	0.0622
2	1.00	3.00	20	12.268	613.4	2,349.4	0.0498
3	1.50	4.50	20	8.767	438.4	2,518.5	0.0292
5	2.50	7.50	20	7.445	372.3	3,564.7	0.0314
10	5.00	15.00	50	11.442	228.8	4,382.7	0.0385
15	7.50	22.50	20	2.690	134.5	3,864.3	0.0376
25	12.50	37.50	20	1.108	55.4	2,653.6	0.0262
35	17.50	52.50	50	1.783	35.7	2,389.9	0.0198
50	25.00	75.00	20	0.411	20.6	1,969.3	0.0327
75	37.50	112.50	100	1.189	11.9	1,707.1	0.0408
100	50.00	150.00	50	0.415	8.3	1,588.0	0.0529

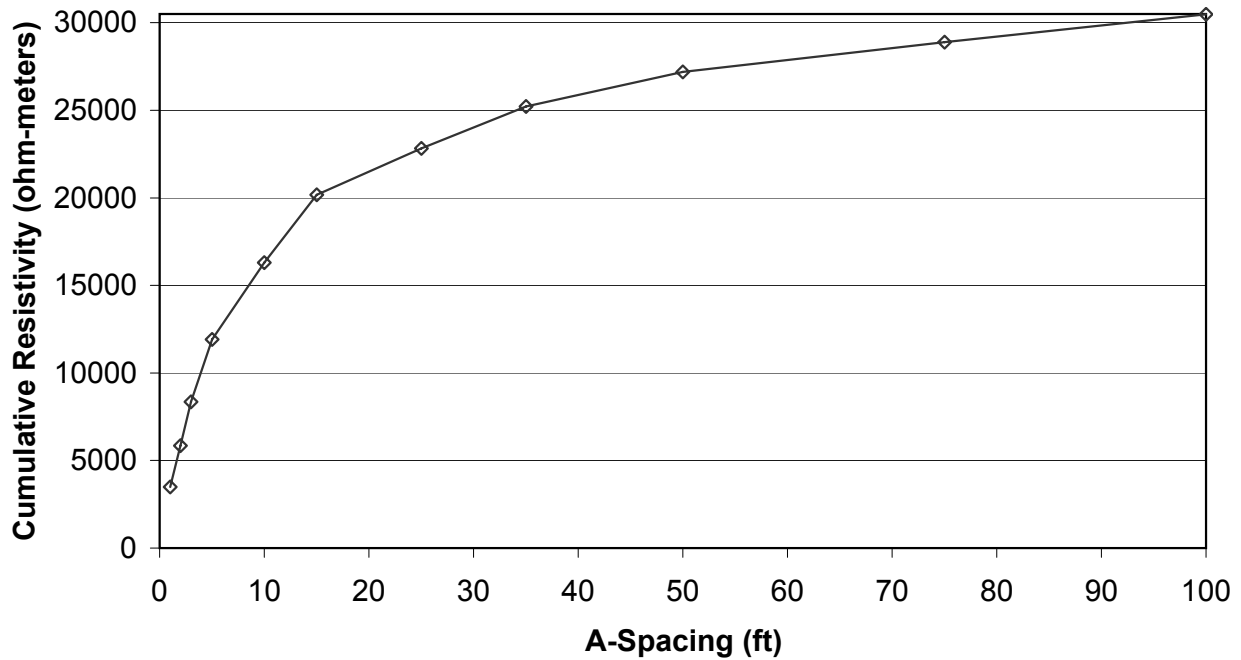
Geomean 2,633
 Min 1,588
 Max 4,383
 Median 2,518
 Std. Dev. 923



T-34B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	11455.02643	3491.492057	0.062194	3491
2	1	3	20	3853.969836	2349.380012	0.049805	5841
3	1.5	4.5	20	2754.238049	2518.475272	0.029173	8359
5	2.5	7.5	20	2339.044222	3564.703394	0.031352	11924
10	5	15	50	1437.880191	4382.658823	0.038496	16307
15	7.5	22.5	20	845.2156583	3864.32599	0.037598	20171
25	12.5	37.5	20	348.2408333	2653.595149	0.026164	22825
35	17.5	52.5	50	224.0237049	2389.884884	0.01984	25215
50	25	75	20	129.2221881	1969.346147	0.032675	27184
75	37.5	112.5	100	74.67703968	1707.117127	0.040769	28891
100	50	150	50	52.10117788	1588.043902	0.052889	30479

**T-34B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt34b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 13/11/2013 09:32:40

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	582	-1.5	1	1	50	91.156204	11455.02608	0.062194
2	638	-3	2	2	20	12.267567	7707.938993	0.049805
3	736	-4.5	3	3	20	8.767012	8262.713883	0.029173
4	793	-7.5	5	5	20	7.445409	11695.22101	0.031352
5	898	-15	10	10	50	11.442287	14378.80247	0.038496
6	970	-22.5	15	15	20	2.690405	12678.23473	0.037598
7	1103	-37.5	25	25	20	1.108485	8706.020477	0.026164
8	1196	-52.5	35	35	50	1.782724	7840.831344	0.01984
9	1284	-75	50	50	20	0.411327	6461.111499	0.032675
10	1427	-112.5	75	75	100	1.188522	5600.778224	0.040769
11	1571	-150	100	100	50	0.414608	5210.122603	0.052889



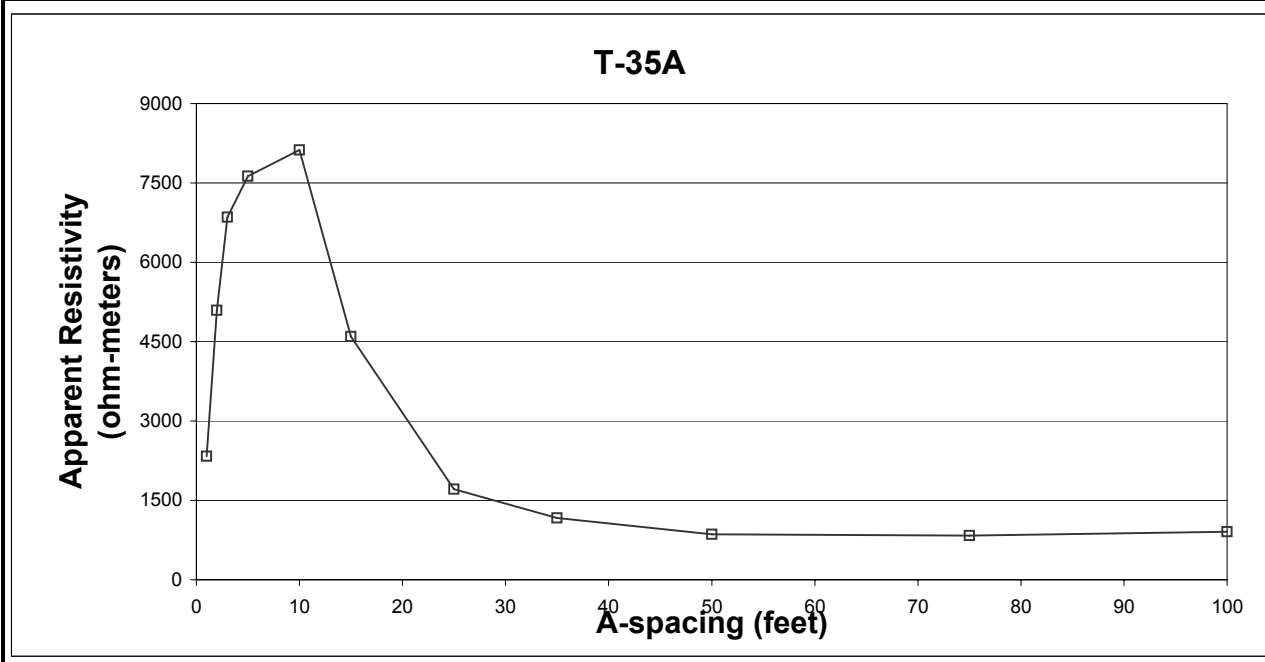
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-35A**
 Orientation **280° (mag)**
Bouldery, no outcrop, moist silty, snow cover

Date **11/13/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	24.392	1219.6	2,335.7	0.0489
2	1.00	3.00	10	13.296	1329.6	5,092.8	0.0321
3	1.50	4.50	20	23.856	1192.8	6,853.1	0.0482
5	2.50	7.50	10	7.963	796.3	7,624.6	0.0410
10	5.00	15.00	10	4.240	424.0	8,120.8	0.0217
15	7.50	22.50	10	1.600	160.0	4,596.3	0.0117
25	12.50	37.50	20	0.716	35.8	1,714.7	0.0040
35	17.50	52.50	20	0.347	17.4	1,164.6	0.0438
50	25.00	75.00	20	0.180	9.0	860.5	0.0020
75	37.50	112.50	20	0.117	5.8	837.2	0.0389
100	50.00	150.00	20	0.095	4.7	905.8	0.1669

Geomean 2,555
 Min 837
 Max 8,121
 Median 2,336
 Std. Dev. 2,896

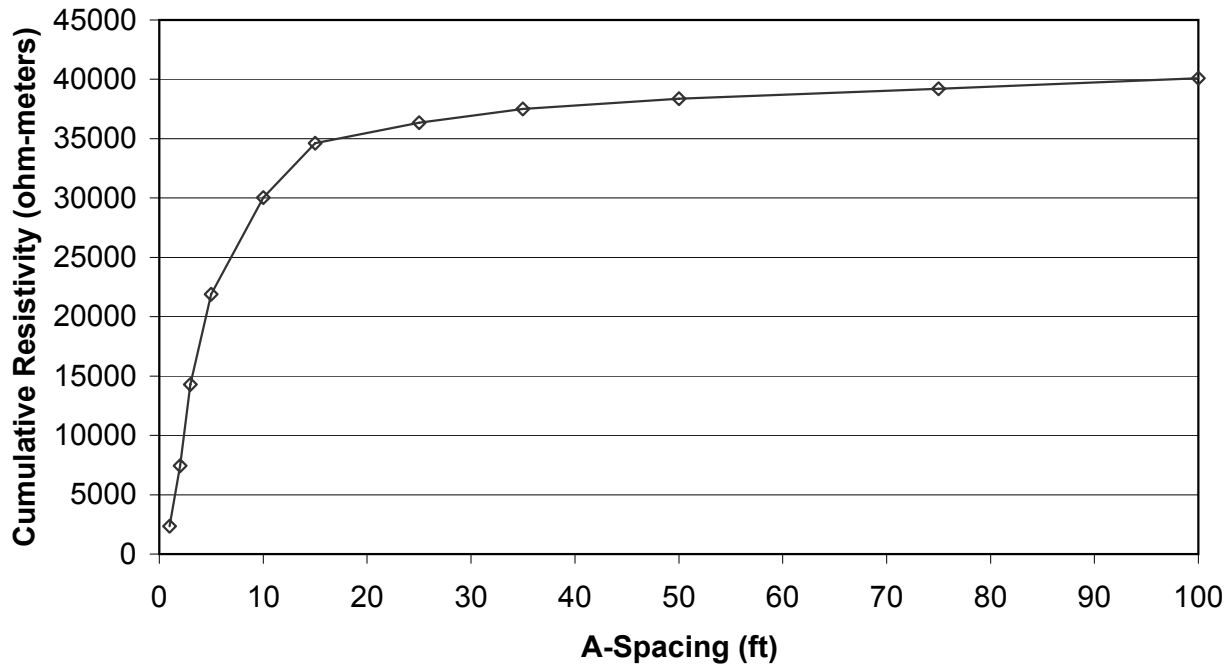


Cumulative Resistivity Sheet

T-35A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7662.929132	2335.6608	0.048932	2336
2	1	3	10	8354.313565	5092.789549	0.032059	7428
3	1.5	4.5	20	7494.659775	6853.116898	0.048244	14282
5	2.5	7.5	10	5003.00515	7624.579849	0.041043	21906
10	5	15	10	2664.301791	8120.79186	0.021686	30027
15	7.5	22.5	10	1005.324729	4596.34466	0.011716	34623
25	12.5	37.5	20	225.0212862	1714.662201	0.00395	36338
35	17.5	52.5	20	109.1690881	1164.615832	0.043766	37503
50	25	75	20	56.46195981	860.4802675	0.001968	38363
75	37.5	112.5	20	36.62343052	837.2116217	0.038878	39200
100	50	150	20	29.71789571	905.8014611	0.166852	40106

T-35A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt35a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 13/11/2013 10:52:44

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	43	-1.5	1	1	20	24.391861	7662.928929	0.048932
2	133	-3	2	2	10	13.296303	16708.62649	0.032059
4	221	-4.5	3	3	20	23.856243	22483.97902	0.048244
5	297	-7.5	5	5	10	7.96253	25015.02738	0.041043
6	380	-15	10	10	10	4.240368	26643.01818	0.021686
7	452	-22.5	15	15	10	1.600024	15079.8734	0.011716
8	554	-37.5	25	25	20	0.716265	5625.531791	0.00395
9	632	-52.5	35	35	20	0.347496	3820.918442	0.043766
10	712	-75	50	50	20	0.179724	2823.097795	0.001968
11	843	-112.5	75	75	20	0.116576	2746.745924	0.038878
12	1002	-150	100	100	20	0.094595	2971.781879	0.166852
3	190	-4.5	3	3	20	14.864977	14009.91058	1.33884
13	1035	-150	100	100	10	0.04747	2982.602136	0.056654



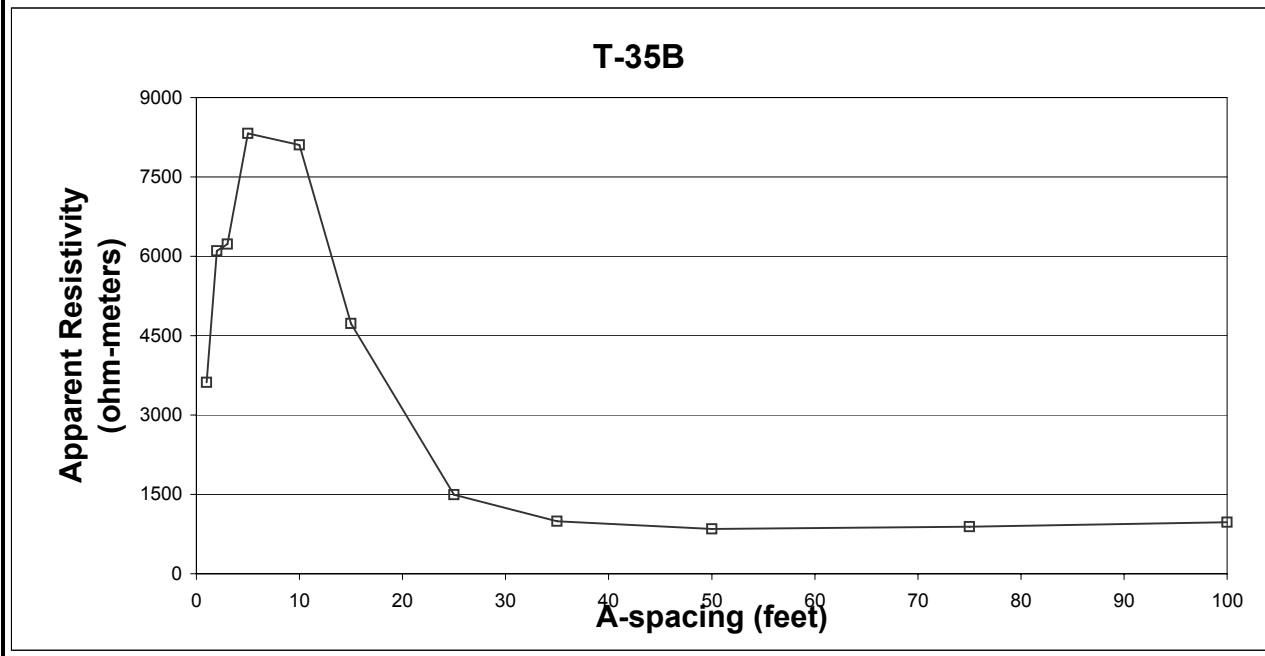
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-35B
 Orientation 10° (mag)
Bouldery, no outcrop

Date 11/13/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

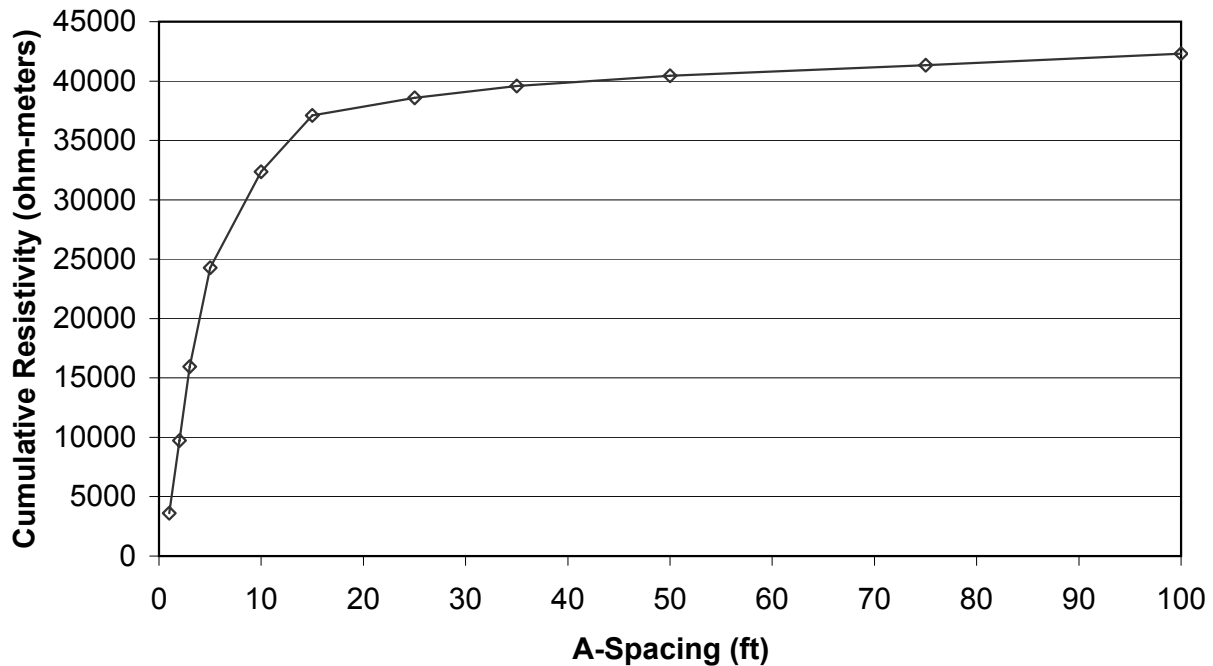
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	37.790	1889.5	3,618.6	0.0500
2	1.00	3.00	20	31.857	1592.8	6,100.9	0.0294
3	1.50	4.50	10	10.842	1084.2	6,228.9	0.0485
5	2.50	7.50	20	17.377	868.8	8,319.7	0.0450
10	5.00	15.00	20	8.462	423.1	8,102.5	0.0017
15	7.50	22.50	20	3.293	164.7	4,730.3	0.0259
25	12.50	37.50	20	0.623	31.2	1,491.9	0.0227
35	17.50	52.50	20	0.296	14.8	991.7	0.0072
50	25.00	75.00	20	0.177	8.9	849.3	0.0638
75	37.50	112.50	10	0.062	6.2	891.3	0.1179
100	50.00	150.00	20	0.102	5.1	976.3	0.0191

Geomean 2,664
 Min 849
 Max 8,320
 Median 3,619
 Std. Dev. 2,989



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	11872.12325	3618.623166	0.050007	3619
2	1	3	20	10008.09318	6100.933601	0.029438	9720
3	1.5	4.5	10	6812.018395	6228.90962	0.048492	15948
5	2.5	7.5	20	5459.141156	8319.731122	0.044973	24268
10	5	15	20	2658.31423	8102.541773	0.001679	32371
15	7.5	22.5	20	1034.619452	4730.280134	0.025882	37101
25	12.5	37.5	20	195.7906515	1491.924765	0.0227	38593
35	17.5	52.5	20	92.96412485	991.7412839	0.007171	39585
50	25	75	20	55.72745544	849.286421	0.063804	40434
75	37.5	112.5	10	38.98779315	891.2609514	0.117944	41325
100	50	150	20	32.0316787	976.3255667	0.019112	42302

T-35B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt35b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 13/11/2013 11:13:10

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	577	-1.5	1	1	20	37.790142	11872.12312	0.050007
2	662	-3	2	2	20	31.85675	20016.18666	0.029438
3	724	-4.5	3	3	10	10.841664	20436.05484	0.048492
4	797	-7.5	5	5	20	17.376986	27295.70591	0.044973
5	867	-15	10	10	20	8.461677	26583.14116	0.001679
6	957	-22.5	15	15	20	3.293296	15519.28986	0.025882
7	1032	-37.5	25	25	20	0.623221	4894.762518	0.0227
8	1101	-52.5	35	35	20	0.295914	3253.749419	0.007171
9	1176	-75	50	50	20	0.177386	2786.366745	0.063804
10	1289	-112.5	75	75	10	0.062051	2924.06474	0.117944
11	1395	-150	100	100	20	0.10196	3203.167302	0.019112
12	1430	-150	100	100	10	0.051149	3213.805099	0.0643



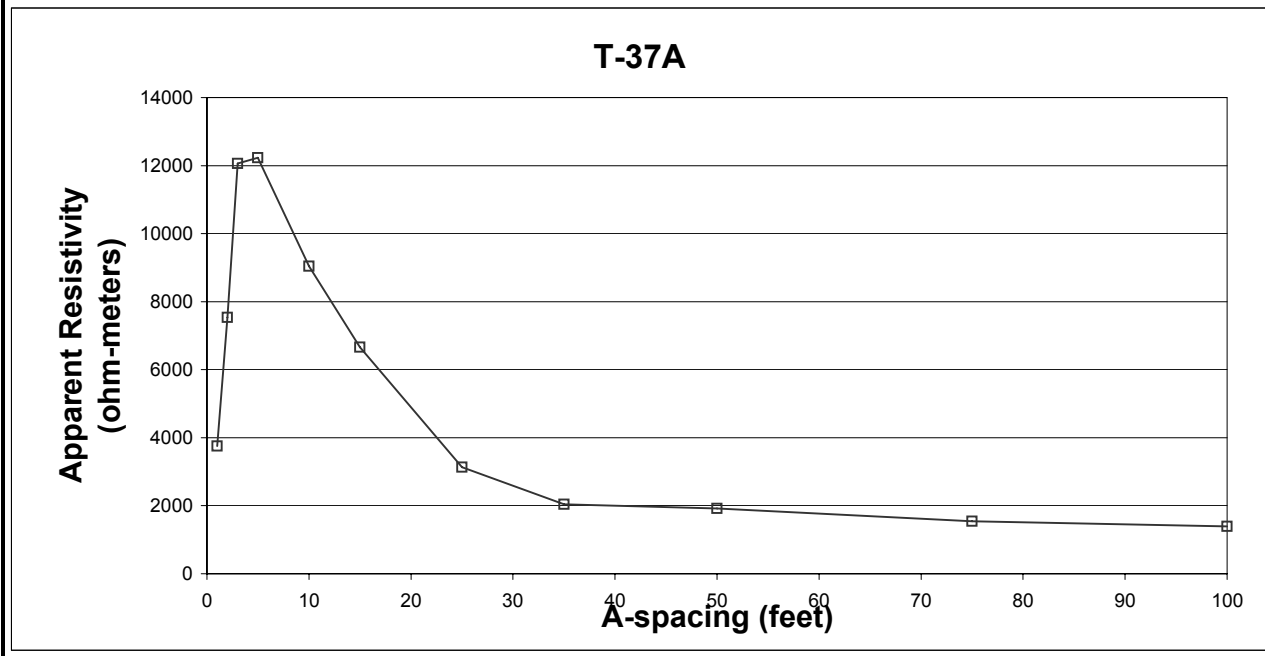
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-37A
 Orientation 20° (mag)
Bouldery, no outcrop, moist silty soil

Date 11/13/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	19.623	1962.3	3,758.1	0.0275
2	1.00	3.00	10	19.677	1967.7	7,536.6	0.0542
3	1.50	4.50	20	41.994	2099.7	12,063.5	0.0420
5	2.50	7.50	10	12.773	1277.3	12,230.4	0.0145
10	5.00	15.00	20	9.444	472.2	9,043.1	0.0075
15	7.50	22.50	10	2.318	231.8	6,659.4	0.0180
25	12.50	37.50	10	0.655	65.5	3,134.3	0.0108
35	17.50	52.50	20	0.610	30.5	2,044.5	0.0093
50	25.00	75.00	20	0.401	20.0	1,918.6	0.0079
75	37.50	112.50	20	0.215	10.7	1,540.5	0.0462
100	50.00	150.00	20	0.146	7.3	1,393.8	0.0619

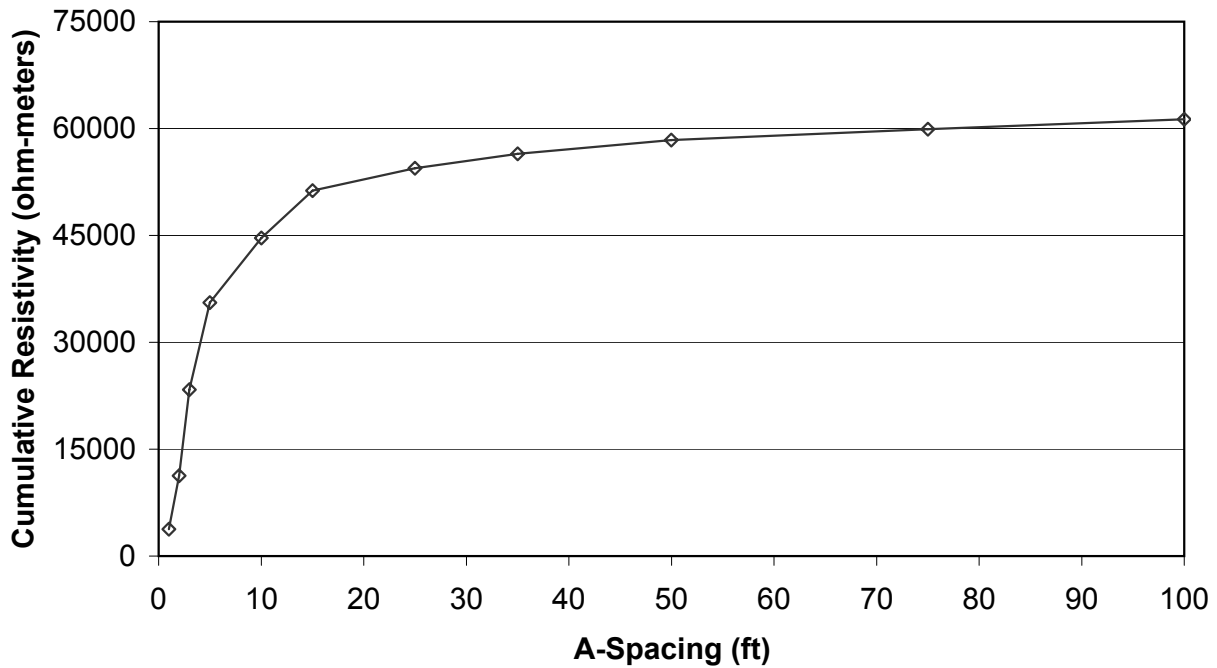
Geomean 4,171
 Min 1,394
 Max 12,230
 Median 3,758
 Std. Dev. 4,151



T-37A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	12329.64847	3758.076853	0.027515	3758
2	1	3	10	12363.16989	7536.588364	0.054159	11295
3	1.5	4.5	20	13192.80513	12063.50101	0.041956	23358
5	2.5	7.5	10	8025.224195	12230.44167	0.014462	35589
10	5	15	20	2966.886487	9043.070012	0.007523	44632
15	7.5	22.5	10	1456.553567	6659.362906	0.018003	51291
25	12.5	37.5	10	411.3236996	3134.286591	0.010805	54425
35	17.5	52.5	20	191.6500324	2044.522546	0.009276	56470
50	25	75	20	125.8917858	1918.590815	0.007943	58388
75	37.5	112.5	20	67.38998985	1540.535168	0.046167	59929
100	50	150	20	45.72745187	1393.772733	0.061911	61323

T-37A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt37a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 13/11/2013 12:12:14

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	26	-1.5	1	1	10	19.623245	12329.649	0.027515
2	115	-3	2	2	10	19.676596	24726.3391	0.054159
3	207	-4.5	3	3	20	41.994003	39578.41625	0.041956
4	317	-7.5	5	5	10	12.772541	40126.12256	0.014462
5	410	-15	10	10	20	9.443893	29668.86623	0.007523
9	684	-22.5	15	15	10	2.318177	21848.30812	0.018003
10	806	-37.5	25	25	10	0.654642	10283.09534	0.010805
11	928	-52.5	35	35	20	0.610041	6707.747447	0.009276
12	1036	-75	50	50	20	0.400726	6294.584702	0.007943
13	1178	-112.5	75	75	20	0.214509	5054.257571	0.046167
14	1337	-150	100	100	20	0.145555	4572.747893	0.061911
6	499	-22.5	15	15	5	1.162255	21907.98812	0.001217
7	532	-22.5	15	15	5	1.160384	21872.72574	0.006096
8	582	-22.5	15	15	5	1.166509	21988.17697	0.00091
15	1377	-150	100	100	10	0.073288	4604.820076	0.070022



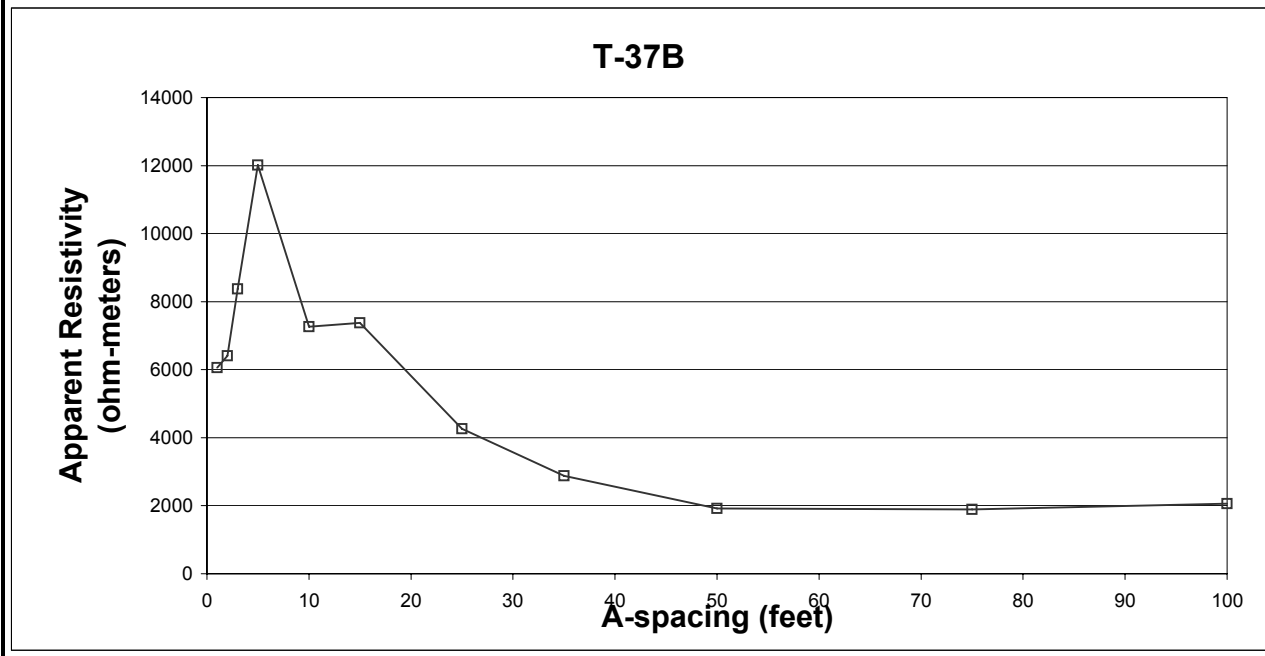
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-37B
 Orientation 95° (mag)
Bouldery, no outcrop, moist silty soil

Date 11/13/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	31.647	3164.7	6,060.7	0.0467
2	1.00	3.00	10	16.734	1673.4	6,409.3	0.0399
3	1.50	4.50	20	29.134	1456.7	8,369.3	0.0395
5	2.50	7.50	10	12.550	1255.0	12,017.5	0.0204
10	5.00	15.00	10	3.794	379.4	7,266.4	0.0213
15	7.50	22.50	20	5.134	256.7	7,373.9	0.0202
25	12.50	37.50	20	1.781	89.0	4,262.7	0.0117
35	17.50	52.50	20	0.858	42.9	2,876.7	0.0185
50	25.00	75.00	10	0.200	20.0	1,916.8	0.0299
75	37.50	112.50	20	0.263	13.1	1,886.8	0.0148
100	50.00	150.00	20	0.215	10.8	2,060.6	0.0362

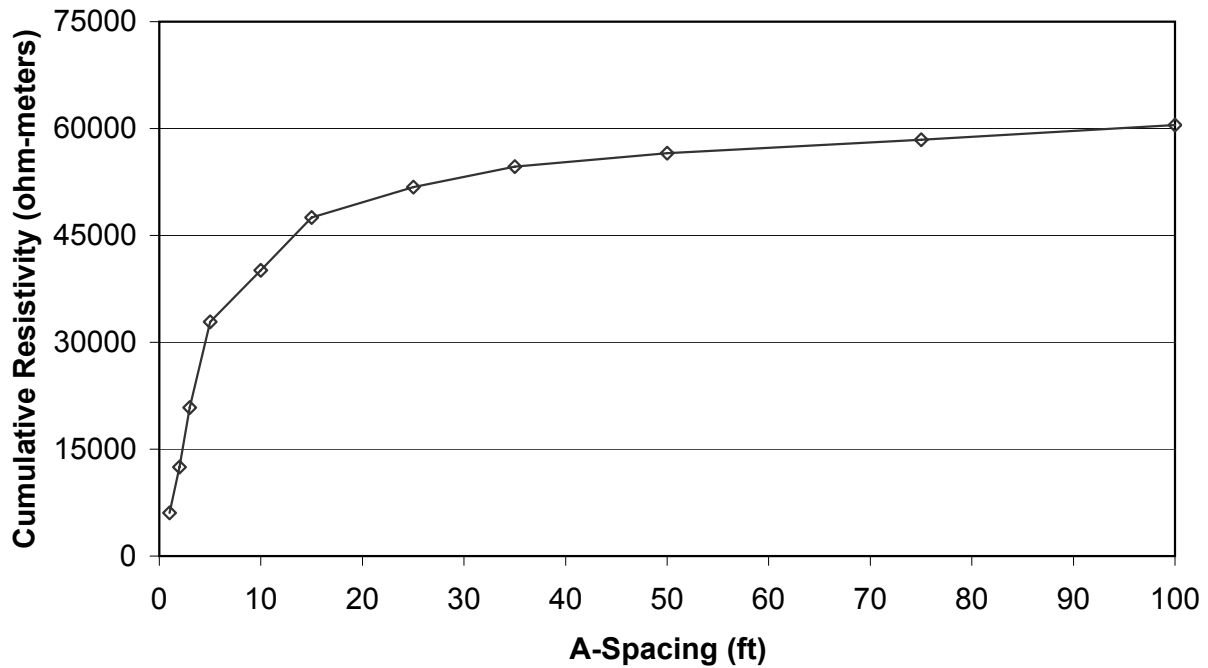
Geomean 4,592
 Min 1,887
 Max 12,018
 Median 6,061
 Std. Dev. 3,235



T-37B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	19884.12197	6060.680375	0.046695	6061
2	1	3	10	10514.00646	6409.338339	0.039909	12470
3	1.5	4.5	20	9152.795519	8369.316223	0.039504	20839
5	2.5	7.5	10	7885.520711	12017.53356	0.020379	32857
10	5	15	10	2383.982506	7266.378677	0.021347	40123
15	7.5	22.5	20	1612.84089	7373.908547	0.020186	47497
25	12.5	37.5	20	559.4127224	4262.724945	0.011719	51760
35	17.5	52.5	20	269.6586054	2876.718003	0.018542	54637
50	25	75	10	125.7711486	1916.752305	0.029866	56553
75	37.5	112.5	20	82.5359222	1886.771181	0.014809	58440
100	50	150	20	67.60550311	2060.615735	0.036158	60501

T-37B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt37b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 13/11/2013 12:40:15

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	539	-1.5	1	1	10	31.646563	19884.12165	0.046695
2	620	-3	2	2	10	16.733561	21028.01266	0.039909
3	697	-4.5	3	3	20	29.134253	27458.38649	0.039504
4	803	-7.5	5	5	10	12.550196	39427.6014	0.020379
5	912	-15	10	10	10	3.794226	23839.8236	0.021347
6	1023	-22.5	15	15	20	5.133832	24192.61234	0.020186
7	1109	-37.5	25	25	20	1.780666	13985.31962	0.011719
8	1205	-52.5	35	35	20	0.85835	9438.051089	0.018542
9	1308	-75	50	50	10	0.200171	6288.558434	0.029866
10	1447	-112.5	75	75	20	0.26272	6190.186823	0.014809
11	1594	-150	100	100	20	0.215195	6760.537358	0.036158
12	1629	-150	100	100	10	0.107353	6745.186765	0.090513



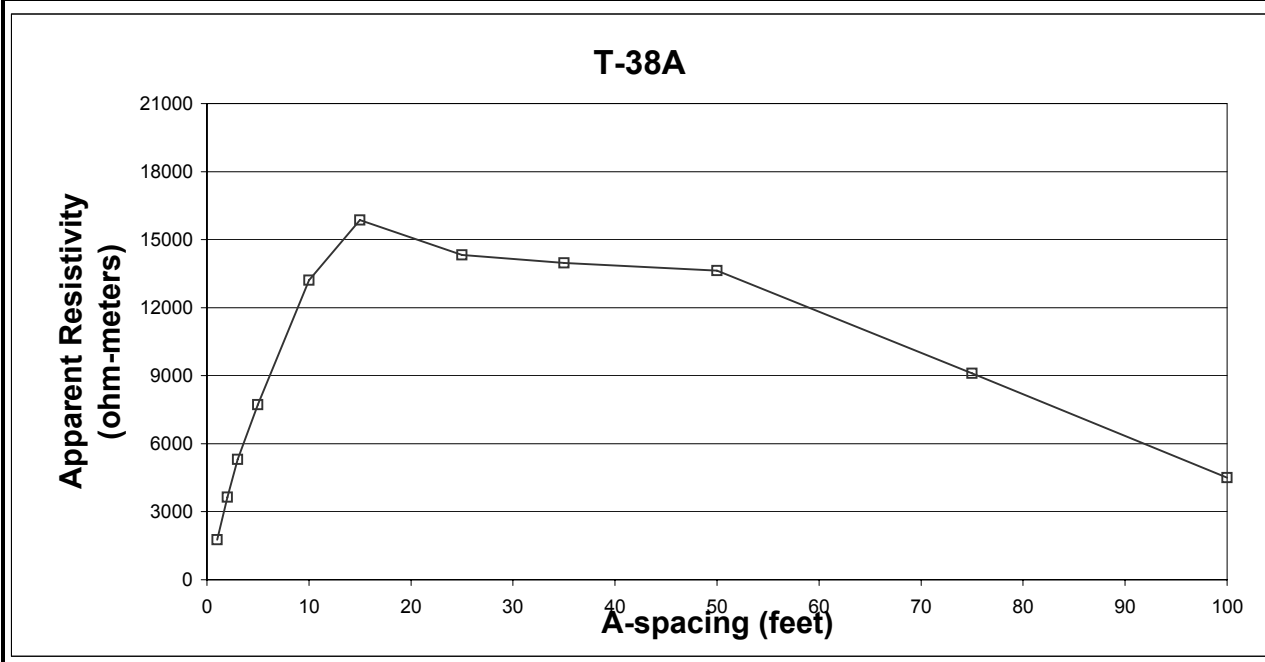
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-38A**
 Orientation **170° (mag)**
Bouldery, small outcrop, moist silty soil

Date **11/13/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	18.398	919.9	1,761.7	0.0394
2	1.00	3.00	20	19.034	951.7	3,645.2	0.0433
3	1.50	4.50	20	18.497	924.8	5,313.5	0.0561
5	2.50	7.50	20	16.110	805.5	7,713.1	0.0688
10	5.00	15.00	20	13.799	689.9	13,213.3	0.0443
15	7.50	22.50	20	11.042	552.1	15,860.5	0.0540
25	12.50	37.50	20	5.986	299.3	14,330.9	0.0738
35	17.50	52.50	20	4.169	208.4	13,972.0	0.0692
50	25.00	75.00	20	2.846	142.3	13,626.2	0.0891
75	37.50	112.50	20	1.267	63.4	9,102.5	0.1189
100	50.00	150.00	20	0.470	23.5	4,496.3	0.0896

Geomean 7,762
 Min 1,762
 Max 15,860
 Median 9,102
 Std. Dev. 5,045

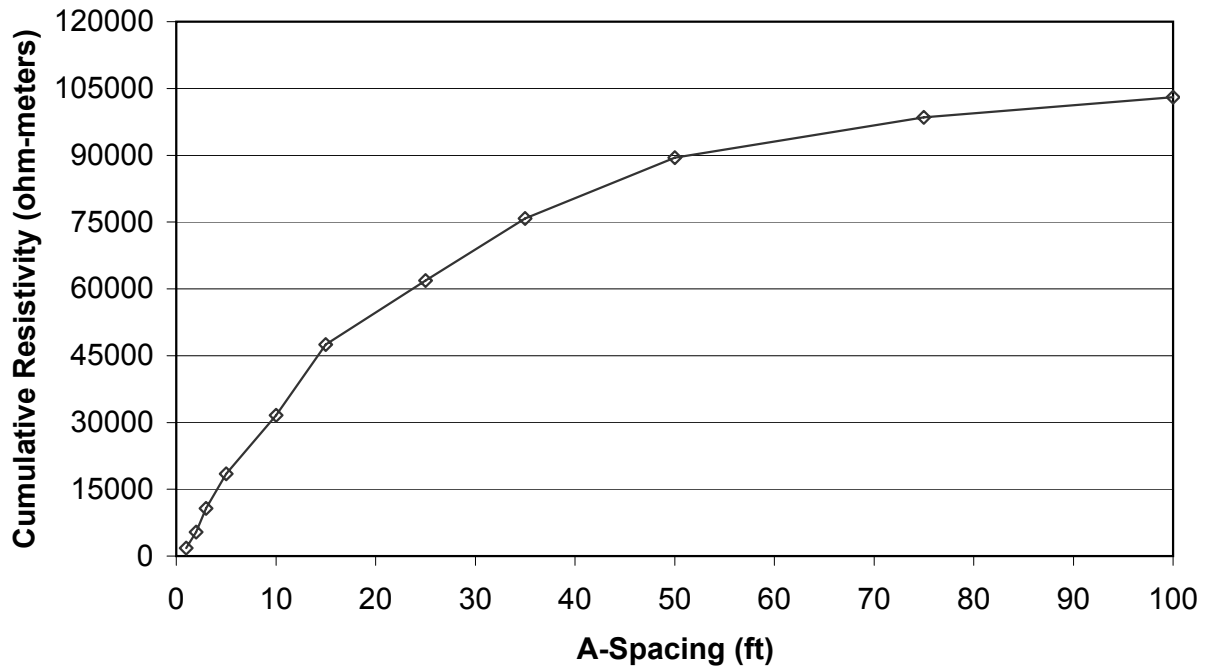


Cumulative Resistivity Sheet

T-38A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	
1	0.5	1.5	20	5779.897452	1761.712743	0.039388	1762
2	1	3	20	5979.668187	3645.205727	0.043297	5407
3	1.5	4.5	20	5810.893661	5313.481164	0.056078	10720
5	2.5	7.5	20	5061.083145	7713.090714	0.068796	18433
10	5	15	20	4335.072707	13213.30161	0.044278	31647
15	7.5	22.5	20	3469.043055	15860.46485	0.054044	47507
25	12.5	37.5	20	1880.689938	14330.85732	0.073792	61838
35	17.5	52.5	20	1309.708614	13971.9715	0.069228	75810
50	25	75	20	894.1098356	13626.23389	0.089103	89436
75	37.5	112.5	20	398.1839883	9102.485973	0.118875	98539
100	50	150	20	147.5169388	4496.316295	0.089634	103035

T-38A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt38a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 13/11/2013 13:54:22

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	41	-1.5	1	1	20	18.397985	5779.897716	0.039388
2	101	-3	2	2	20	19.033875	11959.33607	0.043297
3	148	-4.5	3	3	20	18.496649	17432.67999	0.056078
4	203	-7.5	5	5	20	16.109928	25305.41569	0.068796
5	262	-15	10	10	20	13.798965	43350.73042	0.044278
6	339	-22.5	15	15	20	11.042307	52035.64643	0.054044
7	435	-37.5	25	25	20	5.986422	47017.24938	0.073792
8	561	-52.5	35	35	20	4.168932	45839.80359	0.069228
9	669	-75	50	50	20	2.84604	44705.49719	0.089103
10	812	-112.5	75	75	20	1.267459	29863.79264	0.118875
11	996	-150	100	100	20	0.469561	14751.70002	0.089634
12	1043	-150	100	100	10	0.235377	14789.17829	0.1713



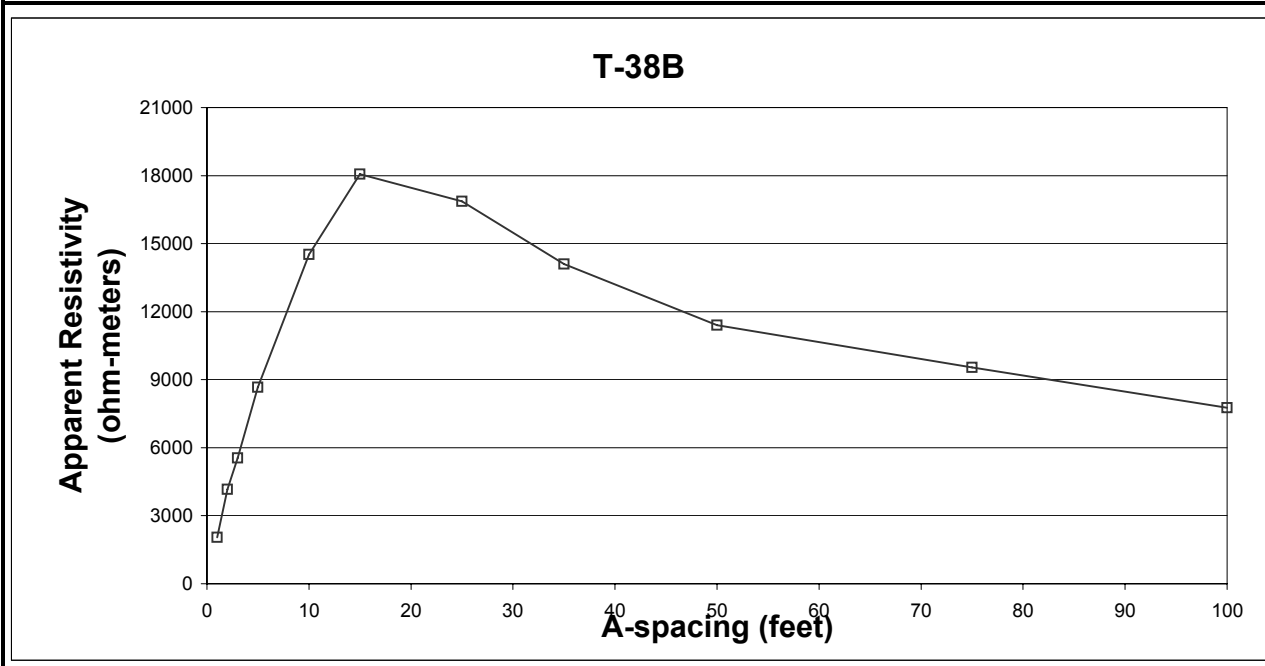
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-38B
 Orientation 91° (mag)
Bouldery, small outcrop, moist silty soil

Date 11/13/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	53.610	1072.2	2,053.4	0.0435
2	1.00	3.00	20	21.762	1088.1	4,167.7	0.0483
3	1.50	4.50	20	19.286	964.3	5,540.1	0.0442
5	2.50	7.50	20	18.102	905.1	8,667.1	0.0581
10	5.00	15.00	20	15.161	758.0	14,517.1	0.0497
15	7.50	22.50	20	12.577	628.8	18,064.1	0.0497
25	12.50	37.50	20	7.044	352.2	16,862.9	0.0783
35	17.50	52.50	20	4.205	210.3	14,094.3	0.0888
50	25.00	75.00	20	2.382	119.1	11,404.0	0.0545
75	37.50	112.50	20	1.328	66.4	9,540.6	0.0980
100	50.00	150.00	20	0.811	40.5	7,763.0	0.0838

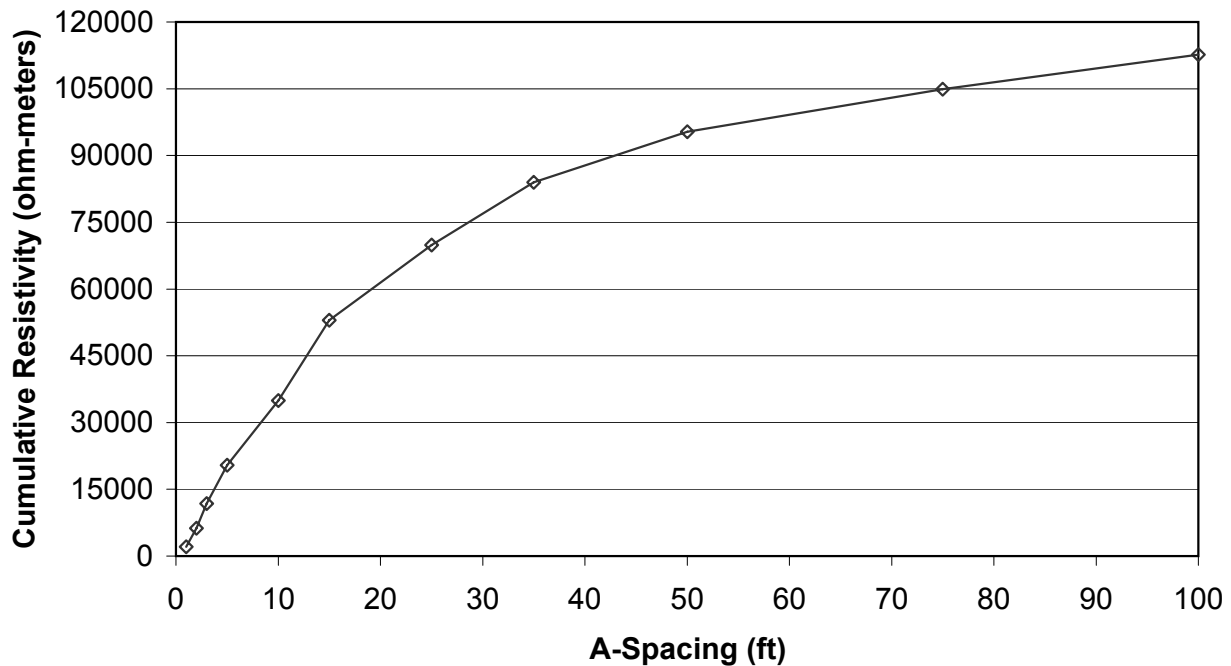
Geomean 8,701
 Min 2,053
 Max 18,064
 Median 9,541
 Std. Dev. 5,241



T-38B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	6736.882683	2053.401842	0.043467	2053
2	1	3	20	6836.701888	4167.653471	0.048317	6221
3	1.5	4.5	20	6058.768149	5540.137596	0.044206	11761
5	2.5	7.5	20	5687.06653	8667.089392	0.058084	20428
10	5	15	20	4762.832277	14517.11278	0.049673	34945
15	7.5	22.5	20	3951.02997	18064.10902	0.049711	53010
25	12.5	37.5	20	2212.978078	16862.89295	0.078277	69872
35	17.5	52.5	20	1321.173543	14094.27935	0.088812	83967
50	25	75	20	748.2924984	11403.97768	0.054495	95371
75	37.5	112.5	20	417.3483318	9540.582865	0.097975	104911
100	50	150	20	254.6904872	7762.966051	0.083763	112674

T-38B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt38b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 13/11/2013 14:24:21

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	30	-1.5	1	1	50	53.610409	6736.883135	0.043467
2	230	-3	2	2	20	21.761898	13673.40467	0.048317
3	294	-4.5	3	3	20	19.285658	18176.30441	0.044206
4	347	-7.5	5	5	20	18.102495	28435.33475	0.058084
5	428	-15	10	10	20	15.160566	47628.32405	0.049673
6	521	-22.5	15	15	20	12.576519	59265.44745	0.049711
7	623	-37.5	25	25	20	7.044128	55324.45043	0.078277
8	736	-52.5	35	35	20	4.205426	46241.07092	0.088812
9	848	-75	50	50	20	2.381889	37414.62073	0.054495
10	1035	-112.5	75	75	20	1.328461	31301.13564	0.097975
11	1222	-150	100	100	20	0.810705	25469.04495	0.083763
12	1246	-150	100	100	10	0.406395	25534.57229	0.142729



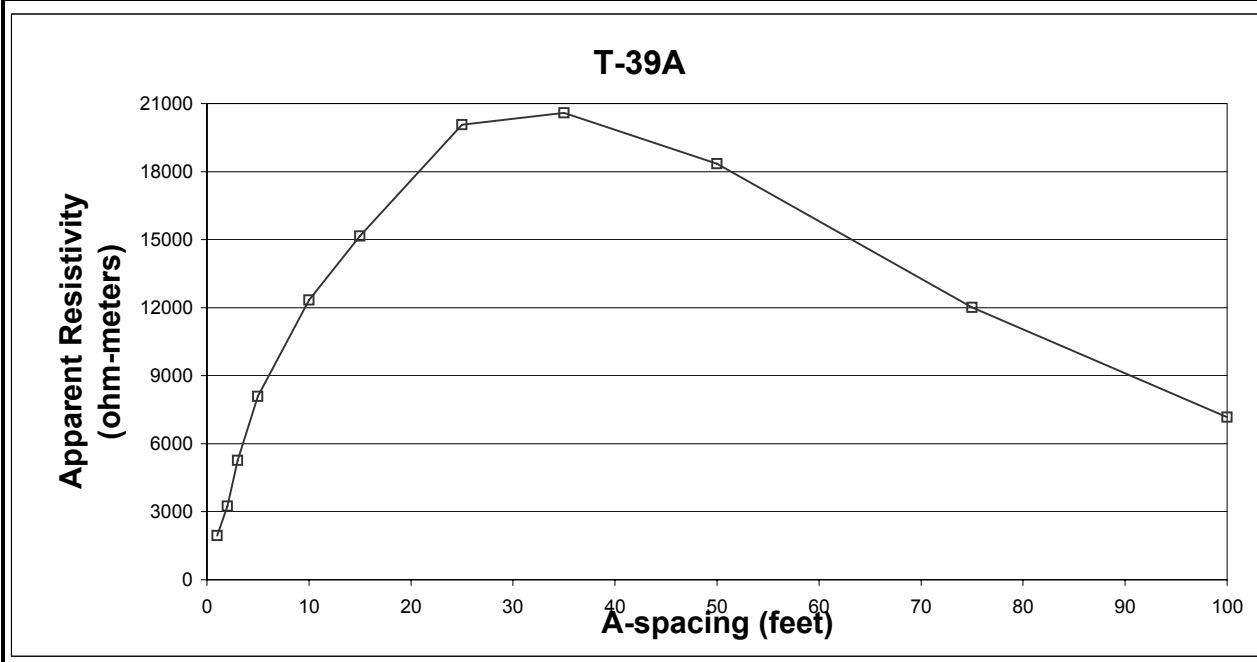
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-39A
 Orientation 330° (mag)
No outcrop, moist silty soil

Date 11/14/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	20.328	1016.4	1,946.6	0.0336
2	1.00	3.00	20	16.958	847.9	3,247.7	0.0436
3	1.50	4.50	20	18.327	916.4	5,264.8	0.0535
5	2.50	7.50	20	16.885	844.2	8,084.2	0.0690
10	5.00	15.00	20	12.875	643.7	12,328.3	0.0861
15	7.50	22.50	20	10.557	527.9	15,163.4	0.0834
25	12.50	37.50	20	8.381	419.0	20,062.5	0.1543
35	17.50	52.50	20	6.145	307.2	20,593.1	0.0837
50	25.00	75.00	20	3.832	191.6	18,347.0	0.0876
75	37.50	112.50	20	1.672	83.6	12,006.9	0.0982
100	50.00	150.00	20	0.749	37.4	7,171.5	0.1275

Geomean 9,037
 Min 1,947
 Max 20,593
 Median 12,007
 Std. Dev. 6,674

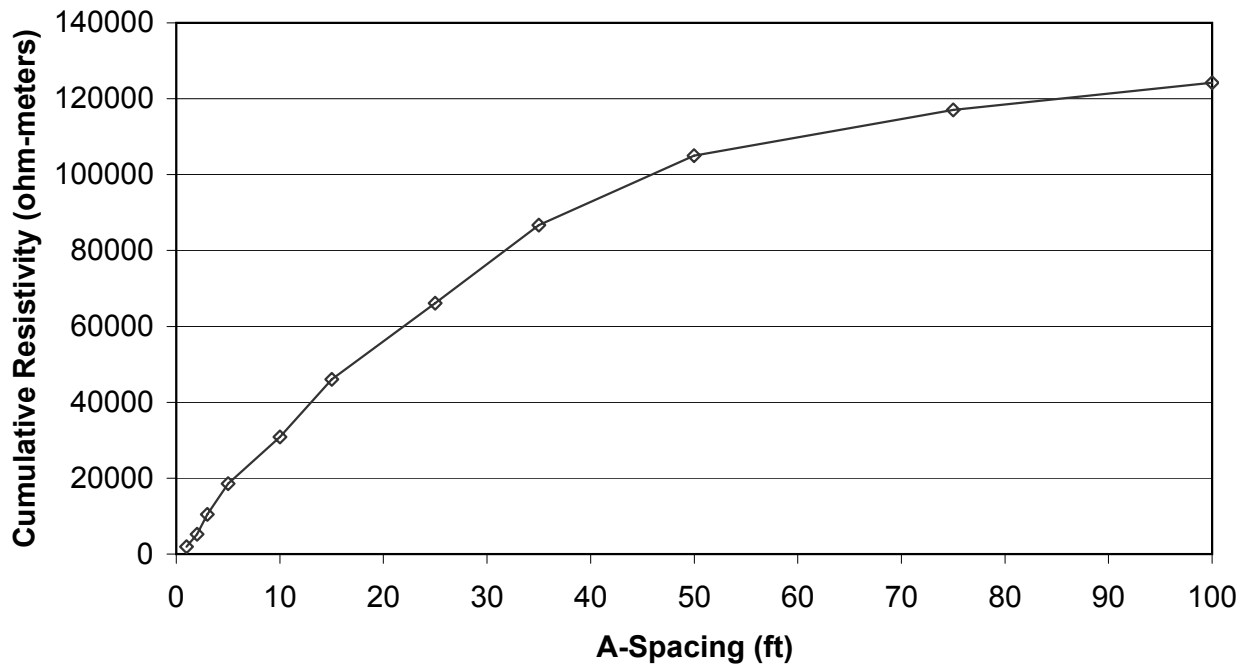


T-39A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6386.342644	1946.557238	0.033551	1947
2	1	3	20	5327.61241	3247.712525	0.043569	5194
3	1.5	4.5	20	5757.612878	5264.761216	0.053496	10459
5	2.5	7.5	20	5304.570399	8084.165288	0.069004	18543
10	5	15	20	4044.713205	12328.28585	0.086083	30871
15	7.5	22.5	20	3316.587533	15163.4382	0.083447	46035
25	12.5	37.5	20	2632.872984	20062.49214	0.154285	66097
35	17.5	52.5	20	1930.365115	20593.13505	0.083693	86691
50	25	75	20	1203.872442	18347.01602	0.087589	105038
75	37.5	112.5	20	525.2343935	12006.85823	0.098159	117044
100	50	150	20	235.2870685	7171.549848	0.127506	124216

T-39A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt39a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 14/11/2013 10:24:17

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	32	-1.5	1	1	20	20.32836	6386.342447	0.033551
2	84	-3	2	2	20	16.958317	10655.2246	0.043569
3	146	-4.5	3	3	20	18.327051	17272.83843	0.053496
4	204	-7.5	5	5	20	16.884972	26522.84996	0.069004
5	273	-15	10	10	20	12.874722	40447.13105	0.086083
6	352	-22.5	15	15	20	10.557026	49748.81472	0.083447
7	460	-37.5	25	25	20	8.380695	65821.82611	0.154285
8	566	-52.5	35	35	20	6.144543	67562.77062	0.083693
9	660	-75	50	50	20	3.832045	60193.62663	0.087589
10	803	-112.5	75	75	20	1.671873	39392.59068	0.098159
11	1004	-150	100	100	20	0.748942	23528.70785	0.127506
12	1057	-150	100	100	10	0.375506	23593.76302	0.170481



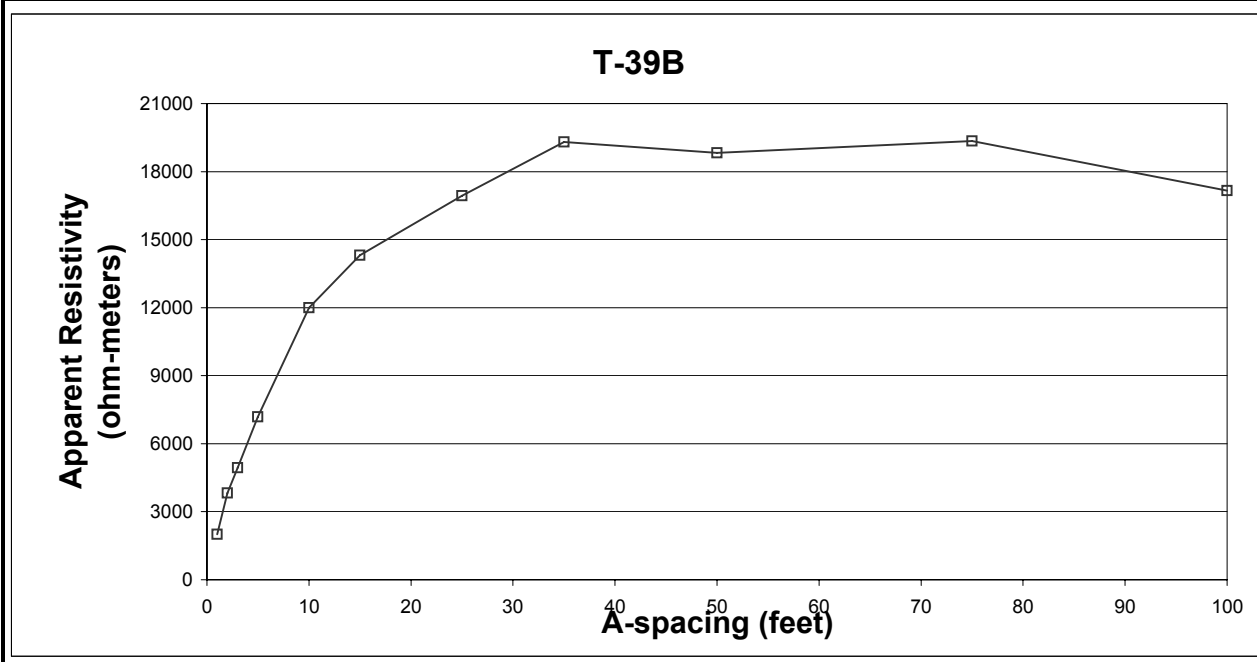
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-39B
 Orientation 60° (mag)
Bouldery, small outcrop, moist silty soil

Date 11/14/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	20.879	1043.9	1,999.2	0.0517
2	1.00	3.00	20	19.953	997.7	3,821.3	0.0385
3	1.50	4.50	20	17.177	858.8	4,934.3	0.0496
5	2.50	7.50	20	15.012	750.6	7,187.5	0.0814
10	5.00	15.00	20	12.526	626.3	11,994.2	0.0352
15	7.50	22.50	20	9.965	498.3	14,313.2	0.0485
25	12.50	37.50	20	7.076	353.8	16,939.7	0.0523
35	17.50	52.50	20	5.760	288.0	19,304.8	0.0740
50	25.00	75.00	20	3.932	196.6	18,824.8	0.0763
75	37.50	112.50	20	2.694	134.7	19,344.8	0.0751
100	50.00	150.00	20	1.792	89.6	17,160.0	0.0791

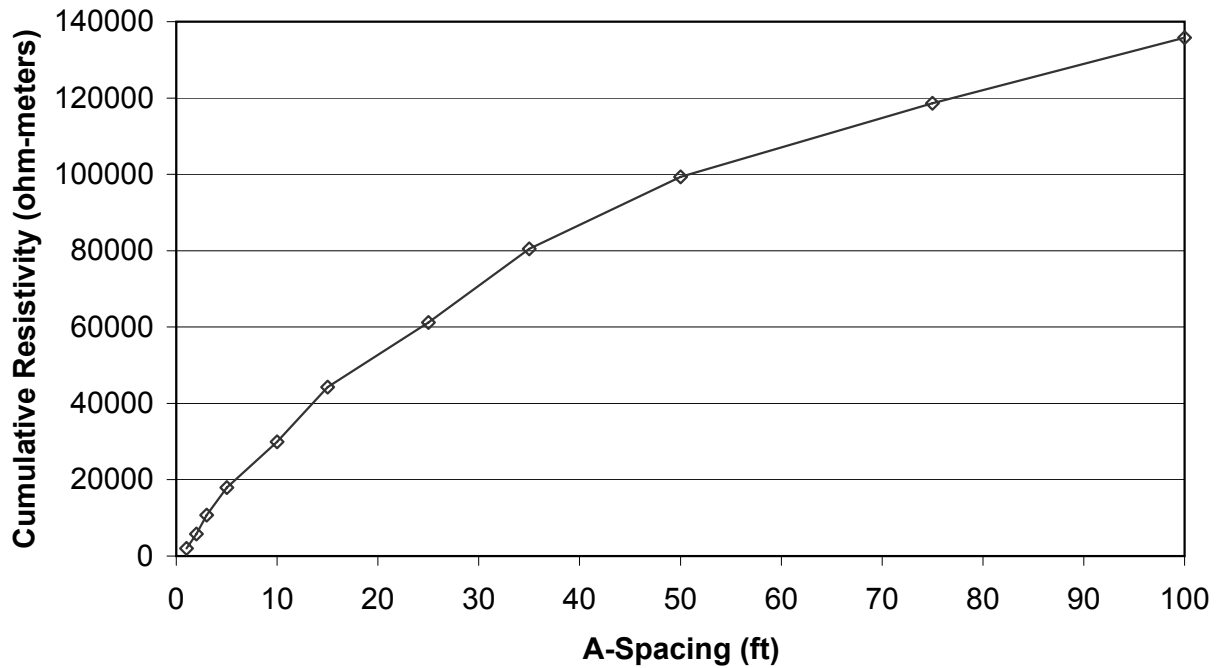
Geomean 9,954
 Min 1,999
 Max 19,345
 Median 14,313
 Std. Dev. 6,700



T-39B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πI/V) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6559.188673	1999.240708	0.051722	1999
2	1	3	20	6268.544229	3821.304562	0.038454	5821
3	1.5	4.5	20	5396.169816	4934.25768	0.049634	10755
5	2.5	7.5	20	4716.211984	7187.507064	0.081398	17942
10	5	15	20	3935.090157	11994.1548	0.035166	29936
15	7.5	22.5	20	3130.610588	14313.15161	0.04848	44250
25	12.5	37.5	20	2223.055364	16939.68188	0.052331	61189
35	17.5	52.5	20	1809.602293	19304.83726	0.073989	80494
50	25	75	20	1235.222081	18824.78451	0.076281	99319
75	37.5	112.5	20	846.2307069	19344.83396	0.075106	118664
100	50	150	20	562.9906823	17159.956	0.079142	135824

T-39B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt39b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 14/11/2013 10:55:25

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	113	-1.5	1	1	20	20.878546	6559.188334	0.051722
2	160	-3	2	2	20	19.953396	12537.08846	0.038454
3	206	-4.5	3	3	20	17.176542	16188.51036	0.049634
5	277	-7.5	5	5	20	15.012169	23581.06022	0.081398
6	336	-15	10	10	20	12.525781	39350.89852	0.035166
7	411	-22.5	15	15	20	9.965043	46959.15753	0.04848
8	490	-37.5	25	25	20	7.076205	55576.3828	0.052331
9	580	-52.5	35	35	20	5.760143	63336.07831	0.073989
10	678	-75	50	50	20	3.931834	61761.11051	0.076281
11	791	-112.5	75	75	20	2.693636	63467.3142	0.075106
12	938	-150	100	100	20	1.792055	56299.0795	0.079142
4	253	-7.5	5	5	5	3.571599	22441.01529	0.049612
13	984	-150	100	100	10	0.898397	56447.97151	0.157473



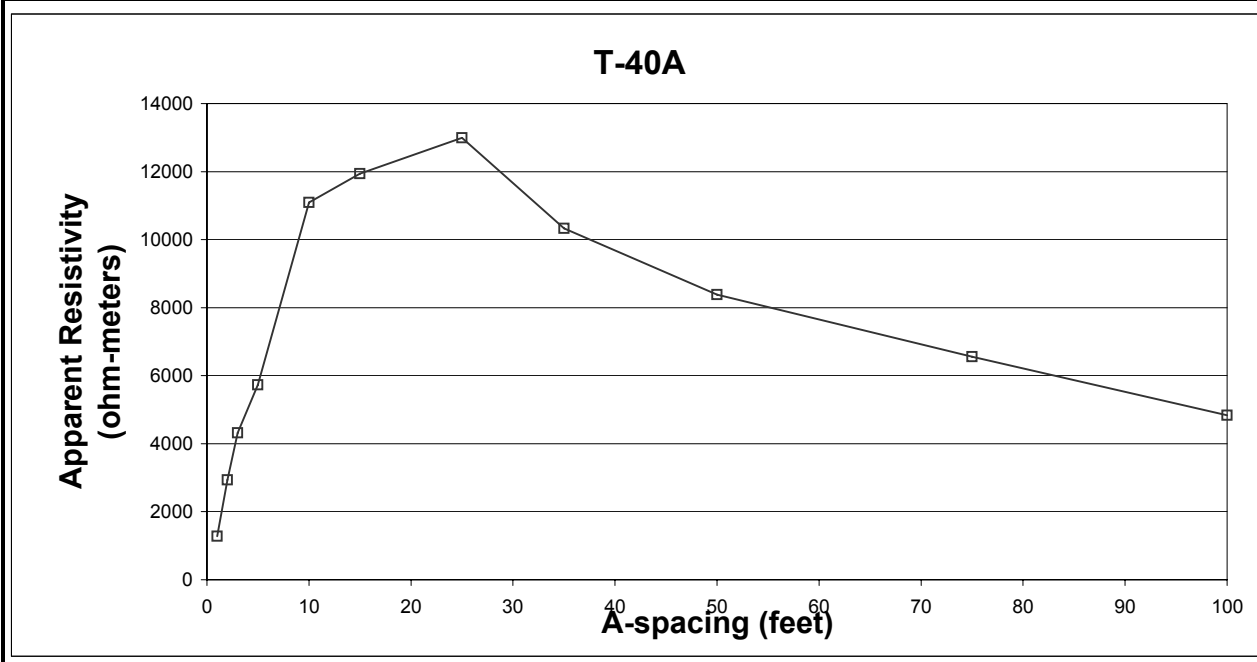
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-40A
 Orientation 330° (mag)
Shallow bedrock w/ some outcrop

Date 11/14/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	13.369	668.5	1,280.2	0.0266
2	1.00	3.00	20	15.317	765.8	2,933.3	0.4202
3	1.50	4.50	20	15.030	751.5	4,317.6	0.0293
5	2.50	7.50	10	5.987	598.7	5,732.7	0.0570
10	5.00	15.00	20	11.585	579.2	11,093.3	0.0405
15	7.50	22.50	50	20.779	415.6	11,938.1	0.0561
25	12.50	37.50	20	5.426	271.3	12,988.8	0.0866
35	17.50	52.50	20	3.081	154.1	10,326.4	0.1140
50	25.00	75.00	20	1.751	87.6	8,384.3	0.1076
75	37.50	112.50	20	0.913	45.6	6,554.7	0.0938
100	50.00	150.00	20	0.505	25.2	4,833.0	0.0540

Geomean 6,104
 Min 1,280
 Max 12,989
 Median 6,555
 Std. Dev. 3,897

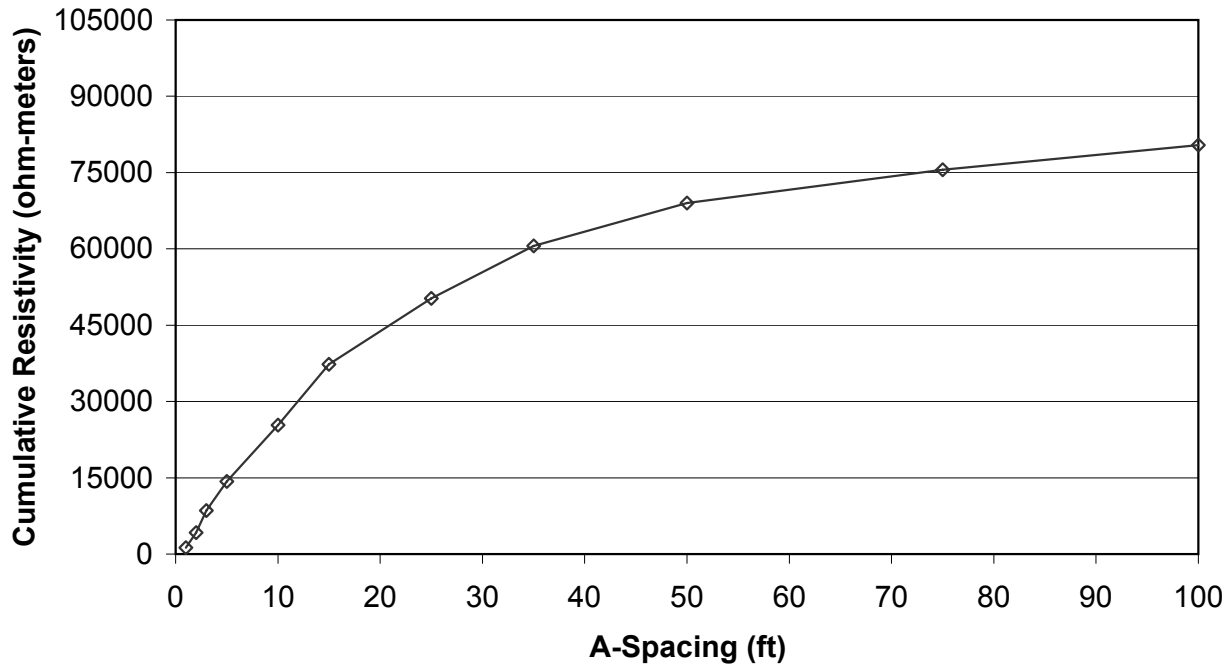


Cumulative Resistivity Sheet

T-40A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πI/V) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4200.040772	1280.172427	0.02657	1280
2	1	3	20	4811.820388	2933.285708	0.420243	4213
3	1.5	4.5	20	4721.735847	4317.555258	0.029307	8531
5	2.5	7.5	10	3761.60607	5732.687651	0.05701	14264
10	5	15	20	3639.521894	11093.26273	0.040474	25357
15	7.5	22.5	50	2611.125309	11938.06491	0.056073	37295
25	12.5	37.5	20	1704.570683	12988.8286	0.086566	50284
35	17.5	52.5	20	967.9771612	10326.38036	0.113986	60610
50	25	75	20	550.1541347	8384.349013	0.107649	68995
75	37.5	112.5	20	286.7325332	6554.705708	0.093779	75549
100	50	150	20	158.5621503	4832.97434	0.053958	80382

T-40A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt40a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 14/11/2013 11:48:20

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	92	-1.5	1	1	20	13.369145	4200.040931	0.02657
2	273	-3	2	2	20	15.3165	9623.640929	0.420243
3	330	-4.5	3	3	20	15.029752	14165.20773	0.029307
4	392	-7.5	5	5	10	5.986782	18808.03106	0.05701
5	467	-15	10	10	20	11.584958	36395.2205	0.040474
6	578	-22.5	15	15	50	20.778675	39166.88123	0.056073
7	690	-37.5	25	25	20	5.425817	42614.26432	0.086566
8	831	-52.5	35	35	20	3.081167	33879.20391	0.113986
9	962	-75	50	50	20	1.751195	27507.7126	0.107649
10	1140	-112.5	75	75	20	0.912698	21504.93059	0.093779
11	1330	-150	100	100	20	0.504719	15856.22131	0.053958
12	1384	-150	100	100	10	0.253039	15898.88396	0.117411



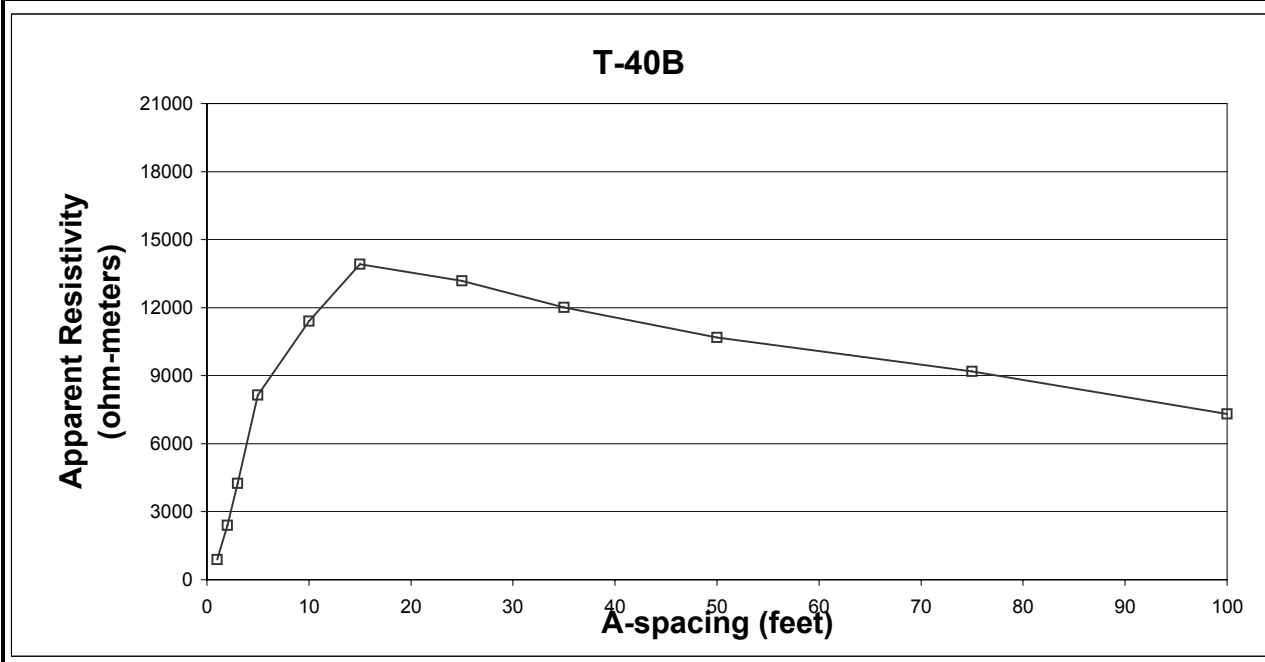
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-40B
 Orientation 60° (mag)
Bouldery, small outcrop, moist silty soil

Date 11/14/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	9.335	466.7	893.9	0.0320
2	1.00	3.00	20	12.522	626.1	2,398.2	0.0216
3	1.50	4.50	20	14.779	738.9	4,245.5	0.0423
5	2.50	7.50	20	17.011	850.6	8,144.7	0.0376
10	5.00	15.00	20	11.912	595.6	11,406.4	0.0477
15	7.50	22.50	20	9.685	484.3	13,911.5	0.1071
25	12.50	37.50	20	5.505	275.3	13,178.5	0.0930
35	17.50	52.50	20	3.586	179.3	12,016.9	0.1079
50	25.00	75.00	20	2.232	111.6	10,688.5	0.1229
75	37.50	112.50	50	3.200	64.0	9,192.7	0.1148
100	50.00	150.00	50	1.910	38.2	7,313.9	0.1245

Geomean 6,756
 Min 894
 Max 13,912
 Median 9,193
 Std. Dev. 4,382

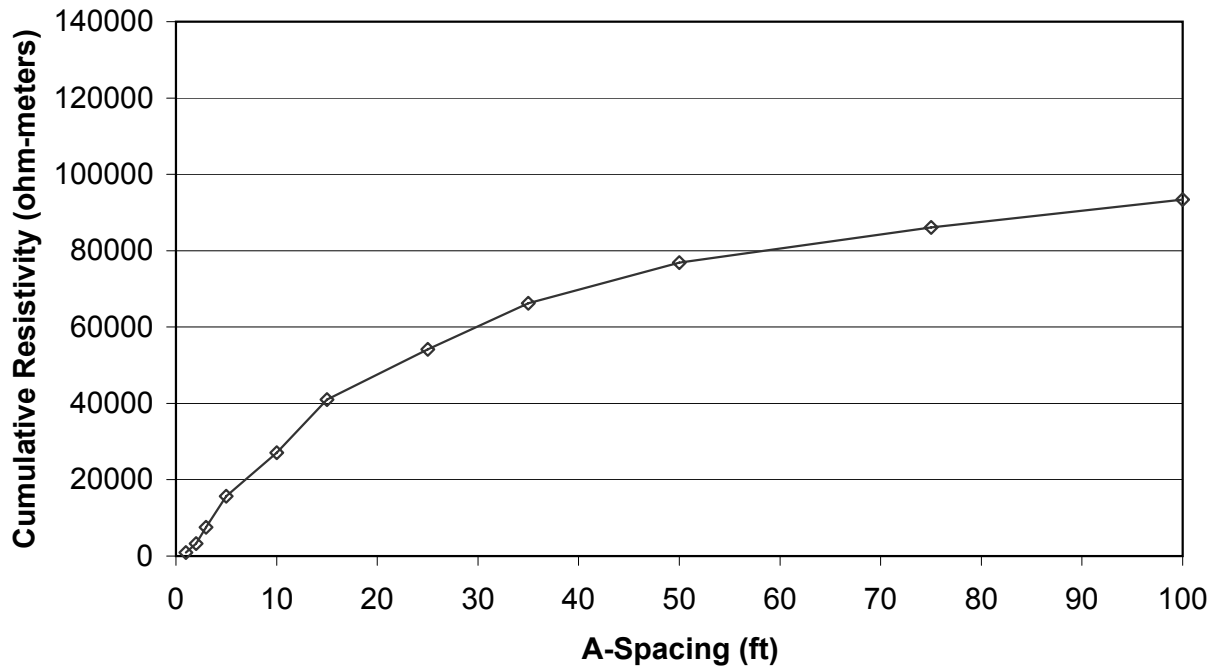


T-40B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	2932.607941	893.8589005	0.031965	894
2	1	3	20	3934.016989	2398.176756	0.021559	3292
3	1.5	4.5	20	4642.91957	4245.485655	0.042303	7538
5	2.5	7.5	20	5344.309975	8144.728403	0.037587	15682
10	5	15	20	3742.263912	11406.4204	0.047713	27089
15	7.5	22.5	20	3042.767259	13911.53191	0.107094	41000
25	12.5	37.5	20	1729.465291	13178.52552	0.092966	54179
35	17.5	52.5	20	1126.440351	12016.86567	0.107913	66196
50	25	75	20	701.3420245	10688.45245	0.122941	76884
75	37.5	112.5	50	402.1296402	9192.683575	0.114835	86077
100	50	150	50	239.9587425	7313.94247	0.124468	93391

T-40B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt40b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 14/11/2013 12:35:41

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	34	-1.5	1	1	20	9.334781	2932.607713	0.031965
2	134	-3	2	2	20	12.522365	7868.033665	0.021559
3	189	-4.5	3	3	20	14.778872	13928.75878	0.042303
4	241	-7.5	5	5	20	17.011467	26721.55033	0.037587
5	335	-15	10	10	20	11.911996	37422.63865	0.047713
6	425	-22.5	15	15	20	9.685429	45641.50638	0.107094
7	512	-37.5	25	25	20	5.505059	43236.62909	0.092966
8	594	-52.5	35	35	20	3.585571	39425.41547	0.107913
9	698	-75	50	50	20	2.232441	35067.09562	0.122941
10	839	-112.5	75	75	50	3.200046	30159.7281	0.114835
11	1025	-150	100	100	50	1.909531	23995.87931	0.124468
12	1064	-150	100	100	20	0.765201	24039.48511	0.137277



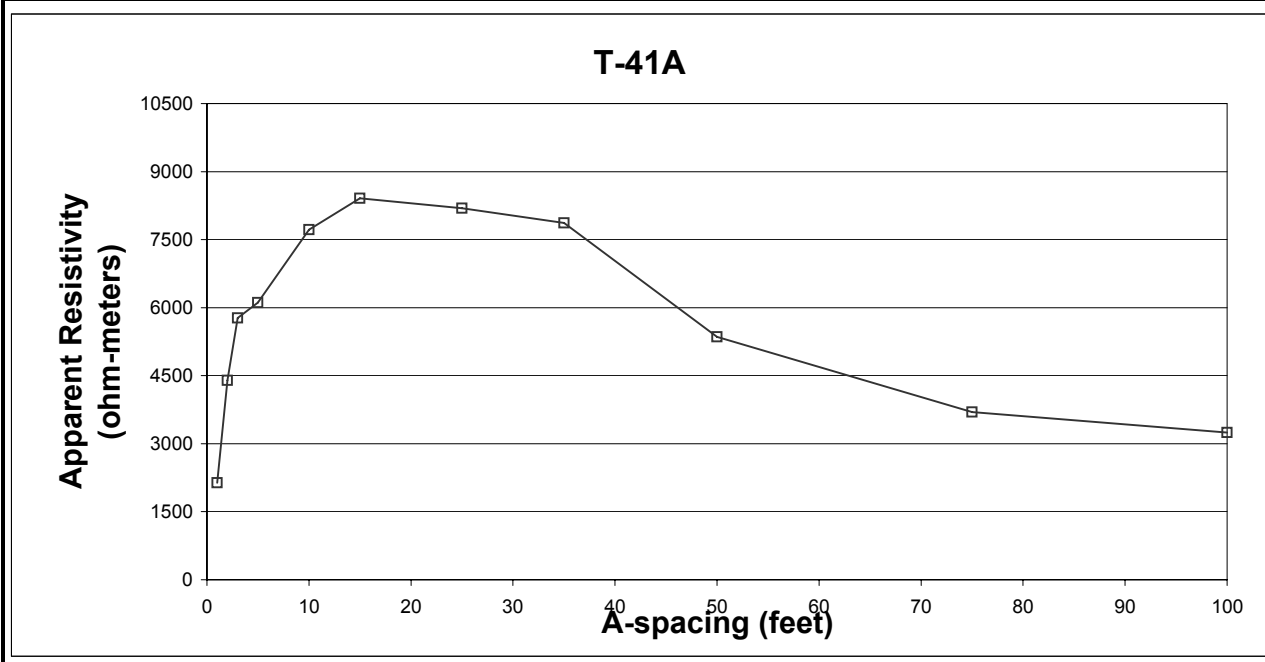
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-41A**
 Orientation **298° (mag)**
Moist silty soil, w/ some outcrop

Date **11/14/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	22.305	1115.3	2,135.8	0.0663
2	1.00	3.00	20	22.948	1147.4	4,394.9	0.0706
3	1.50	4.50	20	20.103	1005.2	5,775.0	0.0707
5	2.50	7.50	20	12.762	638.1	6,110.3	0.0957
10	5.00	15.00	20	8.064	403.2	7,721.7	0.1022
15	7.50	22.50	20	5.855	292.8	8,410.1	0.0101
25	12.50	37.50	20	3.421	171.1	8,189.6	0.0071
35	17.50	52.50	20	2.349	117.4	7,871.2	0.0035
50	25.00	75.00	20	1.119	56.0	5,358.7	0.1779
75	37.50	112.50	20	0.515	25.7	3,698.4	0.9497
100	50.00	150.00	20	0.339	16.9	3,244.8	0.5302

Geomean 5,281
 Min 2,136
 Max 8,410
 Median 5,775
 Std. Dev. 2,170

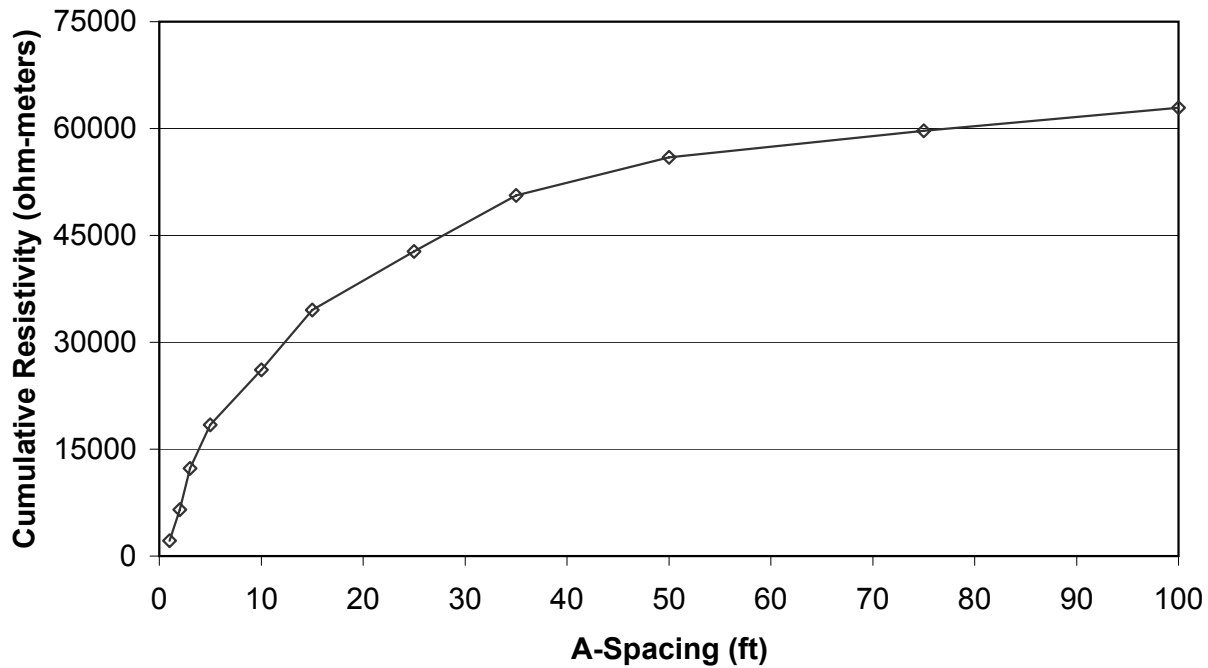


Cumulative Resistivity Sheet

T-41A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7007.33875	2135.836851	0.066251	2136
2	1	3	20	7209.476047	4394.896598	0.070585	6531
3	1.5	4.5	20	6315.637959	5775.01935	0.07068	12306
5	2.5	7.5	20	4009.360863	6110.265955	0.095749	18416
10	5	15	20	2533.351099	7721.65415	0.102198	26138
15	7.5	22.5	20	1839.479782	8410.101563	0.010148	34548
25	12.5	37.5	20	1074.753926	8189.624919	0.007134	42737
35	17.5	52.5	20	737.833194	7871.204513	0.003464	50609
50	25	75	20	351.6230719	5358.735616	0.177908	55967
75	37.5	112.5	20	161.7841677	3698.386073	0.949711	59666
100	50	150	20	106.4575795	3244.827022	0.530215	62911

T-41A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt41a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 14/11/2013 13:46:00

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	487	-1.5	1	1	20	22.305052	7007.339288	0.066251
2	571	-3	2	2	20	22.948475	14418.95154	0.070585
3	646	-4.5	3	3	20	20.1033	18946.91461	0.07068
4	708	-7.5	5	5	20	12.762192	20046.803	0.095749
6	834	-15	10	10	20	8.063907	25333.51055	0.102198
7	927	-22.5	15	15	20	5.855246	27592.19659	0.010148
8	1014	-37.5	25	25	20	3.421048	26868.84795	0.007134
9	1155	-52.5	35	35	20	2.348596	25824.16725	0.003464
10	1237	-75	50	50	20	1.119251	17581.16114	0.177908
12	1522	-112.5	75	75	20	0.514975	12133.82369	0.949711
13	1673	-150	100	100	20	0.338865	10645.76795	0.530215
5	799	-15	10	10	20	8.691858	27306.27887	0.179821
11	1359	-112.5	75	75	5	0.120496	11356.45945	1.726013
14	1713	-150	100	100	10	0.169218	10632.26891	0.458492



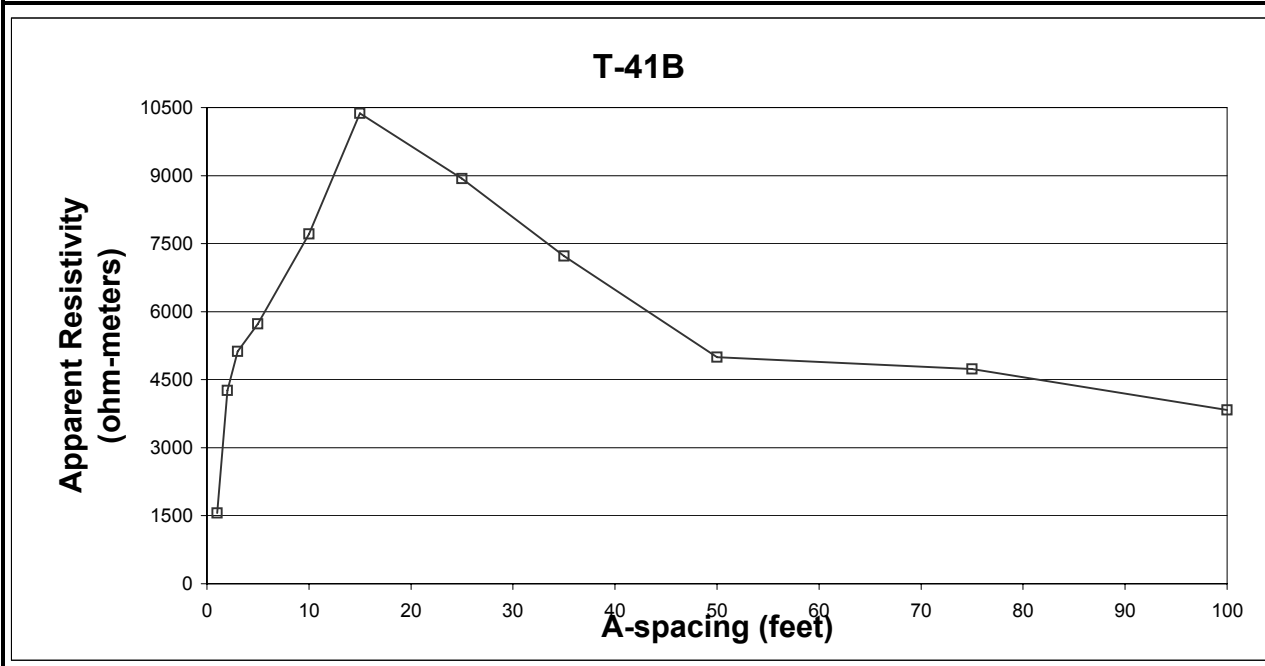
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-41B
 Orientation 20° (mag)
Moist silty soil, w/ some outcrop

Date 11/14/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	40.698	814.0	1,558.8	0.0031
2	1.00	3.00	20	22.262	1113.1	4,263.4	0.0606
3	1.50	4.50	50	44.594	891.9	5,124.1	0.0331
5	2.50	7.50	20	11.969	598.5	5,730.5	0.0641
10	5.00	15.00	50	20.136	402.7	7,712.6	0.0310
15	7.50	22.50	50	18.056	361.1	10,373.6	0.0708
25	12.50	37.50	20	3.733	186.6	8,935.4	0.0576
35	17.50	52.50	20	2.156	107.8	7,227.3	0.0458
50	25.00	75.00	10	0.521	52.1	4,993.0	0.0780
75	37.50	112.50	5	0.165	33.0	4,736.6	0.2445
100	50.00	150.00	20	0.400	20.0	3,832.3	0.0371

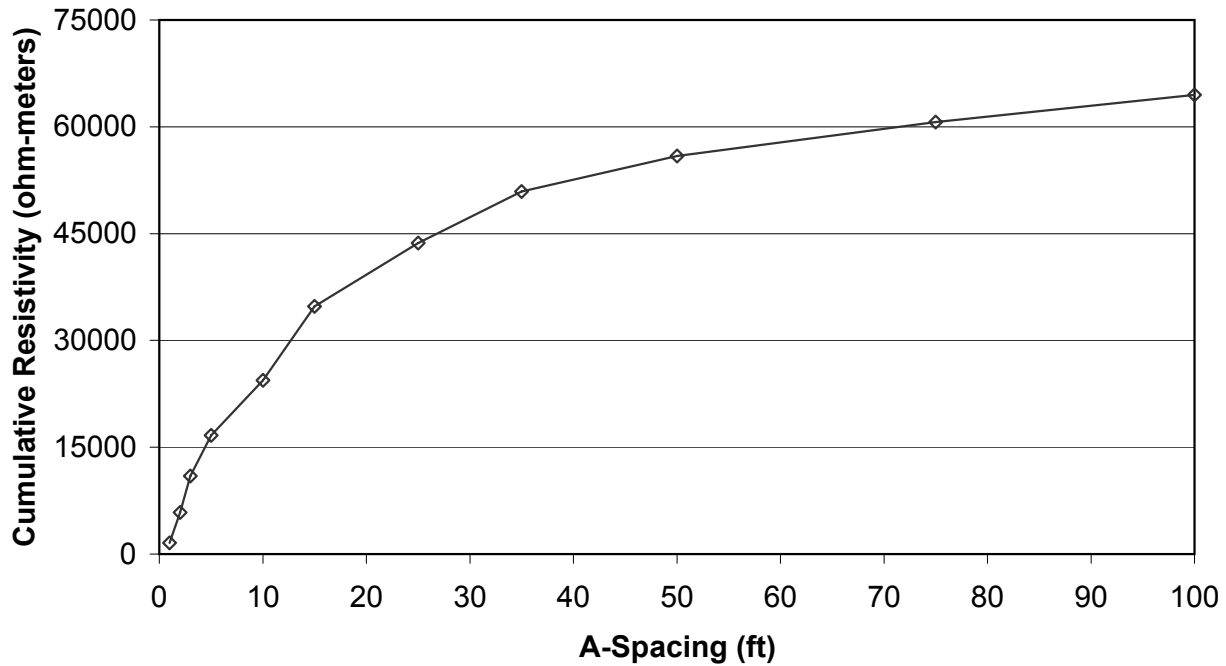
Geomean 5,293
 Min 1,559
 Max 10,374
 Median 5,124
 Std. Dev. 2,507



T-41B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	5114.313537	1558.842766	0.003142	1559
2	1	3	20	6993.734083	4263.380297	0.060635	5822
3	1.5	4.5	50	5603.825446	5124.137988	0.033138	10946
5	2.5	7.5	20	3760.192353	5730.533146	0.064105	16677
10	5	15	50	2530.371298	7712.571718	0.031048	24389
15	7.5	22.5	50	2268.943163	10373.60814	0.070826	34763
25	12.5	37.5	20	1172.620192	8935.365867	0.057612	43698
35	17.5	52.5	20	677.4734602	7227.286873	0.045759	50926
50	25	75	10	327.6272731	4993.039642	0.078003	55919
75	37.5	112.5	5	207.2018585	4736.634486	0.244533	60655
100	50	150	20	125.7321929	3832.317238	0.037117	64488

**T-41B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rrbt41b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 14/11/2013 14:27:23

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	22	-1.5	1	1	50	40.698414	5114.313423	0.003142
2	135	-3	2	2	20	22.261747	13987.46882	0.060635
3	216	-4.5	3	3	50	44.593826	16811.4776	0.033138
4	302	-7.5	5	5	20	11.969064	18800.96133	0.064105
5	423	-15	10	10	50	20.136055	25303.71298	0.031048
6	525	-22.5	15	15	50	18.055676	34034.14795	0.070826
7	621	-37.5	25	25	20	3.732566	29315.50177	0.057612
8	710	-52.5	35	35	20	2.156465	23711.57442	0.045759
9	803	-75	50	50	10	0.521435	16381.37484	0.078003
12	1430	-112.5	75	75	5	0.164886	15540.13918	0.244533
13	1602	-150	100	100	20	0.400218	12573.2208	0.037117
10	905	-112.5	75	75	1	0.050791	23934.82987	0.410845
11	1342	-112.5	75	75	5	0.165941	15639.60765	0.886654
14	1649	-150	100	100	10	0.200722	12611.71892	0.058148



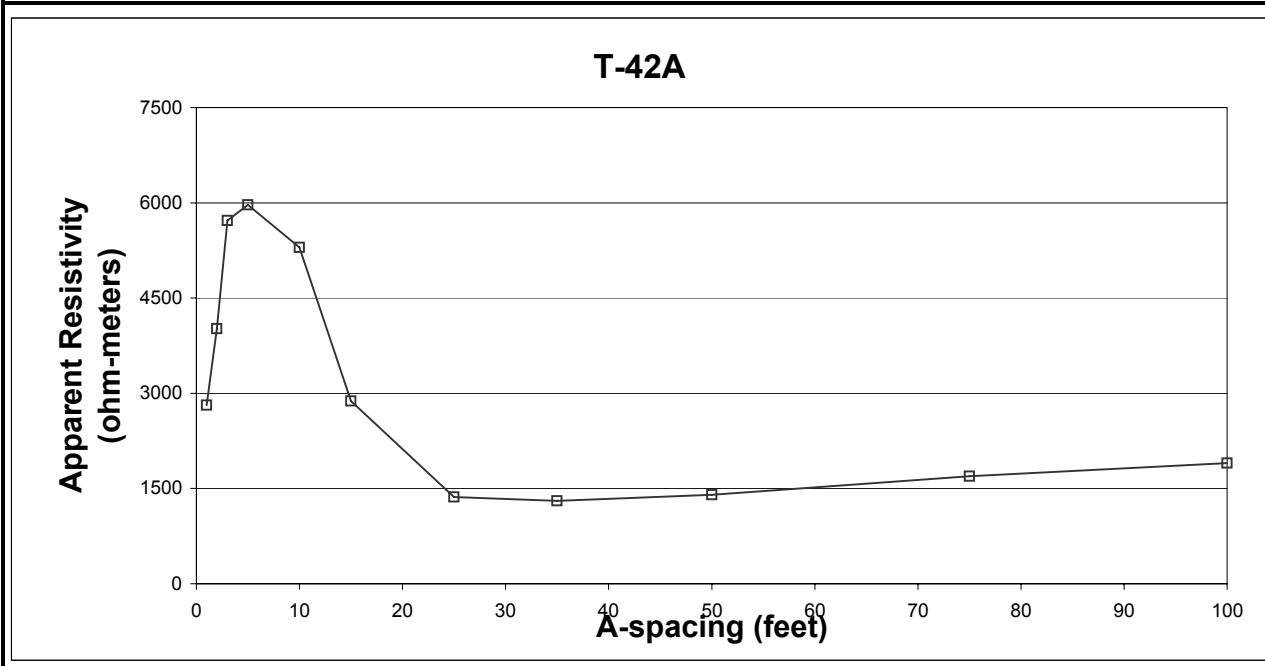
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-42A
 Orientation 281° (mag)
Moist silty soil, no outcrop

Date 11/22/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	14.676	1467.6	2,810.7	0.0503
2	1.00	3.00	20	20.964	1048.2	4,014.8	0.0420
3	1.50	4.50	10	9.954	995.4	5,718.7	0.0685
5	2.50	7.50	10	6.231	623.1	5,966.6	0.0214
10	5.00	15.00	10	2.766	276.6	5,297.3	0.0169
15	7.50	22.50	10	1.002	100.2	2,879.6	0.0127
25	12.50	37.50	10	0.285	28.5	1,364.1	0.0012
35	17.50	52.50	20	0.390	19.5	1,306.8	0.0109
50	25.00	75.00	20	0.293	14.6	1,402.0	0.0036
75	37.50	112.50	20	0.236	11.8	1,695.0	0.0150
100	50.00	150.00	20	0.198	9.9	1,900.7	0.0089

Geomean 2,661
 Min 1,307
 Max 5,967
 Median 2,811
 Std. Dev. 1,827



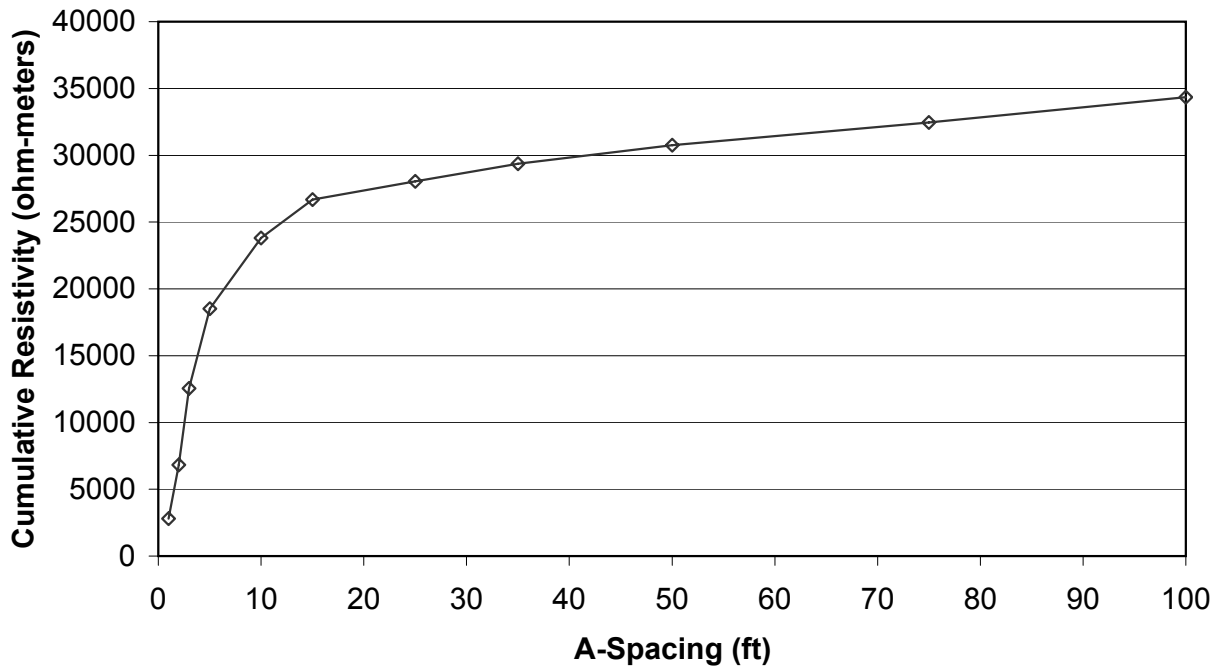
Cumulative Resistivity Sheet

T-42A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	9221.448429	2810.697481	0.050344	2811
2	1	3	20	6586.018189	4014.836688	0.042022	6826
3	1.5	4.5	10	6254.024416	5718.679926	0.068521	12544
5	2.5	7.5	10	3915.060305	5966.551904	0.021399	18511
10	5	15	10	1737.962357	5297.309264	0.016878	23808
15	7.5	22.5	10	629.8302651	2879.583972	0.012702	26688
25	12.5	37.5	10	179.0129759	1364.078877	0.001241	28052
35	17.5	52.5	20	122.4982374	1306.811196	0.010885	29359
50	25	75	20	91.99557183	1402.012515	0.003623	30761
75	37.5	112.5	20	74.14692733	1694.998759	0.014986	32456
100	50	150	20	62.36030001	1900.741944	0.008884	34356

T-42A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt42a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 22/11/2013 10:53:51

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	343	-1.5	1	1	10	14.676391	9221.44804	0.050344
3	384	-3	2	2	20	20.963947	13172.03685	0.042022
4	437	-4.5	3	3	10	9.953589	18762.0753	0.068521
5	502	-7.5	5	5	10	6.231012	19575.30141	0.021399
6	562	-15	10	10	10	2.766053	17379.62458	0.016878
7	621	-22.5	15	15	10	1.002406	9447.451875	0.012702
8	770	-37.5	25	25	10	0.284908	4475.322436	0.001241
9	921	-52.5	35	35	20	0.389924	4287.440949	0.010885
10	1155	-75	50	50	20	0.292831	4599.775616	0.003623
11	1292	-112.5	75	75	20	0.236017	5561.0267	0.014986
12	1400	-150	100	100	20	0.198499	6236.044759	0.008884
1	168	0	0	0	10	14.721101	inf	0.045365
13	1434	-150	100	100	10	0.099732	6266.319308	0.021573



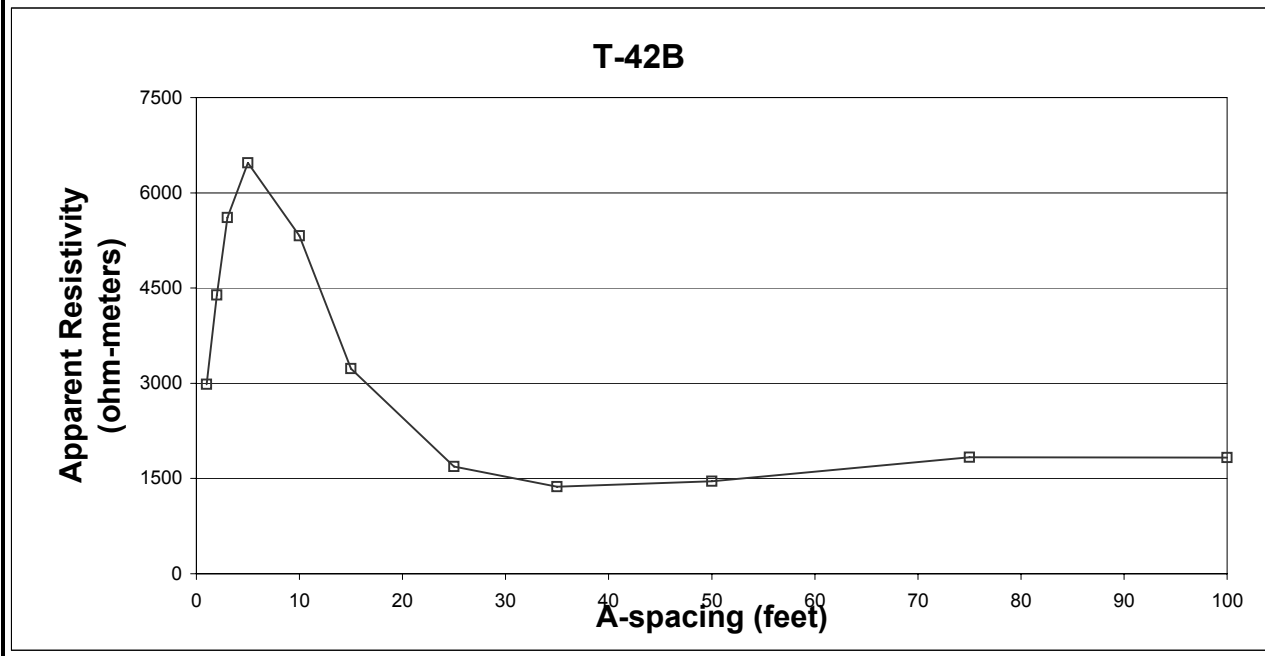
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-42B**
 Orientation **20° (mag)**
Moist silty soil, no outcrop

Date **11/22/2013**
 lat/long: **Mid point**
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	15.592	1559.2	2,986.0	0.0529
2	1.00	3.00	10	11.459	1145.9	4,389.0	0.0533
3	1.50	4.50	10	9.762	976.2	5,608.6	0.0626
5	2.50	7.50	20	13.521	676.0	6,473.4	0.0378
10	5.00	15.00	20	5.559	277.9	5,322.6	0.0230
15	7.50	22.50	20	2.251	112.5	3,232.5	0.0118
25	12.50	37.50	20	0.705	35.2	1,686.8	0.0010
35	17.50	52.50	20	0.410	20.5	1,372.8	0.0276
50	25.00	75.00	20	0.304	15.2	1,454.3	0.0035
75	37.50	112.50	20	0.255	12.8	1,834.3	0.0014
100	50.00	150.00	20	0.191	9.5	1,827.9	0.0222

Geomean 2,828
 Min 1,373
 Max 6,473
 Median 2,986
 Std. Dev. 1,866

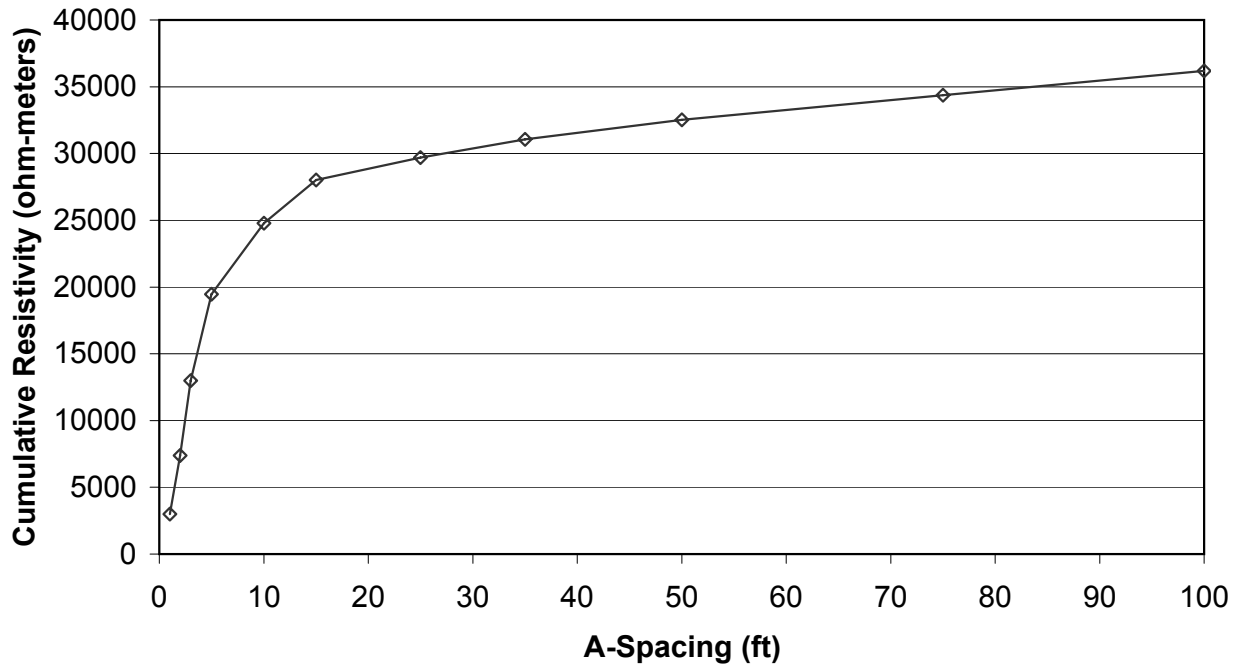


Cumulative Resistivity Sheet

T-42B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2 <i>π</i> V/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	10	9796.675929	2986.026823	0.052856	2986
2	1	3	10	7199.880681	4389.047263	0.053319	7375
3	1.5	4.5	10	6133.638585	5608.599122	0.062588	12984
5	2.5	7.5	20	4247.608254	6473.35498	0.037833	19457
10	5	15	20	1746.264958	5322.615592	0.02297	24780
15	7.5	22.5	20	707.0232807	3232.510439	0.011787	28012
25	12.5	37.5	20	221.3647865	1686.799673	0.001004	29699
35	17.5	52.5	20	128.6849758	1372.811322	0.02763	31072
50	25	75	20	95.42901845	1454.338241	0.003493	32526
75	37.5	112.5	20	80.24161708	1834.323366	0.001385	34360
100	50	150	20	59.97017632	1827.890974	0.022234	36188

T-42B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt42b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 22/11/2013 11:18:46

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	531	-1.5	1	1	10	15.591894	9796.676263	0.052856
2	572	-3	2	2	10	11.458966	14399.76144	0.053319
3	608	-4.5	3	3	10	9.761989	18400.91486	0.062588
4	645	-7.5	5	5	20	13.520557	21238.04263	0.037833
5	702	-15	10	10	20	5.558534	17462.64938	0.02297
6	756	-22.5	15	15	20	2.250525	10605.34875	0.011787
7	862	-37.5	25	25	20	0.704626	5534.117322	0.001004
8	971	-52.5	35	35	20	0.409617	4503.968748	0.02763
9	1050	-75	50	50	20	0.30376	4771.449038	0.003493
10	1142	-112.5	75	75	20	0.255417	6018.120917	0.001385
11	1267	-150	100	100	20	0.190891	5997.005612	0.022234
12	1295	-150	100	100	10	0.09539	5993.558949	0.303189



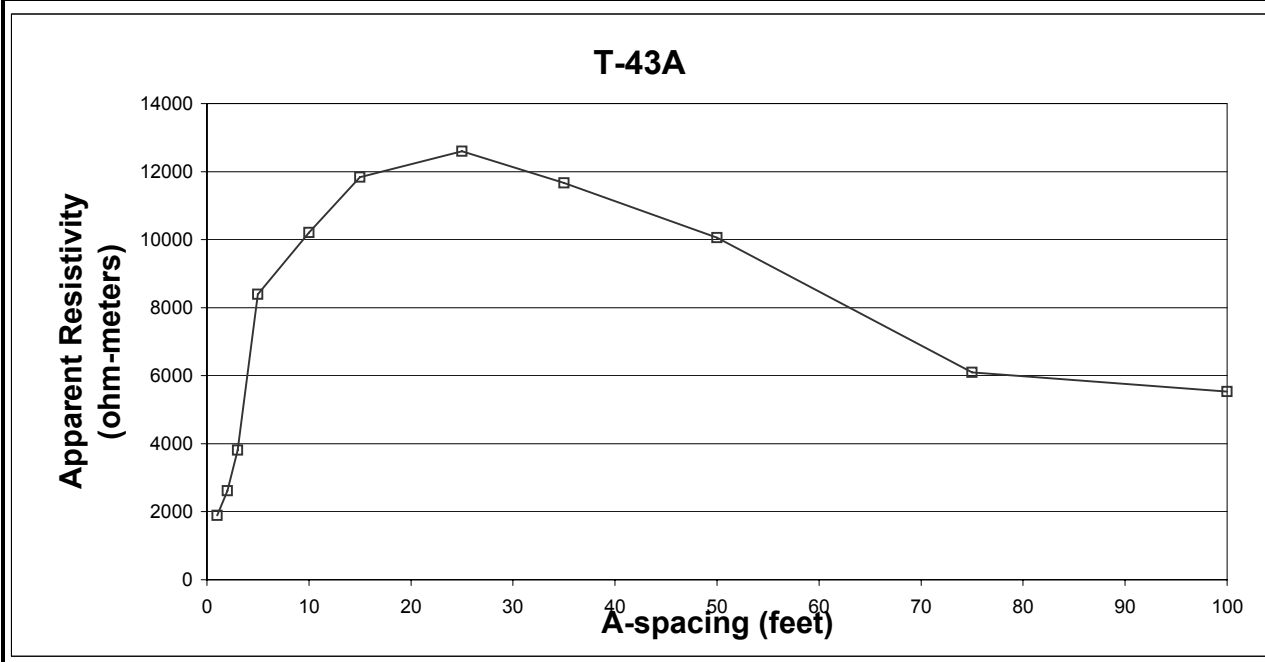
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-43A**
 Orientation **346° (mag)**
Outcrop and shallow bedrock

Date **11/22/2013**
 lat/long: **Mid point**
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	19.725	986.3	1,888.8	0.0483
2	1.00	3.00	20	13.680	684.0	2,619.8	0.0582
3	1.50	4.50	20	13.259	662.9	3,808.8	0.0697
5	2.50	7.50	20	17.535	876.8	8,395.5	0.0899
10	5.00	15.00	50	26.650	533.0	10,207.6	0.0459
15	7.50	22.50	50	20.606	412.1	11,839.0	0.0483
25	12.50	37.50	20	5.264	263.2	12,602.3	0.0670
35	17.50	52.50	20	3.481	174.1	11,668.0	0.0809
50	25.00	75.00	20	2.101	105.0	10,057.3	0.0753
75	37.50	112.50	20	0.848	42.4	6,093.4	0.0354
100	50.00	150.00	20	0.578	28.9	5,534.3	0.0361

Geomean 6,551
 Min 1,889
 Max 12,602
 Median 8,396
 Std. Dev. 3,889

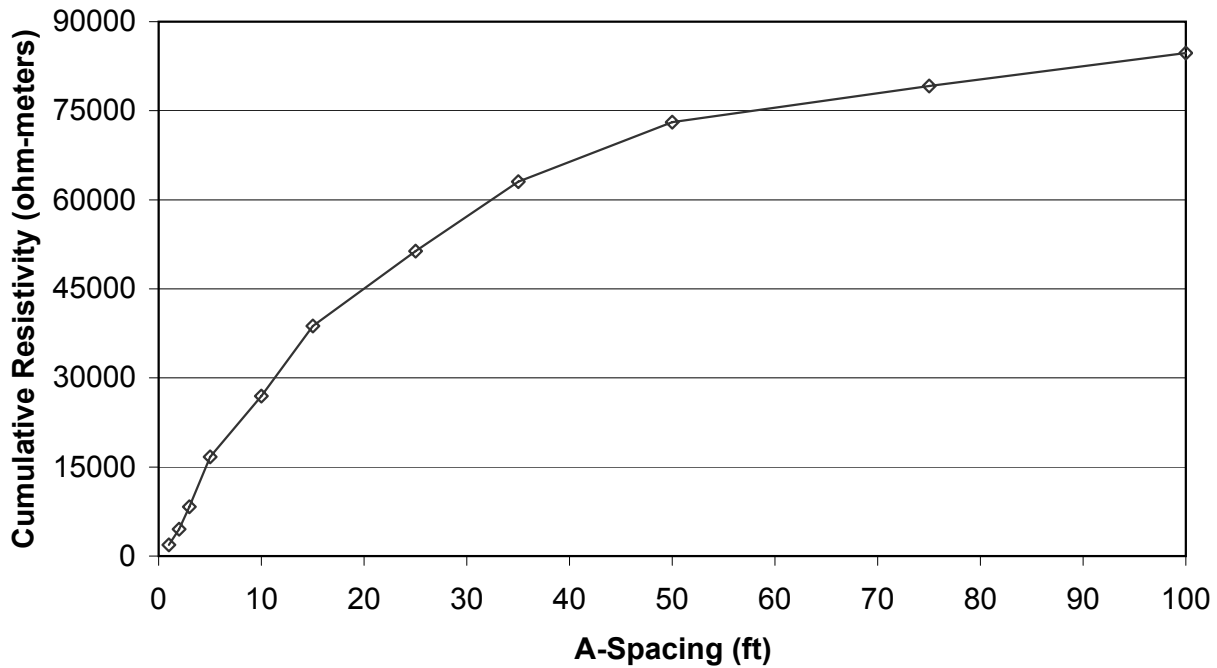


T-43A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	6196.924713	1888.822652	0.048262	1889
2	1	3	20	4297.606387	2619.820854	0.058166	4509
3	1.5	4.5	20	4165.383036	3808.826248	0.069658	8317
5	2.5	7.5	20	5508.886391	8395.542859	0.089944	16713
10	5	15	50	3348.947319	10207.59143	0.045852	26921
15	7.5	22.5	50	2589.459755	11839.01	0.048268	38760
25	12.5	37.5	20	1653.844329	12602.29378	0.066983	51362
35	17.5	52.5	20	1093.741712	11668.03659	0.080866	63030
50	25	75	20	659.9260944	10057.27368	0.075262	73087
75	37.5	112.5	20	266.555026	6093.447895	0.035432	79181
100	50	150	20	181.5718032	5534.308561	0.036105	84715

T-43A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt43a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 22/11/2013 08:31:49

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	151	-1.5	1	1	20	19.725424	6196.924582	0.048262
2	388	-3	2	2	20	13.679706	8595.212656	0.058166
3	468	-4.5	3	3	20	13.258826	12496.14881	0.069658
4	577	-7.5	5	5	20	17.53533	27544.43131	0.089944
5	699	-15	10	10	50	26.650076	33489.47356	0.045852
6	902	-22.5	15	15	50	20.606266	38841.89493	0.048268
7	1069	-37.5	25	25	20	5.26435	41346.10802	0.066983
8	1325	-52.5	35	35	20	3.481488	38280.95699	0.080866
9	1622	-75	50	50	20	2.10061	32996.29826	0.075262
10	2048	-112.5	75	75	20	0.848471	19991.63398	0.035432
11	2514	-150	100	100	20	0.577961	18157.1877	0.036105
12	2548	-150	100	100	10	0.289972	18219.49608	0.002439



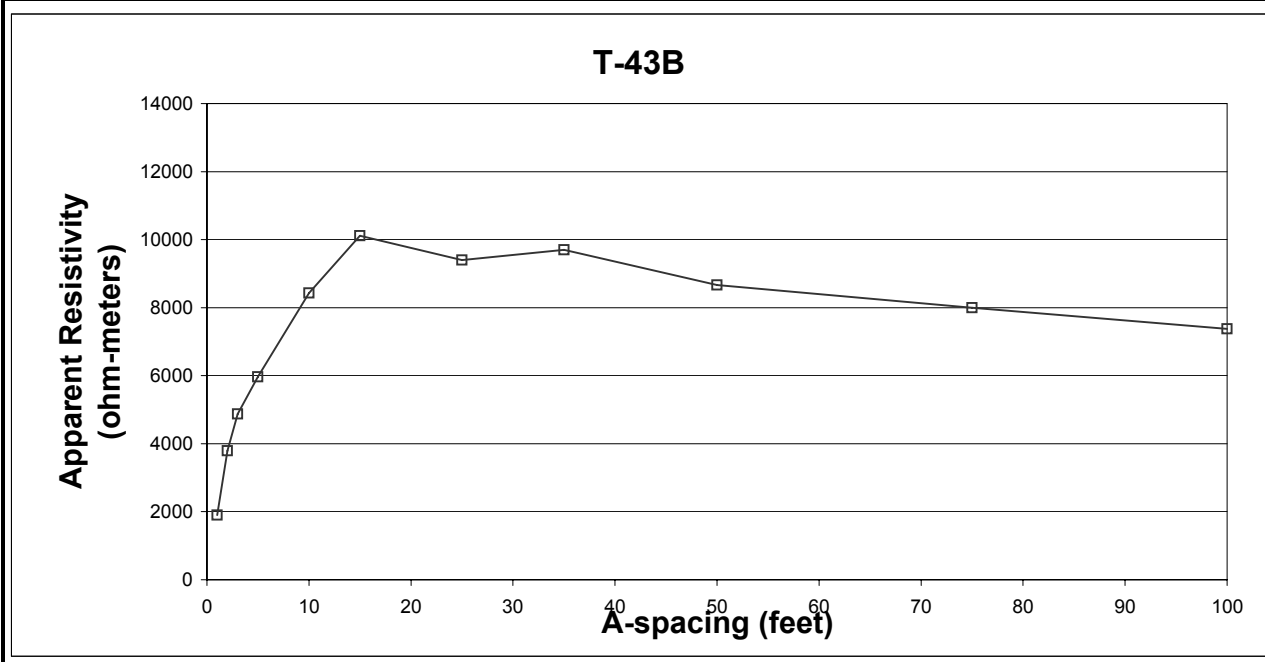
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-43B
 Orientation 79° (mag)
Outcrop and shallow bedrock

Date 11/22/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	19.800	990.0	1,895.9	0.0301
2	1.00	3.00	20	19.791	989.5	3,790.2	0.0381
3	1.50	4.50	20	16.968	848.4	4,874.3	0.0394
5	2.50	7.50	20	12.452	622.6	5,962.0	0.0787
10	5.00	15.00	20	8.802	440.1	8,428.4	0.0775
15	7.50	22.50	50	17.610	352.2	10,117.8	0.0484
25	12.50	37.50	20	3.926	196.3	9,398.5	0.0507
35	17.50	52.50	20	2.894	144.7	9,698.6	0.0456
50	25.00	75.00	20	1.810	90.5	8,665.7	0.0580
75	37.50	112.50	20	1.113	55.6	7,993.1	0.0540
100	50.00	150.00	20	0.770	38.5	7,372.6	0.0303

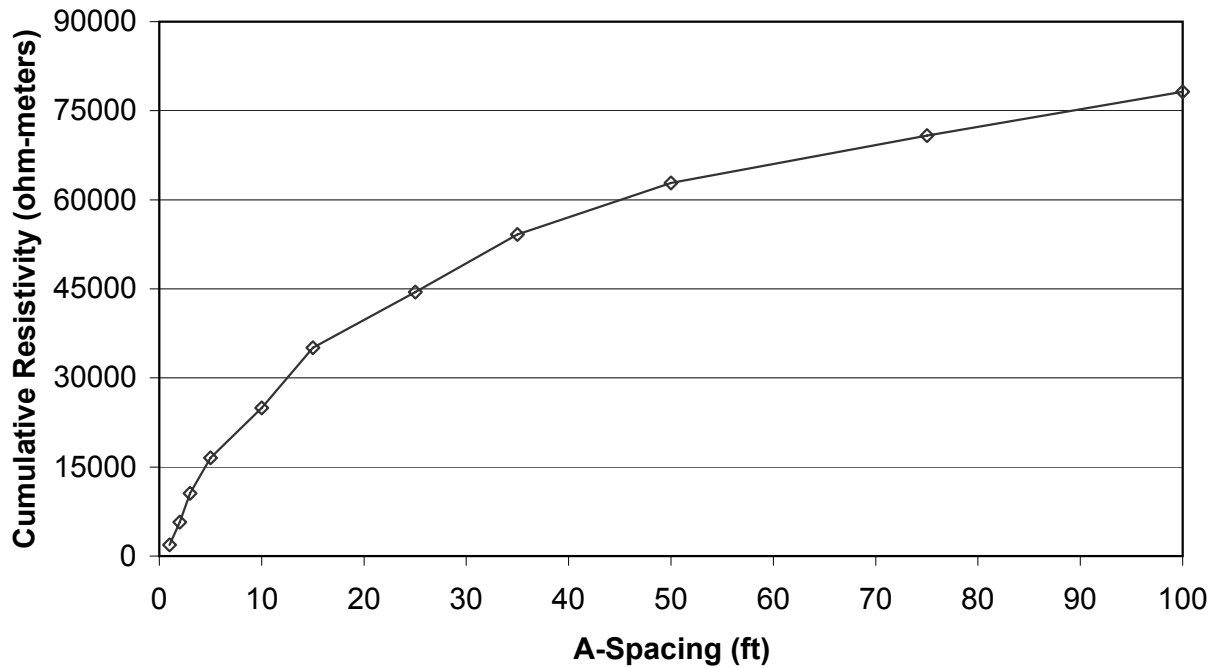
Geomean 6,468
 Min 1,896
 Max 10,118
 Median 7,993
 Std. Dev. 2,655



T-43B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6220.250724	1895.932421	0.030141	1896
2	1	3	20	6217.441512	3790.152346	0.038052	5686
3	1.5	4.5	20	5330.610746	4874.310467	0.039358	10560
5	2.5	7.5	20	3912.048146	5961.961374	0.078733	16522
10	5	15	20	2765.222314	8428.397613	0.077486	24951
15	7.5	22.5	50	2212.985869	10117.77139	0.048411	35069
25	12.5	37.5	20	1233.398701	9398.498098	0.050719	44467
35	17.5	52.5	20	909.1260201	9698.556383	0.045588	54166
50	25	75	20	568.6131907	8665.665026	0.058037	62831
75	37.5	112.5	20	349.6551783	7993.117375	0.054022	70824
100	50	150	20	241.8837848	7372.61776	0.030318	78197

T-43B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt43b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 22/11/2013 09:18:11

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	2032	-1.5	1	1	20	19.799673	6220.251061	0.030141
2	2132	-3	2	2	20	19.790731	12434.88238	0.038052
3	2228	-4.5	3	3	20	16.967861	15991.83255	0.039358
4	2325	-7.5	5	5	20	12.452436	19560.24155	0.078733
5	2425	-15	10	10	20	8.801976	27652.22414	0.077486
6	2644	-22.5	15	15	50	17.610382	33194.78818	0.048411
7	2719	-37.5	25	25	20	3.92603	30834.96487	0.050719
8	2802	-52.5	35	35	20	2.893838	31819.4095	0.045588
9	2945	-75	50	50	20	1.809952	28430.66091	0.058037
10	3129	-112.5	75	75	20	1.112987	26224.13081	0.054022
11	3273	-150	100	100	20	0.76994	24188.36993	0.030318
12	3306	-150	100	100	10	0.386078	24257.98389	0.012825



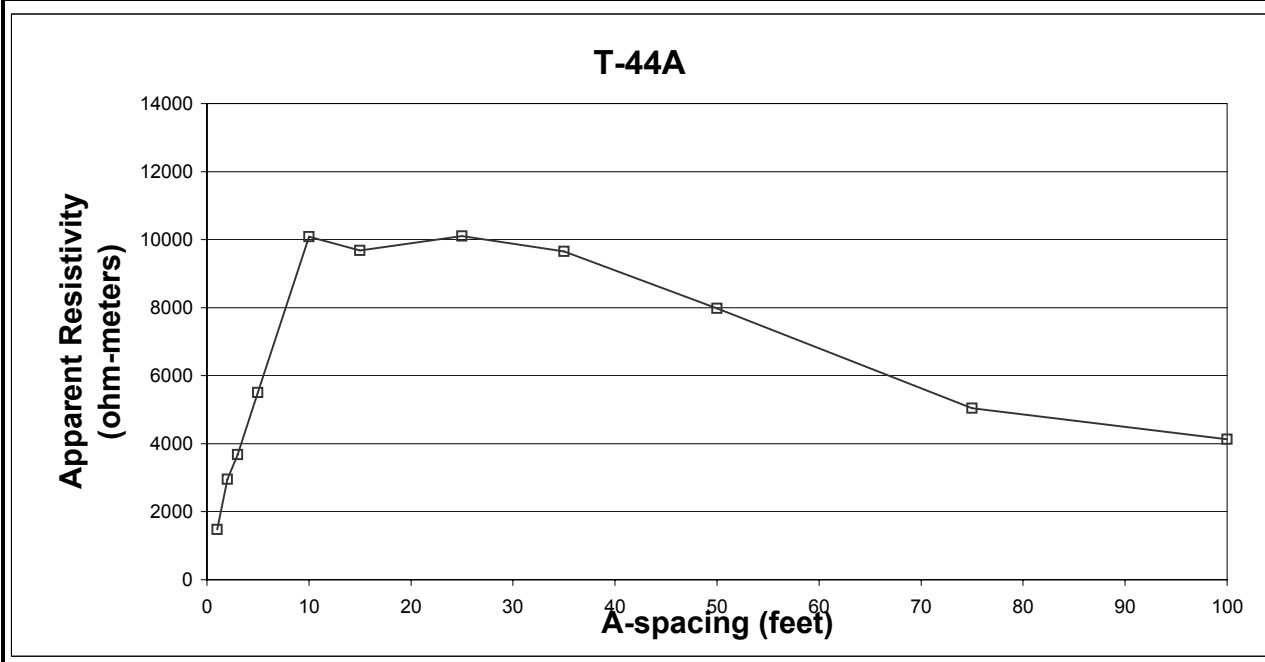
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-44A**
 Orientation **351° (mag)**
Moist silty till, no outcrop

Date **11/20/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	15.454	772.7	1,479.9	0.0165
2	1.00	3.00	20	15.405	770.2	2,950.2	0.0738
3	1.50	4.50	20	12.812	640.6	3,680.4	0.0322
5	2.50	7.50	20	11.493	574.7	5,502.6	0.0618
10	5.00	15.00	20	10.531	526.6	10,084.3	0.0648
15	7.50	22.50	20	6.738	336.9	9,678.0	0.0546
25	12.50	37.50	20	4.223	211.1	10,108.8	0.0653
35	17.50	52.50	20	2.881	144.1	9,655.7	0.0545
50	25.00	75.00	20	1.667	83.3	7,979.3	0.0480
75	37.50	112.50	20	0.703	35.1	5,047.6	0.0337
100	50.00	150.00	20	0.432	21.6	4,132.8	0.0664

Geomean 5,503
 Min 1,480
 Max 10,109
 Median 5,503
 Std. Dev. 3,201

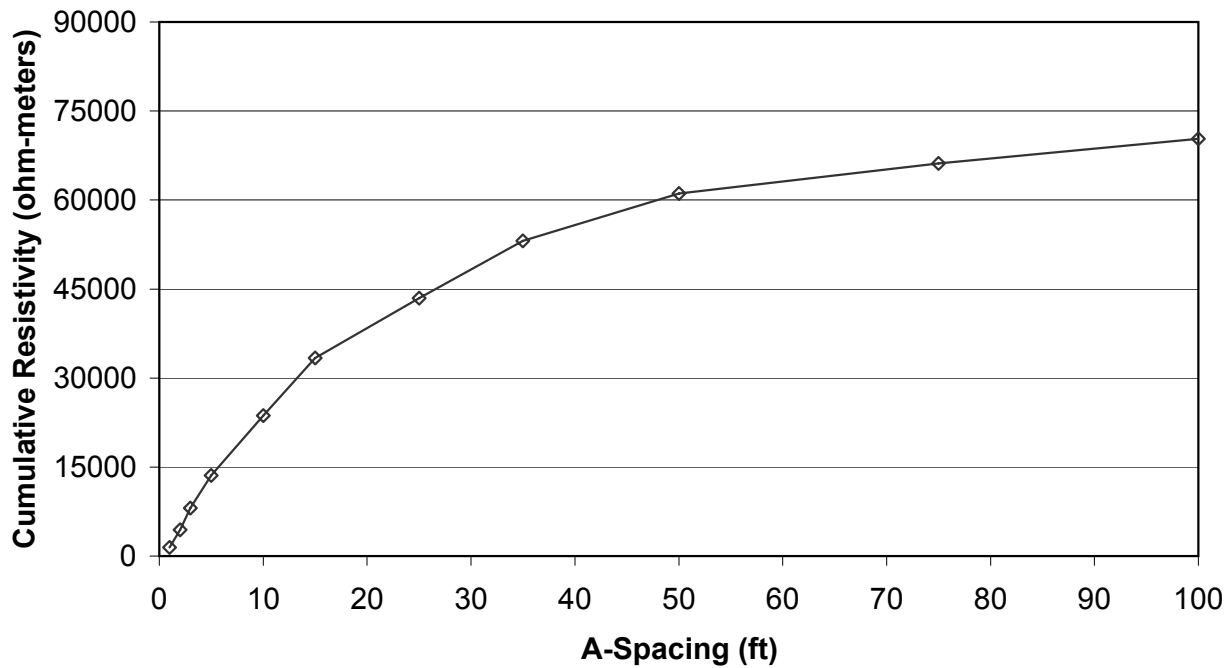


Cumulative Resistivity Sheet

T-44A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4855.15803	1479.852168	0.016549	1480
2	1	3	20	4839.565363	2950.199046	0.07379	4430
3	1.5	4.5	20	4024.922114	3680.388781	0.032163	8110
5	2.5	7.5	20	3610.640605	5502.616282	0.061815	13613
10	5	15	20	3308.507042	10084.32946	0.064762	23697
15	7.5	22.5	20	2116.807643	9678.044545	0.054591	33375
25	12.5	37.5	20	1326.619808	10108.84293	0.06533	43484
35	17.5	52.5	20	905.1041532	9655.651107	0.054507	53140
50	25	75	20	523.5737476	7979.263913	0.047962	61119
75	37.5	112.5	20	220.8027556	5047.550993	0.033716	66167
100	50	150	20	135.5917672	4132.837066	0.066377	70300

T-44A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt44a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 20/11/2013 08:52:43

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	54	-1.5	1	1	20	15.454448	4855.157723	0.016549
2	95	-3	2	2	20	15.404815	9679.130383	0.07379
3	142	-4.5	3	3	20	12.811725	12074.7662	0.032163
4	188	-7.5	5	5	20	11.493026	18053.2013	0.061815
5	250	-15	10	10	20	10.531305	33085.07404	0.064762
6	318	-22.5	15	15	20	6.738008	31752.11089	0.054591
7	402	-37.5	25	25	20	4.222762	33165.49634	0.06533
8	492	-52.5	35	35	20	2.881036	31678.6428	0.054507
9	577	-75	50	50	20	1.666587	26178.68124	0.047962
10	683	-112.5	75	75	20	0.702837	16560.21723	0.033716
11	871	-150	100	100	20	0.431602	13559.18096	0.066377
12	914	-150	100	100	10	0.216465	13600.90164	0.032678



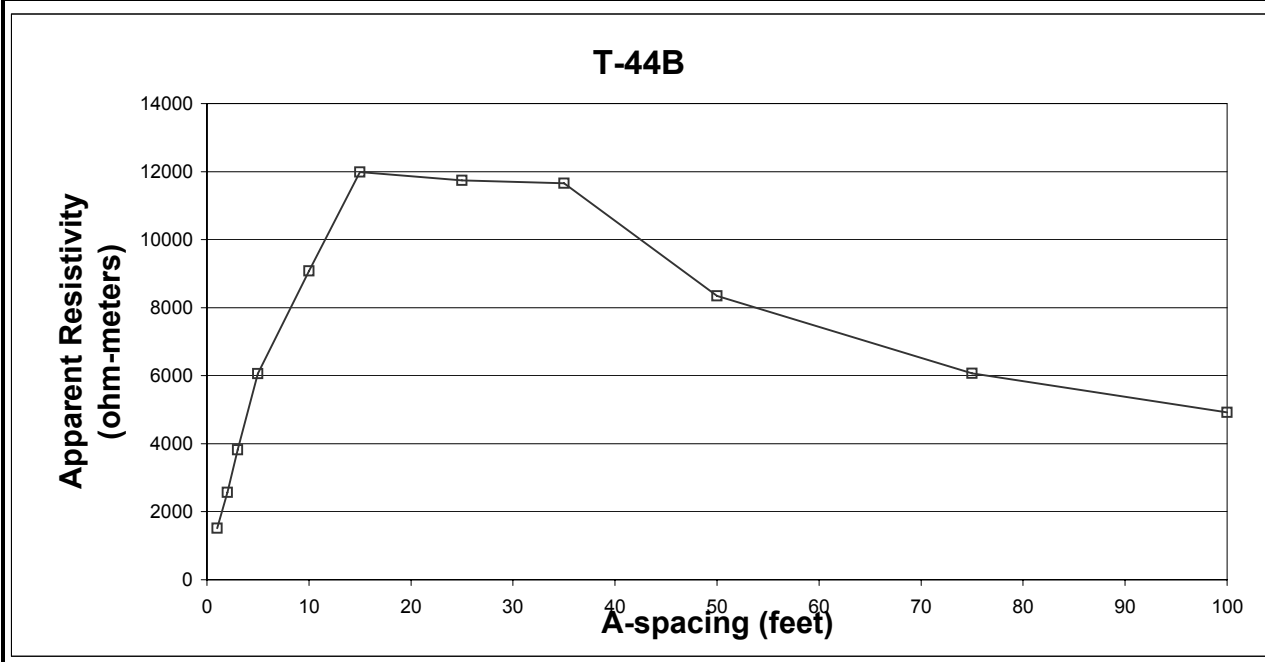
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-44B
 Orientation 86° (mag)
Moist silty till, no outcrop

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	15.855	792.7	1,518.2	0.0600
2	1.00	3.00	20	13.405	670.2	2,567.1	0.0562
3	1.50	4.50	20	13.304	665.2	3,821.7	0.0555
5	2.50	7.50	20	12.664	633.2	6,063.3	0.0505
10	5.00	15.00	20	9.477	473.8	9,074.6	0.0645
15	7.50	22.50	20	8.347	417.4	11,989.2	0.0817
25	12.50	37.50	20	4.905	245.2	11,741.3	0.0587
35	17.50	52.50	20	3.479	174.0	11,660.7	0.0546
50	25.00	75.00	20	1.744	87.2	8,349.9	0.0580
75	37.50	112.50	20	0.844	42.2	6,064.0	0.0473
100	50.00	150.00	20	0.513	25.7	4,916.1	0.0489

Geomean 5,956
 Min 1,518
 Max 11,989
 Median 6,064
 Std. Dev. 3,756



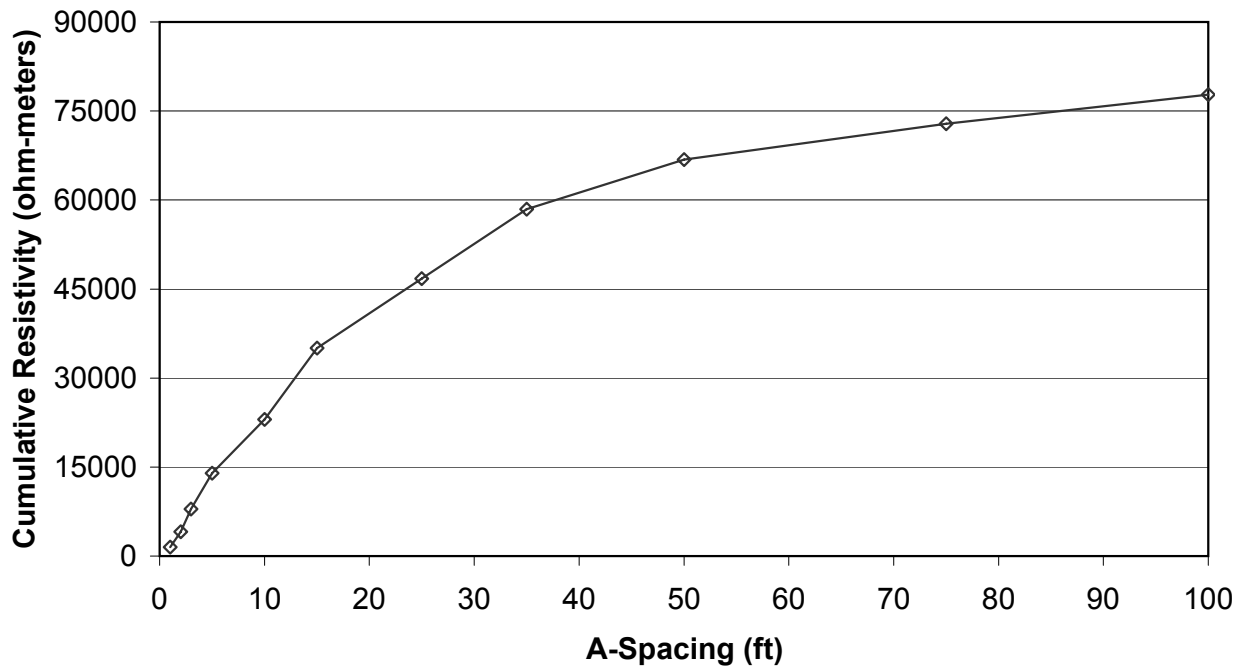
Cumulative Resistivity Sheet

T-44B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4980.941745	1518.191044	0.060045	1518
2	1	3	20	4211.151328	2567.11785	0.056181	4085
3	1.5	4.5	20	4179.429096	3821.669966	0.055539	7907
5	2.5	7.5	20	3978.522675	6063.268557	0.05049	13970
10	5	15	20	2977.23992	9074.627275	0.064471	23045
15	7.5	22.5	20	2622.299012	11989.15108	0.081709	35034
25	12.5	37.5	20	1540.851922	11741.29165	0.058699	46775
35	17.5	52.5	20	1093.04962	11660.65334	0.054588	58436
50	25	75	20	547.8937588	8349.900884	0.058001	66786
75	37.5	112.5	20	265.2650881	6063.959914	0.047333	72850
100	50	150	20	161.2899952	4916.119052	0.048912	77766

T-44B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt44b.s4k
Instrument ID: SAS1000 2042452

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	284	-1.5	1	1	20	15.85483	4980.941846	0.060045
2	314	-3	2	2	20	13.404511	8422.303108	0.056181
3	345	-4.5	3	3	20	13.303536	12538.28765	0.055539
4	375	-7.5	5	5	20	12.664031	19892.613	0.05049
5	422	-15	10	10	20	9.476849	29772.39843	0.064471
6	464	-22.5	15	15	20	8.347037	39334.48684	0.081709
7	514	-37.5	25	25	20	4.904684	38521.29918	0.058699
8	575	-52.5	35	35	20	3.479285	38256.72968	0.054588
9	639	-75	50	50	20	1.744	27394.68938	0.058001
10	705	-112.5	75	75	20	0.844365	19894.87634	0.047333
11	816	-150	100	100	20	0.513402	16129.01223	0.048912
12	840	-150	100	100	10	0.257623	16186.91761	0.061779



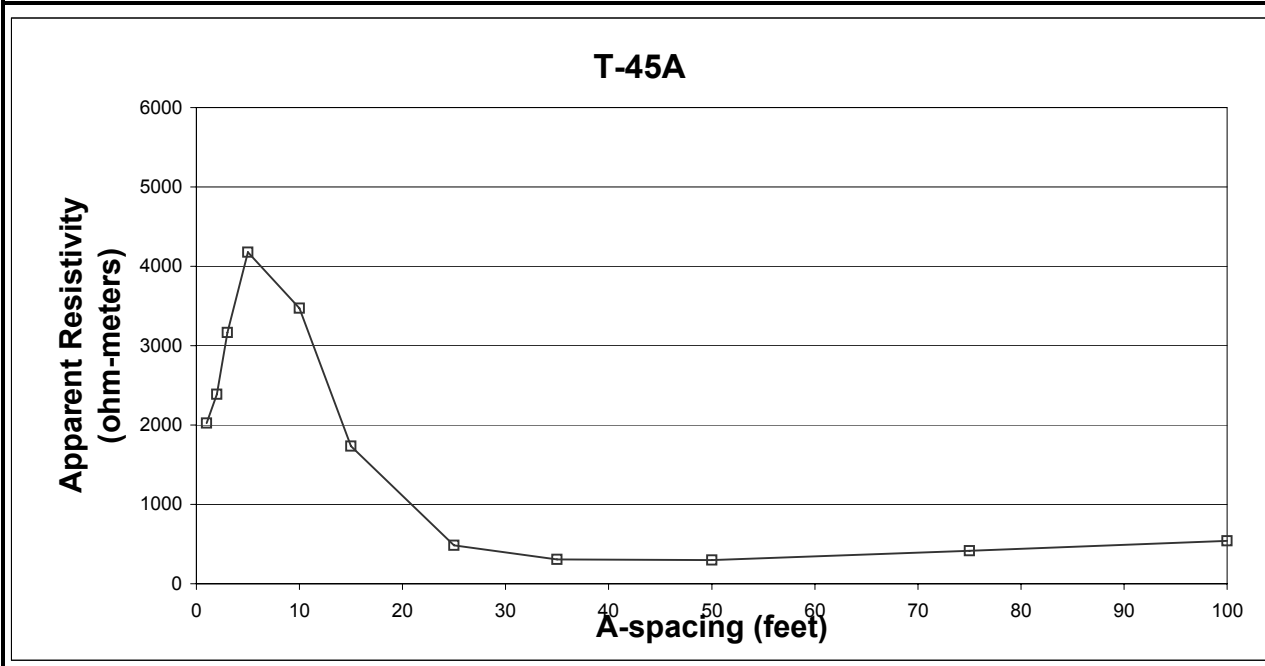
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-45A
 Orientation 327° (mag)
Moist silty till, no outcrop

Date 11/15/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	21.126	1056.3	2,022.9	0.0471
2	1.00	3.00	50	31.185	623.7	2,389.0	0.0314
3	1.50	4.50	20	11.012	550.6	3,163.3	0.0619
5	2.50	7.50	50	21.821	436.4	4,179.0	0.0241
10	5.00	15.00	50	9.068	181.4	3,473.4	0.0047
15	7.50	22.50	20	1.208	60.4	1,735.6	0.0644
25	12.50	37.50	20	0.201	10.1	482.3	0.2791
35	17.50	52.50	20	0.091	4.6	306.5	0.0428
50	25.00	75.00	20	0.063	3.1	300.1	0.1459
75	37.50	112.50	50	0.144	2.9	415.1	0.0735
100	50.00	150.00	50	0.142	2.8	542.2	0.0655

Geomean 1,130
 Min 300
 Max 4,179
 Median 1,736
 Std. Dev. 1,428

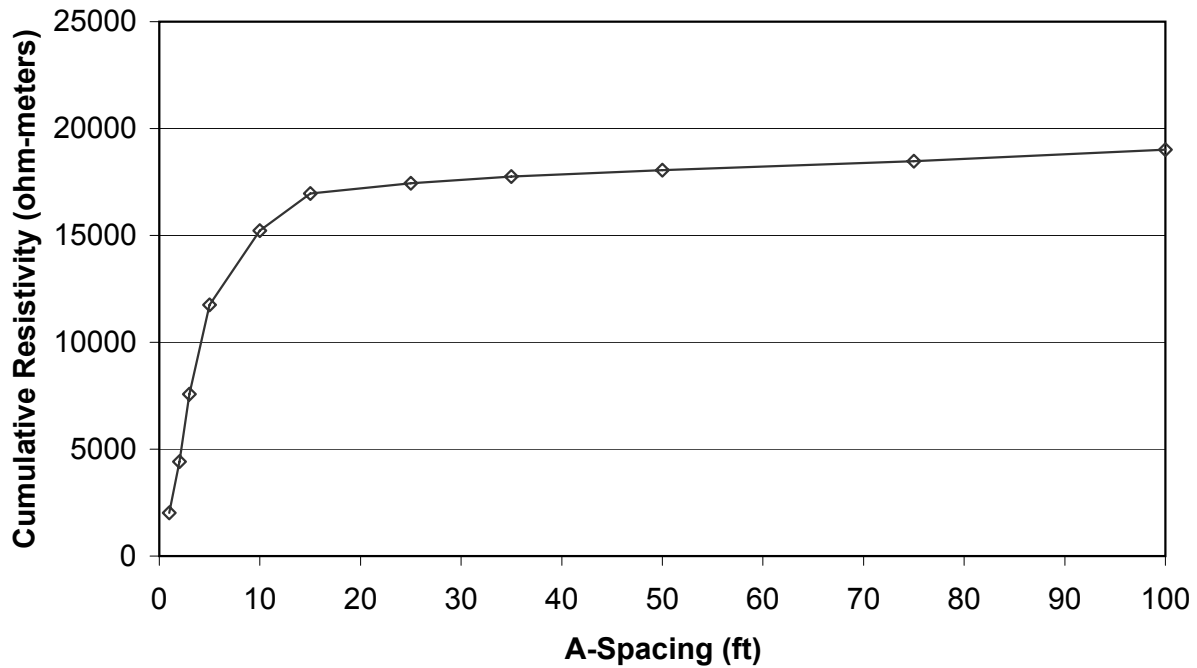


Cumulative Resistivity Sheet

T-45A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	6636.836905	2022.907889	0.047081	2023
2	1	3	50	3918.88488	2388.952223	0.031438	4412
3	1.5	4.5	20	3459.447689	3163.318966	0.061936	7575
5	2.5	7.5	50	2742.142666	4179.025423	0.024093	11754
10	5	15	50	1139.559705	3473.377981	0.004701	15228
15	7.5	22.5	20	379.619689	1735.621218	0.064393	16963
25	12.5	37.5	20	63.29586631	482.3145013	0.279118	17446
35	17.5	52.5	20	28.73489137	306.5438211	0.042802	17752
50	25	75	20	19.69275939	300.1176531	0.145871	18052
75	37.5	112.5	50	18.15702324	415.0695512	0.073535	18467
100	50	150	50	17.78895424	542.2073253	0.065465	19009

T-45A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt45a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 15/11/2013 10:03:20

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	259	-1.5	1	1	20	21.125708	6636.836908	0.047081
2	440	-3	2	2	50	31.185495	7837.769758	0.031438
3	502	-4.5	3	3	20	11.011764	10378.34299	0.061936
4	571	-7.5	5	5	50	21.821278	13710.71261	0.024093
5	682	-15	10	10	50	9.068328	11395.59717	0.004701
6	778	-22.5	15	15	20	1.208367	5694.294996	0.064393
7	873	-37.5	25	25	20	0.201477	1582.396757	0.279118
8	1004	-52.5	35	35	20	0.091466	1005.722116	0.042802
9	1093	-75	50	50	20	0.062684	984.631858	0.145871
10	1212	-112.5	75	75	50	0.144489	1361.781146	0.073535
11	1298	-150	100	100	50	0.14156	1778.893105	0.065465
12	1347	-150	100	100	20	0.056577	1777.427584	0.316528



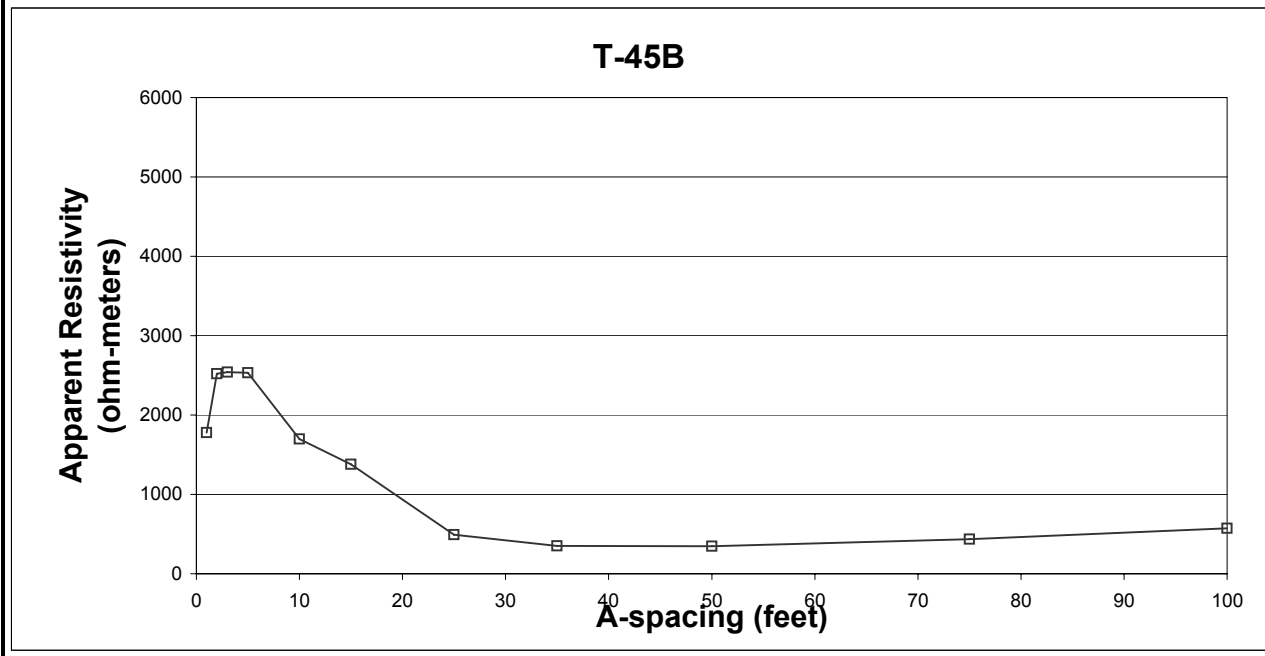
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-45B
 Orientation 229° (mag)
Moist silty till, no outcrop

Date 11/15/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	18.591	929.5	1,780.2	0.0359
2	1.00	3.00	20	13.150	657.5	2,518.3	0.0292
3	1.50	4.50	20	8.849	442.5	2,542.1	0.0225
5	2.50	7.50	20	5.290	264.5	2,532.7	0.0183
10	5.00	15.00	20	1.773	88.7	1,698.0	0.0114
15	7.50	22.50	20	0.960	48.0	1,378.3	0.0114
25	12.50	37.50	20	0.205	10.2	490.1	0.0639
35	17.50	52.50	50	0.261	5.2	350.4	0.4547
50	25.00	75.00	20	0.073	3.6	348.0	0.9487
75	37.50	112.50	50	0.152	3.0	437.0	0.7998
100	50.00	150.00	20	0.060	3.0	571.1	0.8102

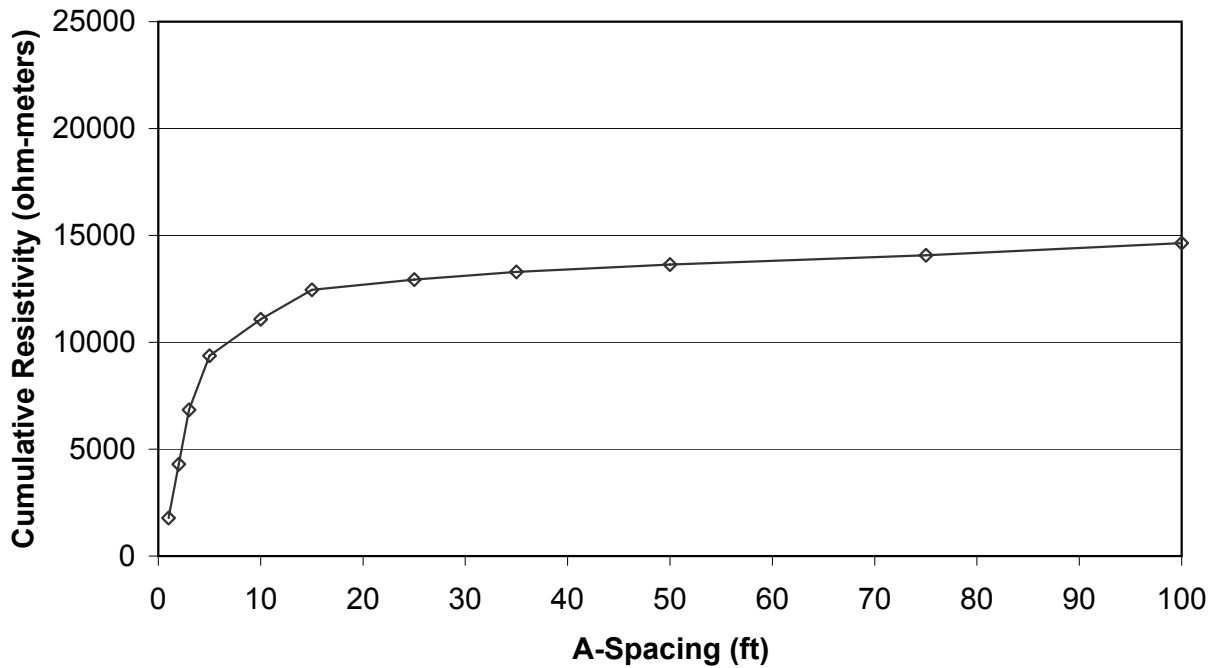
Geomean 1,001
 Min 348
 Max 2,542
 Median 1,378
 Std. Dev. 931



T-45B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	5840.500659	1780.184601	0.035922	1780
2	1	3	20	4131.041344	2518.282803	0.029175	4298
3	1.5	4.5	20	2780.120689	2542.142358	0.022479	6841
5	2.5	7.5	20	1661.856018	2532.668572	0.01832	9373
10	5	15	20	557.090143	1698.010756	0.011369	11071
15	7.5	22.5	20	301.4584346	1378.267963	0.011426	12450
25	12.5	37.5	20	64.31248569	490.061141	0.063925	12940
35	17.5	52.5	50	32.84246093	350.3633732	0.454705	13290
50	25	75	20	22.83749364	348.043403	0.948745	13638
75	37.5	112.5	50	19.11608864	436.9937864	0.799805	14075
100	50	150	20	18.73551611	571.058531	0.810233	14646

T-45B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt45b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 15/11/2013 10:30:30

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	476	-1.5	1	1	20	18.590891	5840.500695	0.035922
2	517	-3	2	2	20	13.149513	8262.083417	0.029175
3	561	-4.5	3	3	20	8.849399	8340.361306	0.022479
4	608	-7.5	5	5	20	5.289852	8309.279595	0.01832
5	676	-15	10	10	20	1.773273	5570.9029	0.011369
6	735	-22.5	15	15	20	0.959572	4521.878633	0.011426
7	815	-37.5	25	25	20	0.204713	1607.81395	0.063925
8	884	-52.5	35	35	50	0.261352	1149.484728	0.454705
10	1036	-75	50	50	20	0.072694	1141.880768	0.948745
11	1134	-112.5	75	75	50	0.152121	1433.709302	0.799805
15	1525	-150	100	100	20	0.059637	1873.549306	0.810233
9	990	-75	50	50	20	0.081556	1281.073196	2.618835
12	1261	-150	100	100	20	0.067042	2106.195919	4.246881
13	1377	-150	100	100	20	0.063988	2010.256506	1.018169
14	1411	-150	100	100	20	0.063268	1987.607369	2.955197
16	1559	-150	100	100	10	0.027957	1756.588515	0.973623



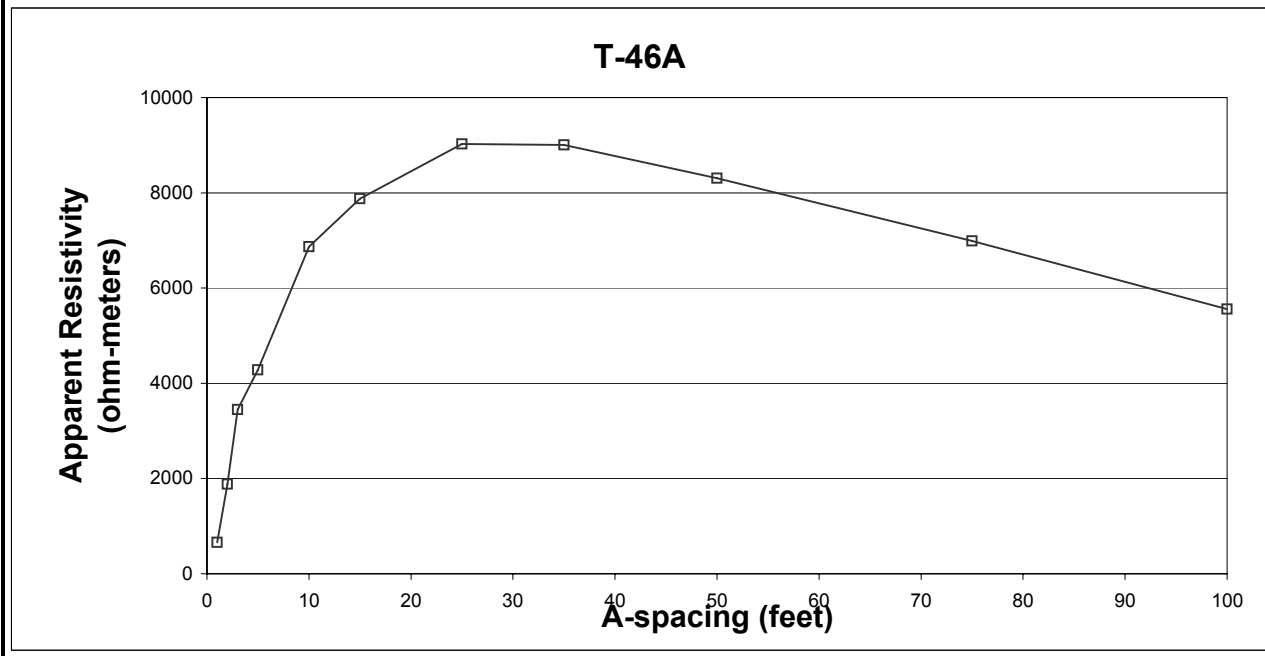
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-46A
 Orientation 340° (mag)
Moist silty till, no outcrop

Date 11/15/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	17.205	344.1	659.0	0.0157
2	1.00	3.00	50	24.537	490.7	1,879.6	
3	1.50	4.50	20	12.000	600.0	3,447.3	0.0296
5	2.50	7.50	20	8.948	447.4	4,284.2	0.0397
10	5.00	15.00	50	17.926	358.5	6,866.1	0.0214
15	7.50	22.50	20	5.482	274.1	7,874.5	0.0282
25	12.50	37.50	20	3.771	188.5	9,027.1	0.0290
35	17.50	52.50	50	6.719	134.4	9,007.3	0.0441
50	25.00	75.00	20	1.735	86.7	8,304.7	0.0230
75	37.50	112.50	20	0.973	48.7	6,989.1	0.0487
100	50.00	150.00	20	0.580	29.0	5,554.6	0.0402

Geomean 4,720
 Min 659
 Max 9,027
 Median 6,866
 Std. Dev. 2,890

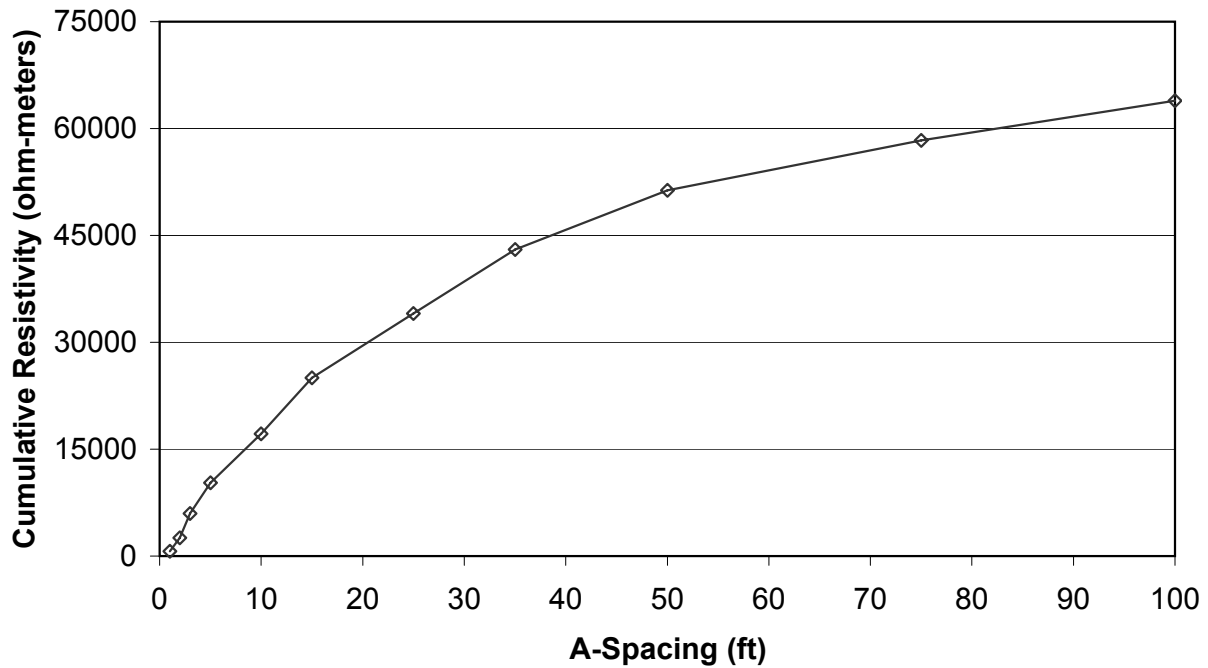


T-46A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2162.041174	658.9901498	0.015691	659
2	1	3	50	3083.377811	1879.627113	0	2539
3	1.5	4.5	20	3770.008888	3447.296127	0.029601	5986
5	2.5	7.5	20	2811.148314	4284.190031	0.039698	10270
10	5	15	50	2252.643324	6866.056851	0.021401	17136
15	7.5	22.5	20	1722.323509	7874.463081	0.028192	25011
25	12.5	37.5	20	1184.662231	9027.126202	0.028982	34038
35	17.5	52.5	50	844.3243885	9007.252576	0.044112	43045
50	25	75	20	544.9262104	8304.675446	0.023041	51350
75	37.5	112.5	20	305.7350847	6989.104035	0.0487	58339
100	50	150	20	182.2390774	5554.647081	0.040241	63893

T-46A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt46a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 15/11/2013 08:48:58

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	124	-1.5	1	1	50	17.204977	2162.041035	0.015691
2	208	-3	2	2	50	24.536741	6166.755782	0
3	270	-4.5	3	3	20	12.000311	11310.02578	0.029601
4	339	-7.5	5	5	20	8.948163	14055.74132	0.039698
5	409	-15	10	10	50	17.925966	22526.43501	0.021401
6	477	-22.5	15	15	20	5.482326	25834.84999	0.028192
7	569	-37.5	25	25	20	3.770897	29616.55988	0.028982
8	692	-52.5	35	35	50	6.71892	29551.35419	0.044112
9	933	-75	50	50	20	1.734554	27246.31269	0.023041
10	1093	-112.5	75	75	20	0.973185	22930.13057	0.0487
11	1208	-150	100	100	20	0.580085	18223.8931	0.040241
12	1244	-150	100	100	10	0.290958	18281.40779	0.055917



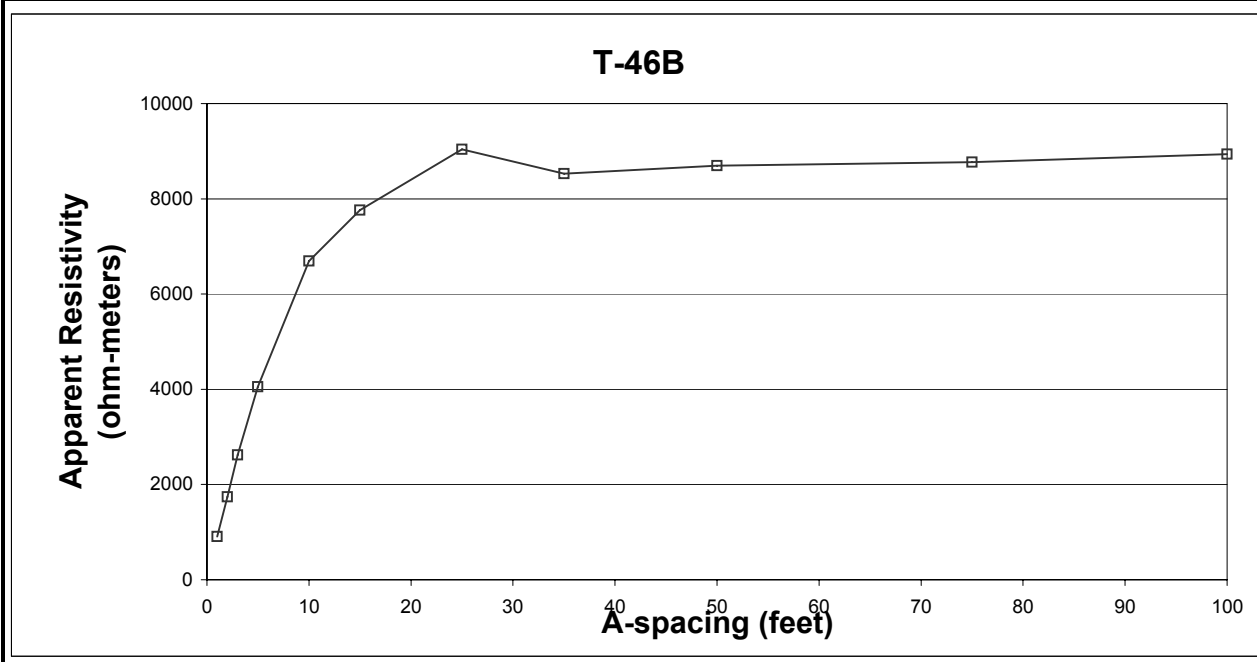
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-46B
 Orientation 266° (mag)
Moist silty till, no outcrop

Date 11/15/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	23.651	473.0	905.9	0.0619
2	1.00	3.00	20	9.093	454.6	1,741.3	0.0531
3	1.50	4.50	50	22.786	455.7	2,618.3	0.0293
5	2.50	7.50	50	21.159	423.2	4,052.1	0.0389
10	5.00	15.00	50	17.473	349.5	6,692.6	0.0366
15	7.50	22.50	20	5.403	270.1	7,760.5	0.0321
25	12.50	37.50	20	3.775	188.8	9,037.0	0.0590
35	17.50	52.50	20	2.544	127.2	8,527.6	0.0302
50	25.00	75.00	20	1.816	90.8	8,693.9	0.0430
75	37.50	112.50	20	1.221	61.1	8,771.8	0.0391
100	50.00	150.00	20	0.933	46.7	8,937.9	0.0307

Geomean 4,970
 Min 906
 Max 9,037
 Median 7,760
 Std. Dev. 3,191

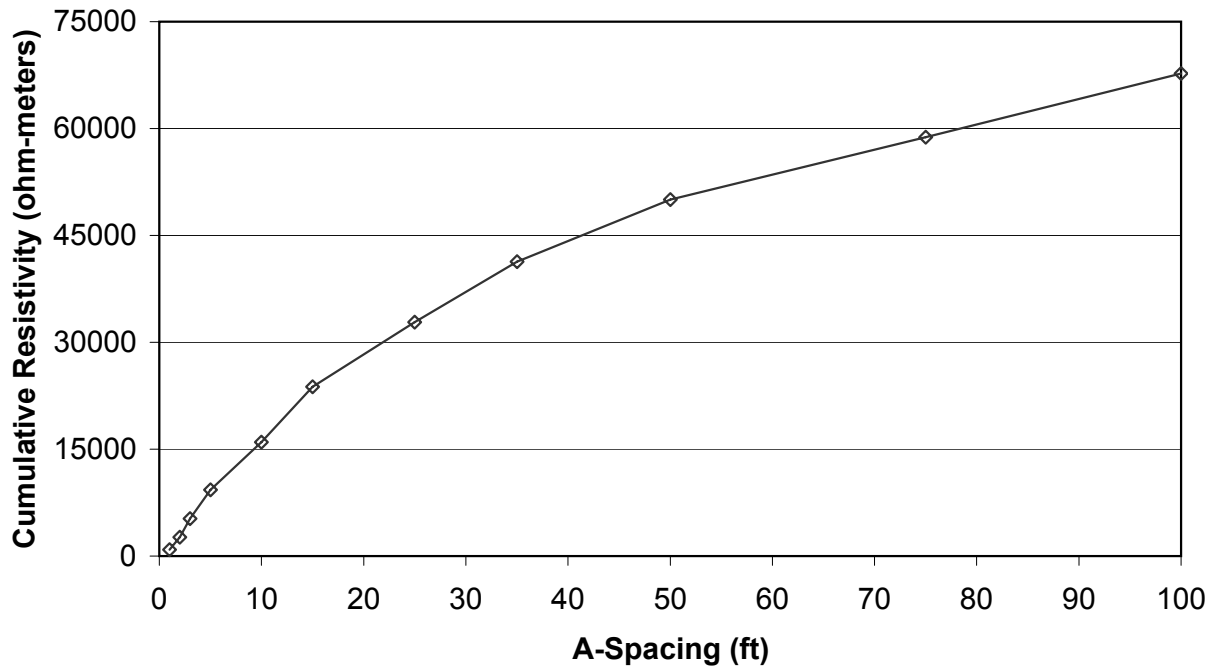


T-46B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2972.056857	905.8829301	0.06188	906
2	1	3	20	2856.506315	1741.32625	0.053132	2647
3	1.5	4.5	50	2863.374842	2618.269955	0.029308	5265
5	2.5	7.5	50	2658.87601	4052.127039	0.038949	9318
10	5	15	50	2195.726461	6692.574254	0.036594	16010
15	7.5	22.5	20	1697.388688	7760.46108	0.032141	23771
25	12.5	37.5	20	1185.959395	9037.010589	0.059025	32808
35	17.5	52.5	20	799.3606578	8527.579497	0.030164	41335
50	25	75	20	570.464217	8693.874668	0.043046	50029
75	37.5	112.5	20	383.7200957	8771.841389	0.039092	58801
100	50	150	20	293.2387716	8937.917757	0.030692	67739

T-46B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt46b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 15/11/2013 09:13:40

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	452	-1.5	1	1	50	23.650877	2972.056905	0.06188
2	543	-3	2	2	20	9.092542	5713.012702	0.053132
3	598	-4.5	3	3	50	22.786013	8590.12425	0.029308
4	664	-7.5	5	5	50	21.158663	13294.37968	0.038949
5	755	-15	10	10	50	17.473036	21957.26294	0.036594
6	837	-22.5	15	15	20	5.402956	25460.83	0.032141
7	916	-37.5	25	25	20	3.775026	29648.9868	0.059025
8	1024	-52.5	35	35	20	2.544444	27977.61933	0.030164
9	1113	-75	50	50	20	1.815844	28523.21508	0.043046
10	1205	-112.5	75	75	20	1.221419	28779.01416	0.039092
11	1298	-150	100	100	20	0.933408	29323.86916	0.030692
12	1326	-150	100	100	10	0.467448	29370.61722	0.063557



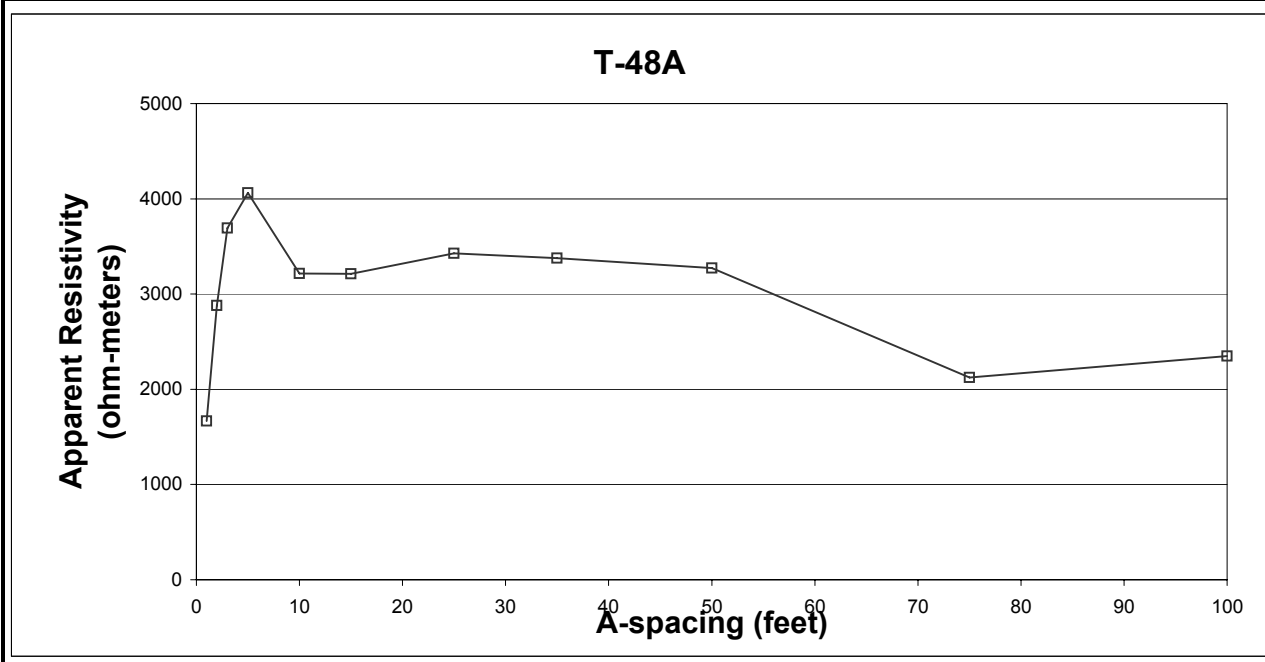
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-48A
 Orientation 286° (mag)
Outcrop and shallow bedrock

Date 11/15/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	17.398	869.9	1,666.0	0.0768
2	1.00	3.00	20	15.042	752.1	2,880.8	0.0340
3	1.50	4.50	20	12.857	642.8	3,693.3	0.0398
5	2.50	7.50	20	8.485	424.2	4,062.4	0.0117
10	5.00	15.00	20	3.357	167.9	3,214.6	0.0287
15	7.50	22.50	20	2.237	111.9	3,213.2	0.0357
25	12.50	37.50	50	3.581	71.6	3,428.9	0.0746
35	17.50	52.50	20	1.007	50.4	3,376.1	0.0544
50	25.00	75.00	20	0.684	34.2	3,273.4	0.0750
75	37.50	112.50	20	0.296	14.8	2,122.4	0.0419
100	50.00	150.00	20	0.245	12.3	2,347.6	0.0649

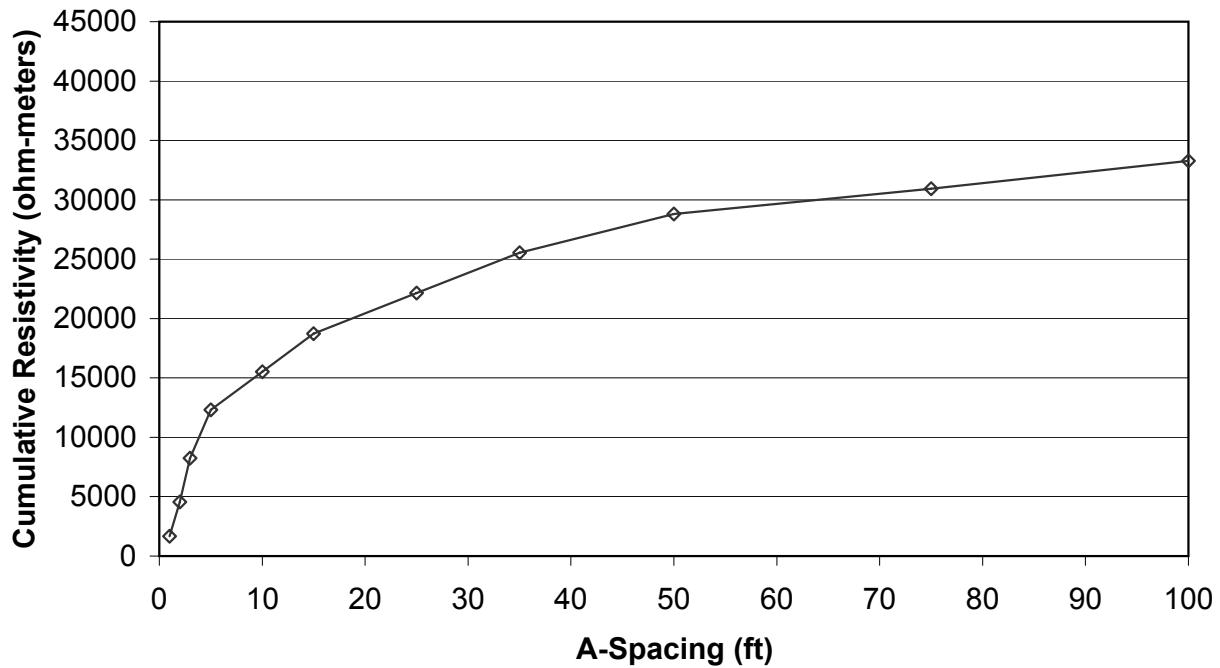
Geomean 2,937
 Min 1,666
 Max 4,062
 Median 3,215
 Std. Dev. 713



T-48A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	5465.737872	1665.956903	0.07677	1666
2	1	3	20	4725.681373	2880.775365	0.034006	4547
3	1.5	4.5	20	4039.031321	3693.29024	0.039787	8240
5	2.5	7.5	20	2665.636968	4062.43074	0.011722	12302
10	5	15	20	1054.652132	3214.579697	0.028657	15517
15	7.5	22.5	20	702.8000377	3213.201772	0.035731	18730
25	12.5	37.5	50	449.9806202	3428.852326	0.074572	22159
35	17.5	52.5	20	316.4699068	3376.100965	0.054421	25535
50	25	75	20	214.7891189	3273.386172	0.07501	28809
75	37.5	112.5	20	92.84411601	2122.416492	0.041887	30931
100	50	150	20	77.02022797	2347.576549	0.064919	33279

T-48A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt48a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 15/11/2013 12:24:11

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	22	-1.5	1	1	20	17.397984	5465.738067	0.07677
2	91	-3	2	2	20	15.042311	9451.362615	0.034006
3	135	-4.5	3	3	20	12.856636	12117.09372	0.039787
4	186	-7.5	5	5	20	8.484986	13328.18574	0.011722
5	251	-15	10	10	20	3.357062	10546.52059	0.028657
6	317	-22.5	15	15	20	2.237082	10542.00301	0.035731
7	399	-37.5	25	25	50	3.580832	11249.51522	0.074572
8	489	-52.5	35	35	20	1.007355	11076.44803	0.054421
9	613	-75	50	50	20	0.683695	10739.46181	0.07501
10	770	-112.5	75	75	20	0.295532	6963.304152	0.041887
11	941	-150	100	100	20	0.245163	7702.028853	0.064919
12	976	-150	100	100	10	0.122848	7718.764224	0.152589



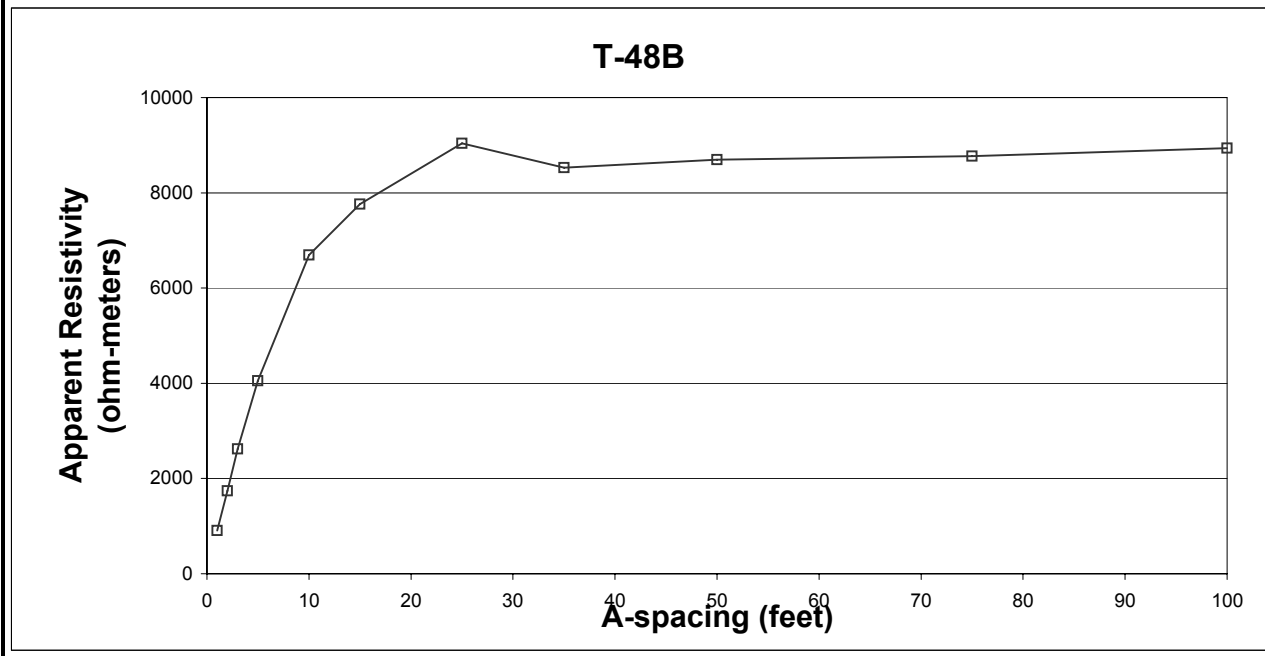
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-48B**
 Orientation **11° (mag)**
Outcrop and shallow bedrock

Date **11/15/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	23.651	473.0	905.9	0.0619
2	1.00	3.00	20	9.093	454.6	1,741.3	0.0531
3	1.50	4.50	50	22.786	455.7	2,618.3	0.0293
5	2.50	7.50	50	21.159	423.2	4,052.1	0.0389
10	5.00	15.00	50	17.473	349.5	6,692.6	0.0366
15	7.50	22.50	20	5.403	270.1	7,760.5	0.0321
25	12.50	37.50	20	3.775	188.8	9,037.0	0.0590
35	17.50	52.50	20	2.544	127.2	8,527.6	0.0302
50	25.00	75.00	20	1.816	90.8	8,693.9	0.0430
75	37.50	112.50	20	1.221	61.1	8,771.8	0.0391
100	50.00	150.00	20	0.933	46.7	8,937.9	0.0307

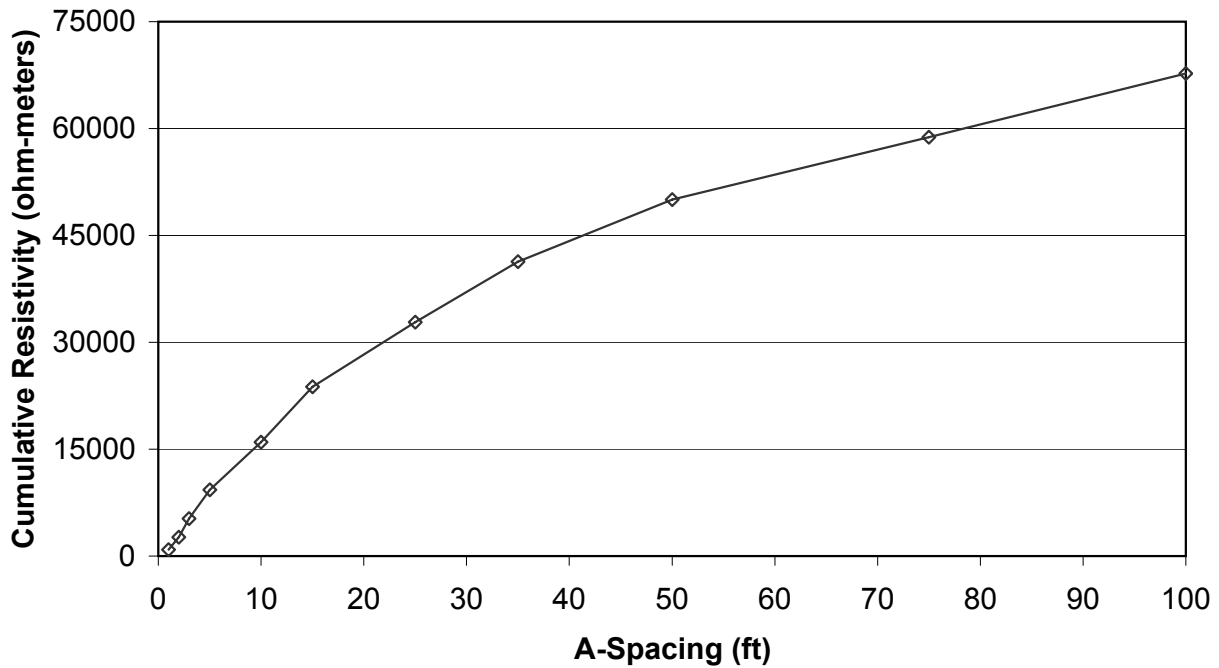
Geomean 4,970
 Min 906
 Max 9,037
 Median 7,760
 Std. Dev. 3,191



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2972.056857	905.8829301	0.06188	906
2	1	3	20	2856.506315	1741.32625	0.053132	2647
3	1.5	4.5	50	2863.374842	2618.269955	0.029308	5265
5	2.5	7.5	50	2658.87601	4052.127039	0.038949	9318
10	5	15	50	2195.726461	6692.574254	0.036594	16010
15	7.5	22.5	20	1697.388688	7760.46108	0.032141	23771
25	12.5	37.5	20	1185.959395	9037.010589	0.059025	32808
35	17.5	52.5	20	799.3606578	8527.579497	0.030164	41335
50	25	75	20	570.464217	8693.874668	0.043046	50029
75	37.5	112.5	20	383.7200957	8771.841389	0.039092	58801
100	50	150	20	293.2387716	8937.917757	0.030692	67739

T-48B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rrbt46b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 15/11/2013 09:13:40

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	452	-1.5	1	1	50	23.650877	2972.056905	0.06188
2	543	-3	2	2	20	9.092542	5713.012702	0.053132
3	598	-4.5	3	3	50	22.786013	8590.12425	0.029308
4	664	-7.5	5	5	50	21.158663	13294.37968	0.038949
5	755	-15	10	10	50	17.473036	21957.26294	0.036594
6	837	-22.5	15	15	20	5.402956	25460.83	0.032141
7	916	-37.5	25	25	20	3.775026	29648.9868	0.059025
8	1024	-52.5	35	35	20	2.544444	27977.61933	0.030164
9	1113	-75	50	50	20	1.815844	28523.21508	0.043046
10	1205	-112.5	75	75	20	1.221419	28779.01416	0.039092
11	1298	-150	100	100	20	0.933408	29323.86916	0.030692
12	1326	-150	100	100	10	0.467448	29370.61722	0.063557



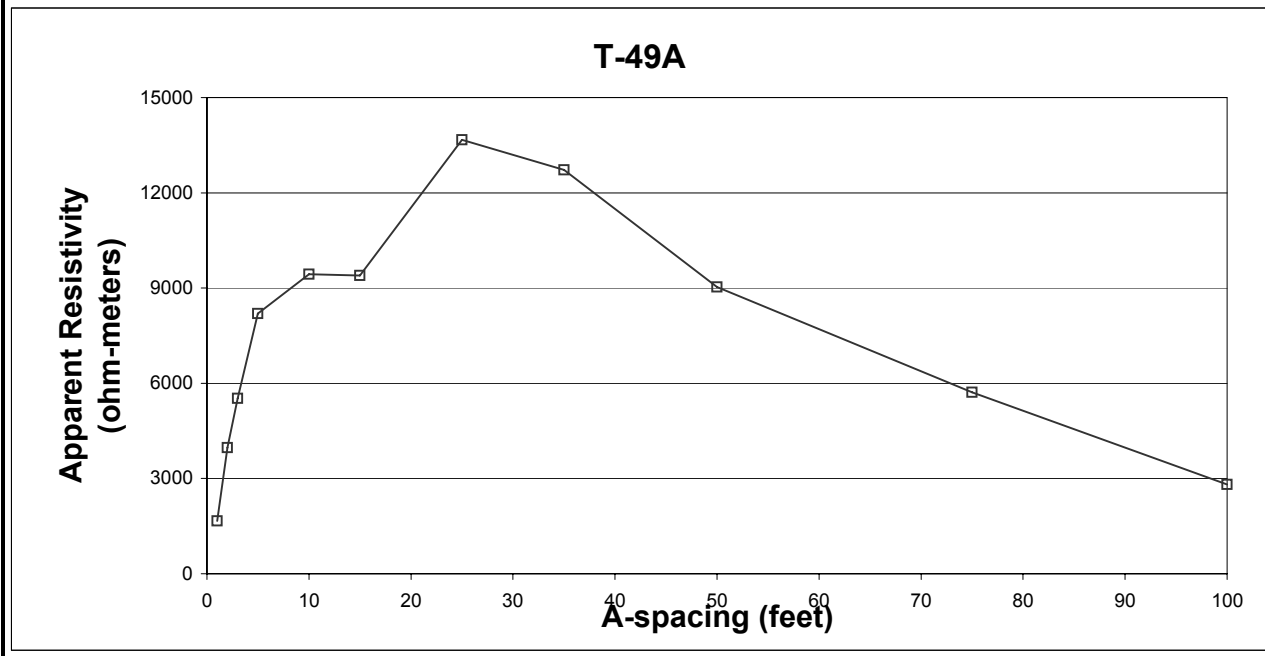
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-49A
 Orientation 308° (mag)
Outcrop, cobbly sandy silt, wet soil

Date 11/19/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	43.496	869.9	1,666.0	0.1114
2	1.00	3.00	50	51.821	1036.4	3,969.7	0.0140
3	1.50	4.50	50	48.109	962.2	5,528.0	0.0304
5	2.50	7.50	50	42.810	856.2	8,198.5	0.0747
10	5.00	15.00	50	24.634	492.7	9,435.4	0.0519
15	7.50	22.50	50	16.354	327.1	9,395.7	0.0504
25	12.50	37.50	20	5.709	285.5	13,666.9	0.0708
35	17.50	52.50	20	3.795	189.8	12,720.2	0.0677
50	25.00	75.00	50	4.717	94.3	9,034.1	0.1122
75	37.50	112.50	20	0.796	39.8	5,713.2	0.0894
100	50.00	150.00	20	0.294	14.7	2,814.8	0.0782

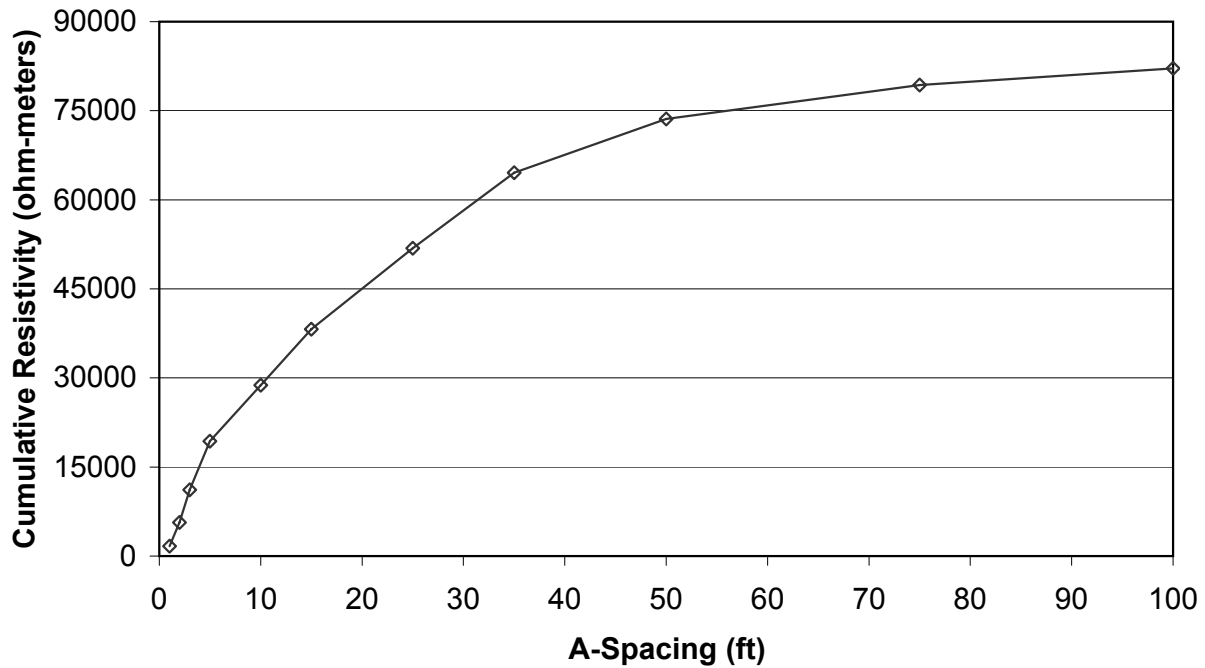
Geomean 6,345
 Min 1,666
 Max 13,667
 Median 8,199
 Std. Dev. 3,886



T-49A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	50	5465.864039	1665.995359	0.111395	1666
2	1	3	50	6512.031231	3969.734238	0.013984	5636
3	1.5	4.5	50	6045.536264	5528.038359	0.030421	11164
5	2.5	7.5	50	5379.604952	8198.517947	0.07468	19362
10	5	15	50	3095.599611	9435.387616	0.051912	28798
15	7.5	22.5	50	2055.063284	9395.749334	0.050393	38193
25	12.5	37.5	20	1793.555352	13666.89178	0.07081	51860
35	17.5	52.5	20	1192.372956	12720.2347	0.067747	64581
50	25	75	50	592.7854842	9034.050779	0.112241	73615
75	37.5	112.5	20	249.9206071	5713.185078	0.089363	79328
100	50	150	20	92.34900101	2814.797551	0.078207	82143

T-49A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt49a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 19/11/2013 13:24:56

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	153	-1.5	1	1	50	43.495964	5465.864237	0.111395
2	229	-3	2	2	50	51.821098	13024.06293	0.013984
3	307	-4.5	3	3	50	48.108849	18136.60805	0.030421
4	402	-7.5	5	5	50	42.809536	26898.02331	0.07468
5	527	-15	10	10	50	24.633999	30955.99499	0.051912
6	656	-22.5	15	15	50	16.353674	30825.94986	0.050393
7	791	-37.5	25	25	20	5.709064	44838.8864	0.07081
8	890	-52.5	35	35	20	3.795441	41733.05659	0.067747
9	1006	-75	50	50	50	4.717237	29639.27718	0.112241
10	1149	-112.5	75	75	20	0.795522	18744.03842	0.089363
11	1297	-150	100	100	20	0.293956	9234.906493	0.078207
12	1331	-150	100	100	10	0.147217	9249.914937	0.20421



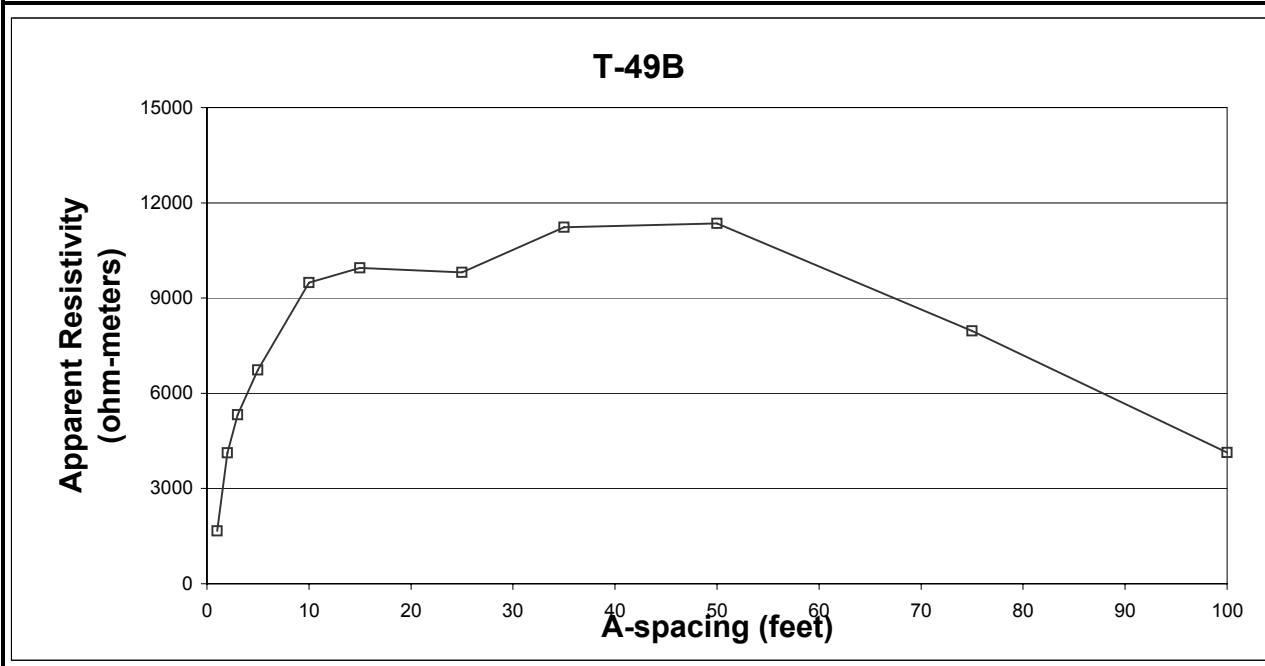
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-49B
 Orientation 223° (mag)
Outcrop, cobbly sandy silt, wet soil

Date 11/18/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	43.536	870.7	1,667.5	0.0147
2	1.00	3.00	20	21.538	1076.9	4,124.7	0.0653
3	1.50	4.50	20	18.524	926.2	5,321.3	0.1089
5	2.50	7.50	20	14.071	703.5	6,736.8	0.0858
10	5.00	15.00	20	9.904	495.2	9,483.3	0.0990
15	7.50	22.50	20	6.930	346.5	9,953.8	0.0518
25	12.50	37.50	20	4.098	204.9	9,809.4	0.0599
35	17.50	52.50	20	3.349	167.5	11,225.0	0.0712
50	25.00	75.00	20	2.370	118.5	11,349.4	0.0804
75	37.50	112.50	20	1.109	55.4	7,961.9	0.0804
100	50.00	150.00	20	0.432	21.6	4,135.9	0.0893

Geomean 6,554
 Min 1,668
 Max 11,349
 Median 7,962
 Std. Dev. 3,259

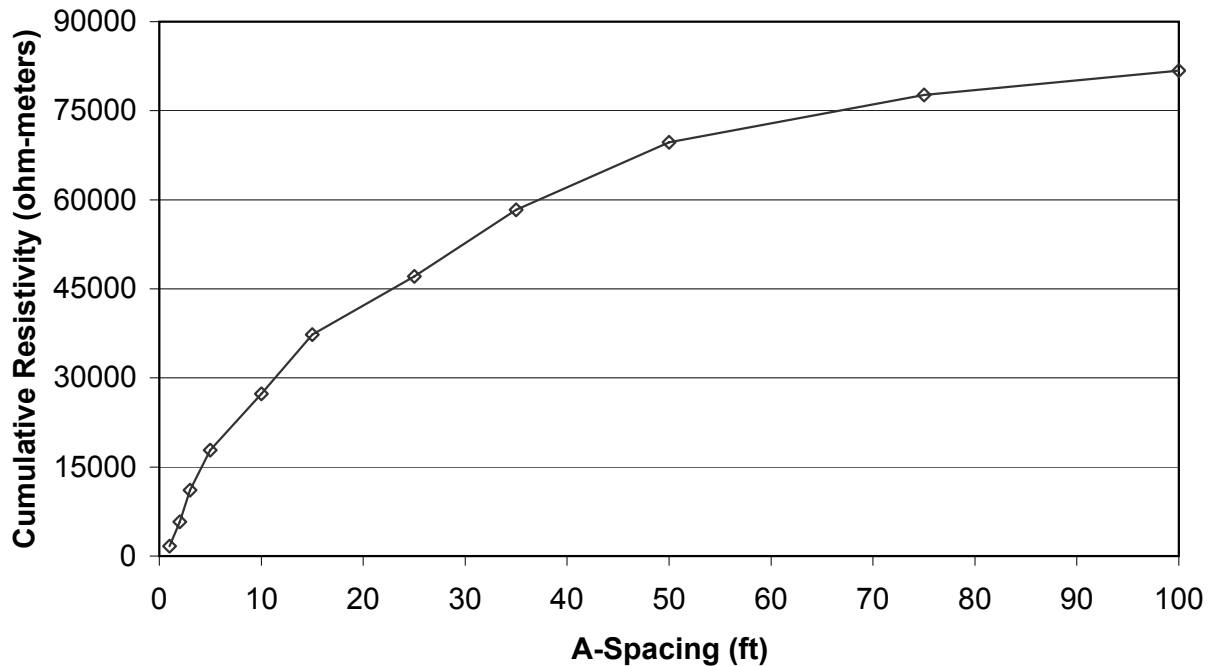


T-49B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	5470.939596	1667.542389	0.014687	1668
2	1	3	20	6766.282147	4124.725597	0.065312	5792
3	1.5	4.5	20	5819.447276	5321.302589	0.108923	11114
5	2.5	7.5	20	4420.486014	6736.820685	0.085834	17850
10	5	15	20	3111.324979	9483.318537	0.098995	27334
15	7.5	22.5	20	2177.123081	9953.806725	0.051751	37288
25	12.5	37.5	20	1287.329165	9809.448237	0.059901	47097
35	17.5	52.5	20	1052.216455	11225.04514	0.071174	58322
50	25	75	20	744.7126536	11349.42084	0.08042	69671
75	37.5	112.5	20	348.2895279	7961.898609	0.080394	77633
100	50	150	20	135.6907274	4135.853372	0.089257	81769

T-49B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt49b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 19/11/2013 14:01:53

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	35	-1.5	1	1	50	43.536354	5470.939796	0.014687
2	158	-3	2	2	20	21.537745	13532.56375	0.065312
3	215	-4.5	3	3	20	18.523876	17458.34273	0.108923
4	313	-7.5	5	5	20	14.070844	22102.42929	0.085834
5	424	-15	10	10	20	9.903655	31113.25103	0.098995
6	522	-22.5	15	15	20	6.929998	32656.84988	0.051751
7	613	-37.5	25	25	20	4.097696	32183.22852	0.059901
8	713	-52.5	35	35	20	3.349309	36827.57682	0.071174
9	823	-75	50	50	20	2.370494	37235.63872	0.08042
10	952	-112.5	75	75	20	1.10864	26121.71422	0.080394
11	1106	-150	100	100	20	0.431917	13569.08113	0.089257
12	1132	-150	100	100	10	0.216508	13603.57292	0.151924



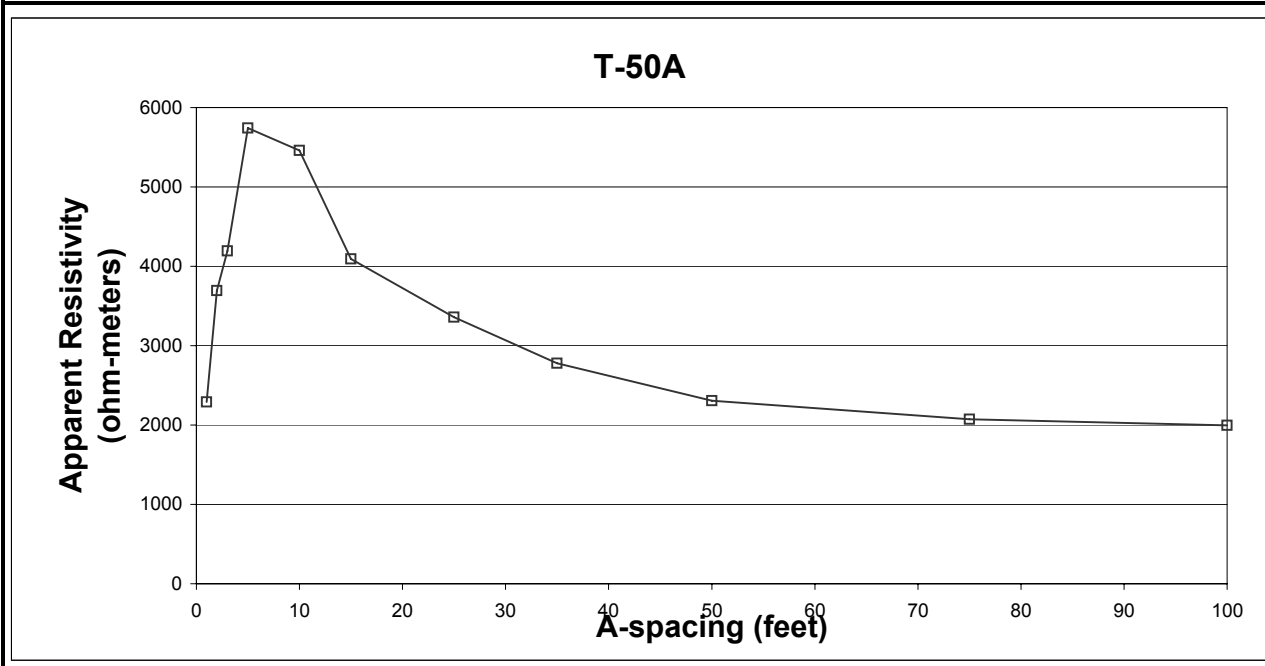
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-50A
 Orientation 99° (mag)
No Outcrop, silty soil

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	23.936	1196.8	2,292.0	0.0528
2	1.00	3.00	50	48.191	963.8	3,691.6	0.0616
3	1.50	4.50	50	36.505	730.1	4,194.6	0.0280
5	2.50	7.50	20	11.992	599.6	5,741.5	0.0284
10	5.00	15.00	20	5.701	285.1	5,459.4	0.0252
15	7.50	22.50	20	2.848	142.4	4,091.1	0.0201
25	12.50	37.50	20	1.403	70.2	3,359.5	0.0214
35	17.50	52.50	20	0.829	41.5	2,779.9	0.0328
50	25.00	75.00	20	0.481	24.1	2,305.1	0.0507
75	37.50	112.50	20	0.289	14.4	2,073.7	0.0502
100	50.00	150.00	20	0.208	10.4	1,996.3	0.0187

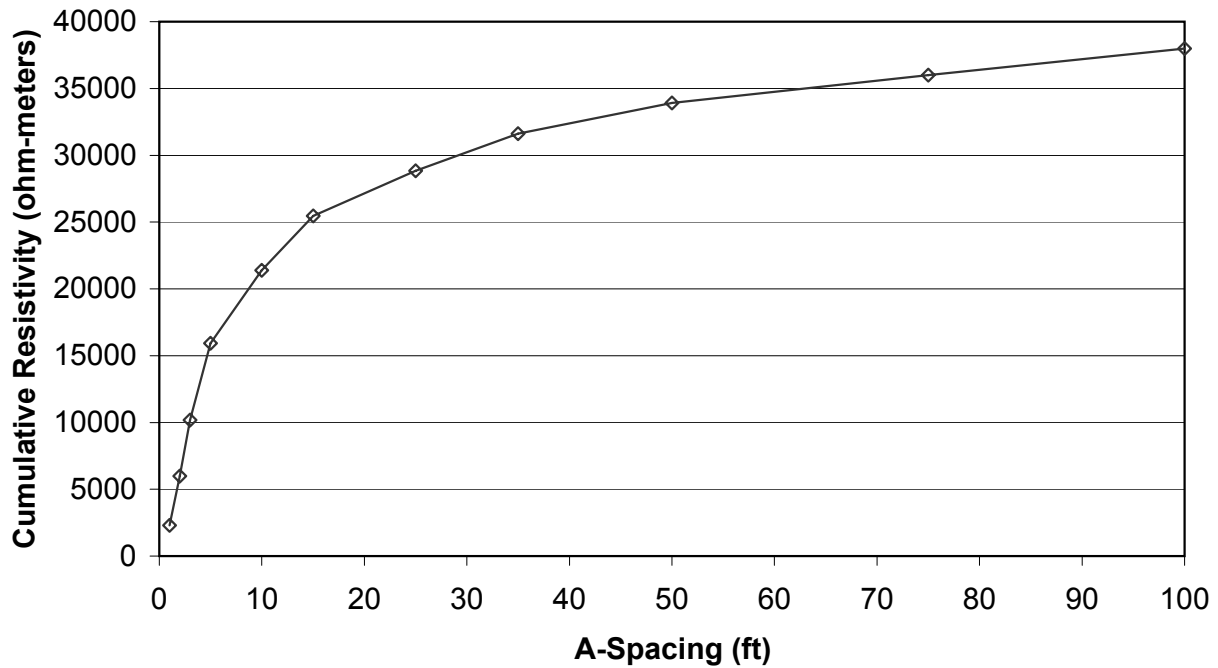
Geomean 3,235
 Min 1,996
 Max 5,742
 Median 3,360
 Std. Dev. 1,320



T-50A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7519.72183	2292.011214	0.052832	2292
2	1	3	50	6055.838803	3691.639334	0.061623	5984
3	1.5	4.5	50	4587.303453	4194.630277	0.028025	10178
5	2.5	7.5	20	3767.389114	5741.501009	0.028437	15920
10	5	15	20	1791.148892	5459.421823	0.025186	21379
15	7.5	22.5	20	894.8210922	4091.122033	0.020116	25470
25	12.5	37.5	20	440.8838873	3359.535222	0.021422	28830
35	17.5	52.5	20	260.5806593	2779.874473	0.032833	31610
50	25	75	20	151.2554341	2305.132815	0.050688	33915
75	37.5	112.5	20	90.71474451	2073.739059	0.050219	35989
100	50	150	20	65.49435285	1996.267875	0.018662	37985

T-50A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt50a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 20/11/2013 12:53:34

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	316	-1.5	1	1	20	23.936018	7519.721851	0.052832
2	380	-3	2	2	50	48.190834	12111.678	0.061623
3	430	-4.5	3	3	50	36.504601	13761.91076	0.028025
4	487	-7.5	5	5	20	11.991972	18836.94468	0.028437
5	553	-15	10	10	20	5.701404	17911.49024	0.025186
6	630	-22.5	15	15	20	2.848304	13422.31416	0.020116
7	715	-37.5	25	25	20	1.403377	11022.09418	0.021422
8	819	-52.5	35	35	20	0.829454	9120.326037	0.032833
9	919	-75	50	50	20	0.481461	7562.765568	0.050688
10	1057	-112.5	75	75	20	0.288754	6803.613157	0.050219
11	1190	-150	100	100	20	0.208475	6549.423252	0.018662
12	1232	-150	100	100	10	0.104037	6536.854197	0.178829



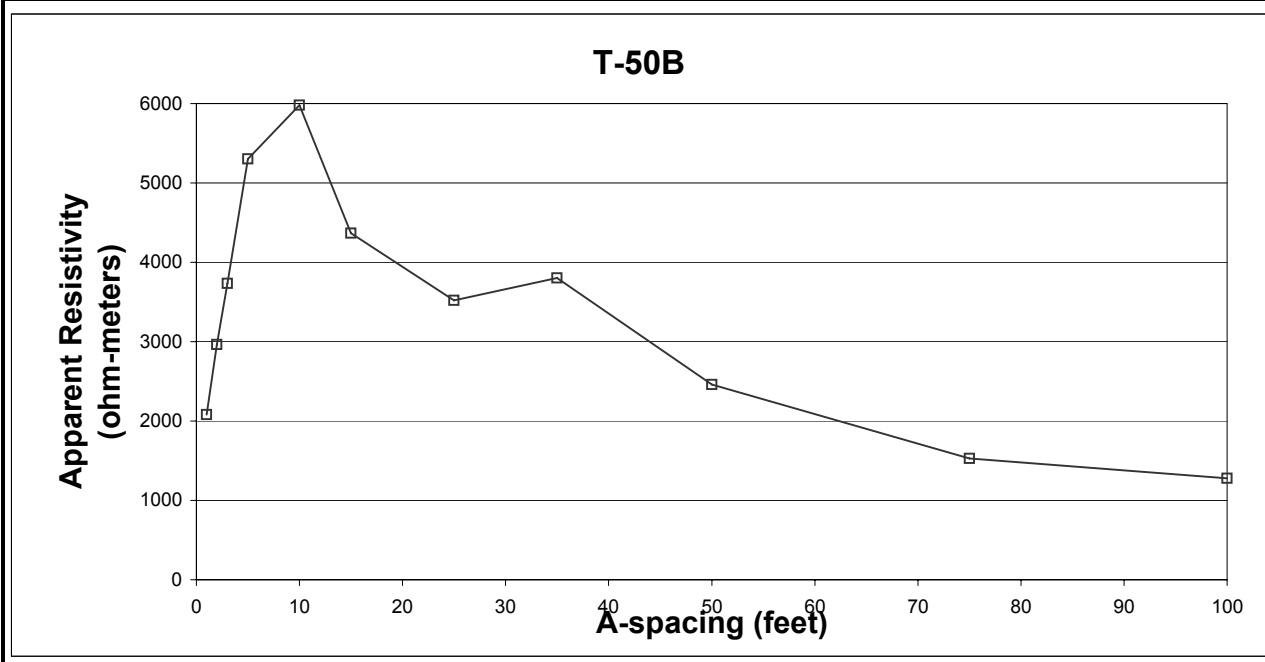
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-50B
 Orientation 223° (mag)
No Outcrop, silty soil

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	21.748	1087.4	2,082.5	0.0268
2	1.00	3.00	20	15.482	774.1	2,965.1	0.0569
3	1.50	4.50	20	12.999	650.0	3,734.2	0.0525
5	2.50	7.50	10	5.539	553.9	5,303.6	0.0352
10	5.00	15.00	20	6.246	312.3	5,980.5	0.0213
15	7.50	22.50	20	3.040	152.0	4,366.2	0.0100
25	12.50	37.50	20	1.471	73.5	3,520.5	0.0409
35	17.50	52.50	20	1.135	56.7	3,802.7	0.0228
50	25.00	75.00	10	0.257	25.7	2,459.4	0.0565
75	37.50	112.50	10	0.106	10.6	1,528.2	0.0703
100	50.00	150.00	20	0.133	6.7	1,276.6	0.0357

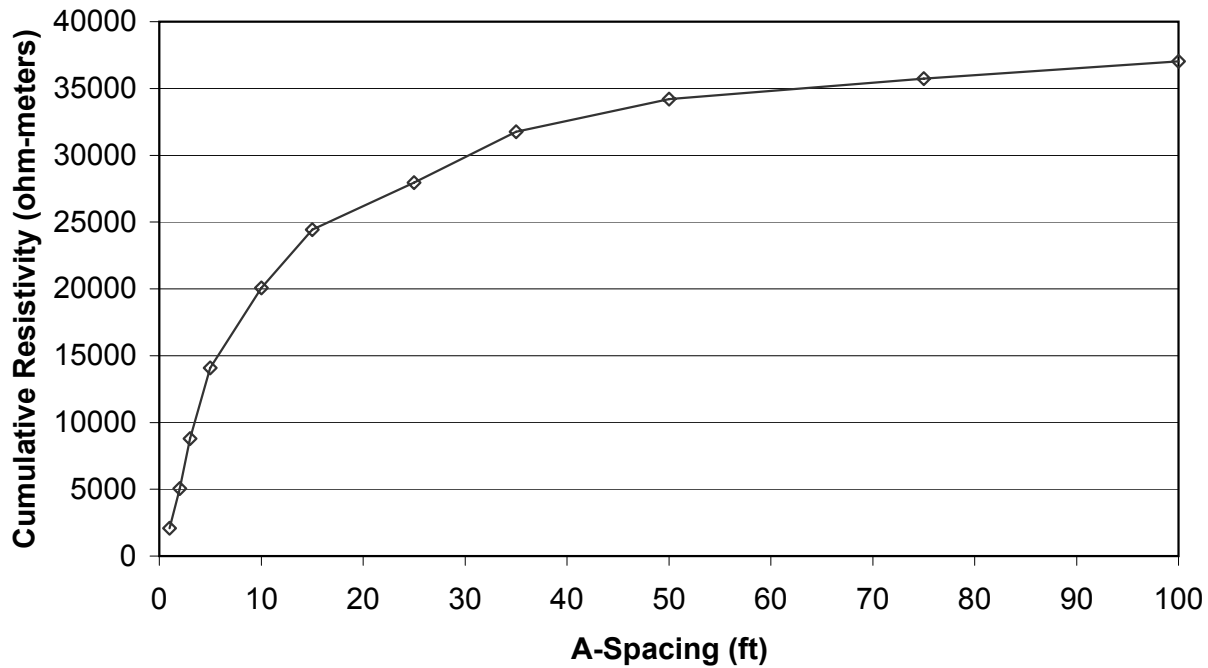
Geomean 3,040
 Min 1,277
 Max 5,980
 Median 3,521
 Std. Dev. 1,494



T-50B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6832.440318	2082.527809	0.026787	2083
2	1	3	20	4863.932813	2965.053443	0.0569	5048
3	1.5	4.5	20	4083.789277	3734.216915	0.052467	8782
5	2.5	7.5	10	3480.060935	5303.612864	0.035249	14085
10	5	15	20	1962.098971	5980.477662	0.021293	20066
15	7.5	22.5	20	954.9939012	4366.232116	0.010006	24432
25	12.5	37.5	20	462.0101555	3520.517385	0.040885	27953
35	17.5	52.5	20	356.4567264	3802.680357	0.022755	31755
50	25	75	10	161.3785881	2459.409682	0.056459	34215
75	37.5	112.5	10	66.85057839	1528.204222	0.070277	35743
100	50	150	20	41.88434158	1276.634731	0.035714	37020

**T-50B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rbt50b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 20/11/2013 13:25:10

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	151	-1.5	1	1	20	21.748333	6832.440167	0.026787
3	197	-3	2	2	20	15.482379	9727.86572	0.0569
4	242	-4.5	3	3	20	12.999105	12251.36804	0.052467
5	315	-7.5	5	5	10	5.538689	17400.30265	0.035249
6	374	-15	10	10	20	6.245555	19620.99103	0.021293
7	458	-22.5	15	15	20	3.03984	14324.90606	0.010006
8	532	-37.5	25	25	20	1.470624	11550.25455	0.040885
9	619	-52.5	35	35	20	1.134637	12475.98787	0.022755
10	721	-75	50	50	10	0.256842	8068.945073	0.056459
11	850	-112.5	75	75	10	0.106396	5013.801824	0.070277
12	989	-150	100	100	20	0.133322	4188.44436	0.035714
1	77	0	0	0	20	22.575121	inf	0.016365
13	1025	-150	100	100	10	0.066919	4204.643137	0.151133



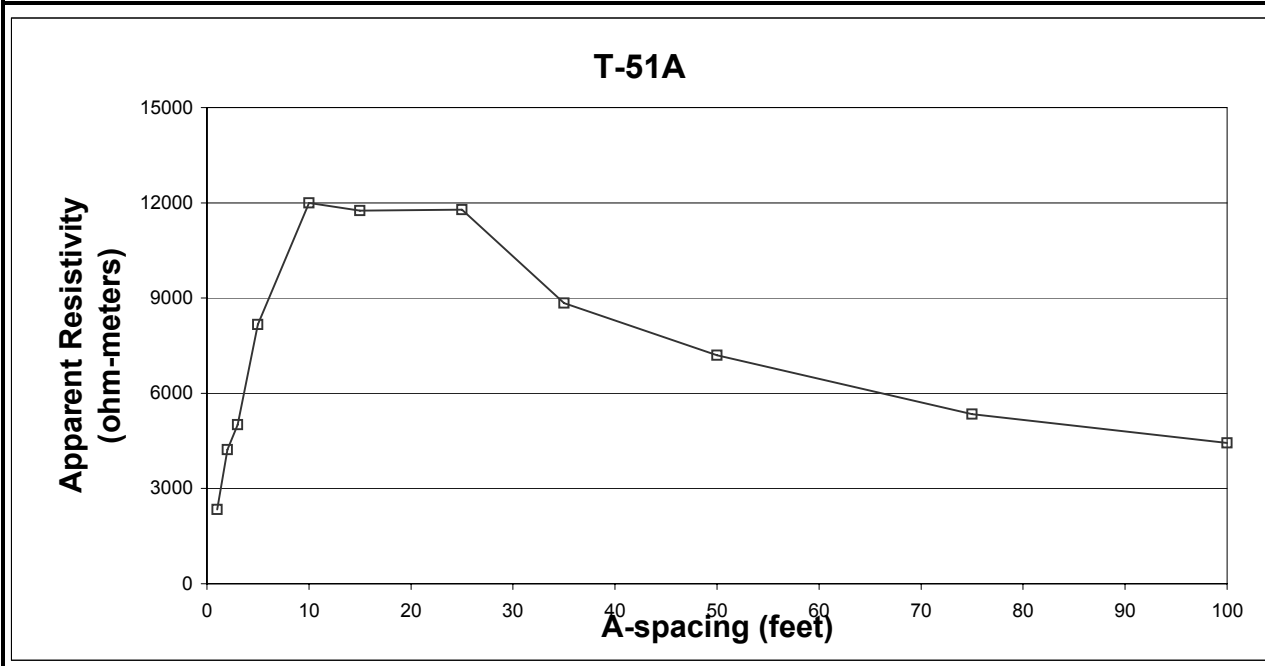
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-51A
 Orientation 81° (mag)
No Outcrop, moist silty soil/till

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	24.438	1221.9	2,340.1	0.0454
2	1.00	3.00	20	22.071	1103.6	4,226.9	0.0573
3	1.50	4.50	20	17.452	872.6	5,013.3	0.0741
5	2.50	7.50	20	17.046	852.3	8,161.2	0.0859
10	5.00	15.00	20	12.528	626.4	11,996.2	0.0839
15	7.50	22.50	20	8.185	409.3	11,757.0	0.0851
25	12.50	37.50	20	4.921	246.1	11,781.2	0.0664
35	17.50	52.50	10	1.319	131.9	8,843.2	0.0488
50	25.00	75.00	20	1.504	75.2	7,198.7	0.0327
75	37.50	112.50	20	0.744	37.2	5,340.3	0.0804
100	50.00	150.00	20	0.463	23.2	4,435.2	0.0466

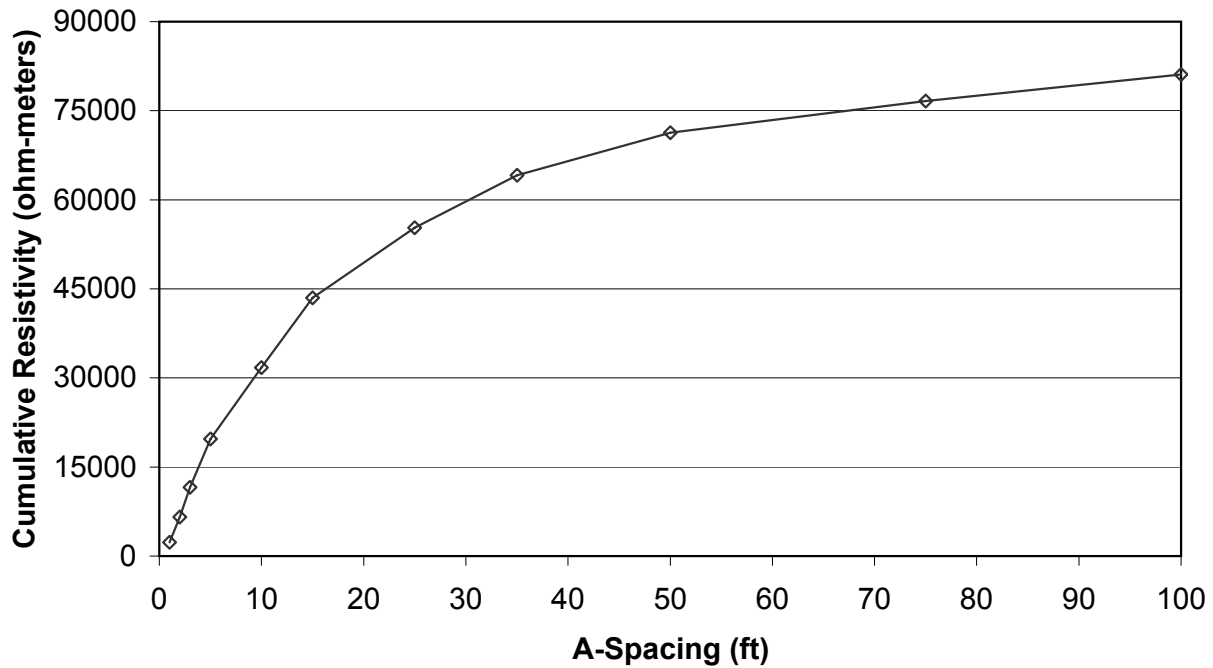
Geomean 6,588
 Min 2,340
 Max 11,996
 Median 7,199
 Std. Dev. 3,412



T-51A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	7677.574923	2340.124837	0.04535	2340
2	1	3	20	6933.825168	4226.859822	0.057297	6567
3	1.5	4.5	20	5482.561729	5013.254445	0.074092	11580
5	2.5	7.5	20	5355.104802	8161.179718	0.085858	19741
10	5	15	20	3935.753033	11996.17524	0.08393	31738
15	7.5	22.5	20	2571.512025	11756.95298	0.085059	43495
25	12.5	37.5	20	1546.095555	11781.24813	0.066405	55276
35	17.5	52.5	10	828.9488057	8843.225859	0.048791	64119
50	25	75	20	472.3538493	7198.672663	0.032697	71318
75	37.5	112.5	20	233.6097722	5340.319392	0.080382	76658
100	50	150	20	145.5104036	4435.157101	0.04658	81093

**T-51A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rbt51a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 20/11/2013 11:04:32

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	23	-1.5	1	1	20	24.43848	7677.575377	0.04535
2	242	-3	2	2	20	22.071051	13867.64959	0.057297
3	271	-4.5	3	3	20	17.451536	16447.686	0.074092
4	314	-7.5	5	5	20	17.045828	26775.52344	0.085858
5	398	-15	10	10	20	12.527891	39357.53299	0.08393
6	458	-22.5	15	15	20	8.185377	38572.68131	0.085059
7	508	-37.5	25	25	20	4.921375	38652.39222	0.066405
8	579	-52.5	35	35	10	1.319313	29013.20929	0.048791
9	651	-75	50	50	20	1.503549	23617.68593	0.032697
10	743	-112.5	75	75	20	0.743603	17520.72349	0.080382
11	897	-150	100	100	20	0.463174	14551.03496	0.04658
12	924	-150	100	100	10	0.232226	14591.18331	0.073105



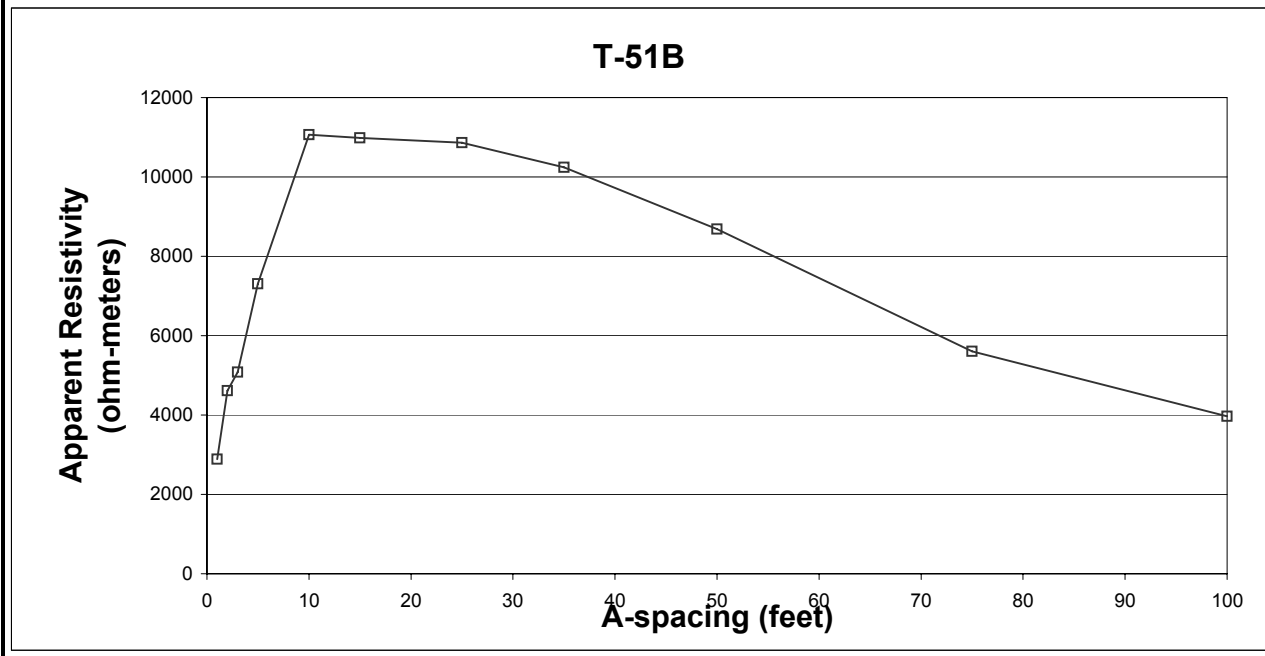
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-51B
 Orientation 358° (mag)
No Outcrop, moist silty soil/till

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

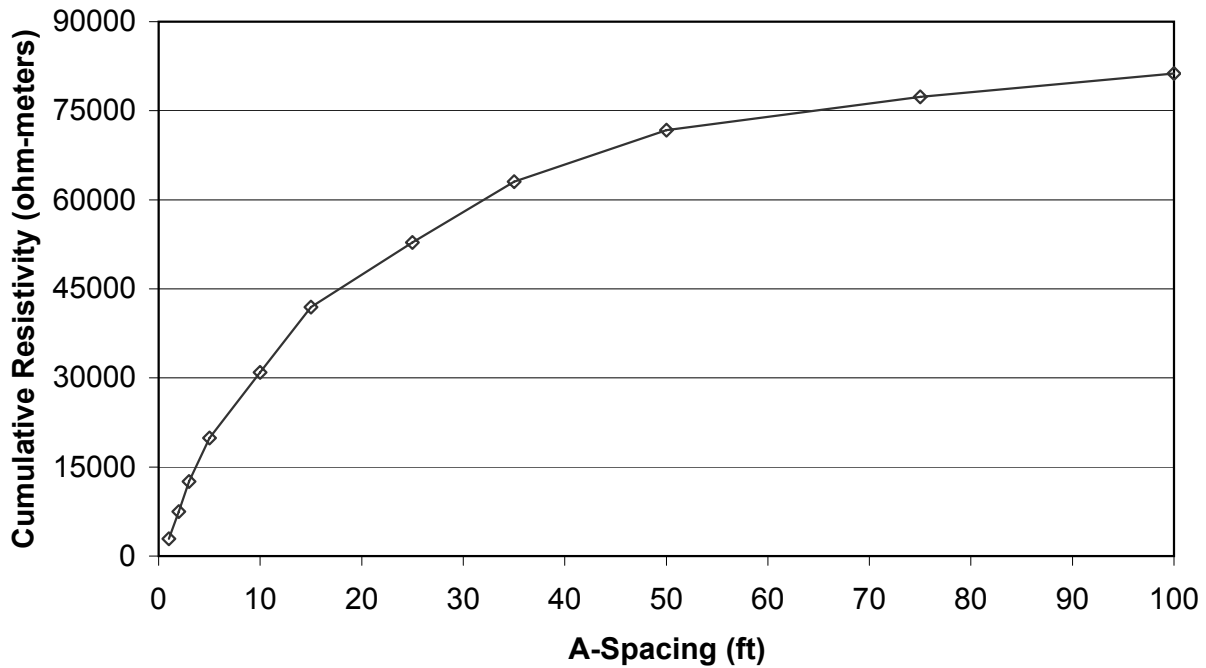
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	75.316	1506.3	2,884.8	0.0704
2	1.00	3.00	10	12.047	1204.7	4,614.4	0.0484
3	1.50	4.50	20	17.694	884.7	5,082.8	0.0345
5	2.50	7.50	10	7.629	762.9	7,304.8	0.0466
10	5.00	15.00	20	11.557	577.8	11,066.2	0.0393
15	7.50	22.50	10	3.824	382.4	10,984.9	0.0479
25	12.50	37.50	20	4.537	226.9	10,861.9	0.0566
35	17.50	52.50	20	3.056	152.8	10,241.5	0.0737
50	25.00	75.00	20	1.815	90.7	8,688.5	0.0702
75	37.50	112.50	20	0.780	39.0	5,601.6	0.0512
100	50.00	150.00	10	0.207	20.7	3,963.8	0.0478

Geomean 6,733
 Min 2,885
 Max 11,066
 Median 7,305
 Std. Dev. 3,108



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	9464.480278	2884.773589	0.070369	2885
2	1	3	10	7569.561941	4614.404959	0.048356	7499
3	1.5	4.5	20	5558.631625	5082.812758	0.034531	12582
5	2.5	7.5	10	4793.165611	7304.784391	0.046565	19887
10	5	15	20	3630.65255	11066.22897	0.039344	30953
15	7.5	22.5	10	2402.636654	10984.85478	0.047911	41938
25	12.5	37.5	20	1425.44206	10861.8685	0.056592	52800
35	17.5	52.5	20	960.0245335	10241.54172	0.073726	63041
50	25	75	20	570.112987	8688.521922	0.070163	71730
75	37.5	112.5	20	245.0398288	5601.610485	0.05124	77331
100	50	150	10	130.0443429	3963.751573	0.047848	81295

T-51B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt51b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 20/11/2013 11:29:04

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	141	-1.5	1	1	50	75.315941	9464.479685	0.070369
2	186	-3	2	2	10	12.047332	15139.12331	0.048356
3	243	-4.5	3	3	20	17.693674	16675.89517	0.034531
4	318	-7.5	5	5	10	7.62856	23965.82862	0.046565
5	372	-15	10	10	20	11.556726	36306.52573	0.039344
6	470	-22.5	15	15	10	3.823915	36039.54501	0.047911
7	583	-37.5	25	25	20	4.537323	35636.05389	0.056592
8	744	-52.5	35	35	20	3.055853	33600.85495	0.073726
9	918	-75	50	50	20	1.814726	28505.65339	0.070163
10	1070	-112.5	75	75	20	0.779986	18377.98806	0.05124
11	1205	-150	100	100	10	0.206972	13004.40602	0.047848
12	1247	-150	100	100	10	0.206859	12997.33533	0.039325



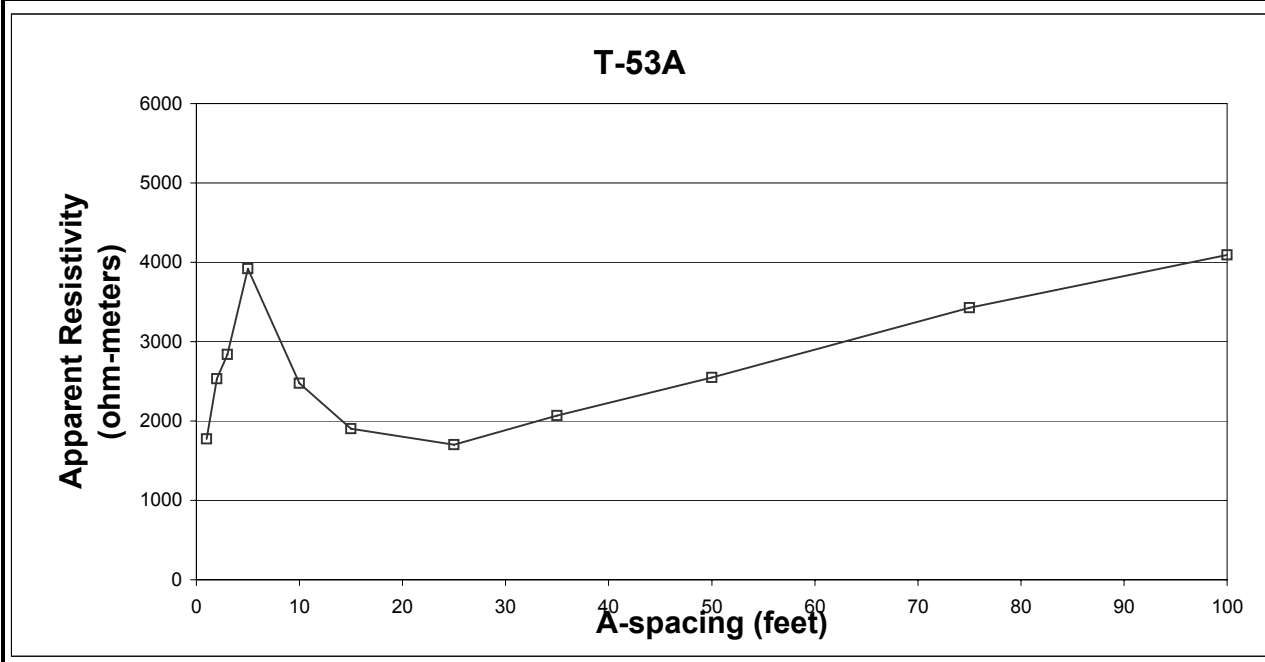
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-53A
 Orientation 315° (mag)
No Outcrop, sandy silt some gravel

Date 11/19/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	18.531	926.6	1,774.5	0.0222
2	1.00	3.00	20	13.215	660.7	2,530.8	0.0419
3	1.50	4.50	50	24.709	494.2	2,839.2	0.0288
5	2.50	7.50	50	20.459	409.2	3,918.2	0.0368
10	5.00	15.00	20	2.585	129.2	2,475.2	0.0126
15	7.50	22.50	10	0.663	66.3	1,903.8	0.0085
25	12.50	37.50	20	0.711	35.6	1,702.8	0.0358
35	17.50	52.50	20	0.617	30.8	2,067.4	0.0252
50	25.00	75.00	20	0.532	26.6	2,546.7	0.0366
75	37.50	112.50	20	0.477	23.9	3,426.4	0.0104
100	50.00	150.00	20	0.427	21.4	4,093.2	0.0165

Geomean 2,550
 Min 1,703
 Max 4,093
 Median 2,531
 Std. Dev. 833



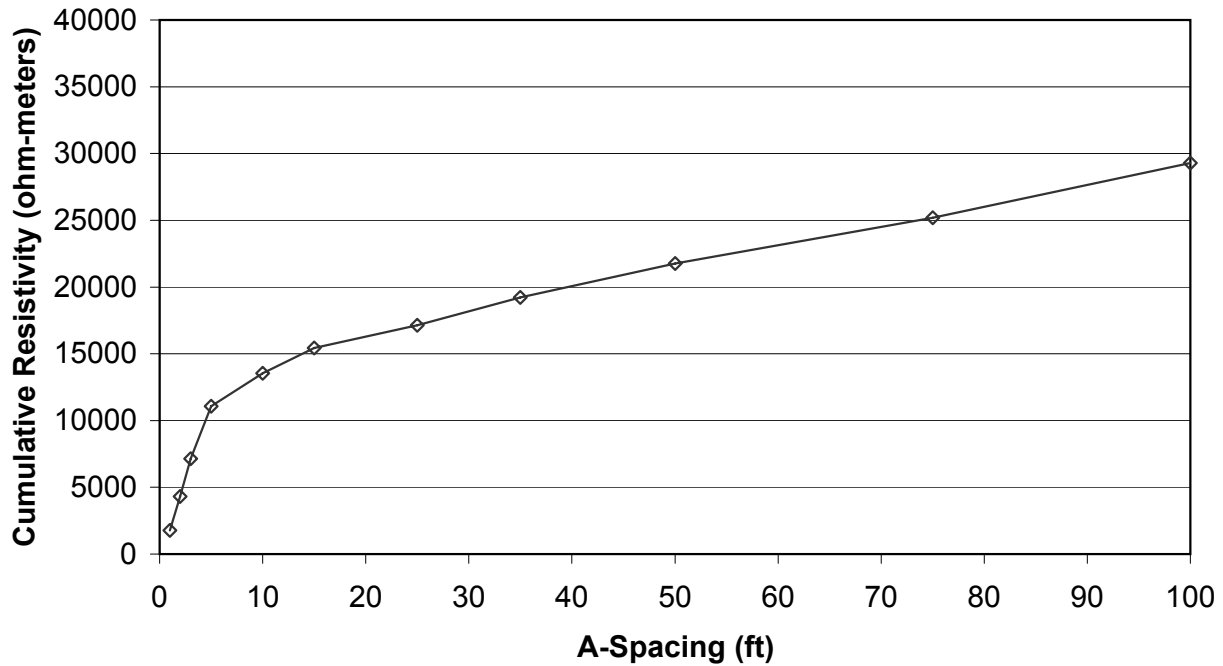
Cumulative Resistivity Sheet

T-53A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	5821.751948	1774.469994	0.022236	1774
2	1	3	20	4151.494997	2530.75135	0.041934	4305
3	1.5	4.5	50	3105.018483	2839.228901	0.028753	7144
5	2.5	7.5	50	2571.013454	3918.224504	0.036808	11063
10	5	15	20	812.0674576	2475.181611	0.012588	13538
15	7.5	22.5	10	416.3992567	1903.777402	0.008539	15442
25	12.5	37.5	20	223.4608571	1702.771731	0.035801	17144
35	17.5	52.5	20	193.7900853	2067.35263	0.025228	19212
50	25	75	20	167.1057115	2546.691043	0.036571	21758
75	37.5	112.5	20	149.8841289	3426.351186	0.010379	25185
100	50	150	20	134.291462	4093.203763	0.016548	29278

T-53A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt53a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 19/11/2013 09:29:44

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	30	-1.5	1	1	20	18.531212	5821.751614	0.022236
2	123	-3	2	2	20	13.214619	8302.990082	0.041934
3	193	-4.5	3	3	50	24.708952	9315.054999	0.028753
4	240	-7.5	5	5	50	20.459475	12855.06676	0.036808
5	304	-15	10	10	20	2.584891	8120.67474	0.012588
6	394	-22.5	15	15	10	0.66272	6245.990587	0.008539
7	538	-37.5	25	25	20	0.711298	5586.52194	0.035801
8	643	-52.5	35	35	20	0.616853	6782.654545	0.025228
9	760	-75	50	50	20	0.531914	8355.289552	0.036571
10	918	-112.5	75	75	20	0.477096	11241.32101	0.010379
11	1063	-150	100	100	20	0.427463	13429.14972	0.016548
12	1095	-150	100	100	10	0.214332	13466.86288	0.064357



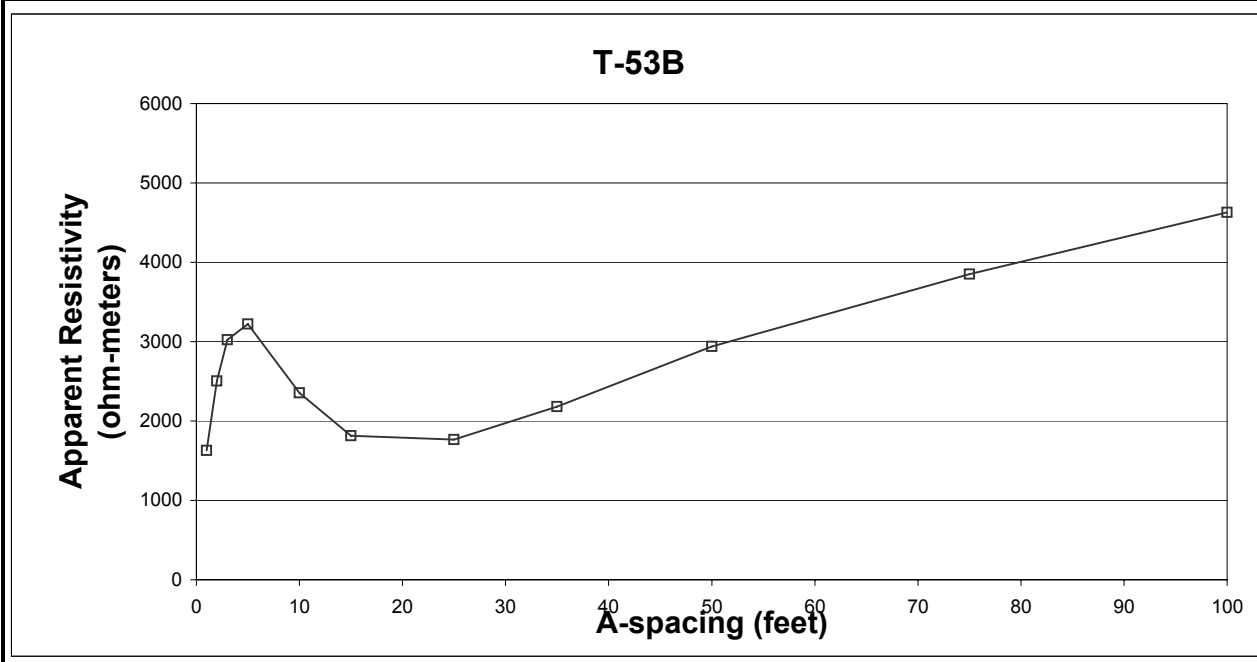
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-53B
 Orientation 42° (mag)
No Outcrop, sandy silt some gravel

Date 11/19/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	17.018	850.9	1,629.6	0.0493
2	1.00	3.00	20	13.067	653.3	2,502.5	0.0315
3	1.50	4.50	20	10.526	526.3	3,023.9	0.0391
5	2.50	7.50	20	6.731	336.5	3,222.6	0.0288
10	5.00	15.00	20	2.459	123.0	2,354.8	0.0137
15	7.50	22.50	20	1.264	63.2	1,815.2	0.0109
25	12.50	37.50	10	0.369	36.9	1,765.1	0.0221
35	17.50	52.50	20	0.651	32.6	2,182.8	0.0255
50	25.00	75.00	20	0.614	30.7	2,940.0	0.0271
75	37.50	112.50	20	0.536	26.8	3,850.0	0.0132
100	50.00	150.00	20	0.484	24.2	4,630.3	0.0227

Geomean 2,584
 Min 1,630
 Max 4,630
 Median 2,502
 Std. Dev. 933

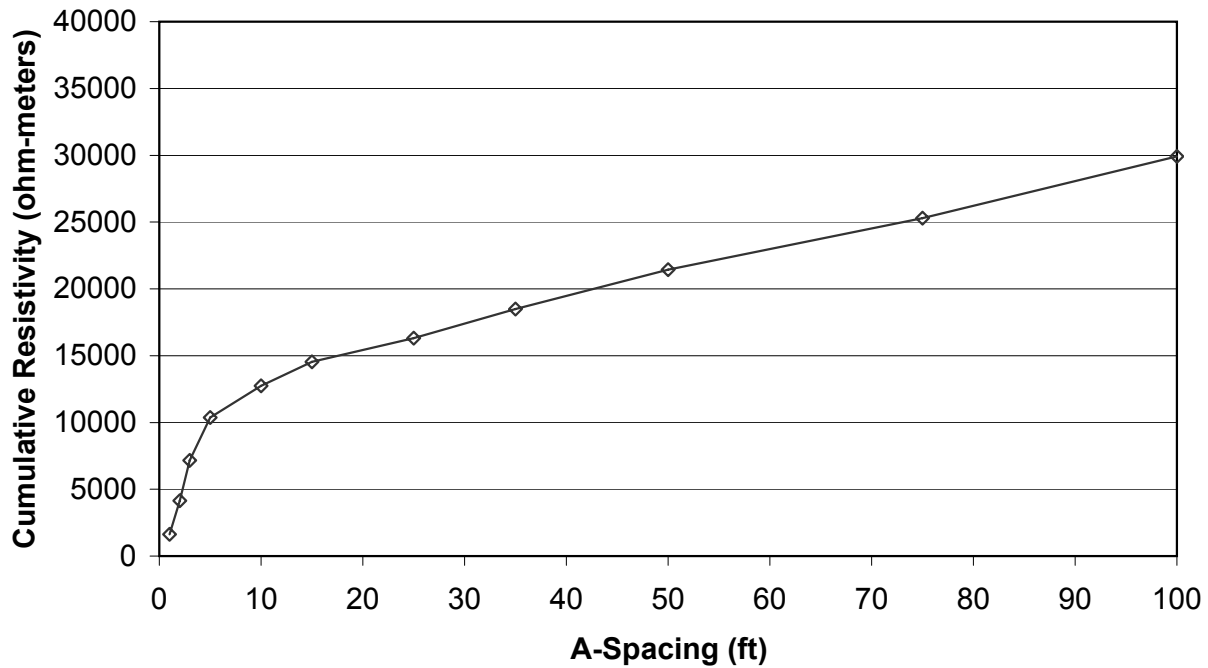


Cumulative Resistivity Sheet

T-53B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Error	Cumulative Resistivity
1	0.5	1.5	20	5346.39348	1629.580733	0.049261	1630
2	1	3	20	4105.095559	2502.466252	0.031534	4132
3	1.5	4.5	20	3306.960436	3023.884623	0.039145	7156
5	2.5	7.5	20	2114.578369	3222.617435	0.028848	10379
10	5	15	20	772.5810937	2354.827174	0.013663	12733
15	7.5	22.5	20	397.0344796	1815.241641	0.010914	14549
25	12.5	37.5	10	231.644706	1765.13266	0.022065	16314
35	17.5	52.5	20	204.612872	2182.810119	0.025523	18497
50	25	75	20	192.9157801	2940.036488	0.02707	21437
75	37.5	112.5	20	168.4154415	3849.976992	0.013195	25287
100	50	150	20	151.9120269	4630.278581	0.022674	29917

T-53B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt53b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 19/11/2013 09:59:45

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	302	-1.5	1	1	20	17.018099	5346.393594	0.049261
2	360	-3	2	2	20	13.066925	8210.191148	0.031534
3	409	-4.5	3	3	20	10.526382	9920.882304	0.039145
4	468	-7.5	5	5	20	6.730912	10572.89163	0.028848
5	526	-15	10	10	20	2.459202	7725.811307	0.013663
6	603	-22.5	15	15	20	1.2638	5955.517424	0.010914
7	702	-37.5	25	25	10	0.368674	5791.115429	0.022065
8	798	-52.5	35	35	20	0.651303	7161.454982	0.025523
9	897	-75	50	50	20	0.61407	9645.783247	0.02707
10	1048	-112.5	75	75	20	0.536083	12631.16423	0.013195
11	1203	-150	100	100	20	0.483551	15191.21428	0.022674
12	1236	-150	100	100	10	0.242575	15241.41979	0.043741



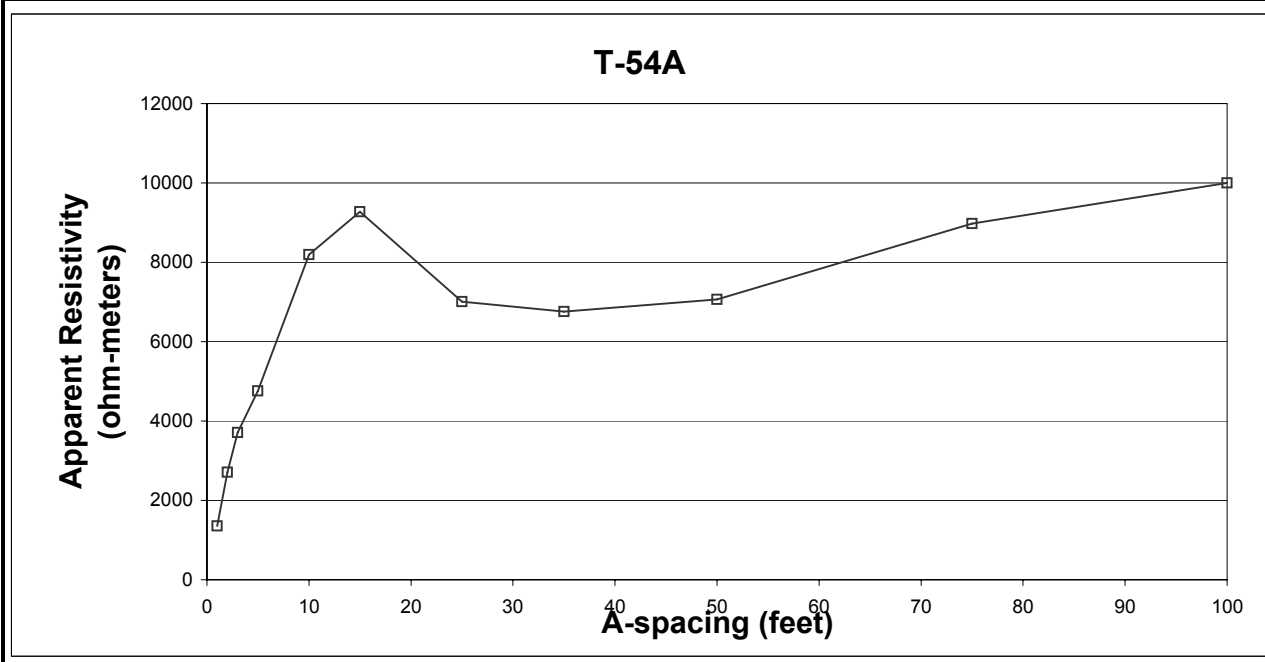
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-54A
 Orientation 151° (mag)
No Outcrop, wet sandy silt some gravel

Date 11/19/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	14.119	706.0	1,352.0	0.0282
2	1.00	3.00	20	14.134	706.7	2,706.9	0.0543
3	1.50	4.50	20	12.926	646.3	3,713.1	0.0396
5	2.50	7.50	20	9.939	497.0	4,758.7	0.0486
10	5.00	15.00	20	8.560	428.0	8,196.6	0.0515
15	7.50	22.50	20	6.458	322.9	9,276.1	0.0251
25	12.50	37.50	10	1.464	146.4	7,011.0	0.0251
35	17.50	52.50	20	2.016	100.8	6,757.6	0.0119
50	25.00	75.00	20	1.476	73.8	7,067.8	0.0187
75	37.50	112.50	20	1.250	62.5	8,973.8	0.0125
100	50.00	150.00	50	2.610	52.2	9,997.9	0.0262

Geomean 5,529
 Min 1,352
 Max 9,998
 Median 7,011
 Std. Dev. 2,846

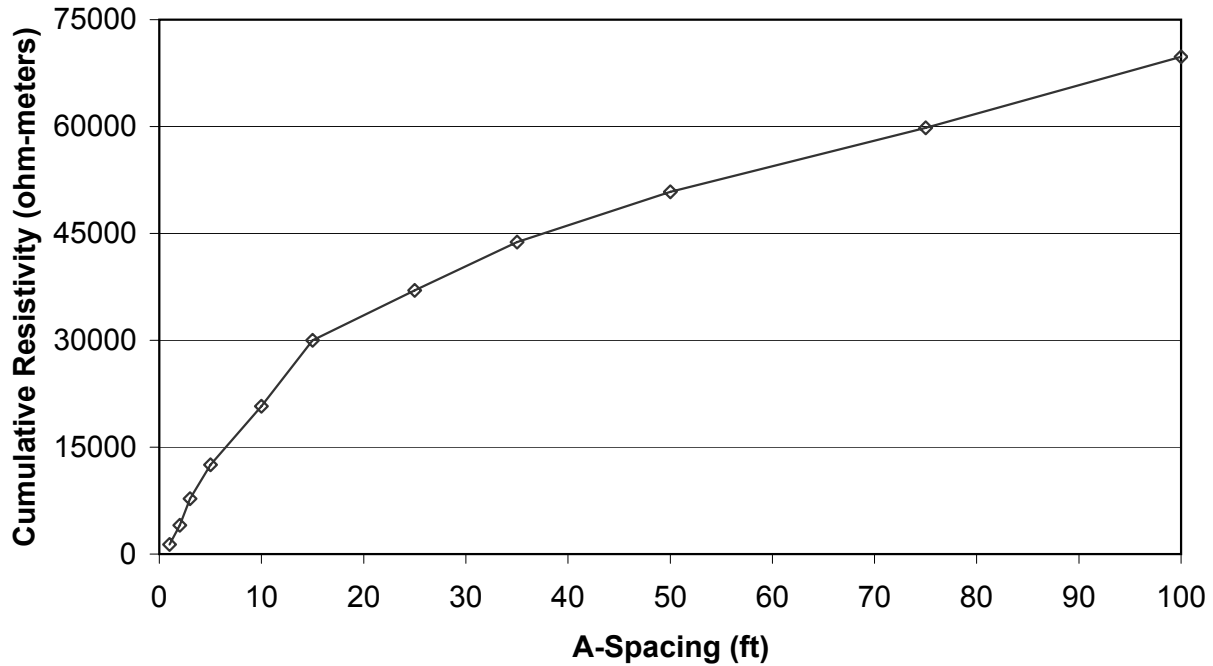


T-54A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4435.668389	1351.991725	0.028178	1352
2	1	3	20	4440.465915	2706.908022	0.054285	4059
3	1.5	4.5	20	4060.74758	3713.147587	0.039574	7772
5	2.5	7.5	20	3122.530098	4758.735869	0.048605	12531
10	5	15	20	2689.183834	8196.632325	0.051458	20727
15	7.5	22.5	20	2028.884204	9276.05858	0.025083	30003
25	12.5	37.5	10	920.0732139	7010.95789	0.025119	37014
35	17.5	52.5	20	633.4427825	6757.567604	0.011928	43772
50	25	75	20	463.7685049	7067.832014	0.018688	50840
75	37.5	112.5	20	392.5551968	8973.811798	0.012454	59814
100	50	150	50	328.014066	9997.86873	0.026151	69812

T-54A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt54a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 19/11/2013 10:59:07

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	41	-1.5	1	1	20	14.119171	4435.668434	0.028178
2	111	-3	2	2	20	14.134442	8880.931917	0.054285
4	208	-4.5	3	3	20	12.925761	12182.24227	0.039574
5	281	-7.5	5	5	20	9.939322	15612.65129	0.048605
6	334	-15	10	10	20	8.559938	26891.83945	0.051458
7	444	-22.5	15	15	20	6.458139	30433.26324	0.025083
8	515	-37.5	25	25	10	1.464342	23001.8262	0.025119
9	622	-52.5	35	35	20	2.016311	22170.4961	0.011928
10	712	-75	50	50	20	1.476221	23188.42537	0.018688
11	817	-112.5	75	75	20	1.249542	29441.64533	0.012454
12	958	-150	100	100	50	2.610253	32801.4084	0.026151
3	170	-4.5	3	3	20	13.386828	12616.78873	5.160797
13	982	-150	100	100	20	1.047618	32911.87658	0.03106



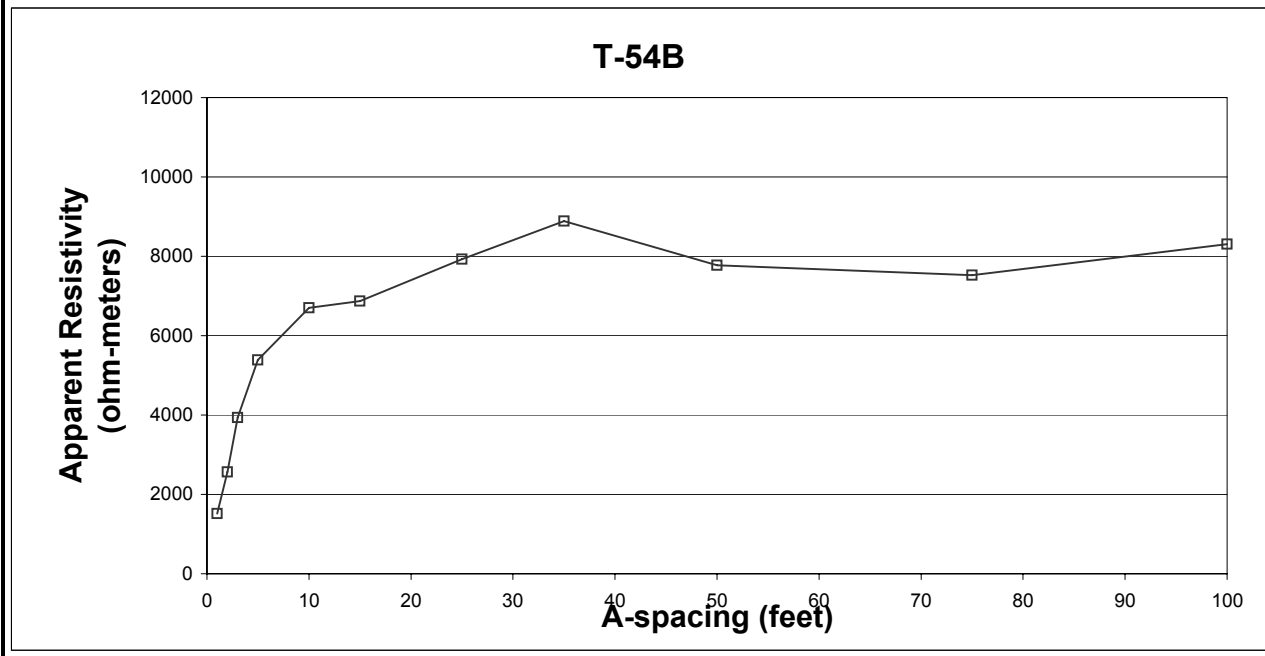
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-54B
 Orientation 250° (mag)
No Outcrop, wet sandy silt some gravel

Date 11/19/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	15.850	792.5	1,517.7	0.0610
2	1.00	3.00	50	33.469	669.4	2,563.9	0.0225
3	1.50	4.50	20	13.687	684.3	3,931.7	0.0374
5	2.50	7.50	20	11.252	562.6	5,387.1	0.0114
10	5.00	15.00	10	3.497	349.7	6,697.9	0.0267
15	7.50	22.50	20	4.786	239.3	6,874.3	0.0226
25	12.50	37.50	20	3.310	165.5	7,924.9	0.0215
35	17.50	52.50	20	2.653	132.6	8,890.9	0.0308
50	25.00	75.00	20	1.624	81.2	7,776.7	0.0272
75	37.50	112.50	20	1.048	52.4	7,524.7	0.0138
100	50.00	150.00	10	0.434	43.4	8,307.2	0.0033

Geomean 5,465
 Min 1,518
 Max 8,891
 Median 6,874
 Std. Dev. 2,460



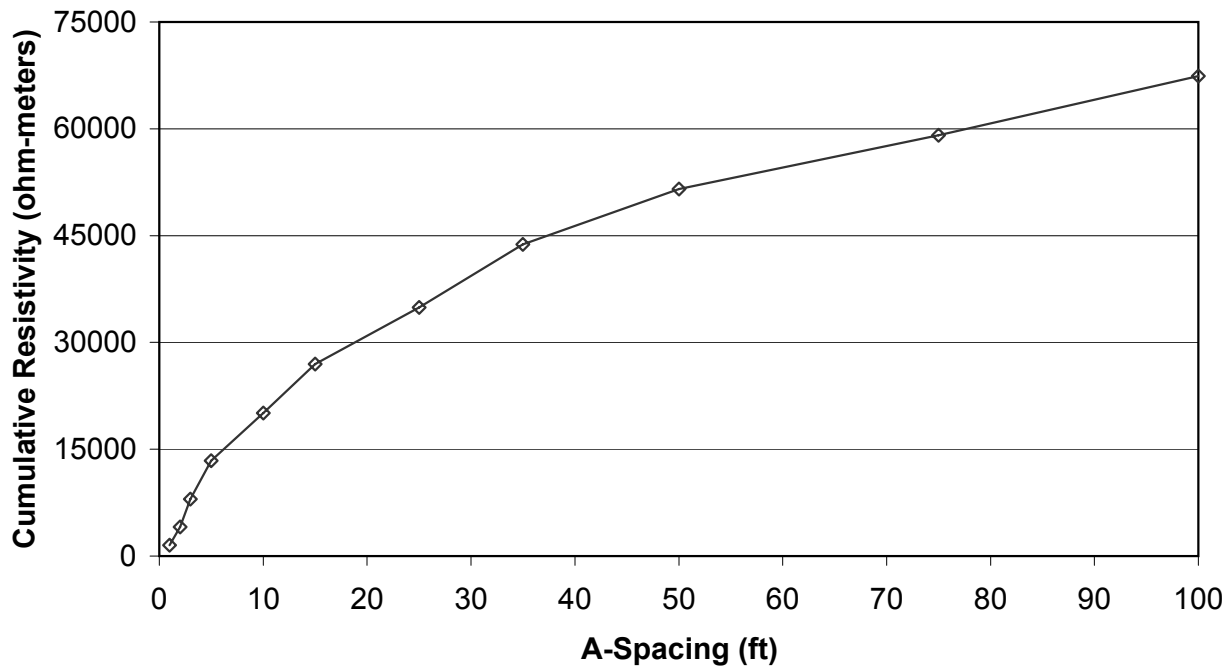
Cumulative Resistivity Sheet

T-54B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4979.458285	1517.738885	0.060959	1518
2	1	3	50	4205.867609	2563.896895	0.0225	4082
3	1.5	4.5	20	4299.752723	3931.69389	0.037374	8013
5	2.5	7.5	20	3534.854709	5387.118576	0.011365	13400
10	5	15	10	2197.490026	6697.949599	0.026698	20098
15	7.5	22.5	20	1503.566244	6874.304868	0.022613	26973
25	12.5	37.5	20	1040.01231	7924.893802	0.021475	34898
35	17.5	52.5	20	833.4139514	8890.860033	0.030798	43788
50	25	75	20	510.2819832	7776.697424	0.027219	51565
75	37.5	112.5	20	329.1635119	7524.677881	0.01384	59090
100	50	150	10	272.5457291	8307.193822	0.003261	67397

T-54B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt54b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 19/11/2013 11:41:53

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	209	-1.5	1	1	20	15.850108	4979.458487	0.060959
2	301	-3	2	2	50	33.469231	8411.734747	0.0225
4	424	-4.5	3	3	20	13.686538	12899.25825	0.037374
5	497	-7.5	5	5	20	11.251792	17674.27353	0.011365
6	574	-15	10	10	10	3.497414	21974.89797	0.026698
7	650	-22.5	15	15	20	4.786	22553.49539	0.022613
8	743	-37.5	25	25	20	3.310462	26000.30803	0.021475
9	839	-52.5	35	35	20	2.652839	29169.4855	0.030798
10	945	-75	50	50	20	1.624278	25514.10323	0.027219
11	1068	-112.5	75	75	20	1.04776	24687.26362	0.01384
12	1214	-150	100	100	10	0.43377	27254.60098	0.003261
3	372	-4.5	3	3	20	14.361712	13535.59413	0.047489
13	1309	-150	100	100	10	0.433723	27251.61451	0.036696



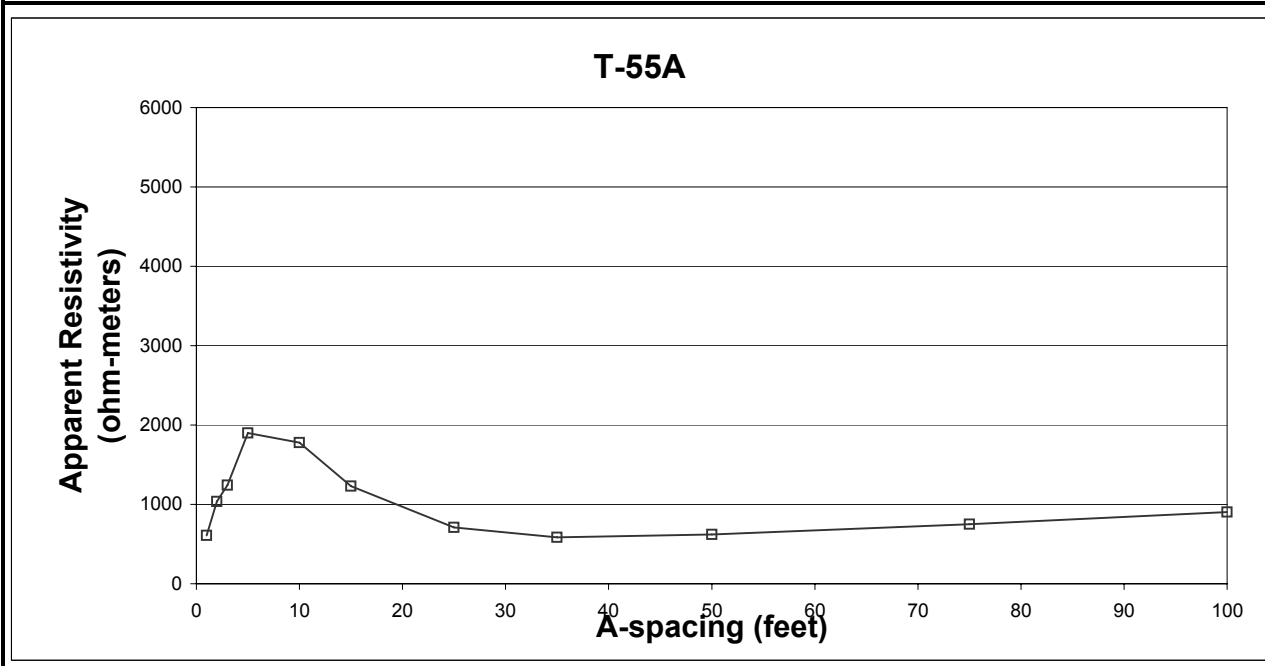
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-55A
 Orientation 40° (mag)
No Outcrop, moist to wet silty till

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	6.370	318.5	610.0	0.0065
2	1.00	3.00	100	27.104	271.0	1,038.2	0.0094
3	1.50	4.50	100	21.607	216.1	1,241.4	0.0079
5	2.50	7.50	50	9.911	198.2	1,898.1	0.0358
10	5.00	15.00	50	4.643	92.9	1,778.4	0.0200
15	7.50	22.50	50	2.137	42.7	1,227.9	0.0146
25	12.50	37.50	100	1.483	14.8	710.1	0.0105
35	17.50	52.50	50	0.436	8.7	585.1	0.0251
50	25.00	75.00	50	0.323	6.5	619.2	0.0044
75	37.50	112.50	50	0.261	5.2	748.4	0.0176
100	50.00	150.00	20	0.094	4.7	902.8	0.0039

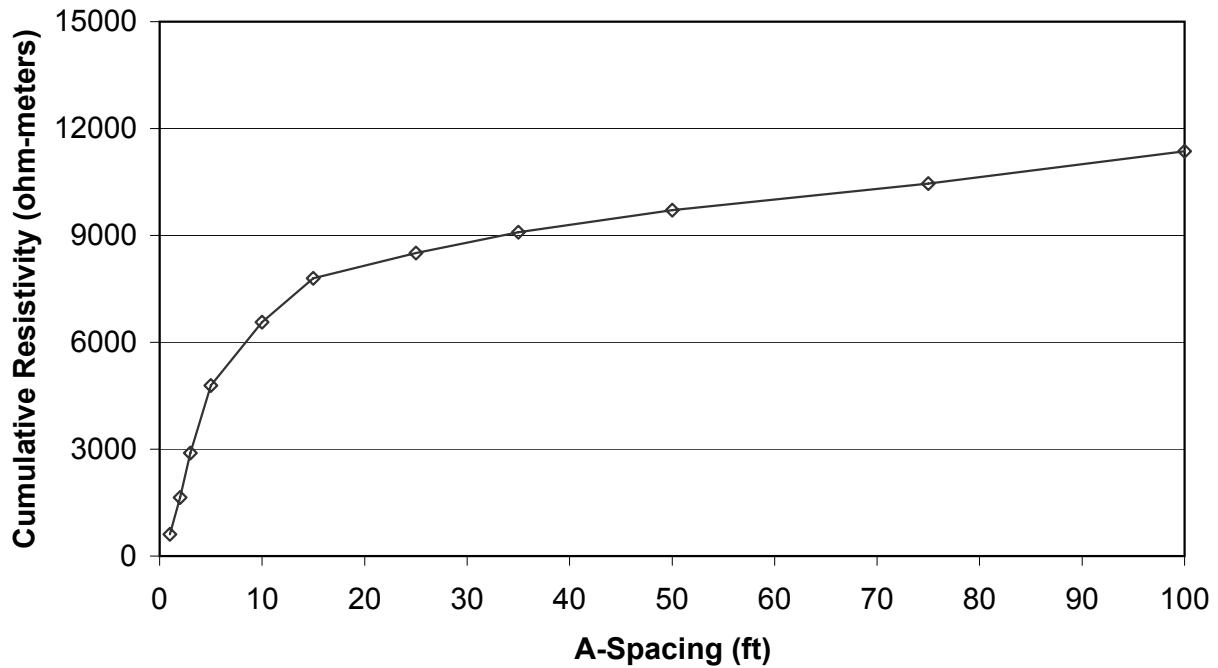
Geomean 950
 Min 585
 Max 1,898
 Median 903
 Std. Dev. 462



T-55A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	2001.213056	609.9697394	0.006496	610
2	1	3	100	1703.00774	1038.153519	0.009436	1648
3	1.5	4.5	100	1357.580643	1241.37174	0.007891	2889
5	2.5	7.5	50	1245.48956	1898.126089	0.03584	4788
10	5	15	50	583.4722956	1778.423557	0.020034	6566
15	7.5	22.5	50	268.5616869	1227.864033	0.014563	7794
25	12.5	37.5	100	93.19371244	710.1360888	0.010492	8504
35	17.5	52.5	50	54.8464272	585.1016854	0.025121	9089
50	25	75	50	40.63084611	619.2140947	0.004376	9708
75	37.5	112.5	50	32.73715474	748.3713574	0.017649	10457
100	50	150	20	29.62050633	902.8330331	0.003928	11360

T-55A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt55a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 20/11/2013 14:39:38

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	95	-1.5	1	1	20	6.370059	2001.21312	0.006496
3	233	-3	2	2	100	27.10421	3406.015276	0.009436
4	301	-4.5	3	3	100	21.606567	4072.741714	0.007891
5	383	-7.5	5	5	50	9.911291	6227.447636	0.03584
6	452	-15	10	10	50	4.643125	5834.723148	0.020034
7	517	-22.5	15	15	50	2.137146	4028.424218	0.014563
8	592	-37.5	25	25	100	1.483224	2329.842228	0.010492
9	673	-52.5	35	35	50	0.436454	1919.624786	0.025121
10	774	-75	50	50	50	0.32333	2031.53974	0.004376
11	879	-112.5	75	75	50	0.260514	2455.285455	0.017649
12	1019	-150	100	100	20	0.094285	2962.035409	0.003928
1	29	0	0	0	50	16.326748	inf	0.024368
13	1043	-150	100	100	10	0.047273	2970.273964	0.066028



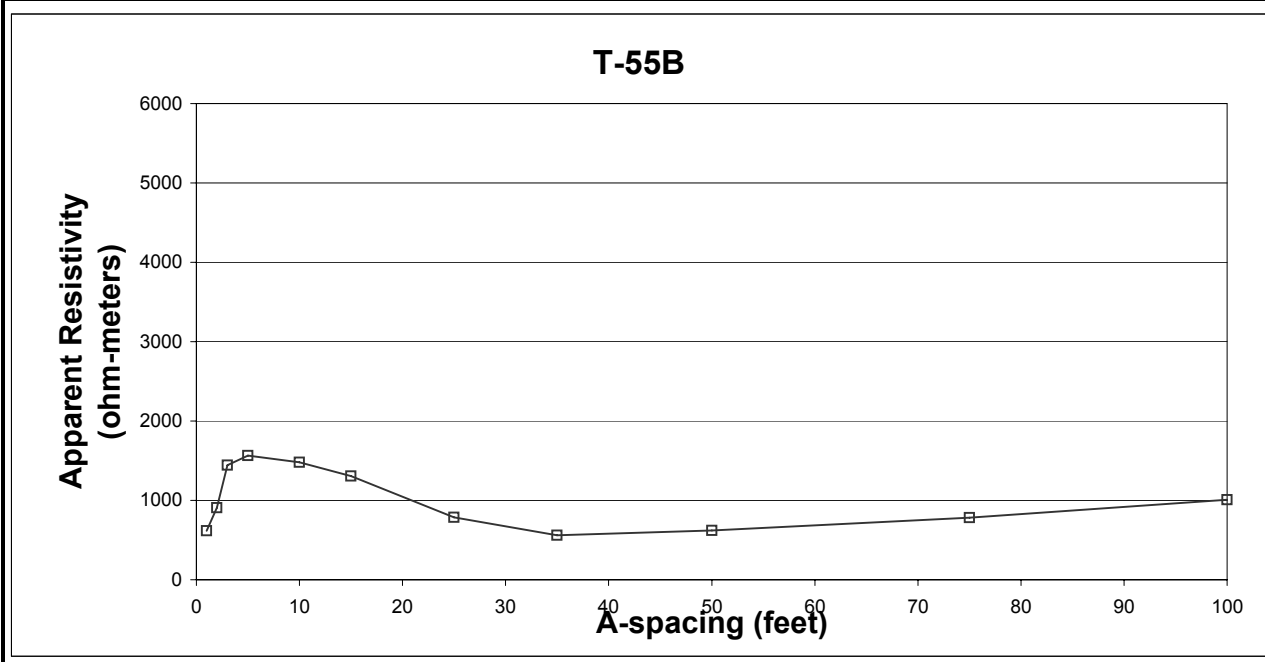
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-55B
 Orientation 117° (mag)
No Outcrop, moist to wet silty till

Date 11/20/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

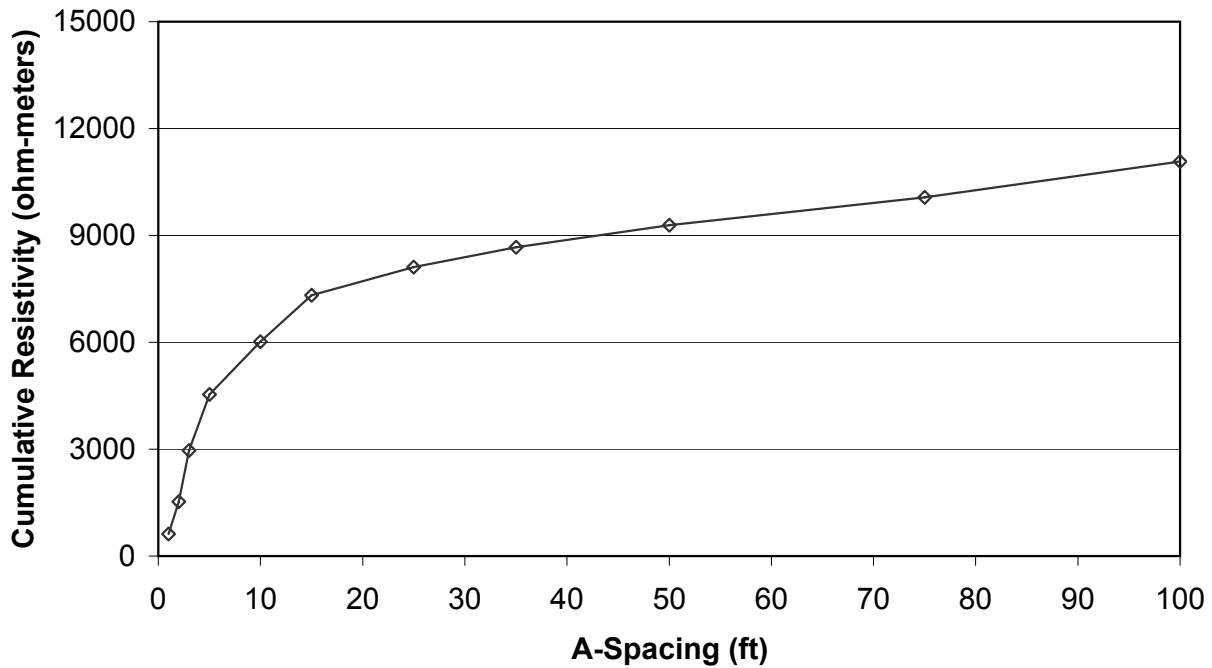
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	100	32.167	321.7	616.0	0.0300
2	1.00	3.00	100	23.721	237.2	908.6	0.0126
3	1.50	4.50	50	12.565	251.3	1,443.8	0.0158
5	2.50	7.50	50	8.176	163.5	1,565.8	0.0382
10	5.00	15.00	50	3.864	77.3	1,480.0	0.0276
15	7.50	22.50	50	2.276	45.5	1,307.7	0.0115
25	12.50	37.50	50	0.821	16.4	786.4	0.0284
35	17.50	52.50	50	0.417	8.3	558.9	0.0051
50	25.00	75.00	50	0.323	6.5	619.3	0.0164
75	37.50	112.50	50	0.273	5.5	784.0	0.0363
100	50.00	150.00	20	0.105	5.3	1,008.7	0.0184

Geomean 943
 Min 559
 Max 1,566
 Median 909
 Std. Dev. 378



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	100	2021.138104	616.0428942	0.030037	616
2	1	3	100	1490.434764	908.569032	0.012579	1525
3	1.5	4.5	50	1578.922245	1443.766501	0.015832	2968
5	2.5	7.5	50	1027.430734	1565.804439	0.038233	4534
10	5	15	50	485.5506119	1479.958265	0.027644	6014
15	7.5	22.5	50	286.031581	1307.736388	0.011499	7322
25	12.5	37.5	50	103.2024496	786.4026663	0.028424	8108
35	17.5	52.5	50	52.38844511	558.8799324	0.00509	8667
50	25	75	50	40.63800894	619.3232562	0.016405	9286
75	37.5	112.5	50	34.29563603	783.9982396	0.036286	10070
100	50	150	20	33.09447949	1008.719735	0.018414	11079

T-55B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt55b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 20/11/2013 15:05:28

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	136	-1.5	1	1	100	32.167412	2021.138188	0.030037
2	206	-3	2	2	100	23.721006	2980.869433	0.012579
3	251	-4.5	3	3	50	12.564664	4736.76662	0.015832
4	427	-7.5	5	5	50	8.176034	5137.154013	0.038233
5	510	-15	10	10	50	3.863889	4855.506512	0.027644
6	574	-22.5	15	15	50	2.276167	4290.473557	0.011499
7	662	-37.5	25	25	50	0.821259	2580.06071	0.028424
8	734	-52.5	35	35	50	0.416894	1833.596447	0.00509
9	824	-75	50	50	50	0.323387	2031.901214	0.016405
10	922	-112.5	75	75	50	0.272916	2572.172319	0.036286
11	1062	-150	100	100	20	0.105343	3309.462882	0.018414
12	1088	-150	100	100	10	0.052731	3313.180689	0.008361



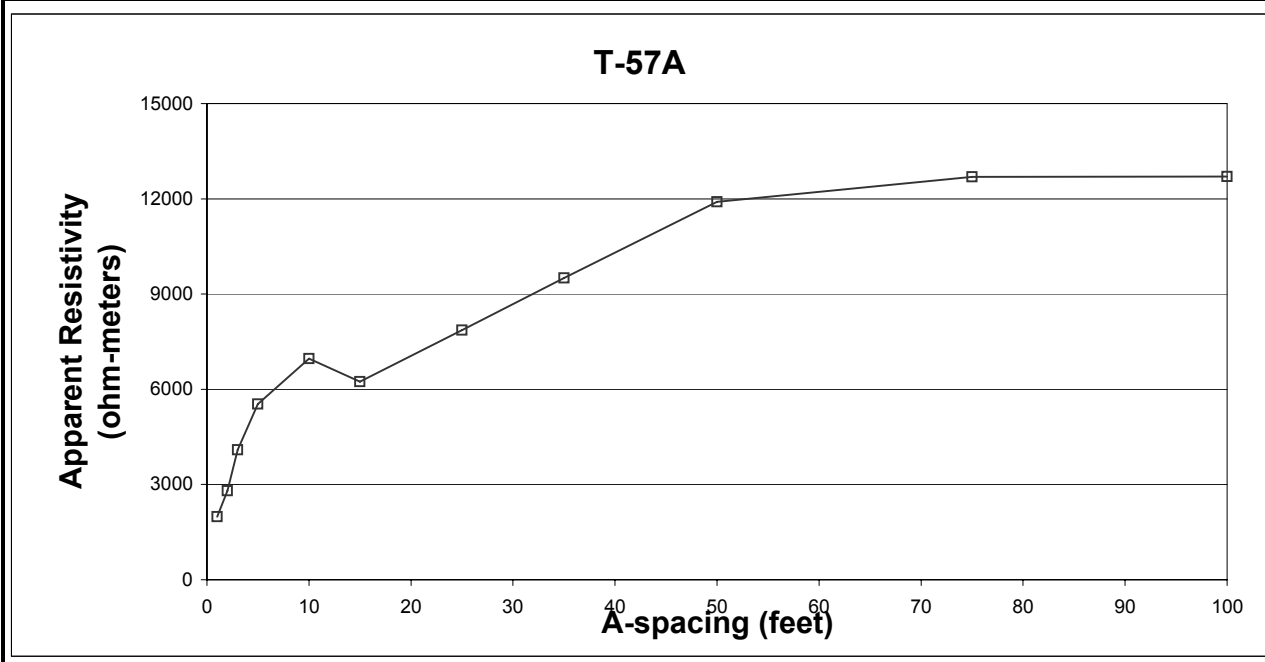
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-57A
 Orientation 308° (mag)
No Outcrop, sandy silt moist to saturated

Date 11/21/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	20.790	1039.5	1,990.7	0.0103
2	1.00	3.00	20	14.613	730.6	2,798.5	0.0486
3	1.50	4.50	20	14.261	713.0	4,096.6	0.0508
5	2.50	7.50	50	28.903	578.1	5,535.3	0.0197
10	5.00	15.00	20	7.277	363.9	6,968.2	0.0200
15	7.50	22.50	20	4.341	217.1	6,235.3	0.0204
25	12.50	37.50	50	8.216	164.3	7,867.4	0.0225
35	17.50	52.50	20	2.835	141.8	9,501.6	0.0165
50	25.00	75.00	50	6.215	124.3	11,902.7	0.0340
75	37.50	112.50	50	4.419	88.4	12,694.3	0.0412
100	50.00	150.00	20	1.326	66.3	12,699.6	0.0344

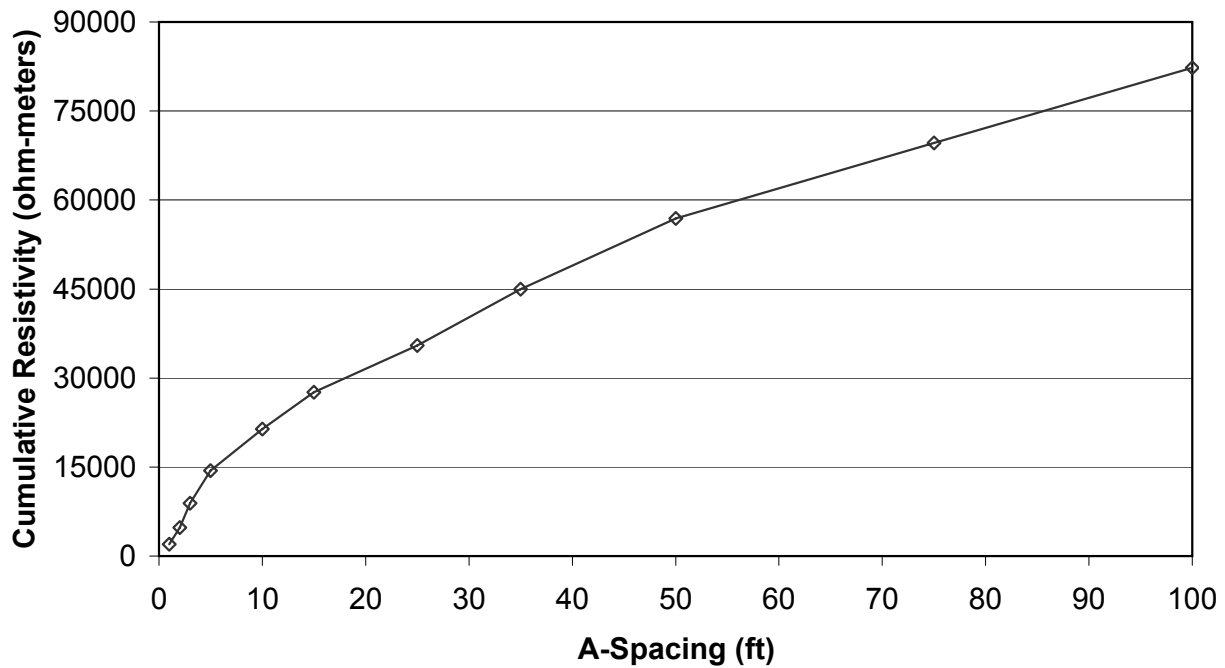
Geomean 6,438
 Min 1,991
 Max 12,700
 Median 6,968
 Std. Dev. 3,838



T-57A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	6531.316777	1990.745354	0.010252	1991
2	1	3	20	4590.712269	2798.498199	0.048618	4789
3	1.5	4.5	20	4480.079199	4096.58442	0.050815	8886
5	2.5	7.5	50	3632.066518	5535.269374	0.019664	14421
10	5	15	20	2286.158023	6968.209653	0.020024	21389
15	7.5	22.5	20	1363.808097	6235.330618	0.020368	27625
25	12.5	37.5	50	1032.468341	7867.408756	0.022482	35492
35	17.5	52.5	20	890.6600527	9501.561442	0.016467	44994
50	25	75	50	781.0138824	11902.65157	0.033974	56896
75	37.5	112.5	50	555.3050272	12694.27292	0.041219	69591
100	50	150	20	416.6546682	12699.63429	0.034402	82290

**T-57A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\rbt57a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 21/11/2013 08:23:34

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	138	-1.5	1	1	20	20.789827	6531.317437	0.010252
2	258	-3	2	2	20	14.612691	9181.424948	0.048618
3	304	-4.5	3	3	20	14.260535	13440.23729	0.050815
4	355	-7.5	5	5	50	28.903067	18160.3326	0.019664
5	418	-15	10	10	20	7.277067	22861.57913	0.020024
6	469	-22.5	15	15	20	4.341136	20457.12081	0.020368
8	587	-37.5	25	25	50	8.216122	25811.70989	0.022482
9	674	-52.5	35	35	20	2.835059	31173.09738	0.016467
10	764	-75	50	50	50	6.215111	39050.69513	0.033974
11	862	-112.5	75	75	50	4.418977	41647.8768	0.041219
12	989	-150	100	100	20	1.326253	41665.46844	0.034402
7	534	-37.5	25	25	50	6.835693	21474.96404	0.172607
13	1023	-150	100	100	10	0.665269	41800.06088	0.047316



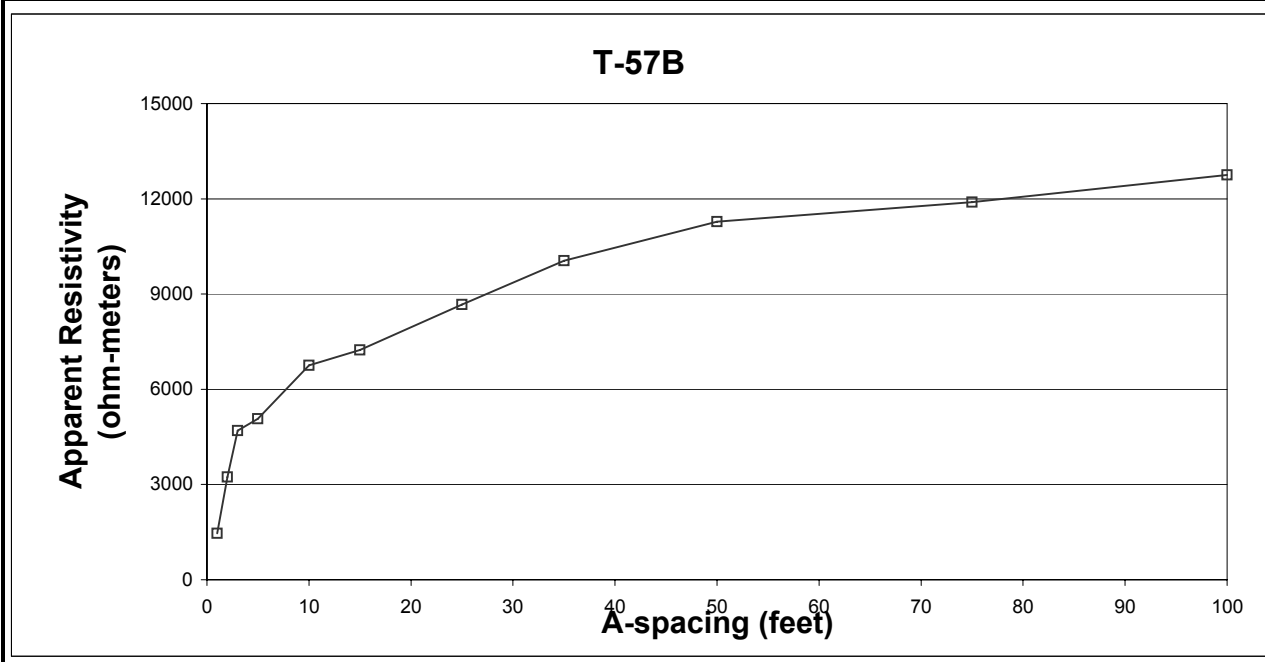
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-57B
 Orientation 20° (mag)
No Outcrop, sandy silt moist to saturated

Date 11/21/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	15.276	763.8	1,462.8	0.0521
2	1.00	3.00	20	16.874	843.7	3,231.5	0.0396
3	1.50	4.50	20	16.354	817.7	4,697.8	0.0269
5	2.50	7.50	20	10.589	529.5	5,069.8	0.0309
10	5.00	15.00	20	7.057	352.9	6,757.5	0.0328
15	7.50	22.50	20	5.036	251.8	7,233.2	0.0196
25	12.50	37.50	20	3.621	181.1	8,669.0	0.0306
35	17.50	52.50	20	3.000	150.0	10,054.1	0.0266
50	25.00	75.00	20	2.356	117.8	11,279.8	0.0279
75	37.50	112.50	20	1.656	82.8	11,896.2	0.0248
100	50.00	150.00	10	0.666	66.6	12,755.4	0.0212

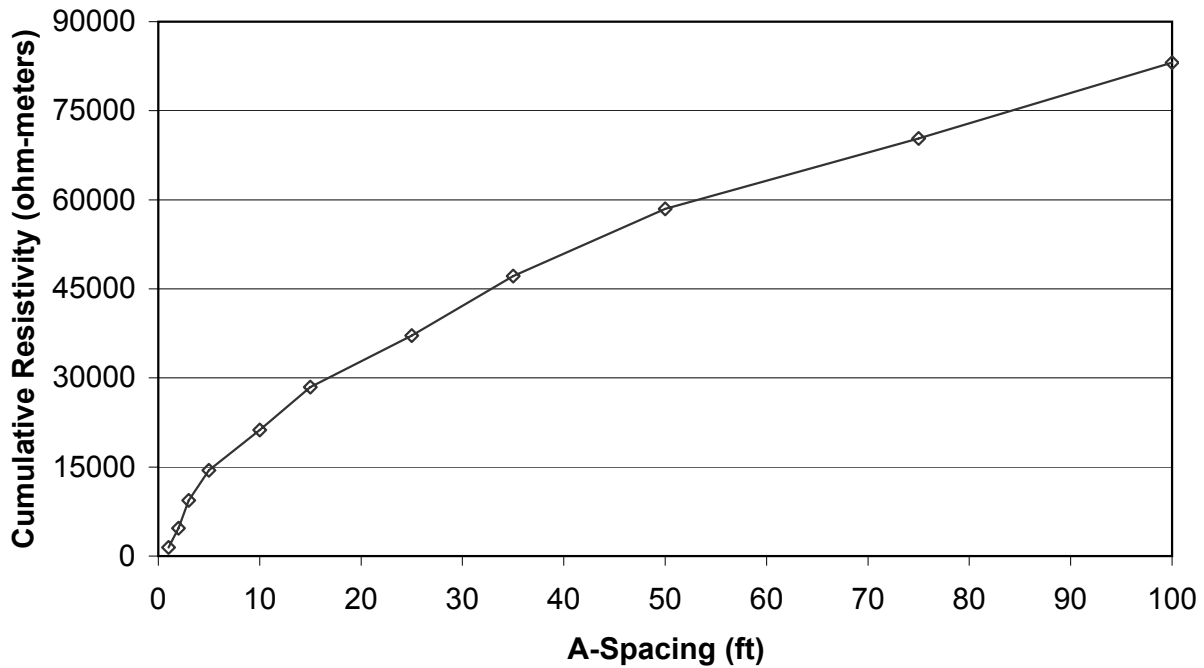
Geomean 6,462
 Min 1,463
 Max 12,755
 Median 7,233
 Std. Dev. 3,717



T-57B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Resistivity Error	Cumulative Resistivity
1	0.5	1.5	20	4799.099765	1462.765608	0.052088	1463
2	1	3	20	5301.066581	3231.530188	0.039577	4694
3	1.5	4.5	20	5137.627108	4697.846228	0.026935	9392
5	2.5	7.5	20	3326.656651	5069.824736	0.030862	14462
10	5	15	20	2217.043298	6757.547974	0.032827	21220
15	7.5	22.5	20	1582.062078	7233.187821	0.019595	28453
25	12.5	37.5	20	1137.659293	8668.963811	0.03057	37122
35	17.5	52.5	20	942.4526633	10054.08501	0.026645	47176
50	25	75	20	740.1441495	11279.79684	0.027923	58456
75	37.5	112.5	20	520.39477	11896.22444	0.024768	70352
100	50	150	10	418.4827609	12755.35455	0.021241	83107

T-57B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt57b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 21/11/2013 08:48:39

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	194	-1.5	1	1	20	15.276009	4799.099545	0.052088
3	240	-3	2	2	20	16.873819	10602.13429	0.039577
4	299	-4.5	3	3	20	16.353575	15412.88174	0.026935
5	370	-7.5	5	5	20	10.589077	16633.28349	0.030862
6	439	-15	10	10	20	7.057068	22170.43258	0.032827
7	510	-22.5	15	15	20	5.03586	23730.9311	0.019595
8	616	-37.5	25	25	20	3.621282	28441.48266	0.03057
9	705	-52.5	35	35	20	2.99992	32985.84034	0.026645
10	805	-75	50	50	20	2.355952	37007.20262	0.027923
11	903	-112.5	75	75	20	1.656468	39029.5981	0.024768
12	1029	-150	100	100	10	0.666036	41848.29978	0.021241
1	100	0	0	0	20	19.346443	inf	0.037457
13	1061	-150	100	100	20	1.327654	41709.46972	0.034898



S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**

Date **11/21/2013**

Spread No **T-58A**

lat/long: Mid point

Orientation **88° (mag)**

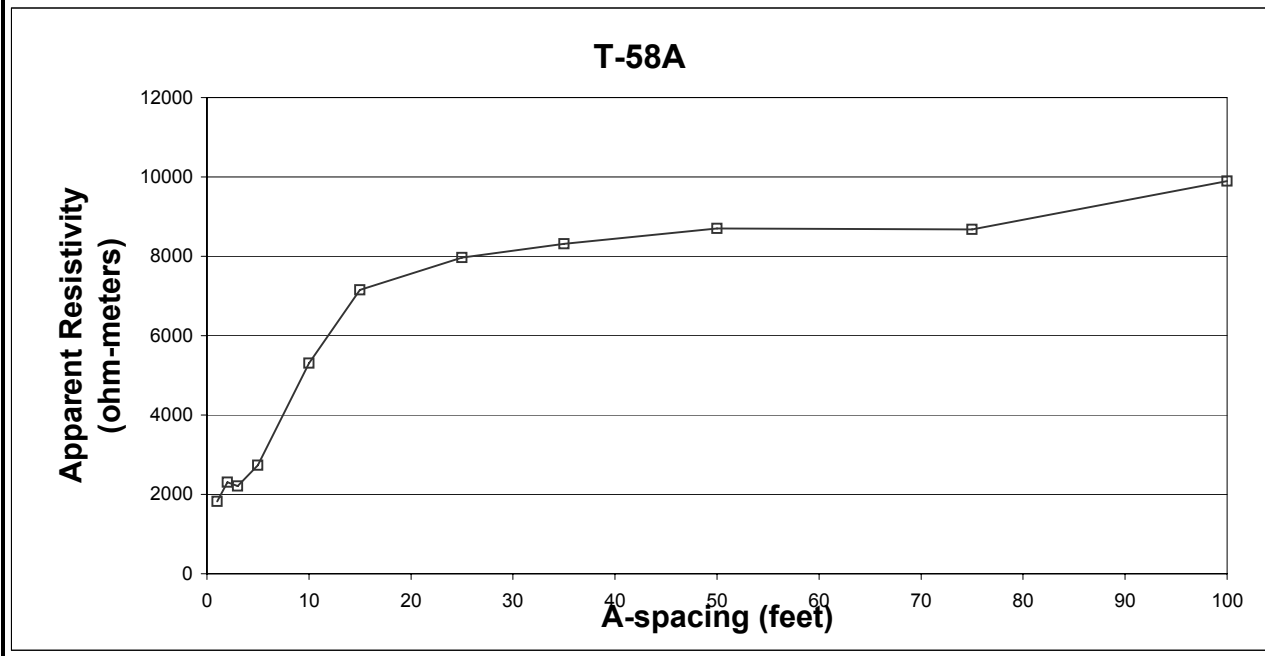
C1 Max See GPS Coordinates

No Outcrop, sandy silt moist to saturated

C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	47.551	951.0	1,821.3	0.0831
2	1.00	3.00	10	6.022	602.2	2,306.6	0.0295
3	1.50	4.50	50	19.220	384.4	2,208.5	0.0214
5	2.50	7.50	20	5.715	285.7	2,736.2	0.0297
10	5.00	15.00	10	2.770	277.0	5,304.2	0.0271
15	7.50	22.50	20	4.982	249.1	7,155.3	0.0296
25	12.50	37.50	20	3.328	166.4	7,965.8	0.0310
35	17.50	52.50	20	2.481	124.0	8,314.9	0.0175
50	25.00	75.00	20	1.818	90.9	8,704.6	0.0208
75	37.50	112.50	20	1.208	60.4	8,676.8	0.0272
100	50.00	150.00	20	1.033	51.7	9,893.2	0.0257

Geomean 4,989
 Min 1,821
 Max 9,893
 Median 7,155
 Std. Dev. 3,110

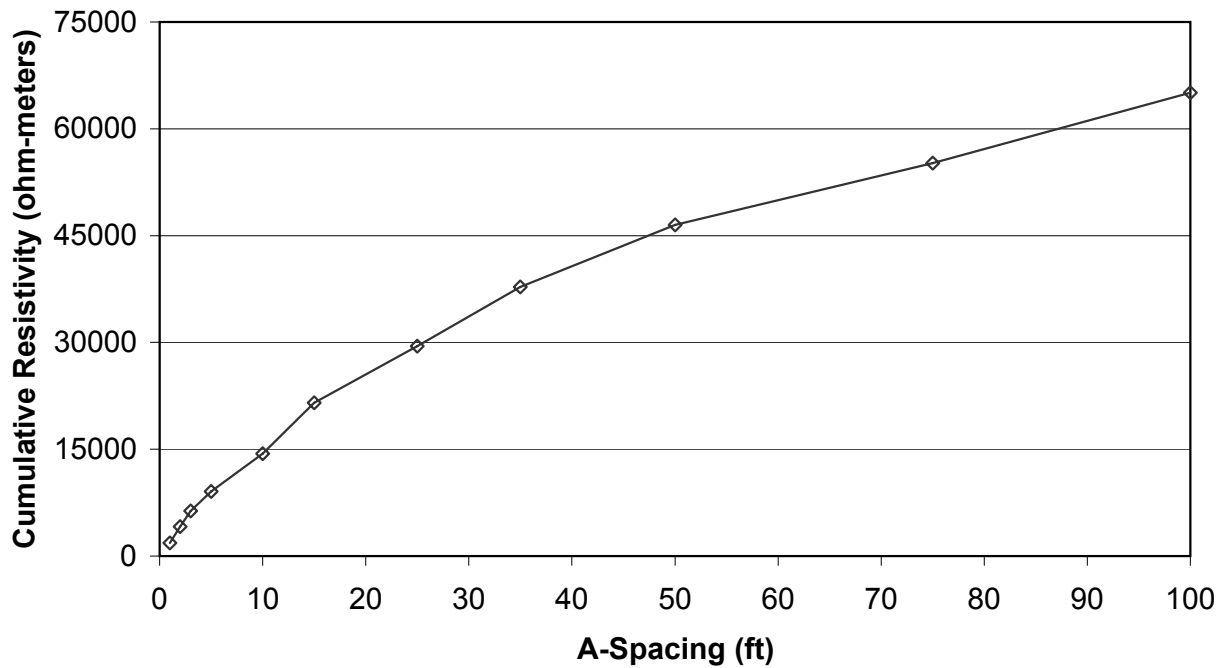


T-58A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	5975.375326	1821.294399	0.083071	1821
2	1	3	10	3783.79828	2306.603432	0.029483	4128
3	1.5	4.5	50	2415.237457	2208.493131	0.021439	6336
5	2.5	7.5	20	1795.415175	2736.212727	0.029706	9073
10	5	15	10	1740.231843	5304.226659	0.027072	14377
15	7.5	22.5	20	1565.025221	7155.295311	0.029606	21532
25	12.5	37.5	20	1045.380978	7965.803049	0.031037	29498
35	17.5	52.5	20	779.4212834	8314.866251	0.017535	37813
50	25	75	20	571.1651064	8704.556221	0.020816	46517
75	37.5	112.5	20	379.5621979	8676.791843	0.027225	55194
100	50	150	20	324.581499	9893.244089	0.025675	65087

T-58A

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt58a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 21/11/2013 10:09:33

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	61	-1.5	1	1	50	47.550526	5975.375572	0.083071
2	191	-3	2	2	10	6.022102	7567.597392	0.029483
3	251	-4.5	3	3	50	19.219849	7245.711657	0.021439
4	309	-7.5	5	5	20	5.714984	8977.07608	0.029706
5	407	-15	10	10	10	2.769665	17402.316	0.027072
6	491	-22.5	15	15	20	4.98163	23475.37949	0.029606
7	611	-37.5	25	25	20	3.327551	26134.52176	0.031037
8	709	-52.5	35	35	20	2.480975	27279.74532	0.017535
9	840	-75	50	50	20	1.818075	28558.25695	0.020816
10	981	-112.5	75	75	20	1.208184	28467.17324	0.027225
11	1132	-150	100	100	20	1.033175	32458.13945	0.025675
12	1167	-150	100	100	10	0.518192	32558.94596	0.030032



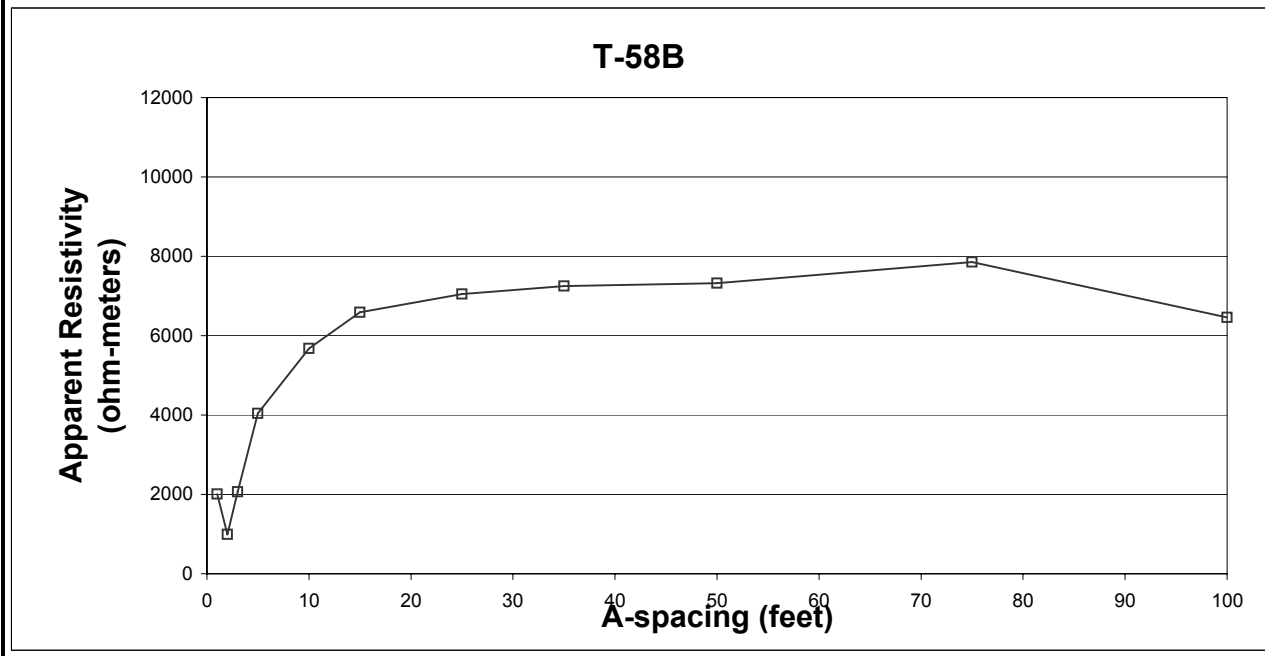
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-58B
 Orientation 339° (mag)
No Outcrop, sandy silt moist to saturated

Date 11/21/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	52.514	1050.3	2,011.4	0.0728
2	1.00	3.00	50	12.950	259.0	992.0	0.0285
3	1.50	4.50	50	17.952	359.0	2,062.8	0.0420
5	2.50	7.50	20	8.447	422.4	4,044.3	0.0353
10	5.00	15.00	50	14.828	296.6	5,679.6	0.0287
15	7.50	22.50	50	11.471	229.4	6,590.7	0.0446
25	12.50	37.50	20	2.945	147.2	7,049.9	0.0143
35	17.50	52.50	20	2.163	108.1	7,248.8	0.0149
50	25.00	75.00	50	3.825	76.5	7,324.4	0.0286
75	37.50	112.50	50	2.734	54.7	7,855.3	0.0428
100	50.00	150.00	20	0.674	33.7	6,456.8	

Geomean 4,395
 Min 992
 Max 7,855
 Median 6,457
 Std. Dev. 2,490



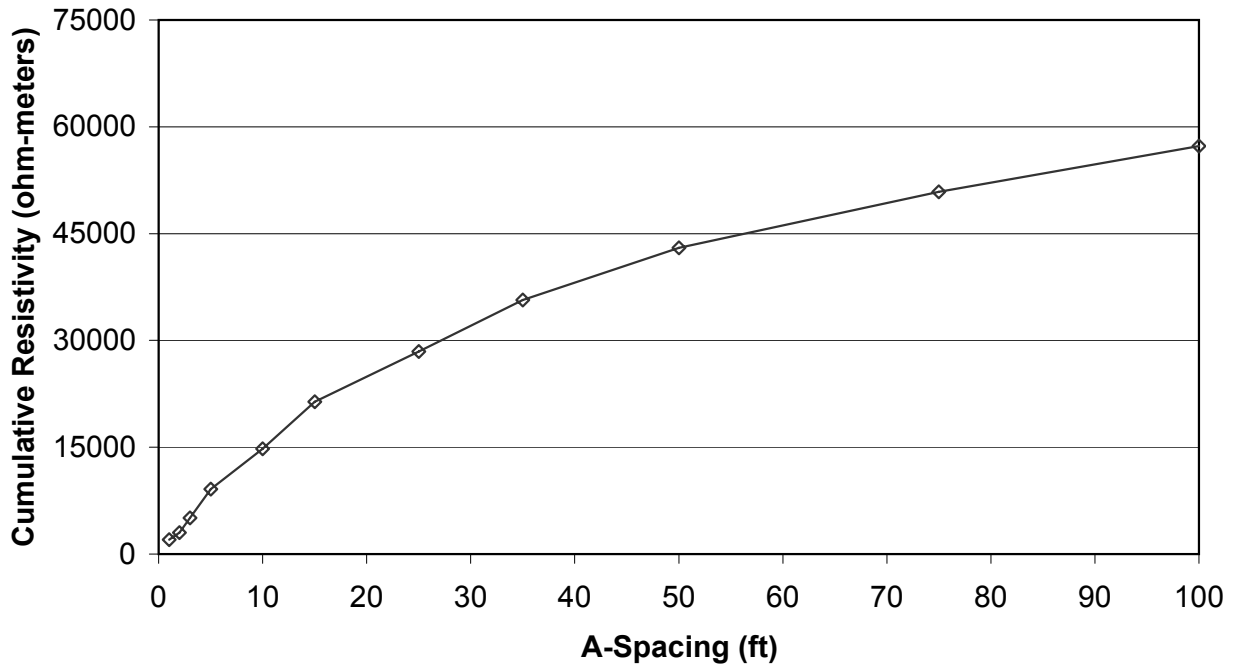
Cumulative Resistivity Sheet

T-58B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	6599.073202	2011.397512	0.072785	2011
2	1	3	50	1627.329161	992.0198565	0.028528	3003
3	1.5	4.5	50	2255.900653	2062.795557	0.04195	5066
5	2.5	7.5	20	2653.76866	4044.343437	0.035324	9111
10	5	15	50	1863.379636	5679.581132	0.028747	14790
15	7.5	22.5	50	1441.529088	6590.670991	0.044591	21381
25	12.5	37.5	20	925.1776737	7049.853873	0.014292	28431
35	17.5	52.5	20	679.4913051	7248.813243	0.014881	35679
50	25	75	50	480.6010955	7324.360695	0.028576	43004
75	37.5	112.5	50	343.6247655	7855.26214	0.042812	50859
100	50	150	20	211.8372785	6456.800248	0	57316

T-58B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\rbt58c.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 21/11/2013 10:58:11

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	46	-1.5	1	1	50	52.513756	6599.072602	0.072785
3	192	-3	2	2	50	12.949874	3254.658159	0.028528
4	320	-4.5	3	3	50	17.951887	6767.701576	0.04195
5	400	-7.5	5	5	20	8.447208	13268.84369	0.035324
6	500	-15	10	10	50	14.828304	18633.79769	0.028747
7	576	-22.5	15	15	50	11.471324	21622.93662	0.044591
8	654	-37.5	25	25	20	2.944932	23129.43902	0.014292
9	730	-52.5	35	35	20	2.162888	23782.19267	0.014881
10	817	-75	50	50	50	3.824502	24030.05592	0.028576
11	929	-112.5	75	75	50	2.734479	25771.85695	0.042812
12	1056	-150	100	100	20	0.674299	21183.74258	0
2	94	-1.5	1	1	20	15.26345	4795.154147	0.07168
13	1091	-150	100	100	10	0.338278	21254.61249	0.001046



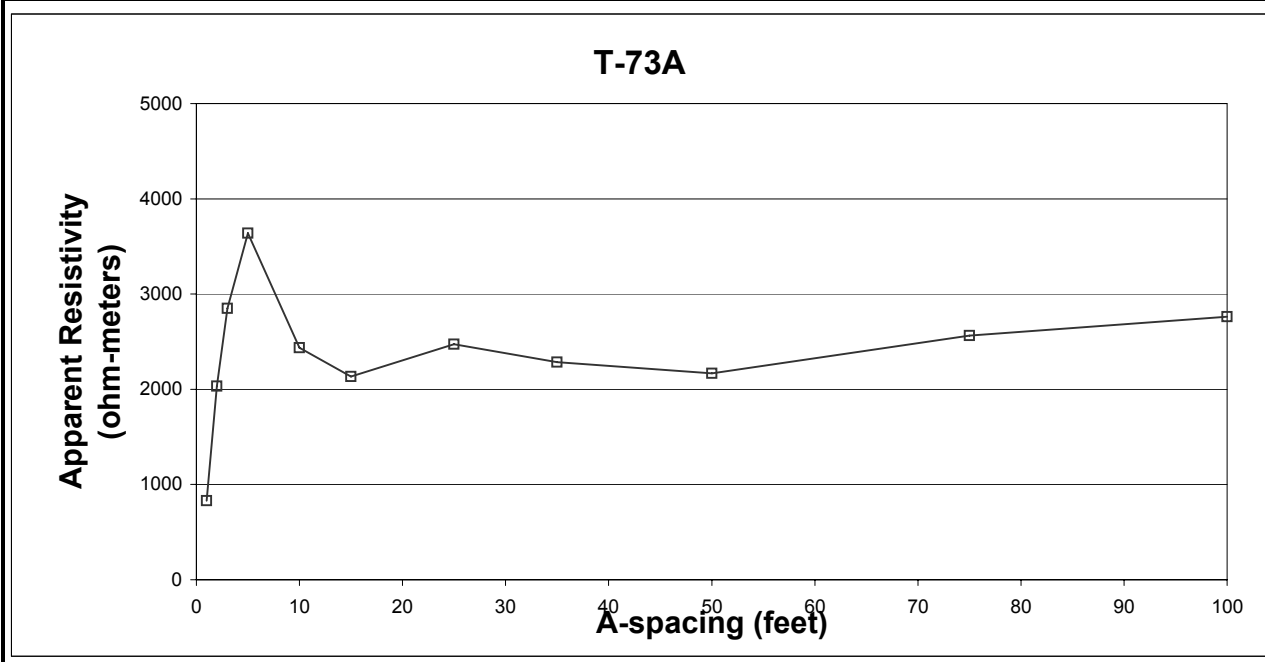
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-73A**
 Orientation **344° (mag)**
No Outcrop, gravelly sandy silt moist to saturated

Date **10/30/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	21.697	433.9	831.0	0.0170
2	1.00	3.00	50	26.543	530.9	2,033.3	0.0321
3	1.50	4.50	50	24.799	496.0	2,849.6	0.0069
5	2.50	7.50	20	7.600	380.0	3,638.6	0.0357
10	5.00	15.00	20	2.542	127.1	2,434.5	0.0288
15	7.50	22.50	20	1.485	74.3	2,133.3	0.0088
25	12.50	37.50	50	2.581	51.6	2,471.7	0.0301
35	17.50	52.50	20	0.682	34.1	2,286.6	0.0197
50	25.00	75.00	50	1.132	22.6	2,167.5	0.0309
75	37.50	112.50	50	0.893	17.9	2,564.5	0.0301
100	50.00	150.00	50	0.721	14.4	2,761.0	0.0569

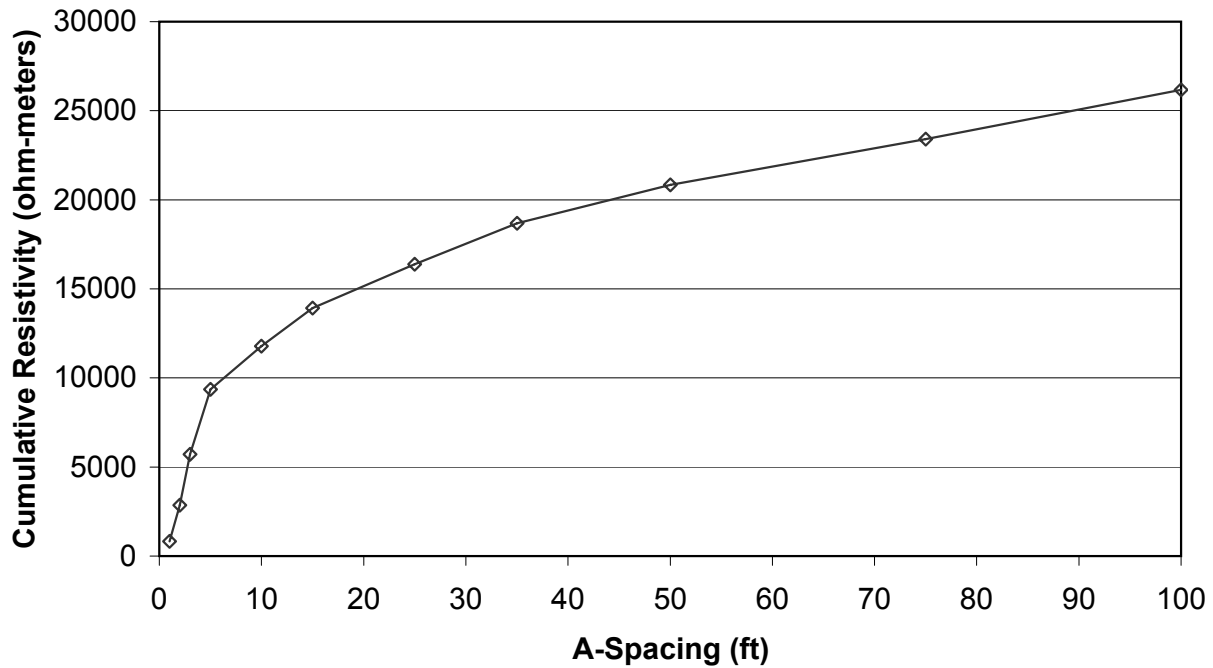
Geomean 2,261
 Min 831
 Max 3,639
 Median 2,435
 Std. Dev. 680



T-73A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2726.524553	831.0446836	0.017027	831
2	1	3	50	3335.488359	2033.313704	0.032119	2864
3	1.5	4.5	50	3116.35624	2849.596146	0.006876	5714
5	2.5	7.5	20	2387.52528	3638.588526	0.035695	9353
10	5	15	20	798.7304543	2434.530425	0.028796	11787
15	7.5	22.5	20	466.6056772	2133.321156	0.008811	13920
25	12.5	37.5	50	324.3656716	2471.666417	0.030145	16392
35	17.5	52.5	20	214.3373579	2286.550934	0.019699	18679
50	25	75	50	142.22568	2167.519363	0.030937	20846
75	37.5	112.5	50	112.1843887	2564.535126	0.03011	23411
100	50	150	50	90.58367726	2760.990483	0.056916	26172

T-73A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt73a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 30/10/2013 12:17:34

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	241	-1.5	1	1	50	21.696993	2726.524489	0.017027
2	301	-3	2	2	50	26.542973	6670.976417	0.032119
3	374	-4.5	3	3	50	24.799175	9349.069106	0.006876
4	466	-7.5	5	5	20	7.599729	11937.62545	0.035695
5	558	-15	10	10	20	2.542438	7987.304698	0.028796
6	677	-22.5	15	15	20	1.485252	6999.084793	0.008811
7	776	-37.5	25	25	50	2.58122	8109.141961	0.030145
8	888	-52.5	35	35	20	0.682257	7501.810924	0.019699
9	1033	-75	50	50	50	1.131796	7111.285062	0.030937
10	1193	-112.5	75	75	50	0.892735	8413.830992	0.03011
11	1460	-150	100	100	50	0.720842	9058.36388	0.056916
12	1535	-150	100	100	20	0.28977	9103.38322	0.018309



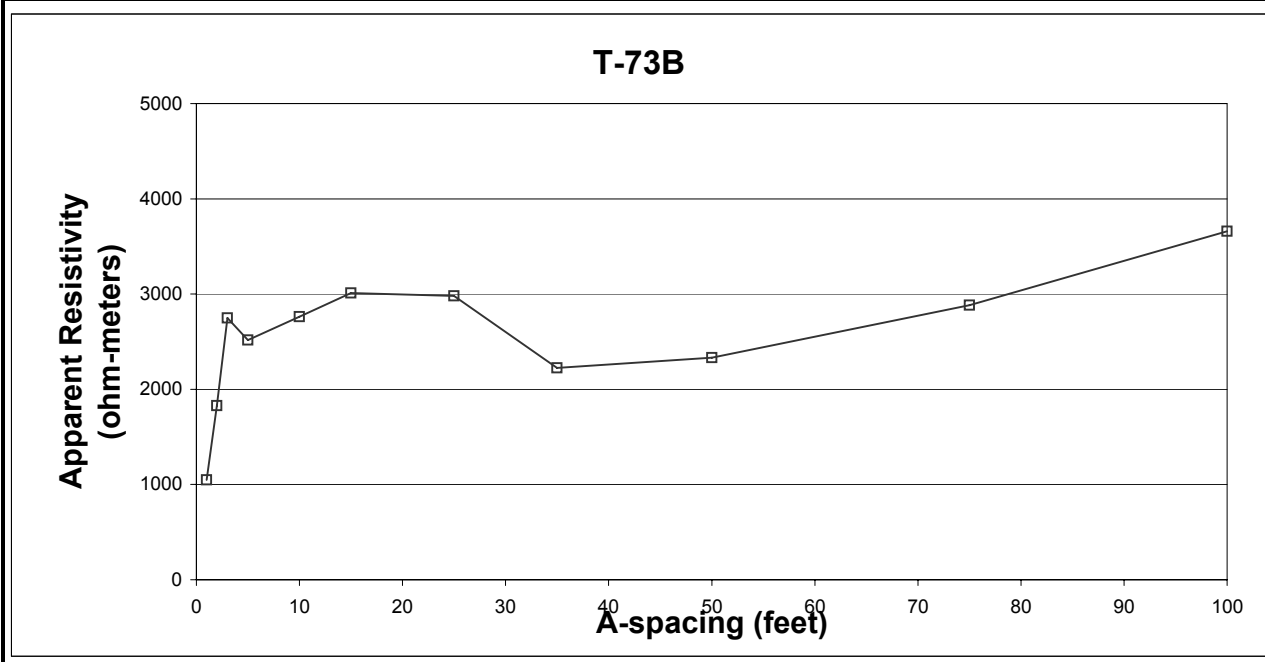
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-73B
 Orientation 273° (mag)
No Outcrop, gravelly sandy silt moist to saturated

Date 10/30/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	10.933	546.6	1,046.9	0.0364
2	1.00	3.00	20	9.542	477.1	1,827.4	0.0685
3	1.50	4.50	20	9.568	478.4	2,748.7	0.0386
5	2.50	7.50	50	13.134	262.7	2,515.3	0.0162
10	5.00	15.00	50	7.209	144.2	2,761.1	0.0544
15	7.50	22.50	100	10.482	104.8	3,011.0	0.0054
25	12.50	37.50	50	3.113	62.3	2,981.3	0.0287
35	17.50	52.50	50	1.659	33.2	2,224.0	0.0296
50	25.00	75.00	50	1.217	24.3	2,331.2	0.0299
75	37.50	112.50	50	1.004	20.1	2,884.7	0.0366
100	50.00	150.00	20	0.382	19.1	3,658.1	0.0194

Geomean 2,436
 Min 1,047
 Max 3,658
 Median 2,749
 Std. Dev. 690



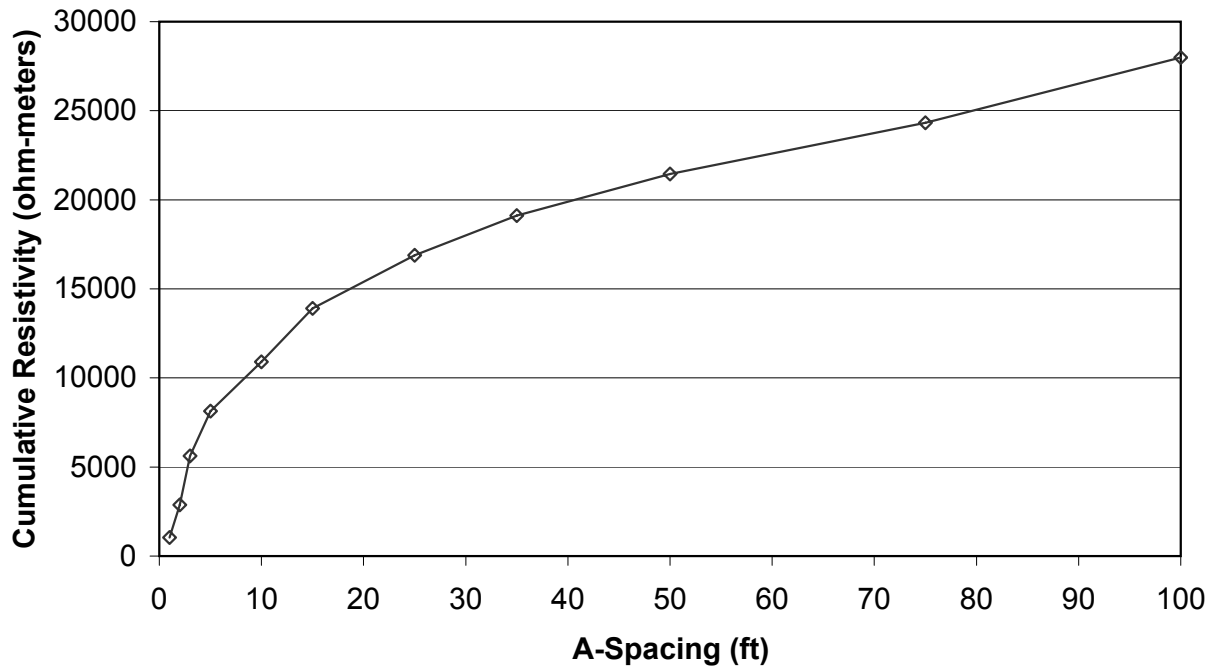
Cumulative Resistivity Sheet

T-73B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	3434.574757	1046.858386	0.036391	1047
2	1	3	20	2997.724989	1827.413153	0.068498	2874
3	1.5	4.5	20	3005.994603	2748.681465	0.03861	5623
5	2.5	7.5	50	1650.44701	2515.281244	0.016228	8138
10	5	15	50	905.8818859	2761.127988	0.054411	10899
15	7.5	22.5	100	658.5828751	3011.040905	0.005422	13910
25	12.5	37.5	50	391.2443986	2981.282318	0.028741	16892
35	17.5	52.5	50	208.4705593	2223.963926	0.029634	19116
50	25	75	50	152.963895	2331.169759	0.029928	21447
75	37.5	112.5	50	126.1892318	2884.685838	0.03663	24332
100	50	150	20	120.0148084	3658.05136	0.019442	27990

T-73B

CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt73b.s4k
Instrument ID: SAS1000 2042452
Date & Time: 30/10/2013 12:55:47

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	521	-1.5	1	1	20	10.932591	3434.574931	0.036391
2	668	-3	2	2	20	9.542055	5995.449628	0.068498
3	795	-4.5	3	3	20	9.568378	9017.984664	0.03861
4	1033	-7.5	5	5	50	13.13384	8252.234685	0.016228
5	1220	-15	10	10	50	7.208779	9058.81904	0.054411
6	1373	-22.5	15	15	100	10.481672	9878.743037	0.005422
7	1563	-37.5	25	25	50	3.113424	9781.110313	0.028741
8	1682	-52.5	35	35	50	1.658956	7296.470218	0.029634
9	1861	-75	50	50	50	1.217248	7648.192718	0.029928
10	2024	-112.5	75	75	50	1.004182	9464.187485	0.03663
11	2175	-150	100	100	20	0.382019	12001.475	0.019442
12	2221	-150	100	100	10	0.191791	12050.58036	0.029506



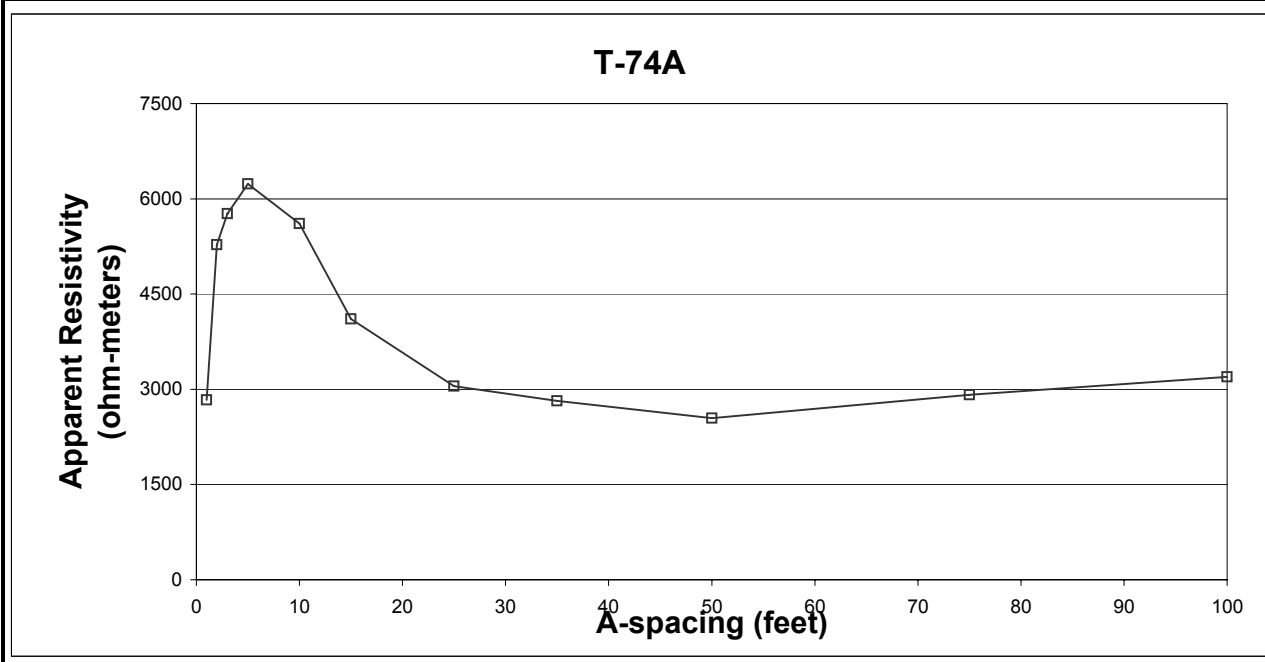
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-74A**
 Orientation **56° (mag)**
No Outcrop, gravelly sandy silt moist to saturated

Date **10/30/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	29.594	1479.7	2,833.8	0.0375
2	1.00	3.00	20	27.562	1378.1	5,278.5	0.0351
3	1.50	4.50	10	10.036	1003.6	5,766.3	0.0496
5	2.50	7.50	20	13.020	651.0	6,233.8	0.0175
10	5.00	15.00	20	5.861	293.1	5,612.4	0.0349
15	7.50	22.50	20	2.860	143.0	4,108.3	0.0252
25	12.50	37.50	20	1.275	63.7	3,051.8	0.0441
35	17.50	52.50	20	0.841	42.0	2,818.1	0.0416
50	25.00	75.00	20	0.531	26.6	2,543.9	0.0353
75	37.50	112.50	20	0.405	20.3	2,912.1	0.0288
100	50.00	150.00	20	0.334	16.7	3,196.2	0.0530

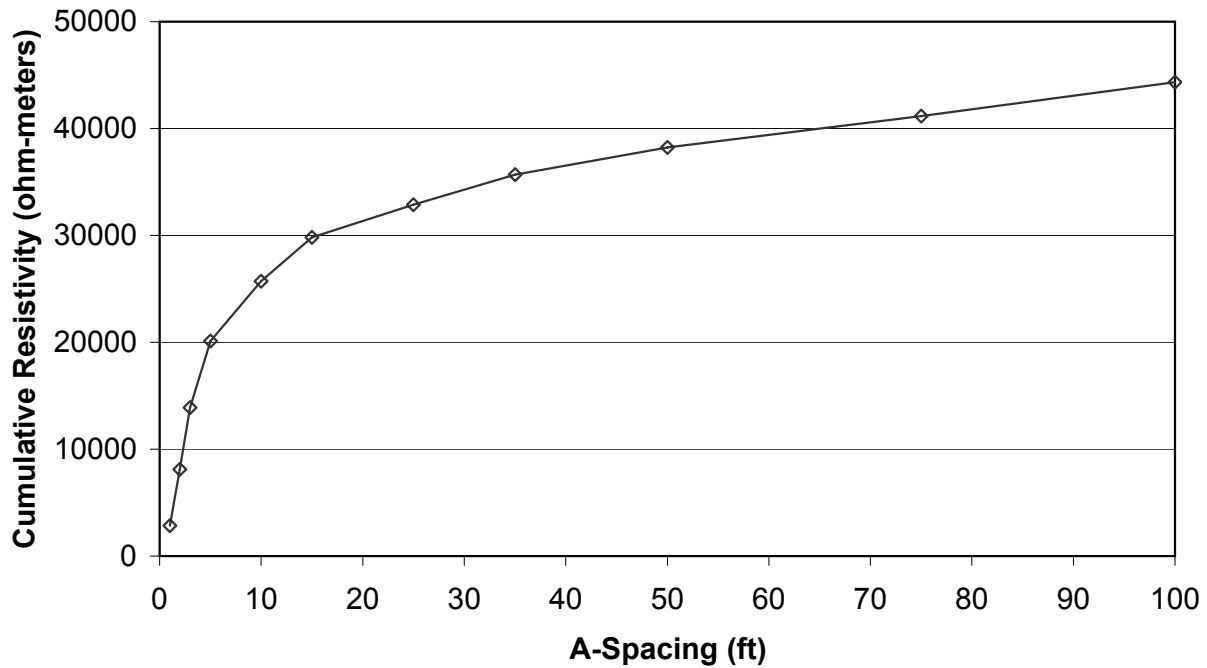
Geomean 3,820
 Min 2,544
 Max 6,234
 Median 3,196
 Std. Dev. 1,412



T-74A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Error	Cumulative Resistivity
1	0.5	1.5	20	9297.328573	2833.825749	0.03745	2834
2	1	3	20	8658.97234	5278.509538	0.035055	8112
3	1.5	4.5	10	6306.105739	5766.303088	0.04955	13879
5	2.5	7.5	20	4090.418038	6233.797089	0.017461	20112
10	5	15	20	1841.338034	5612.398327	0.034939	25725
15	7.5	22.5	20	898.5718396	4108.270451	0.025226	29833
25	12.5	37.5	20	400.4946297	3051.769078	0.044113	32885
35	17.5	52.5	20	264.1667873	2818.131287	0.041641	35703
50	25	75	20	166.9234991	2543.914126	0.03528	38247
75	37.5	112.5	20	127.3890688	2912.114113	0.028784	41159
100	50	150	20	104.8625929	3196.211831	0.05298	44355

T-74A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt74a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 30/10/2013 07:16:20

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	106	-1.5	1	1	20	29.594316	9297.328701	0.03745
3	194	-3	2	2	20	27.562365	17317.94513	0.035055
4	267	-4.5	3	3	10	10.036479	18918.31584	0.04955
5	359	-7.5	5	5	20	13.020205	20452.08839	0.017461
7	526	-15	10	10	20	5.861161	18413.37999	0.034939
8	627	-22.5	15	15	20	2.860243	13478.57866	0.025226
9	747	-37.5	25	25	20	1.274814	10012.36571	0.044113
10	831	-52.5	35	35	20	0.840869	9245.832391	0.041641
11	950	-75	50	50	20	0.531334	8346.175548	0.03528
12	1049	-112.5	75	75	20	0.405492	9554.191411	0.028784
13	1153	-150	100	100	20	0.333788	10486.27349	0.05298
1	27	-1.5	1	1	20	7.764801	2439.384186	0.287297
6	463	-15	10	10	5	1.466487	18428.42451	0.041483
14	1202	-150	100	100	10	0.167287	10510.94422	0.093026



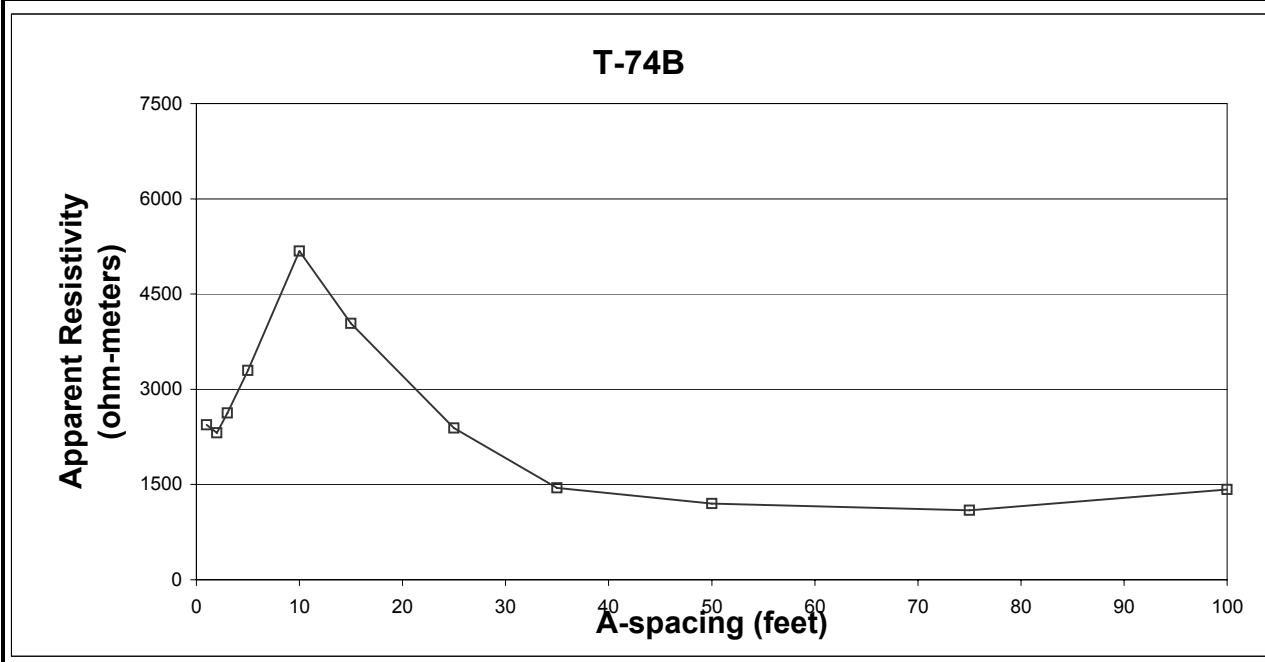
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-74B**
 Orientation **338° (mag)**
No Outcrop, gravelly sandy silt moist to saturated

Date **10/30/2013**
 lat/long: **Mid point**
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	10	12.745	1274.5	2,440.8	0.0468
2	1.00	3.00	10	6.034	603.4	2,311.1	0.0661
3	1.50	4.50	10	4.574	457.4	2,627.9	0.0501
5	2.50	7.50	10	3.441	344.1	3,295.1	0.0474
10	5.00	15.00	20	5.407	270.4	5,177.6	0.0396
15	7.50	22.50	20	2.812	140.6	4,039.3	0.0233
25	12.50	37.50	20	0.999	50.0	2,391.6	0.0492
35	17.50	52.50	20	0.431	21.6	1,445.0	0.0541
50	25.00	75.00	20	0.250	12.5	1,198.4	0.0382
75	37.50	112.50	10	0.076	7.6	1,094.7	0.0588
100	50.00	150.00	20	0.148	7.4	1,421.7	0.0381

Geomean 2,224
 Min 1,095
 Max 5,178
 Median 2,392
 Std. Dev. 1,272

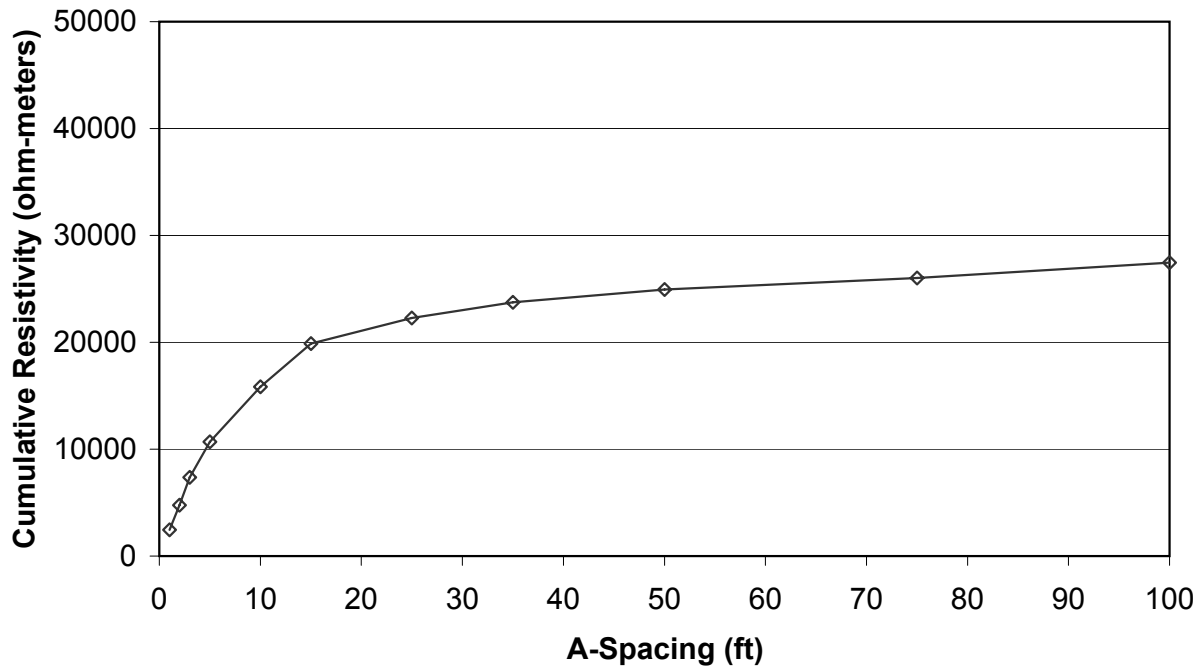


Cumulative Resistivity Sheet

T-74B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	Cumulative % Error	Cumulative Resistivity
1	0.5	1.5	10	8007.989417	2440.835174	0.046824	2441
2	1	3	10	3791.23443	2311.136509	0.066119	4752
3	1.5	4.5	10	2873.905083	2627.898808	0.050107	7380
5	2.5	7.5	10	2162.113179	3295.060485	0.047383	10675
10	5	15	20	1698.696847	5177.627989	0.039639	15853
15	7.5	22.5	20	883.4811993	4039.276043	0.023267	19892
25	12.5	37.5	20	313.8535884	2391.564344	0.04921	22283
35	17.5	52.5	20	135.4525947	1445.00828	0.05414	23728
50	25	75	20	78.63249332	1198.359198	0.038153	24927
75	37.5	112.5	10	47.88855346	1094.732332	0.05877	26021
100	50	150	20	46.64322613	1421.685532	0.038115	27443

T-74B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt74b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 30/10/2013 07:53:35

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	33	-1.5	1	1	10	12.745111	8007.98947	0.046824
2	132	-3	2	2	10	6.033937	7582.468568	0.066119
3	247	-4.5	3	3	10	4.573962	8621.714858	0.050107
4	317	-7.5	5	5	10	3.44111	10810.56662	0.047383
5	426	-15	10	10	20	5.40712	16986.9696	0.039639
6	602	-22.5	15	15	20	2.812208	13252.2163	0.023267
7	715	-37.5	25	25	20	0.999027	7846.339893	0.04921
8	838	-52.5	35	35	20	0.431159	4740.846062	0.05414
9	983	-75	50	50	20	0.250295	3931.625716	0.038153
10	1135	-112.5	75	75	10	0.076217	3591.642318	0.05877
12	1365	-150	100	100	20	0.14847	4664.320254	0.038115
11	1320	-150	100	100	20	0.148452	4663.770478	9.786866
13	1422	-150	100	100	10	0.073796	4636.712495	0.171222



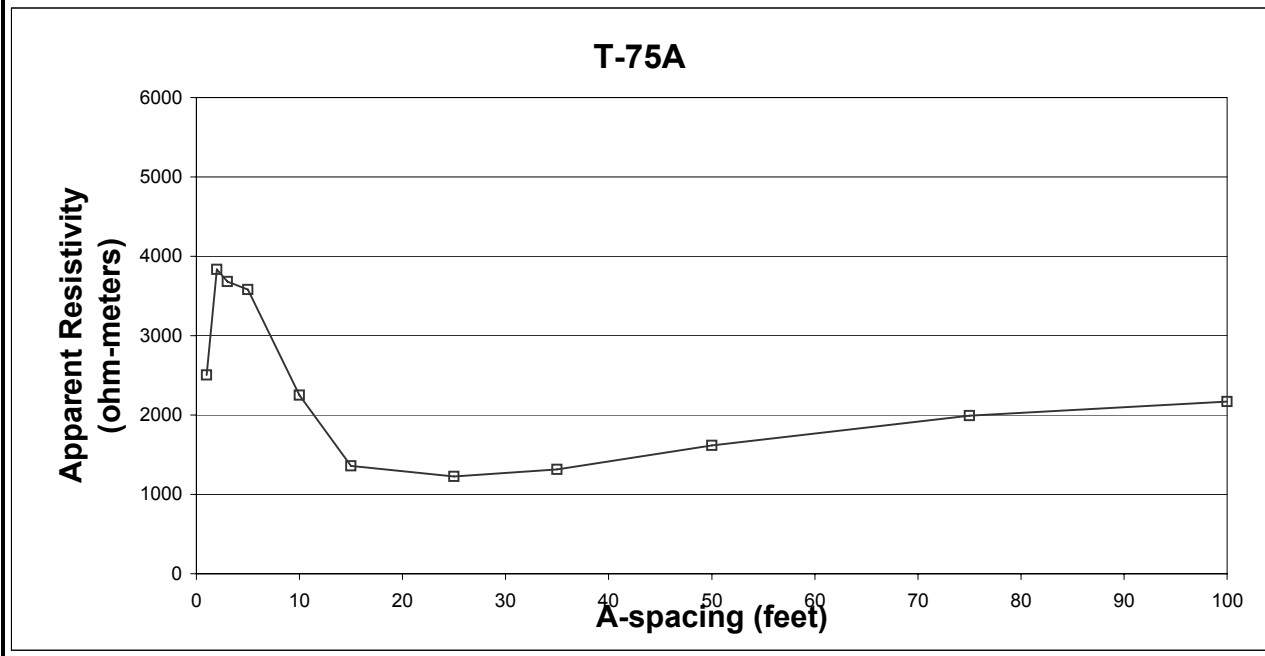
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-75A**
 Orientation **22° (mag)**
No Outcrop, sandy silt, moist

Date **10/30/2013**
 lat/long: **Mid point**
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	26.170	1308.5	2,505.9	0.0559
2	1.00	3.00	20	20.020	1001.0	3,834.0	0.0298
3	1.50	4.50	20	12.812	640.6	3,680.6	0.0189
5	2.50	7.50	20	7.477	373.8	3,579.6	0.0152
10	5.00	15.00	20	2.349	117.4	2,249.1	0.0339
15	7.50	22.50	20	0.946	47.3	1,358.2	0.0393
25	12.50	37.50	20	0.511	25.6	1,224.4	0.0228
35	17.50	52.50	20	0.392	19.6	1,313.5	0.0325
50	25.00	75.00	20	0.337	16.9	1,615.0	0.0891
75	37.50	112.50	20	0.277	13.9	1,990.9	0.0370
100	50.00	150.00	20	0.226	11.3	2,168.4	0.0156

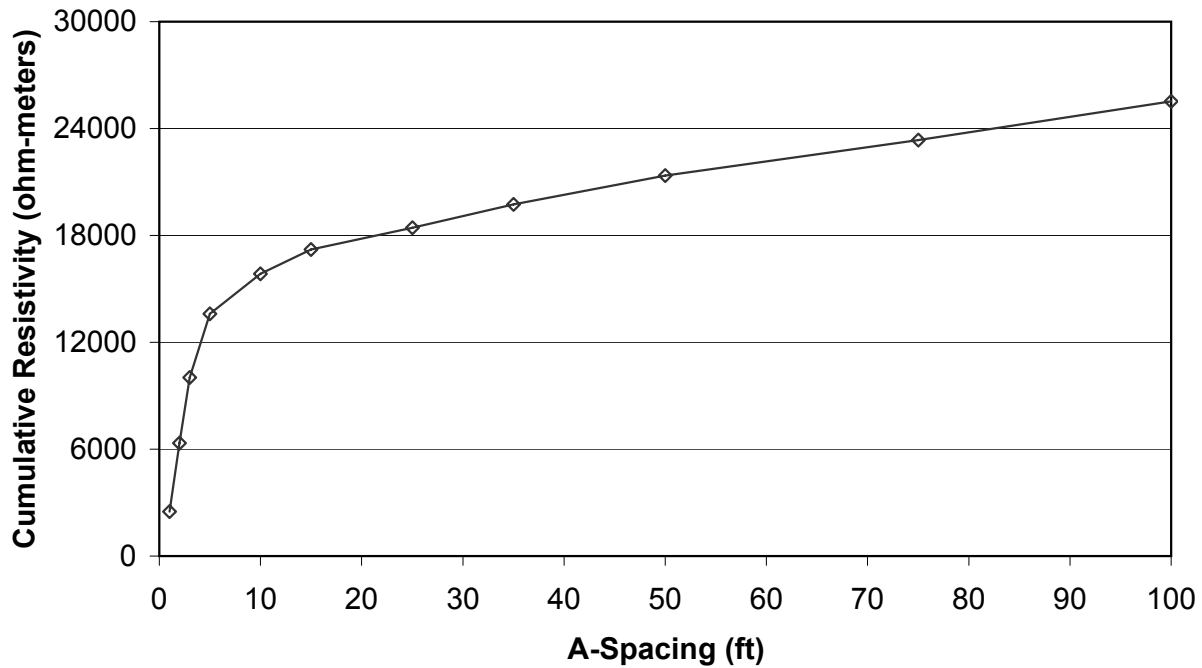
Geomean 2,141
 Min 1,224
 Max 3,834
 Median 2,168
 Std. Dev. 977



T-75A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2piV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	8221.39655	2505.881668	0.055925	2506
2	1	3	20	6289.439904	3834.042565	0.029809	6340
3	1.5	4.5	20	4025.111238	3680.561716	0.018853	10020
5	2.5	7.5	20	2348.825885	3579.610648	0.015204	13600
10	5	15	20	737.9070214	2249.140601	0.03388	15849
15	7.5	22.5	20	297.0790544	1358.245437	0.039272	17207
25	12.5	37.5	20	160.6773846	1224.361671	0.02282	18432
35	17.5	52.5	20	123.1221577	1313.467178	0.032489	19745
50	25	75	20	105.9712609	1615.002016	0.089124	21360
75	37.5	112.5	20	87.09280234	1990.941461	0.036998	23351
100	50	150	20	71.14262228	2168.427127	0.015618	25520

**T-75A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt75a.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 30/10/2013 09:18:09

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	359	-1.5	1	1	20	26.169518	8221.39611	0.055925
3	414	-3	2	2	20	20.019909	12578.87946	0.029809
4	474	-4.5	3	3	20	12.812327	12075.33339	0.018853
5	616	-7.5	5	5	20	7.476545	11744.13007	0.015204
6	736	-15	10	10	20	2.348831	7379.071249	0.03388
7	841	-22.5	15	15	20	0.945632	4456.186985	0.039272
8	983	-37.5	25	25	20	0.511452	4016.931826	0.02282
9	1128	-52.5	35	35	20	0.39191	4309.274888	0.032489
10	1283	-75	50	50	20	0.337317	5298.567381	0.089124
11	1513	-112.5	75	75	20	0.277225	6531.961038	0.036998
12	1707	-150	100	100	20	0.226454	7114.254752	0.015618
1	259	-1.5	1	1	2	2.832067	8897.202084	0.255516
13	1754	-150	100	100	10	0.113605	7137.982919	0.034246



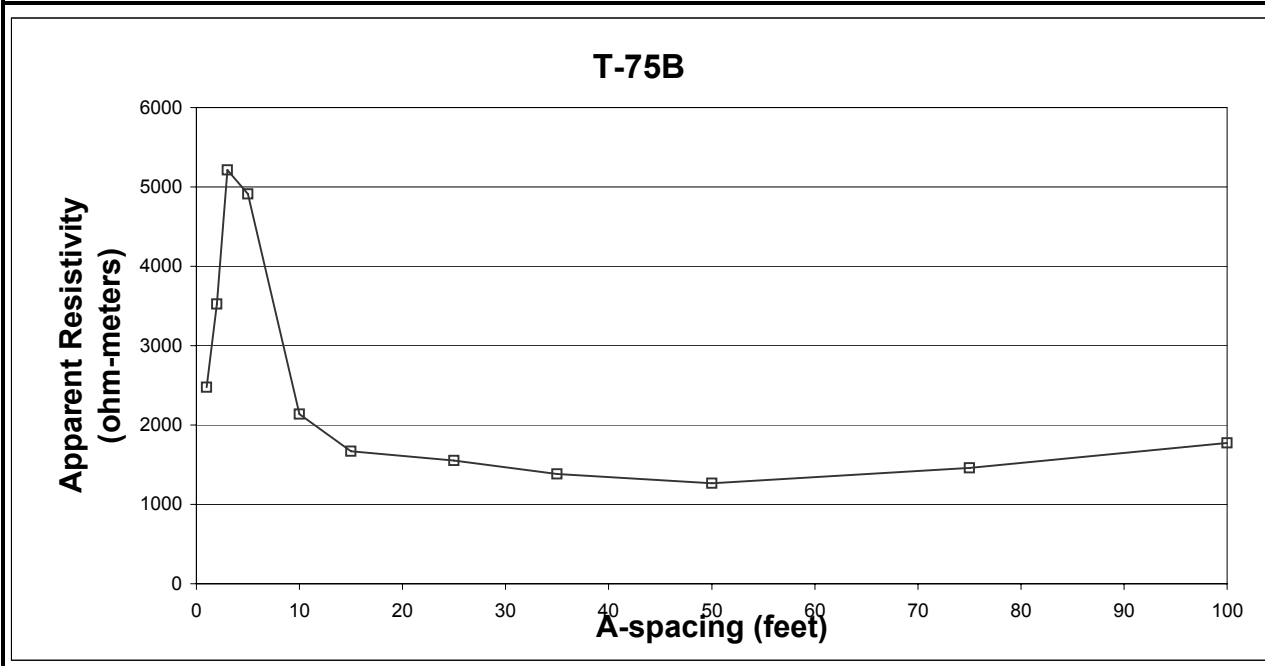
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-75B**
 Orientation **278° (mag)**
No Outcrop, sandy silt, moist

Date **10/30/2013**
 lat/long: **Mid point**
C1 Max **See GPS Coordinates**
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	25.854	1292.7	2,475.7	0.0616
2	1.00	3.00	20	18.409	920.5	3,525.6	0.0509
3	1.50	4.50	20	18.143	907.1	5,211.9	0.0603
5	2.50	7.50	20	10.259	512.9	4,911.6	0.0332
10	5.00	15.00	50	5.583	111.7	2,138.6	0.0476
15	7.50	22.50	20	1.163	58.1	1,670.3	0.0262
25	12.50	37.50	20	0.649	32.4	1,552.8	0.0076
35	17.50	52.50	20	0.412	20.6	1,381.6	0.0378
50	25.00	75.00	20	0.265	13.2	1,267.9	0.0134
75	37.50	112.50	20	0.203	10.2	1,461.1	0.0052
100	50.00	150.00	20	0.185	9.3	1,774.1	0.0038

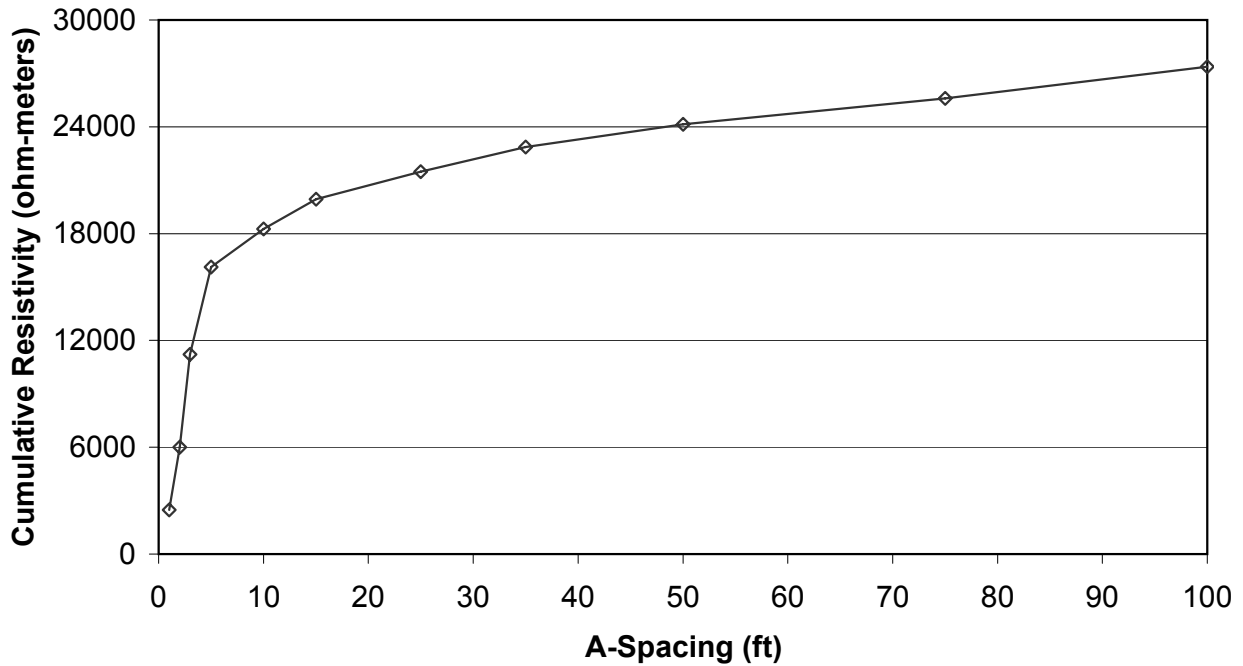
Geomean 2,192
 Min 1,268
 Max 5,212
 Median 1,774
 Std. Dev. 1,425



T-75B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	8122.315744	2475.681839	0.061553	2476
2	1	3	20	5783.464102	3525.599716	0.050941	6001
3	1.5	4.5	20	5699.787153	5211.885373	0.060304	11213
5	2.5	7.5	20	3222.841465	4911.610393	0.033242	16125
10	5	15	50	701.6282236	2138.562826	0.047636	18263
15	7.5	22.5	20	365.3248141	1670.26505	0.026157	19934
25	12.5	37.5	20	203.7794075	1552.799085	0.007634	21486
35	17.5	52.5	20	129.509958	1381.612232	0.03775	22868
50	25	75	20	83.19502833	1267.892232	0.013356	24136
75	37.5	112.5	20	63.91664502	1461.134505	0.005215	25597
100	50	150	20	58.20554373	1774.104973	0.003818	27371

T-75B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt75b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 30/10/2013 09:58:26

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
2	635	-1.5	1	1	20	25.854134	8122.315524	0.061553
3	696	-3	2	2	20	18.409338	11566.92844	0.050941
4	755	-4.5	3	3	20	18.142986	17099.36131	0.060304
5	841	-7.5	5	5	20	10.258623	16114.2074	0.033242
6	988	-15	10	10	50	5.58338	7016.282875	0.047636
8	1158	-22.5	15	15	20	1.162865	5479.872885	0.026157
9	1303	-37.5	25	25	20	0.64865	5094.48442	0.007634
10	1441	-52.5	35	35	20	0.412243	4532.84312	0.03775
11	1618	-75	50	50	20	0.264818	4159.75083	0.013356
12	1789	-112.5	75	75	20	0.203453	4793.742243	0.005215
13	1994	-150	100	100	20	0.185274	5820.539698	0.003818
1	586	-1.5	1	1	2	2.925017	9189.211434	0.027569
7	1123	-22.5	15	15	20	0.479913	2261.534333	40.87122
14	2044	-150	100	100	10	0.092434	5807.771704	0.022417



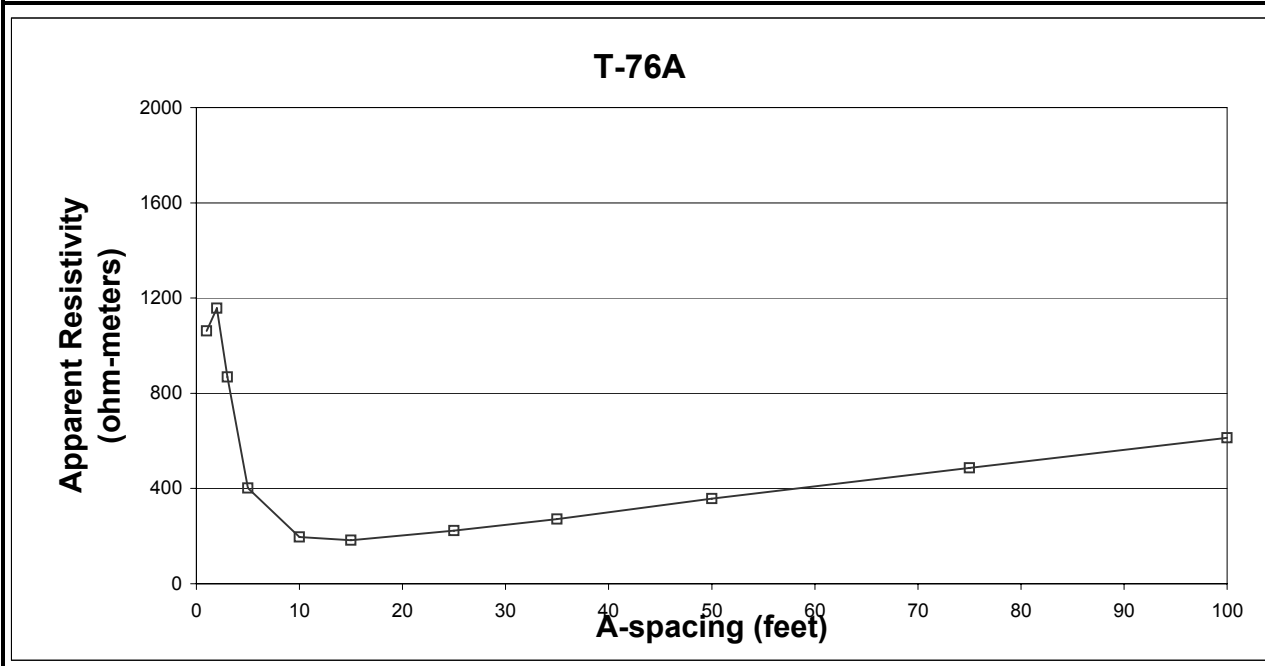
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-76A**
 Orientation **42° (mag)**
No Outcrop, gravelly sandy silt, moist to Saturated

Date **10/30/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	27.727	554.5	1,062.0	0.0400
2	1.00	3.00	20	6.040	302.0	1,156.7	0.0796
3	1.50	4.50	20	3.022	151.1	868.0	0.0266
5	2.50	7.50	50	2.097	41.9	401.6	0.0180
10	5.00	15.00	50	0.512	10.2	196.1	0.0408
15	7.50	22.50	50	0.318	6.4	182.7	0.0133
25	12.50	37.50	100	0.465	4.6	222.6	0.0183
35	17.50	52.50	50	0.202	4.0	271.0	0.0157
50	25.00	75.00	50	0.187	3.7	357.5	0.0360
75	37.50	112.50	100	0.339	3.4	486.8	0.0167
100	50.00	150.00	50	0.160	3.2	612.8	0.0508

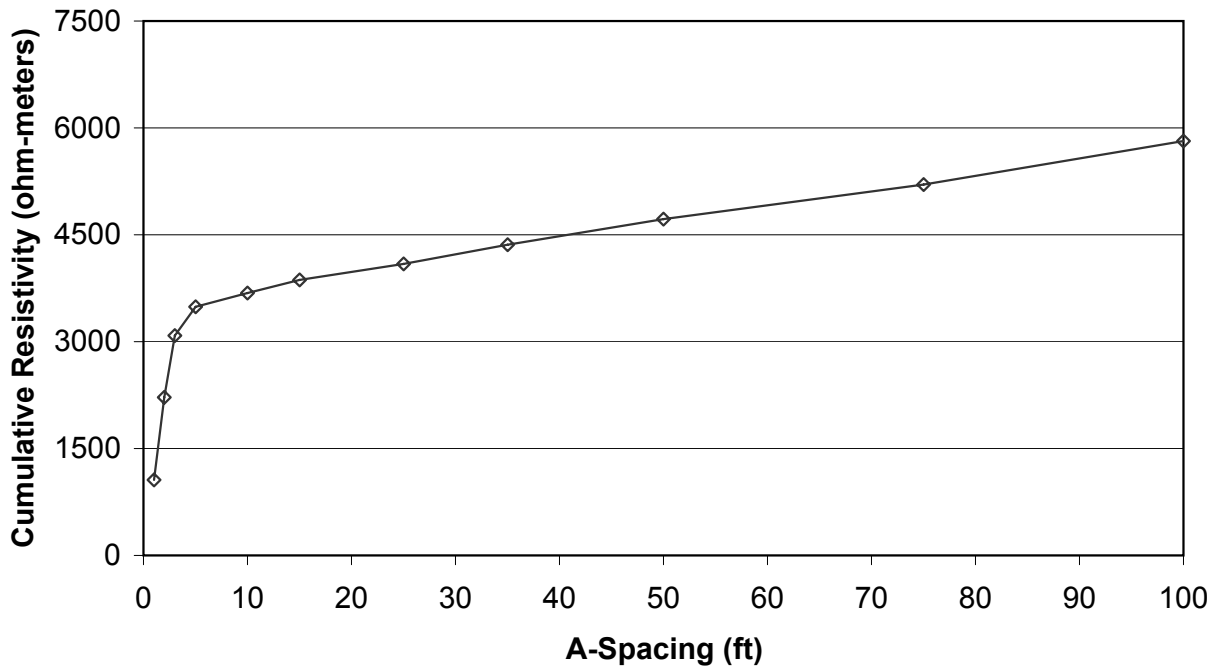
Geomean 432
 Min 183
 Max 1,157
 Median 402
 Std. Dev. 352



T-76A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	3484.219272	1061.990034	0.039972	1062
2	1	3	20	1897.488034	1156.708705	0.07958	2219
3	1.5	4.5	20	949.257353	868.0009236	0.026571	3087
5	2.5	7.5	50	263.5177971	401.6011228	0.018047	3488
10	5	15	50	64.34383878	196.1200206	0.040754	3684
15	7.5	22.5	50	39.96583377	182.723792	0.013345	3867
25	12.5	37.5	100	29.21473823	222.6163053	0.018256	4090
35	17.5	52.5	50	25.40002793	270.967498	0.015748	4361
50	25	75	50	23.45915199	357.5174763	0.035997	4718
75	37.5	112.5	100	21.29654244	486.8389602	0.016696	5205
100	50	150	50	20.10644431	612.8444226	0.050842	5818

T-76A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt76a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 30/10/2013 14:38:31

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	81	-1.5	1	1	50	27.726536	3484.219151	0.039972
2	181	-3	2	2	20	6.039892	3794.975663	0.07958
3	223	-4.5	3	3	20	3.02158	2847.772248	0.026571
4	264	-7.5	5	5	50	2.097008	1317.589189	0.018047
5	333	-15	10	10	50	0.512032	643.438308	0.040754
6	403	-22.5	15	15	50	0.318038	599.486808	0.013345
7	488	-37.5	25	25	100	0.464967	730.3684	0.018256
8	587	-52.5	35	35	50	0.202127	889.002147	0.015748
9	679	-75	50	50	50	0.186682	1172.954739	0.035997
10	803	-112.5	75	75	100	0.338945	1597.242403	0.016696
11	936	-150	100	100	50	0.160002	2010.64045	0.050842
12	998	-150	100	100	20	0.064306	2020.241612	0.0165



S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**

Date **10/30/2013**

Spread No **T-76B**

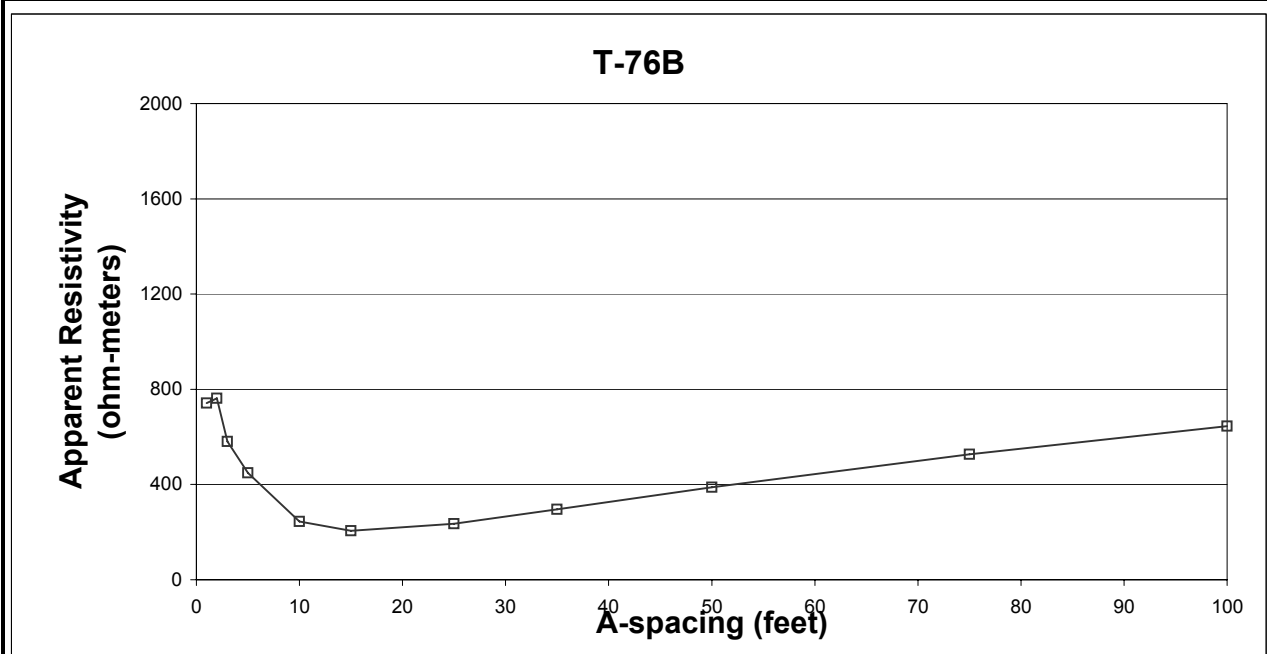
lat/long: Mid point

Orientation **306° (mag)**
No Outcrop, gravelly sandy silt, moist to Saturated

C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	19.361	387.2	741.6	0.0455
2	1.00	3.00	50	9.944	198.9	761.8	0.0043
3	1.50	4.50	50	5.048	101.0	580.1	0.0366
5	2.50	7.50	50	2.342	46.8	448.5	0.0136
10	5.00	15.00	50	0.638	12.8	244.3	0.0205
15	7.50	22.50	100	0.715	7.1	205.4	0.0223
25	12.50	37.50	50	0.246	4.9	235.2	0.0446
35	17.50	52.50	50	0.221	4.4	296.2	0.0368
50	25.00	75.00	50	0.203	4.1	388.1	0.0105
75	37.50	112.50	50	0.184	3.7	527.2	0.0039
100	50.00	150.00	50	0.168	3.4	645.2	0.0273

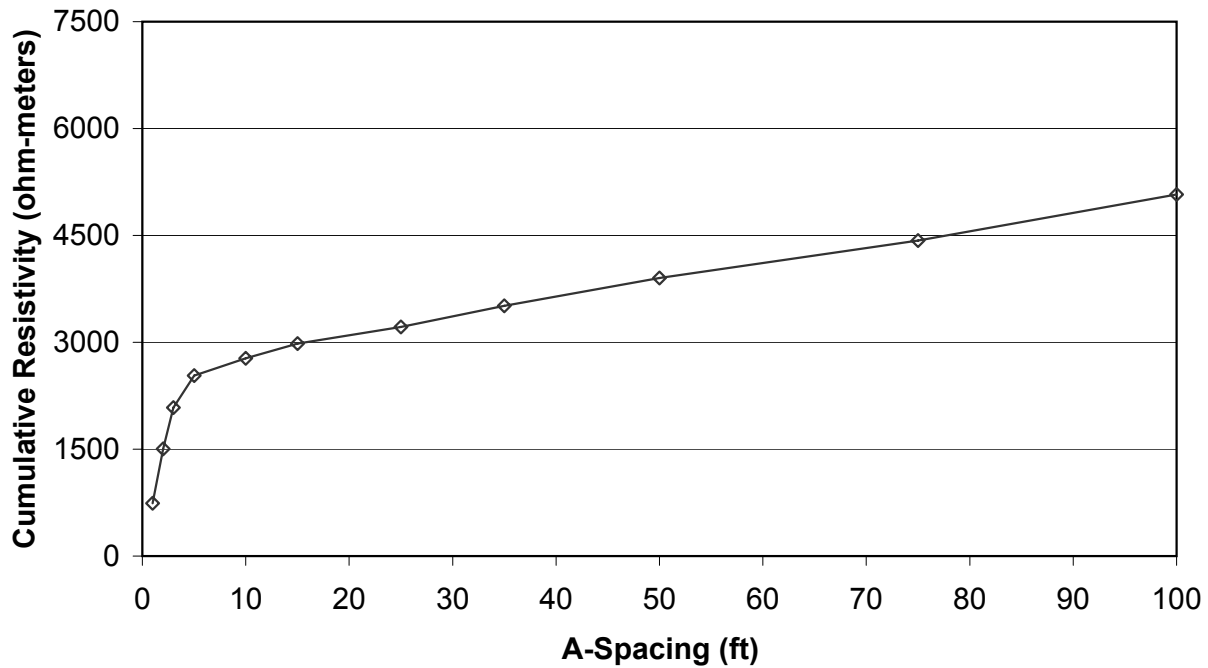
Geomean 418
 Min 205
 Max 762
 Median 448
 Std. Dev. 204



T-76B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2432.951264	741.5635453	0.045502	742
2	1	3	50	1249.605549	761.7595425	0.004287	1503
3	1.5	4.5	50	634.377155	580.0744705	0.036572	2083
5	2.5	7.5	50	294.2793927	448.4817945	0.013593	2532
10	5	15	50	80.15434364	244.3104394	0.020516	2776
15	7.5	22.5	100	44.91641831	205.3578645	0.022264	2982
25	12.5	37.5	50	30.86903809	235.2220702	0.044634	3217
35	17.5	52.5	50	27.76212862	296.1663881	0.036821	3513
50	25	75	50	25.46575005	388.0980308	0.010472	3901
75	37.5	112.5	50	23.06280866	527.215806	0.003854	4428
100	50	150	50	21.16867962	645.2213548	0.027295	5073

T-76B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt76b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 30/10/2013 15:04:48

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	367	-1.5	1	1	50	19.360811	2432.951246	0.045502
2	438	-3	2	2	50	9.944045	2499.211162	0.004287
3	514	-4.5	3	3	50	5.048213	1903.131251	0.036572
4	582	-7.5	5	5	50	2.341801	1471.397128	0.013593
5	662	-15	10	10	50	0.637848	801.544403	0.020516
7	823	-22.5	15	15	100	0.714867	673.746203	0.022264
8	926	-37.5	25	25	50	0.245648	771.727159	0.044634
9	1039	-52.5	35	35	50	0.220924	971.675428	0.036821
10	1180	-75	50	50	50	0.20265	1273.287344	0.010472
11	1322	-112.5	75	75	50	0.183528	1729.709696	0.003854
12	1447	-150	100	100	50	0.168455	2116.865474	0.027295
6	780	-22.5	15	15	100	0.004699	4.428815	4.212107
13	1485	-150	100	100	20	0.067723	2127.566638	0.151454



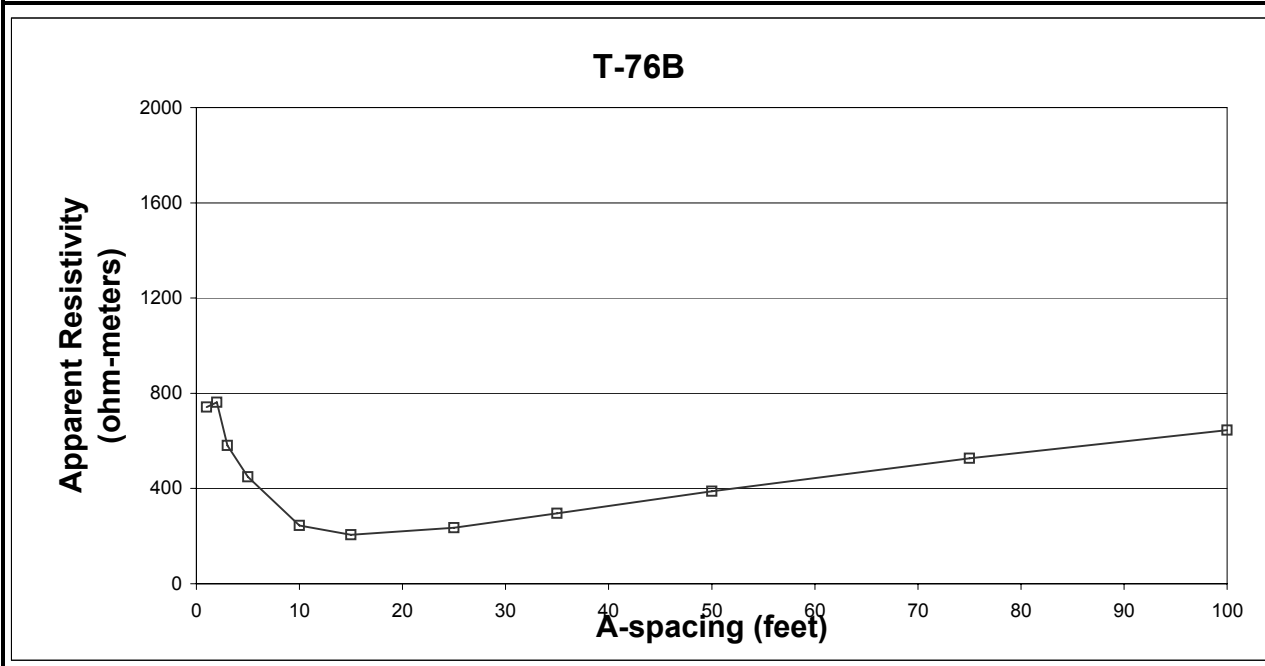
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.3**
 Spread No **T-76B**
 Orientation **306° (mag)**
No Outcrop, gravelly sandy silt, moist to Saturated

Date **10/30/2013**
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	50	19.361	387.2	741.6	0.0455
2	1.00	3.00	50	9.944	198.9	761.8	0.0043
3	1.50	4.50	50	5.048	101.0	580.1	0.0366
5	2.50	7.50	50	2.342	46.8	448.5	0.0136
10	5.00	15.00	50	0.638	12.8	244.3	0.0205
15	7.50	22.50	100	0.715	7.1	205.4	0.0223
25	12.50	37.50	50	0.246	4.9	235.2	0.0446
35	17.50	52.50	50	0.221	4.4	296.2	0.0368
50	25.00	75.00	50	0.203	4.1	388.1	0.0105
75	37.50	112.50	50	0.184	3.7	527.2	0.0039
100	50.00	150.00	50	0.168	3.4	645.2	0.0273

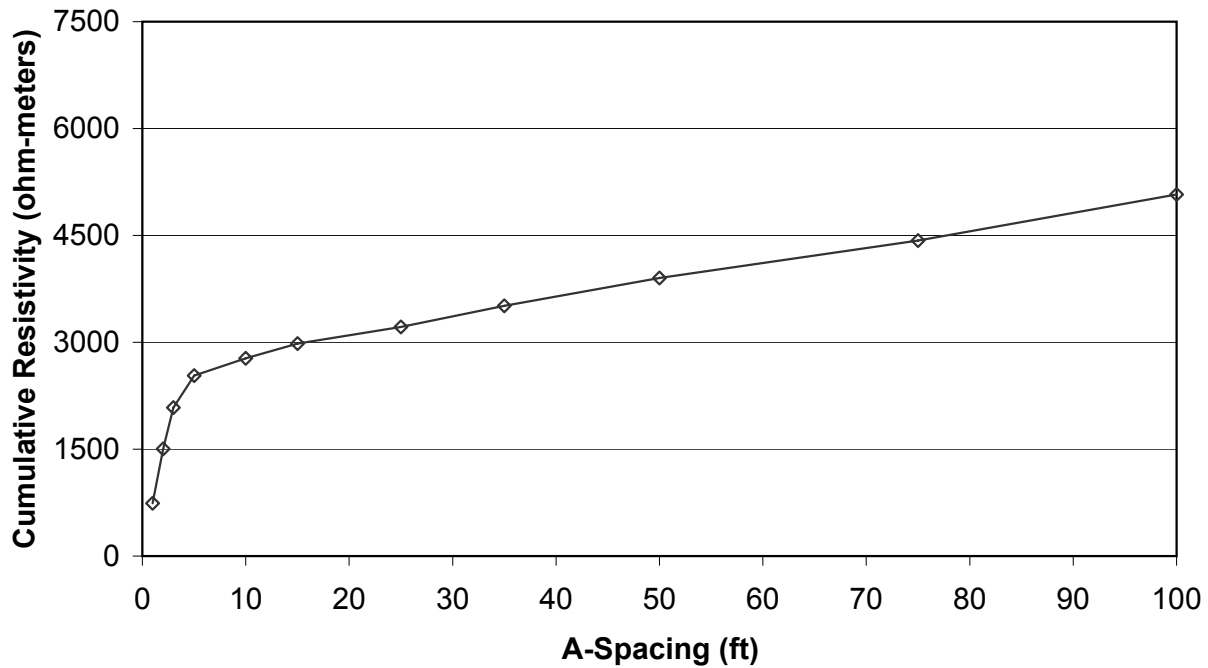
Geomean 418
 Min 205
 Max 762
 Median 448
 Std. Dev. 204



T-76B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	50	2432.951264	741.5635453	0.045502	742
2	1	3	50	1249.605549	761.7595425	0.004287	1503
3	1.5	4.5	50	634.377155	580.0744705	0.036572	2083
5	2.5	7.5	50	294.2793927	448.4817945	0.013593	2532
10	5	15	50	80.15434364	244.3104394	0.020516	2776
15	7.5	22.5	100	44.91641831	205.3578645	0.022264	2982
25	12.5	37.5	50	30.86903809	235.2220702	0.044634	3217
35	17.5	52.5	50	27.76212862	296.1663881	0.036821	3513
50	25	75	50	25.46575005	388.0980308	0.010472	3901
75	37.5	112.5	50	23.06280866	527.215806	0.003854	4428
100	50	150	50	21.16867962	645.2213548	0.027295	5073

T-76B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt76b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 30/10/2013 15:04:48

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	367	-1.5	1	1	50	19.360811	2432.951246	0.045502
2	438	-3	2	2	50	9.944045	2499.211162	0.004287
3	514	-4.5	3	3	50	5.048213	1903.131251	0.036572
4	582	-7.5	5	5	50	2.341801	1471.397128	0.013593
5	662	-15	10	10	50	0.637848	801.544403	0.020516
7	823	-22.5	15	15	100	0.714867	673.746203	0.022264
8	926	-37.5	25	25	50	0.245648	771.727159	0.044634
9	1039	-52.5	35	35	50	0.220924	971.675428	0.036821
10	1180	-75	50	50	50	0.20265	1273.287344	0.010472
11	1322	-112.5	75	75	50	0.183528	1729.709696	0.003854
12	1447	-150	100	100	50	0.168455	2116.865474	0.027295
6	780	-22.5	15	15	100	0.004699	4.428815	4.212107
13	1485	-150	100	100	20	0.067723	2127.566638	0.151454



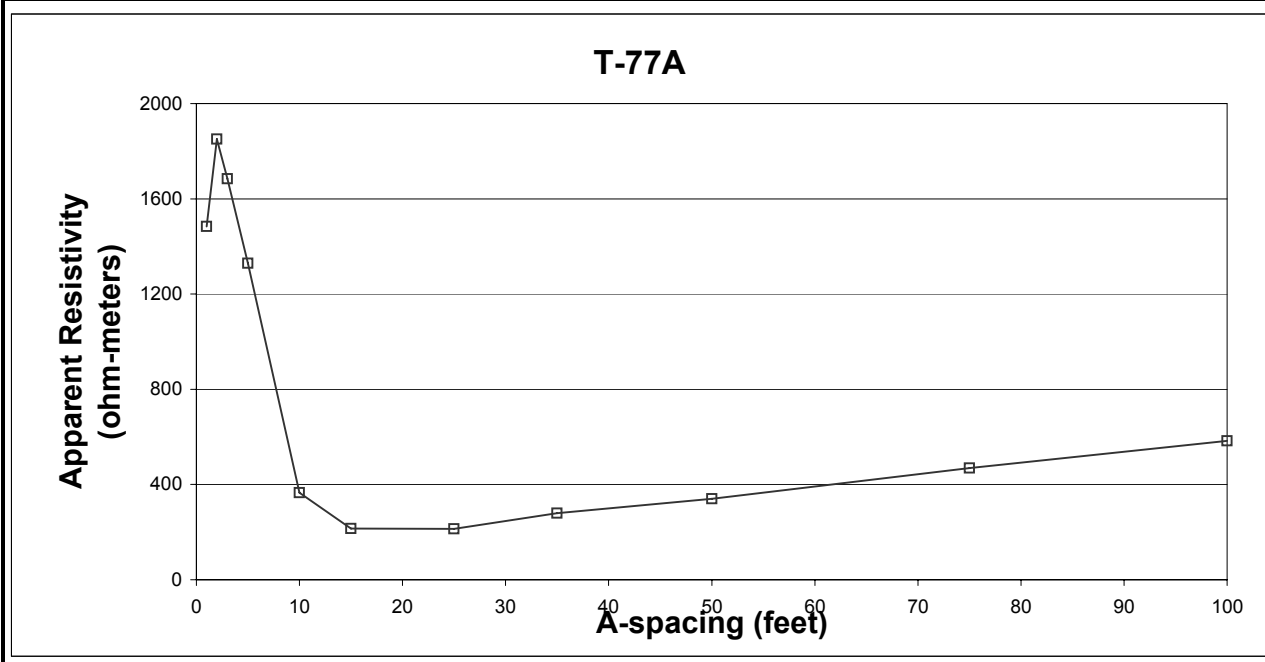
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-77A
 Orientation 319° (mag)
No Outcrop, gravelly sandy silt, moist

Date 10/31/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	15.491	774.5	1,483.3	0.0505
2	1.00	3.00	20	9.661	483.1	1,850.2	0.0647
3	1.50	4.50	20	5.865	293.2	1,684.8	0.0045
5	2.50	7.50	20	2.775	138.8	1,328.8	0.0163
10	5.00	15.00	20	0.382	19.1	365.6	0.0157
15	7.50	22.50	50	0.375	7.5	215.7	0.0085
25	12.50	37.50	50	0.223	4.5	213.5	0.0333
35	17.50	52.50	50	0.209	4.2	279.8	0.0813
50	25.00	75.00	50	0.177	3.5	339.6	0.0559
75	37.50	112.50	50	0.163	3.3	468.8	0.0022
100	50.00	150.00	100	0.305	3.0	583.9	0.0116

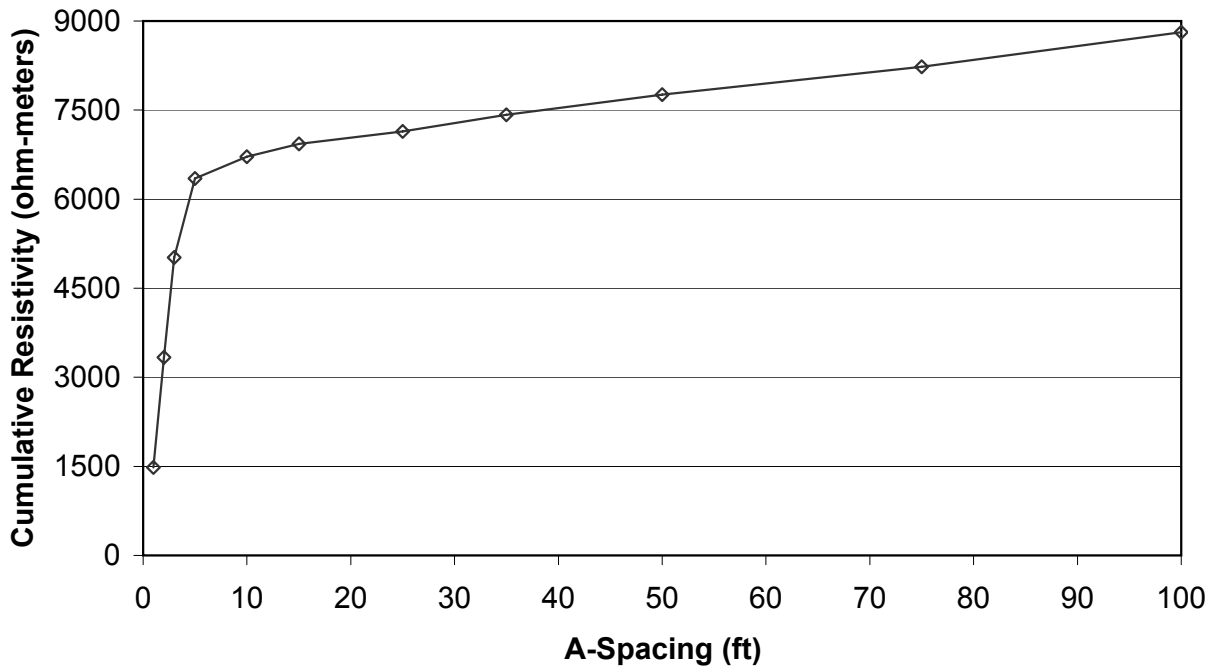
Geomean 584
 Min 213
 Max 1,850
 Median 469
 Std. Dev. 644



T-77A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4866.489755	1483.306077	0.05045	1483
2	1	3	20	3035.097375	1850.19536	0.064713	3334
3	1.5	4.5	20	1842.485029	1684.768311	0.004523	5018
5	2.5	7.5	20	871.9072578	1328.786661	0.016312	6347
10	5	15	20	119.9614013	365.6423512	0.015746	6713
15	7.5	22.5	50	47.1692544	215.6578311	0.00848	6928
25	12.5	37.5	50	28.01672328	213.4874314	0.033314	7142
35	17.5	52.5	50	26.22878007	279.8086258	0.081337	7422
50	25	75	50	22.28105475	339.5632743	0.055897	7761
75	37.5	112.5	50	20.5074372	468.8000143	0.002167	8230
100	50	150	100	19.15636386	583.8859705	0.011601	8814

T-77A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt77a.s4k
Instrument ID: SAS1000 2042452
Date & Time: 31/10/2013 07:15:21

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	27	-1.5	1	1	20	15.490518	4866.489622	0.05045
2	203	-3	2	2	20	9.661015	6070.194376	0.064713
3	268	-4.5	3	3	20	5.864812	5527.455099	0.004523
4	349	-7.5	5	5	20	2.775367	4359.535529	0.016312
5	477	-15	10	10	20	0.381849	1199.613243	0.015746
6	590	-22.5	15	15	50	0.375361	707.53947	0.00848
7	787	-37.5	25	25	50	0.22295	700.41795	0.033314
8	913	-52.5	35	35	50	0.208722	918.008226	0.081337
9	1043	-75	50	50	50	0.177307	1114.052948	0.055897
10	1201	-112.5	75	75	50	0.163193	1538.056548	0.002167
11	1449	-150	100	100	100	0.304883	1915.634759	0.011601
12	1518	-150	100	100	50	0.151366	1902.115055	0.006175



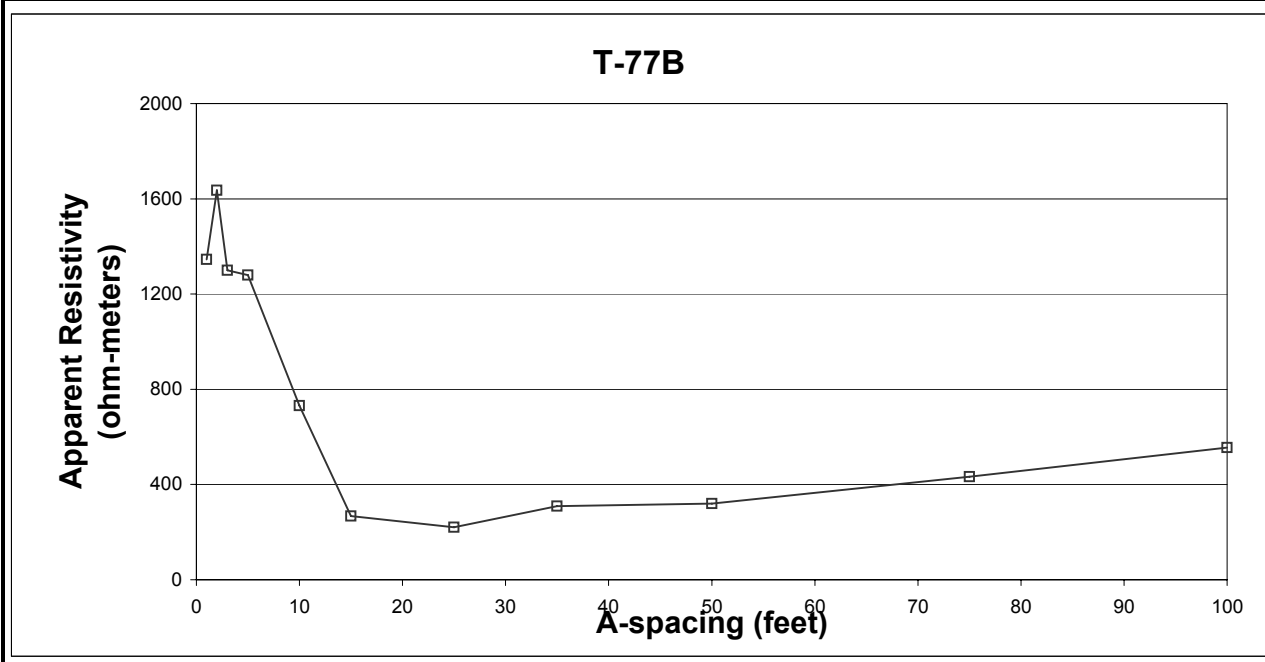
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.3
 Spread No T-77B
 Orientation 50° (mag)
No Outcrop, gravelly sandy silt, moist to Saturated

Date 10/31/2013
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Voltage (V)	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
1	0.50	1.50	20	14.046	702.3	1,344.9	0.0658
2	1.00	3.00	20	8.540	427.0	1,635.6	0.0782
3	1.50	4.50	50	11.311	226.2	1,299.7	0.0176
5	2.50	7.50	50	6.678	133.6	1,278.9	0.0583
10	5.00	15.00	20	0.763	38.2	731.0	0.0107
15	7.50	22.50	50	0.465	9.3	267.1	0.0152
25	12.50	37.50	50	0.231	4.6	221.0	0.0261
35	17.50	52.50	50	0.231	4.6	309.4	0.0153
50	25.00	75.00	100	0.335	3.3	320.6	0.0180
75	37.50	112.50	50	0.151	3.0	433.4	0.0091
100	50.00	150.00	50	0.145	2.9	554.5	0.0172

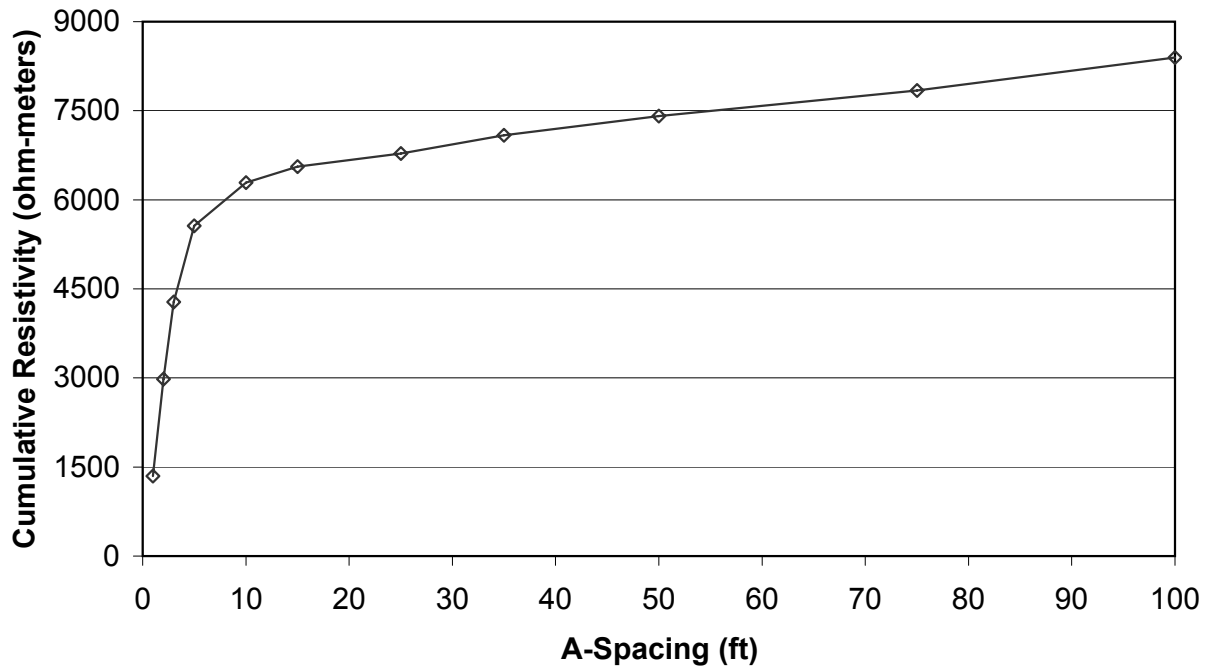
Geomean 602
 Min 221
 Max 1,636
 Median 554
 Std. Dev. 524



T-77B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
1	0.5	1.5	20	4412.531816	1344.939697	0.065756	1345
2	1	3	20	2682.997409	1635.555221	0.078197	2980
3	1.5	4.5	50	1421.403794	1299.73163	0.017587	4280
5	2.5	7.5	50	839.1950473	1278.933252	0.058311	5559
10	5	15	20	239.8354664	731.0185015	0.010656	6290
15	7.5	22.5	50	58.4106269	267.0533862	0.015218	6557
25	12.5	37.5	50	28.99979046	220.9784033	0.026054	6778
35	17.5	52.5	50	29.00632497	309.4394748	0.015323	7088
50	25	75	100	21.03428228	320.562462	0.01796	7408
75	37.5	112.5	50	18.959386	433.411564	0.009117	7842
100	50	150	50	18.19145509	554.4755512	0.017237	8396

T-77B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\PROGRA~1\SAS4000\Projects\bingham\rrbt77b.s4k
 Instrument ID: SAS1000 2042452
 Date & Time: 31/10/2013 08:01:22

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
1	42	-1.5	1	1	20	14.045525	4412.531785	0.065756
2	297	-3	2	2	20	8.540246	5365.994801	0.078197
3	410	-4.5	3	3	50	11.311172	4264.211278	0.017587
4	660	-7.5	5	5	50	6.678102	4195.975786	0.058311
5	811	-15	10	10	20	0.76342	2398.354274	0.010656
6	945	-22.5	15	15	50	0.464817	876.159223	0.015218
7	1238	-37.5	25	25	50	0.230773	724.994374	0.026054
8	1373	-52.5	35	35	50	0.230825	1015.22303	0.015323
10	1714	-75	50	50	100	0.334771	1051.71513	0.01796
11	1892	-112.5	75	75	50	0.150874	1421.95098	0.009117
12	2033	-150	100	100	50	0.144763	1819.150812	0.017237
9	1573	-52.5	35	35	50	0.199274	876.451585	0.039047
13	2088	-150	100	100	20	0.058139	1826.486506	0.182753

APPENDIX H

2012 FIELD SOIL RESISTIVITY



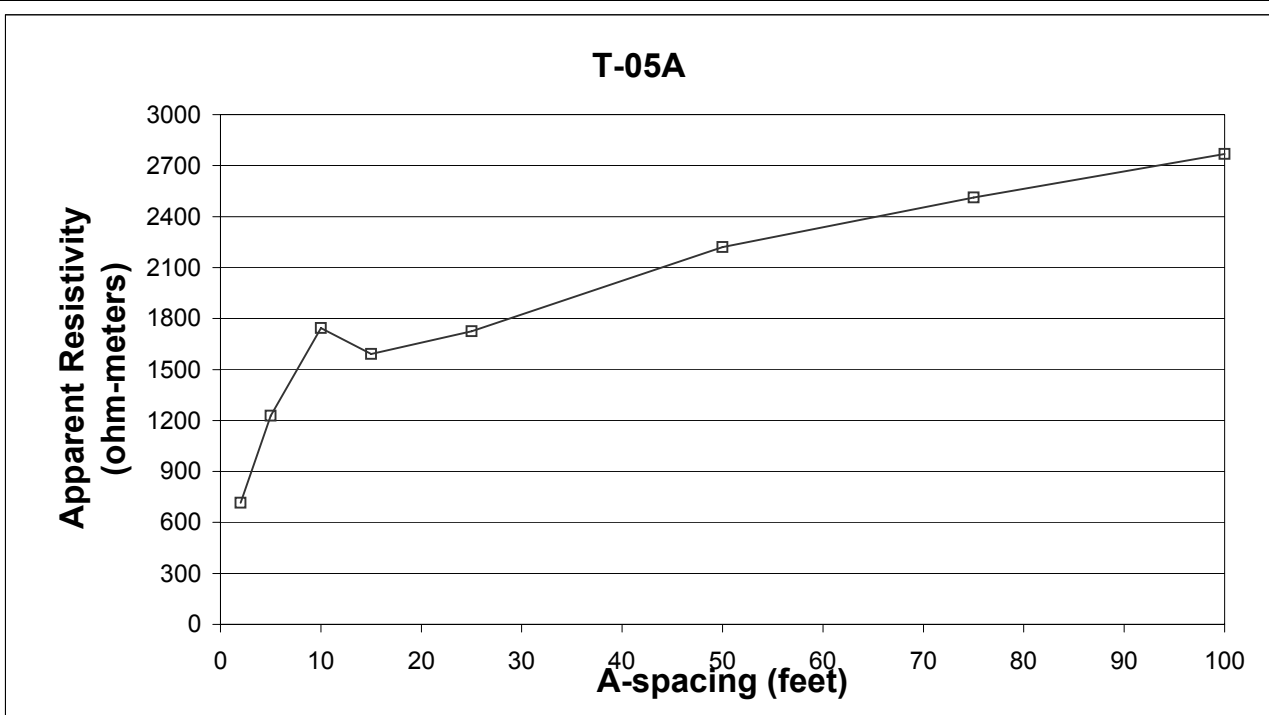
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.2**
 Spread No **T-05A**
 Orientation **N 53° E(mag)**

Date **11/06/2012**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

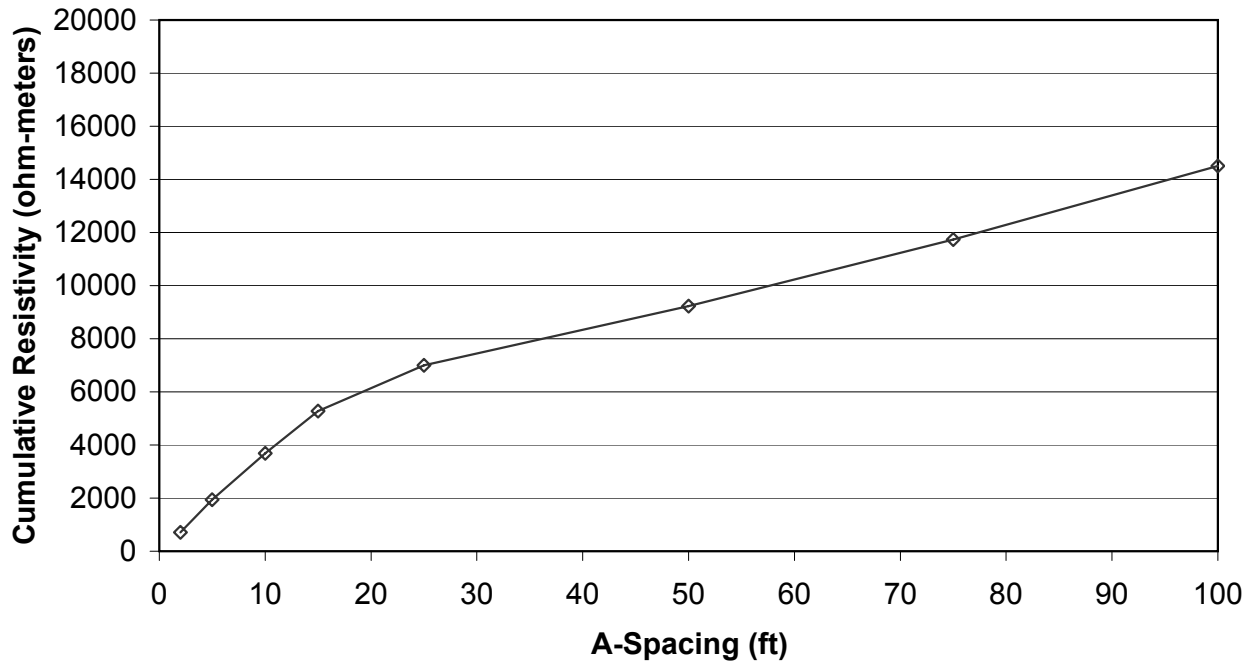
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	186.9	715.8	0.116392
5	2.50	7.50	20	128.2	1,228.0	0.053037
10	5.00	15.00	50	91.1	1,744.8	0.041683
15	7.50	22.50	20	55.4	1,591.9	0.031964
25	12.50	37.50	50	36.0	1,725.0	0.053487
50	25.00	75.00	50	23.2	2,220.8	0.053768
75	37.50	112.50	20	17.5	2,511.6	0.044570
100	50.00	150.00	20	14.5	2,767.7	0.014707

Geomean 1,685
 Min 716
 Max 2,768
 Median 1,735
 Std. Dev. 673



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	1174.190989	715.7868268	0.116392	716
5	2.5	7.5	20	805.7795599	1228.008049	0.053037	1944
10	5	15	50	572.4402788	1744.79797	0.041683	3689
15	7.5	22.5	20	348.1836563	1591.895676	0.031964	5280
25	12.5	37.5	50	226.3837949	1725.044517	0.053487	7006
50	25	75	50	145.7190053	2220.757641	0.053768	9226
75	37.5	112.5	20	109.8684066	2511.591775	0.04457	11738
100	50	150	20	90.80522238	2767.743178	0.014707	14506

T-05A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\SAS4000\Data\rbt05a.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	0	-3	2	2	20	3.737566	2348.382118	0.116392
2	0	-7.5	5	5	20	2.564876	4028.896996	0.053037
3	0	-15	10	10	50	4.555335	5724.402126	0.041683
4	0	-22.5	15	15	20	1.108303	5222.755893	0.031964
5	0	-37.5	25	25	50	1.801505	5659.595152	0.053487
6	0	-75	50	50	50	1.159595	7285.947949	0.053768
7	0	-112.5	75	75	20	0.349722	8240.131936	0.04457
8	0	-150	100	100	20	0.289042	9080.520914	0.014707
9	0	-150	100	100	50	0.722339	9077.185105	0.045119



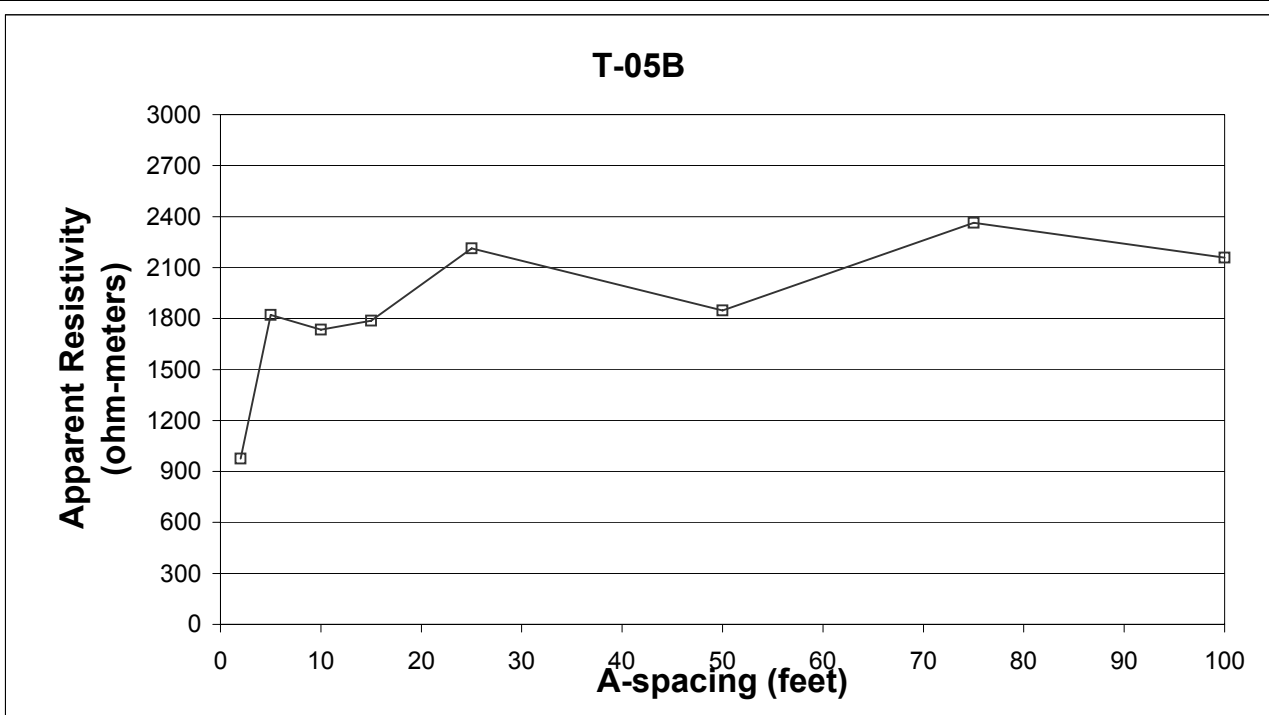
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No T-05B
 Orientation S 36° E(mag)

Date 11/06/2012
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

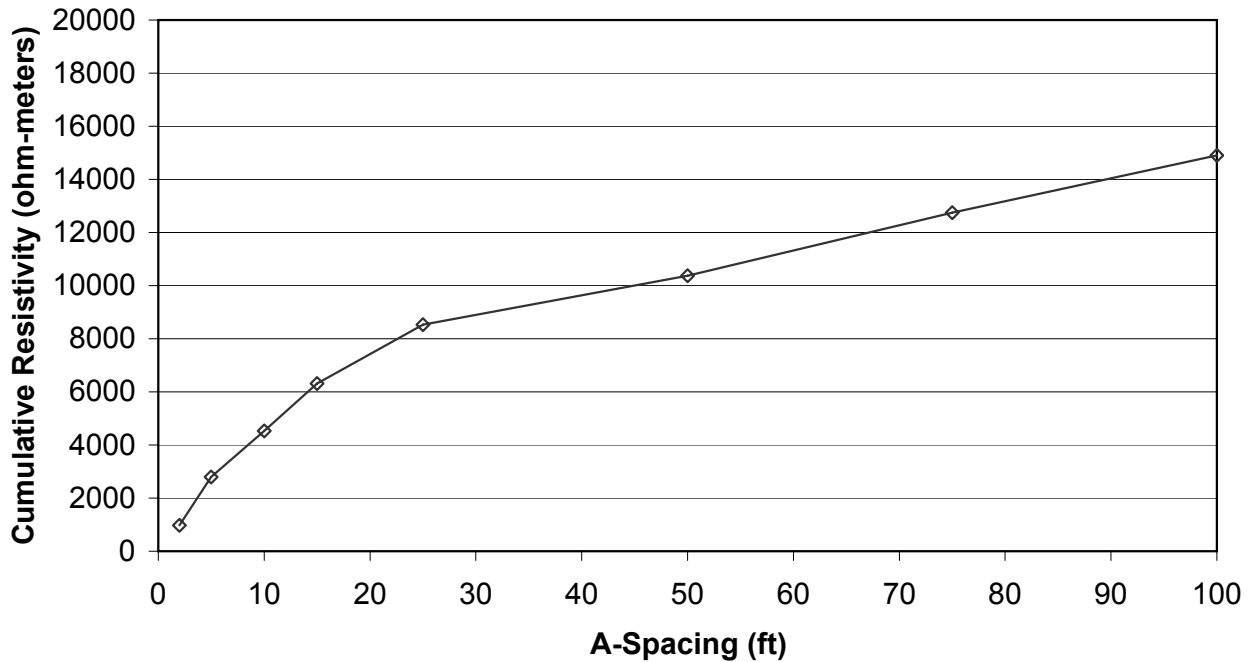
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	50	254.5	974.7	0.027612
5	2.50	7.50	20	190.2	1,821.3	0.023467
10	5.00	15.00	20	90.6	1,734.9	0.050053
15	7.50	22.50	20	62.2	1,787.3	0.045551
25	12.50	37.50	50	46.2	2,211.9	0.055823
50	25.00	75.00	20	19.3	1,848.0	0.029369
75	37.50	112.50	20	16.5	2,363.4	0.043059
100	50.00	150.00	20	11.3	2,158.7	0.056571

Geomean 1,809
 Min 975
 Max 2,363
 Median 1,835
 Std. Dev. 426



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	50	1598.85477	974.6618681	0.027612	975
5	2.5	7.5	20	1195.105199	1821.340324	0.023467	2796
10	5	15	20	569.2078941	1734.945661	0.050053	4531
15	7.5	22.5	20	390.9152854	1787.264685	0.045551	6318
25	12.5	37.5	50	290.2782603	2211.920344	0.055823	8530
50	25	75	20	121.2604499	1848.009256	0.029369	10378
75	37.5	112.5	20	103.3869868	2363.426518	0.043059	12742
100	50	150	20	70.82280815	2158.679192	0.056571	14900

T-05B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\SAS4000\Data\rbt05b.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1		0 -3	2	2	50	12.723282	3197.709506	0.027612
2		0 -7.5	5	5	20	3.804138	5975.525806	0.023467
3		0 -15	10	10	20	1.811845	5692.080192	0.050053
4		0 -22.5	15	15	20	1.244322	5863.730964	0.045551
5		0 -37.5	25	25	50	2.309961	7256.956911	0.055823
6		0 -75	50	50	20	0.385984	6063.019516	0.029369
7		0 -112.5	75	75	20	0.329091	7754.029303	0.043059
8		0 -150	100	100	20	0.225436	7082.284436	0.056571
9		0 -150	100	100	20	0.225406	7081.340079	0.075438



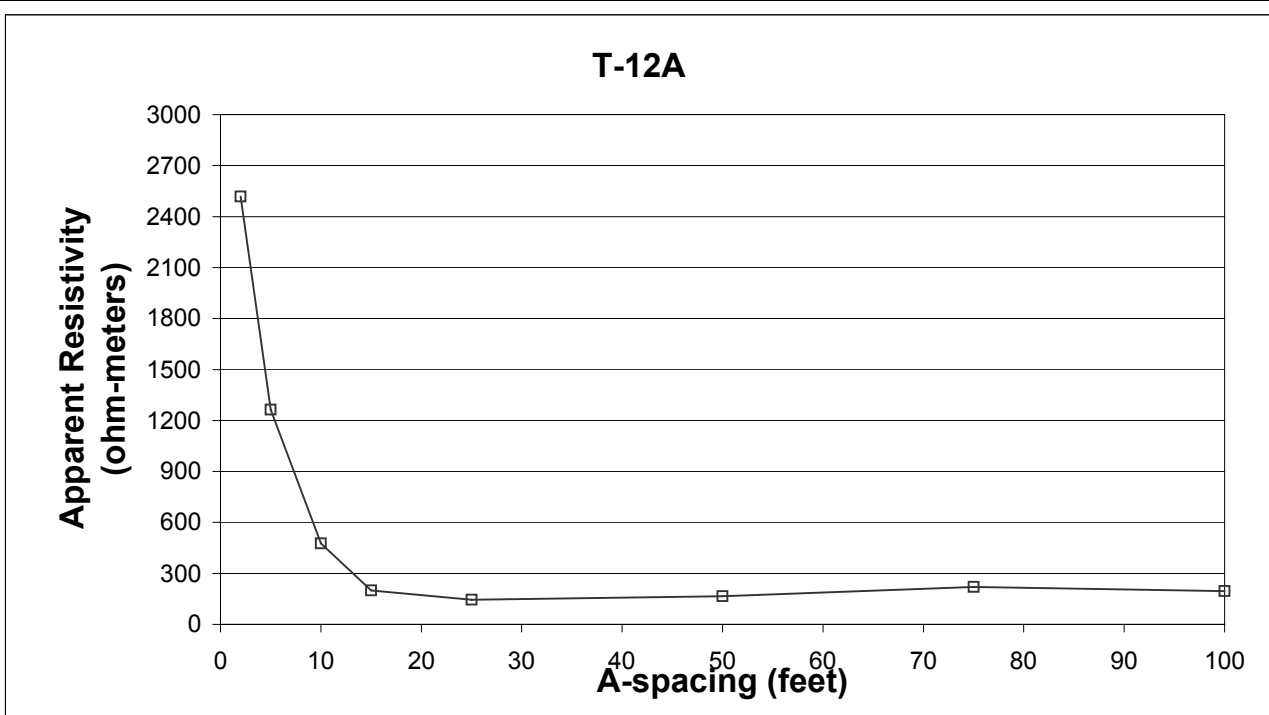
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.2**
 Spread No **T-12A**
 Orientation **N 90° E(mag)**

Date **11/06/2012**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

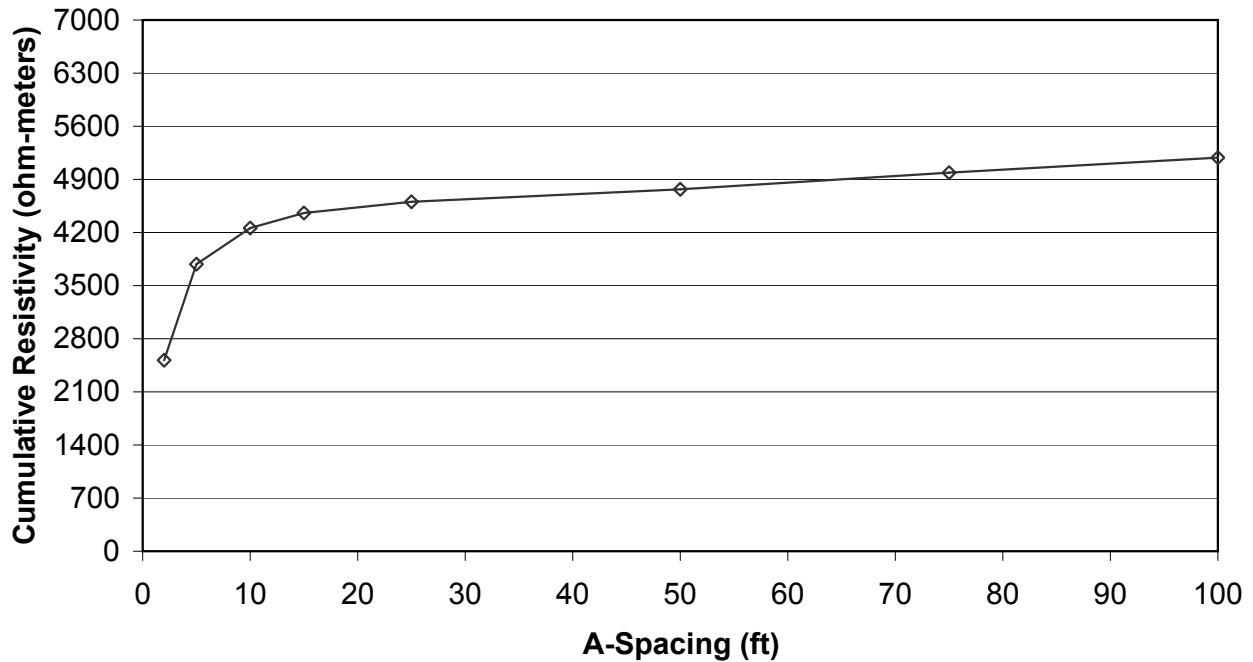
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	657.3	2,517.6	0.120260
5	2.50	7.50	20	132.0	1,263.7	0.448282
10	5.00	15.00	50	24.9	477.1	0.425481
15	7.50	22.50	20	7.0	199.8	0.0000
25	12.50	37.50	20	3.0	144.7	0.633796
50	25.00	75.00	20	1.7	165.0	0.627804
75	37.50	112.50	50	1.5	221.2	0.812232
100	50.00	150.00	20	1.0	196.5	1.299149

Geomean 365
 Min 145
 Max 2,518
 Median 210
 Std. Dev. 843



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	4129.941158	2517.61213	0.12026	2518
5	2.5	7.5	20	829.2023322	1263.704354	0.448282	3781
10	5	15	50	156.5223141	477.0800135	0.425481	4258
15	7.5	22.5	20	43.69107151	199.7555789	0.0000	4458
25	12.5	37.5	20	18.99218423	144.7204438	0.633796	4603
50	25	75	20	10.82624244	164.9919348	0.627804	4768
75	37.5	112.5	50	9.677739001	221.2331136	0.812232	4989
100	50	150	20	6.447176444	196.509938	1.299149	5186

T-12A CUMULATIVE APPARENT RESISTIVITY



Filename: C:\SAS4000\Data\rbt12a.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmFT)	Error(%)
1		0 -3	2	2	20	13.146011	8259.882921	0.12026
2		0 -7.5	5	5	20	2.639433	4146.011635	0.448282
3		0 -15	10	10	50	1.245565	1565.222943	0.425481
4		0 -22.5	15	15	20	0.139073	655.36405	0.608426
5		0 -37.5	25	25	20	0.060454	474.807426	0.633796
6		0 -75	50	50	20	0.034461	541.318676	0.627804
7		0 -112.5	75	75	50	0.077013	725.833101	0.812232
10		0 -150	100	100	20	0.020522	644.7131	1.299149
8		0 -150	100	100	20	0.02455	771.26292	5.025754
9		0 -150	100	100	20	0.021857	686.661483	2.060576
11		0 -150	100	100	20	0.017787	558.797256	1.658442
12		0 -150	100	100	20	0.01226	385.152391	2.106627



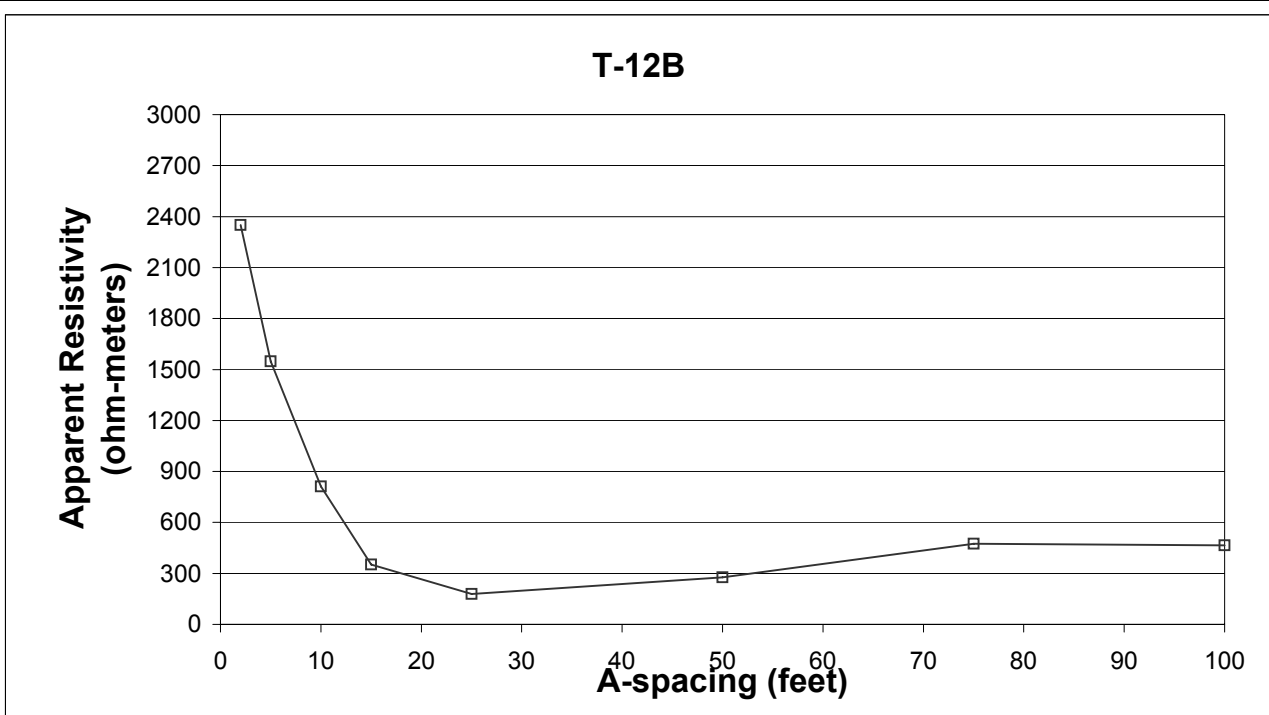
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No T-12B
 Orientation N 04° W(mag)

Date 11/06/2012
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

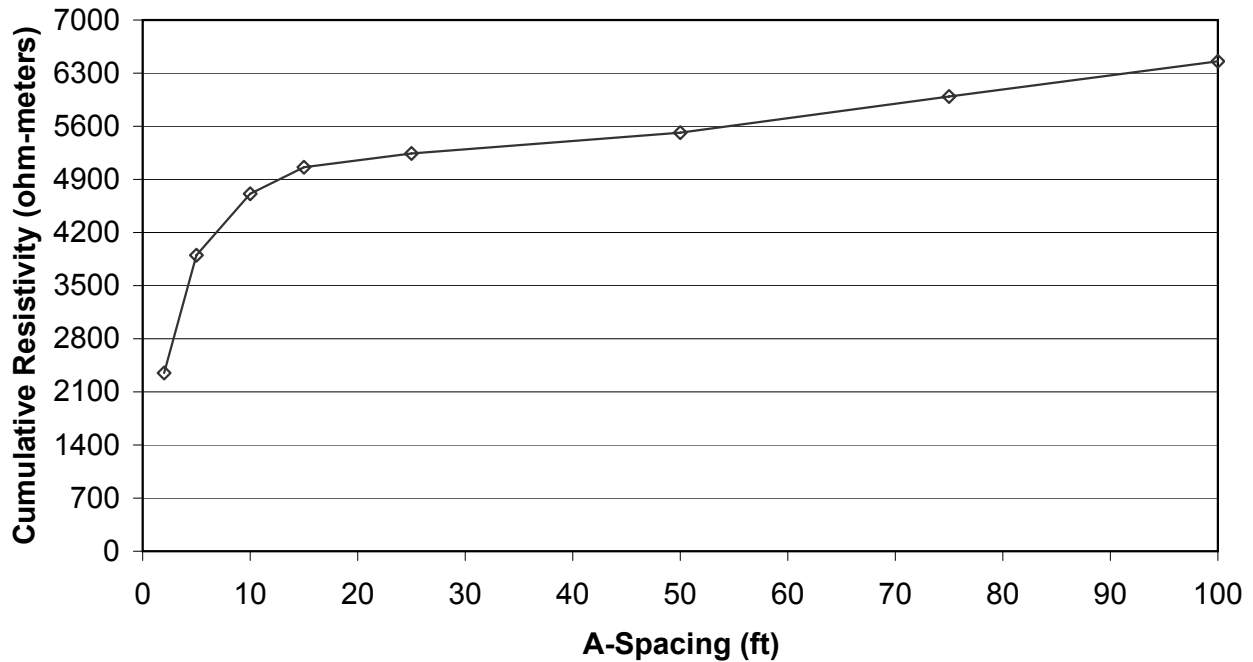
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	613.6	2,350.1	0.023857
5	2.50	7.50	50	161.7	1,548.6	0.004381
10	5.00	15.00	20	42.3	811.0	0.537088
15	7.50	22.50	50	12.3	351.9	0.0000
25	12.50	37.50	20	3.7	178.6	0.493523
50	25.00	75.00	20	2.9	277.3	0.506520
75	37.50	112.50	20	3.3	474.5	0.104661
100	50.00	150.00	20	2.4	465.7	0.633999

Geomean 571
 Min 179
 Max 2,350
 Median 470
 Std. Dev. 760



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	3855.227416	2350.146633	0.023857	2350
5	2.5	7.5	50	1016.123137	1548.57166	0.004381	3899
10	5	15	20	266.0633668	810.961142	0.537088	4710
15	7.5	22.5	50	76.97429789	351.9264899	0.0000	5062
25	12.5	37.5	20	23.43753783	178.5940383	0.493523	5240
50	25	75	20	18.19359138	277.2703326	0.50652	5517
75	37.5	112.5	20	20.75556018	474.4721058	0.104661	5992
100	50	150	20	15.27725092	465.6506079	0.633999	6458

**T-12B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\SAS4000\Data\rbt12b.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmFT)	Error(%)
1		0 -3	2	2	20	12.27157	7710.454722	0.023857
2		0 -7.5	5	5	50	8.086051	5080.615316	0.004381
3		0 -15	10	10	20	0.846906	2660.63359	0.537088
4		0 -22.5	15	15	50	0.612542	1154.614756	0.016193
5		0 -37.5	25	25	20	0.074604	585.937443	0.493523
6		0 -75	50	50	20	0.057912	909.685511	0.50652
7		0 -112.5	75	75	20	0.066067	1556.663068	0.104661
8		0 -150	100	100	20	0.048629	1527.727419	0.633999
9		0 -150	100	100	20	0.048746	1531.393394	0.007312



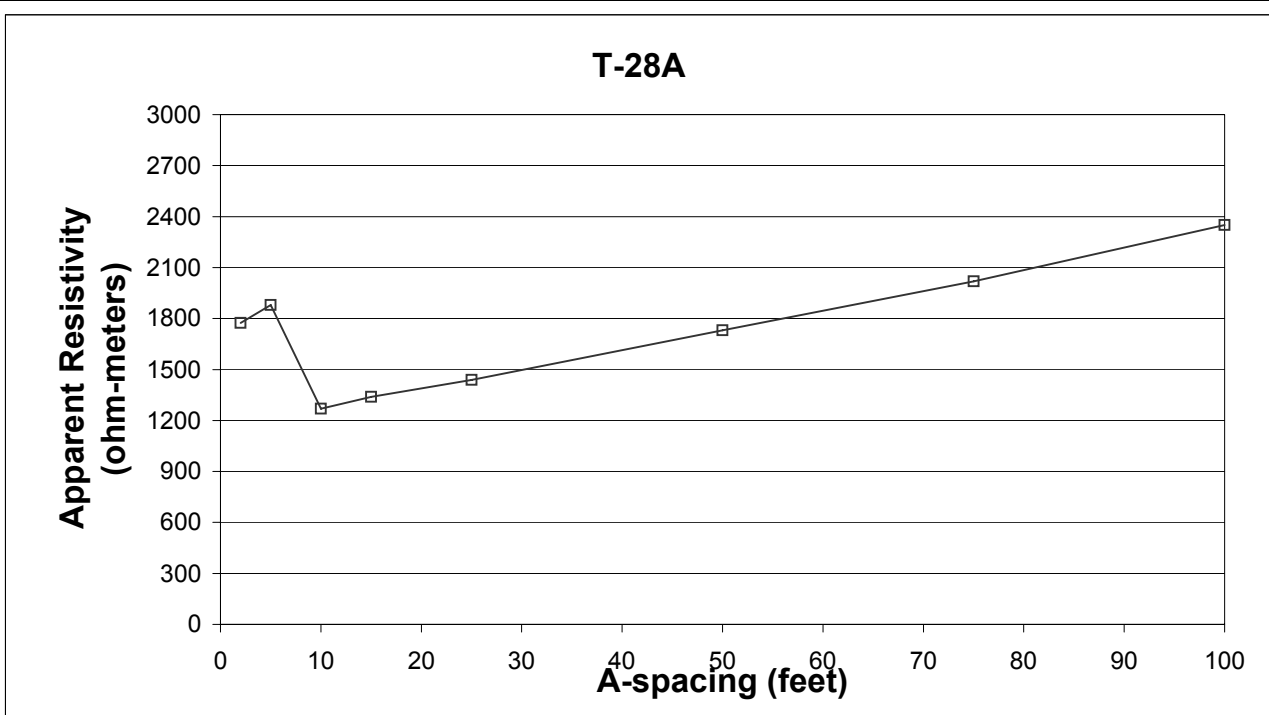
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number **10-0014.2**
 Spread No **T-28A**
 Orientation **n 70° W (mag)**

Date **11/02/2012**
 lat/long: Mid point
C1 Max **See GPS Coordinates**
C2 Max

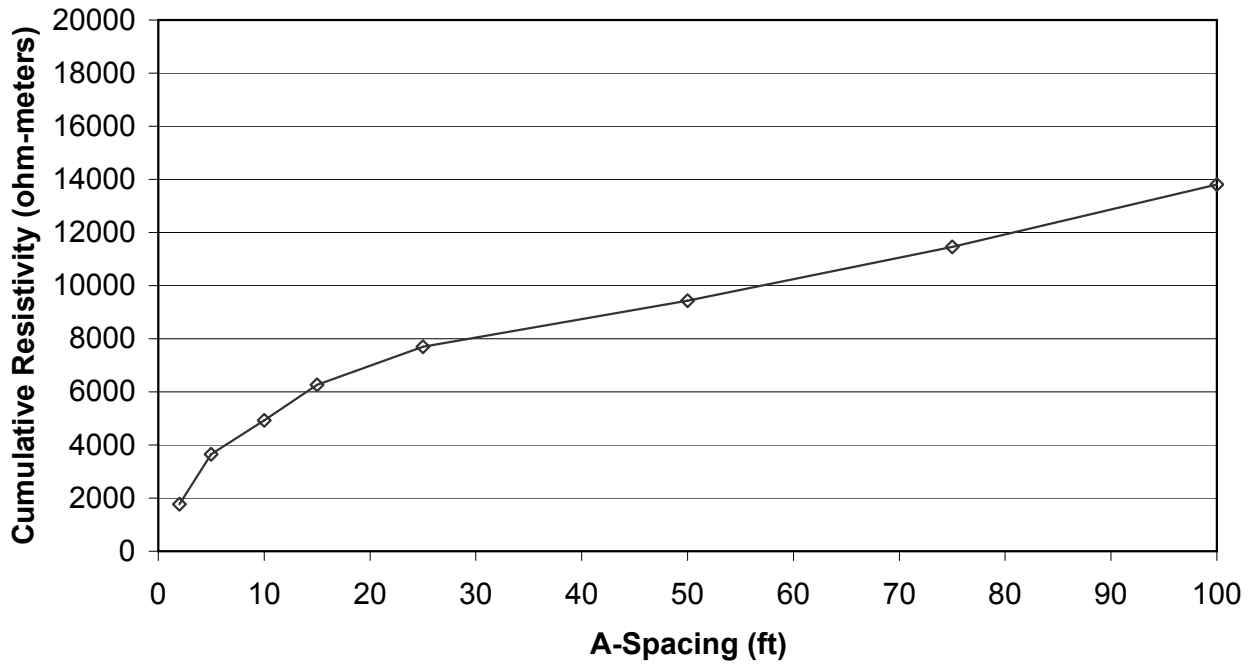
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	463.2	1,774.0	0.030678
5	2.50	7.50	20	196.3	1,879.5	0.018470
10	5.00	15.00	20	66.3	1,269.6	0.011737
15	7.50	22.50	50	46.6	1,338.7	0.173807
25	12.50	37.50	50	30.1	1,439.5	0.172686
50	25.00	75.00	50	18.1	1,731.4	0.235901
75	37.50	112.50	50	14.1	2,019.5	0.319981
100	50.00	150.00	20	12.3	2,350.3	0.200299

Geomean 1,692
 Min 1,270
 Max 2,350
 Median 1,753
 Std. Dev. 367



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	2910.102514	1773.998493	0.030678	1774
5	2.5	7.5	20	1233.284032	1879.524865	0.01847	3654
10	5	15	20	416.535916	1269.601472	0.011737	4923
15	7.5	22.5	50	292.7956813	1338.661855	0.173807	6262
25	12.5	37.5	50	188.914145	1439.525785	0.172686	7701
50	25	75	50	113.6090381	1731.401741	0.235901	9433
75	37.5	112.5	50	88.34032878	2019.459916	0.319981	11452
100	50	150	20	77.10819257	2350.257709	0.200299	13802

T-28A
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\SAS4000\Data\rt28a-.s4k
Instrument ID: SAS1000 2042452

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	163	-3	2	2	20	9.263144	5820.204595	0.030678
2	442	-7.5	5	5	20	3.925665	6166.419648	0.01847
3	571	-15	10	10	20	1.325875	4165.360406	0.011737
4	708	-22.5	15	15	50	2.329994	4391.93596	0.173807
5	1048	-37.5	25	25	50	1.503331	4722.853905	0.172686
6	1239	-75	50	50	50	0.904072	5680.451299	0.235901
7	1485	-112.5	75	75	50	0.70299	6625.525178	0.319981
8	1764	-150	100	100	20	0.245443	7710.82827	0.200299
9	1863	-150	100	100	10	0.123178	7739.505921	0.445055



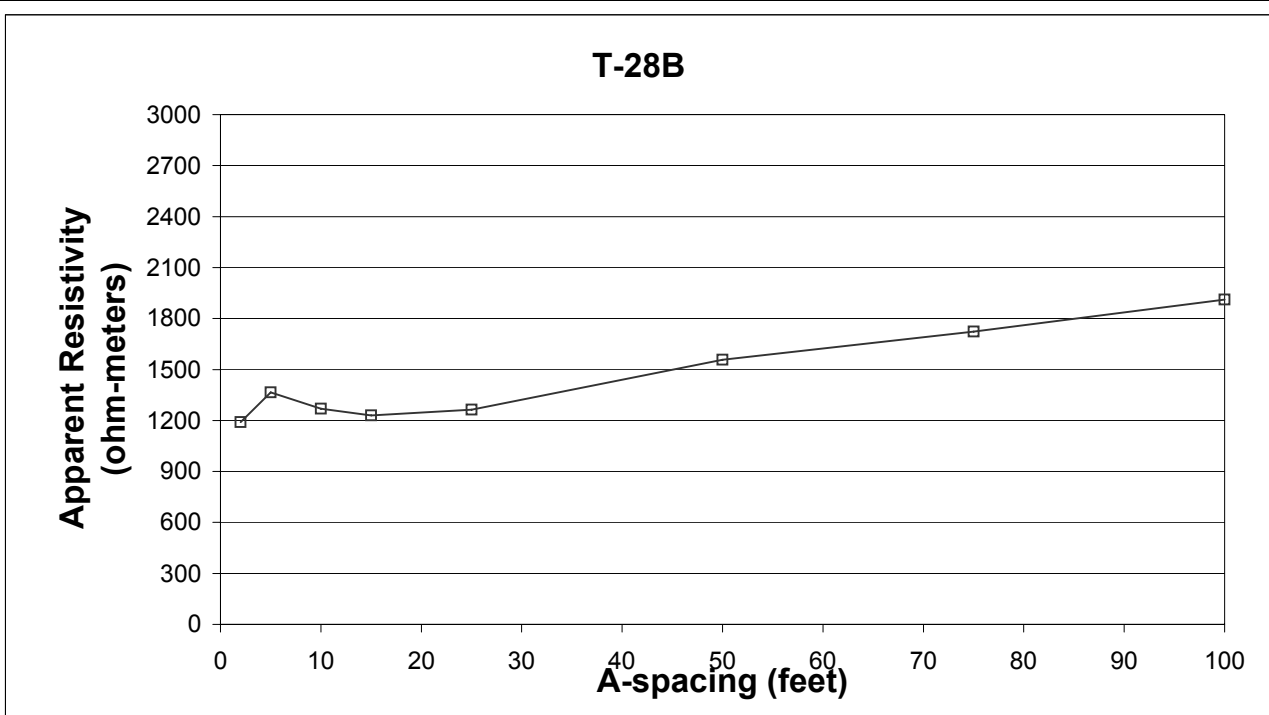
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No T-28B
 Orientation N 50° E(mag)
Manual Calculations - Electronic lost

Date 11/02/2012
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

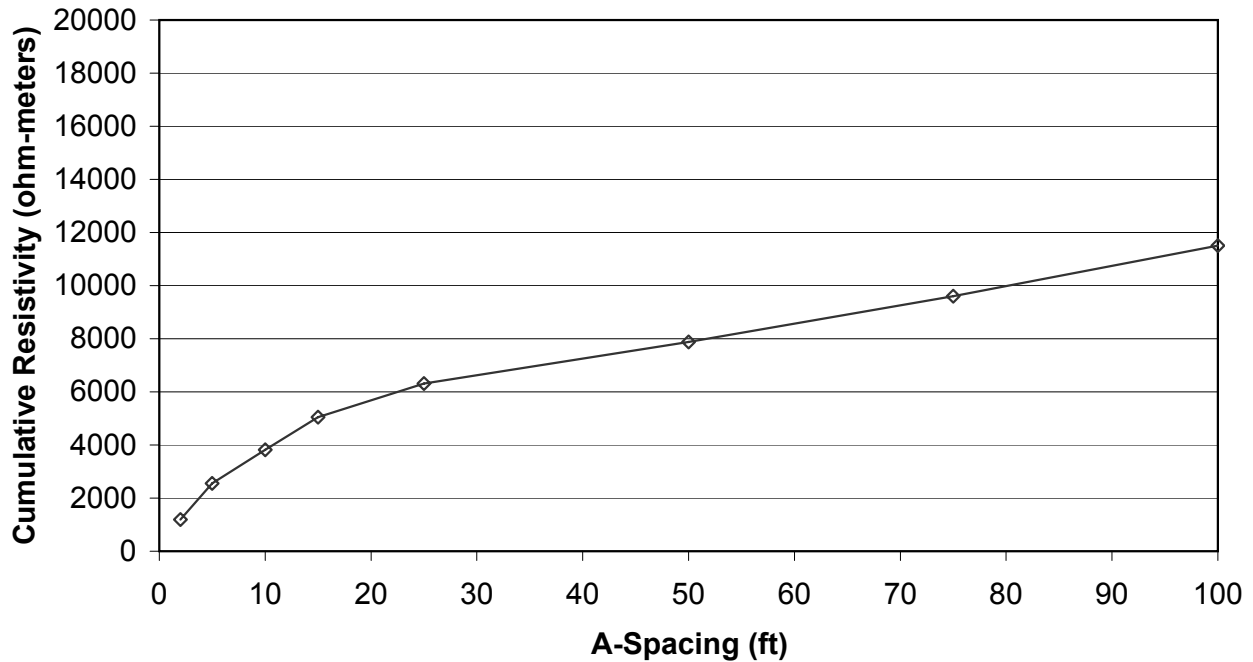
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	100	310.5	1,189.4	0.005000
5	2.50	7.50	50	142.6	1,365.6	0.024000
10	5.00	15.00	50	66.2	1,268.4	0.008000
15	7.50	22.50	100	42.8	1,229.9	0.036000
25	12.50	37.50	100	26.4	1,263.5	0.039000
50	25.00	75.00	20	16.3	1,556.9	0.117000
75	37.50	112.50	50	12.0	1,724.0	0.027000
100	50.00	150.00	50	10.0	1,912.1	0.028000

Geomean 1,419
 Min 1,189
 Max 1,912
 Median 1,317
 Std. Dev. 265



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	100	1951.117533	1189.401248	0.005	1189
5	2.5	7.5	50	896.0450567	1365.572666	0.024	2555
10	5	15	50	416.1479293	1268.418888	0.008	3823
15	7.5	22.5	100	269.0082957	1229.905928	0.036	5053
25	12.5	37.5	100	165.8132603	1263.497043	0.039	6317
50	25	75	20	102.1583099	1556.892643	0.117	7874
75	37.5	112.5	50	75.41707324	1724.034294	0.027	9598
100	50	150	50	62.73132211	1912.050698	0.028	11510

T-28B
CUMULATIVE APPARENT RESISTIVITY

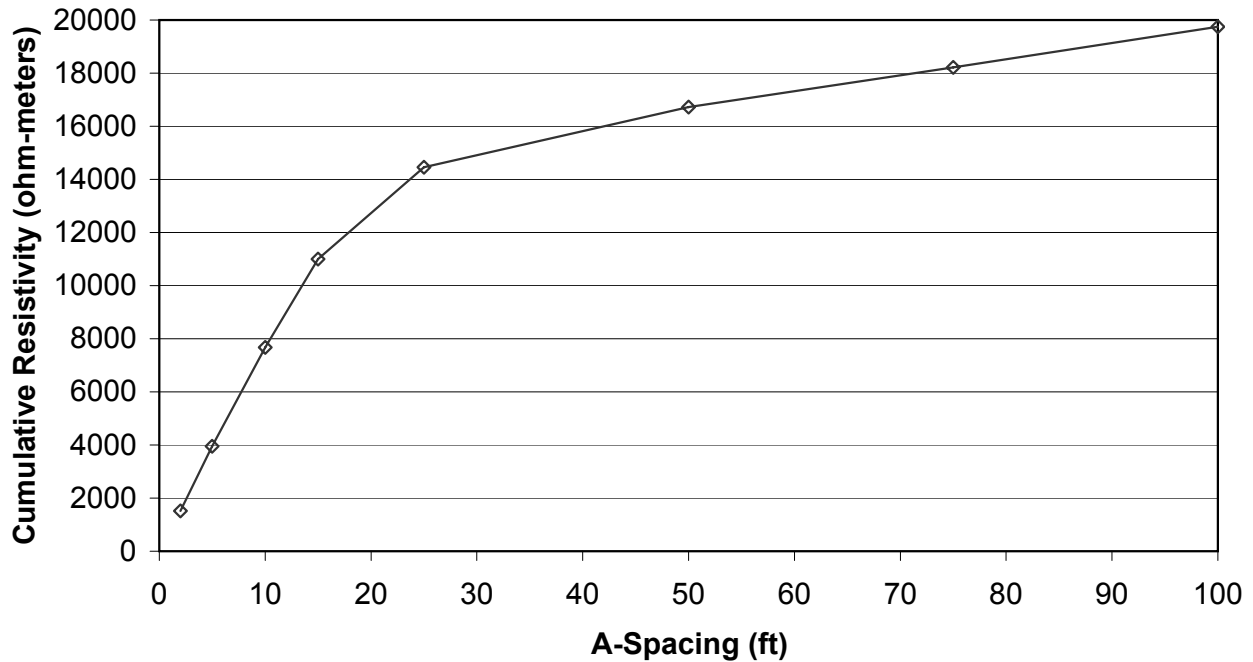


Filename: C:\SAS4000\Data\rt28b-.s4k
Instrument ID: SAS1000 2042452

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm-ft)	Error(%)
		-3	2	2	100	31.053	3902.235067	0.005
		-7.5	5	5	50	7.1305	4480.225283	0.024
		-15	10	10	50	3.3116	4161.479293	0.008
		-22.5	15	15	100	4.2814	4035.124436	0.036
		-37.5	25	25	100	2.639	4145.331506	0.039
		-75	50	50	20	0.32518	5107.915495	0.117
		-112.5	75	75	50	0.60015	5656.280493	0.027
		-150	100	100	50	0.4992	6273.132211	0.028
		-150	100	100	20	0.201	6314.601234	0.1

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	50	2484.716669	1514.683281	0.015809	1515
5	2.5	7.5	50	1598.64353	2436.332739	0.024572	3951
10	5	15	50	1220.71785	3720.748008	0.021941	7672
15	7.5	22.5	100	727.6581409	3326.85302	0.026992	10999
25	12.5	37.5	50	454.1180977	3460.379905	0.013311	14459
50	25	75	100	148.3835786	2261.365737	0.042833	16720
75	37.5	112.5	20	65.55152983	1498.507972	0.169505	18219
100	50	150	100	50.17802052	1529.426065	0.049159	19748

**T-36A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\SAS4000\Data\rt36a-.s4k
Instrument ID: SAS1000 2042452

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	70	-3	2	2	50	19.772747	4969.433156	0.015809
2	207	-7.5	5	5	50	12.721601	7993.218194	0.024572
3	401	-15	10	10	50	9.714164	12207.17847	0.021941
4	936	-22.5	15	15	100	11.581039	10914.87252	0.026992
5	1150	-37.5	25	25	50	3.613757	11352.95107	0.013311
6	1389	-75	50	50	100	2.361598	7419.180173	0.042833
7	1623	-112.5	75	75	20	0.208657	4916.369177	0.169505
8	1919	-150	100	100	100	0.798608	5017.801559	0.049159
9	1974	-150	100	100	50	0.39806	5002.16634	0.075524



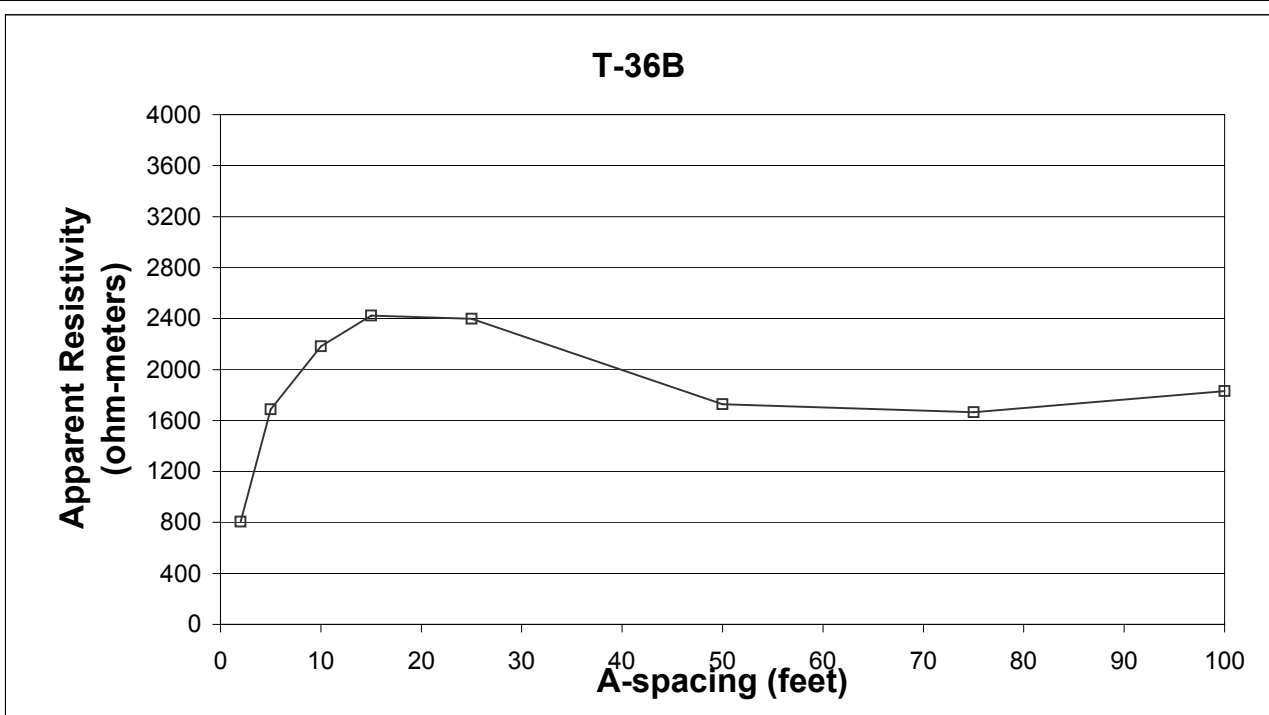
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No T-36B
 Orientation N 70° E(mag)

Date 11/02/2012
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

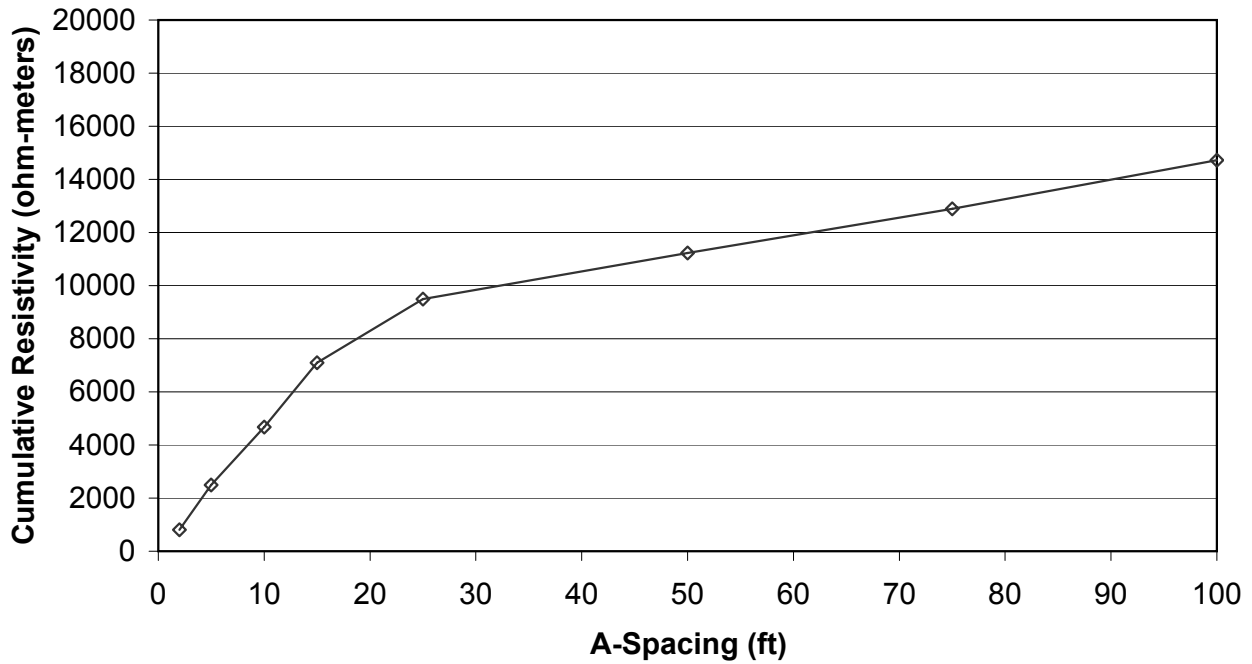
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	100	210.4	806.1	0.013504
5	2.50	7.50	50	176.1	1,686.5	0.059699
10	5.00	15.00	100	114.0	2,182.4	0.003741
15	7.50	22.50	100	84.3	2,423.0	0.047425
25	12.50	37.50	100	50.1	2,398.9	0.092471
50	25.00	75.00	50	18.1	1,728.8	0.307177
75	37.50	112.50	20	11.6	1,665.9	0.405577
100	50.00	150.00	50	9.6	1,829.7	0.647105

Geomean 1,757
 Min 806
 Max 2,423
 Median 1,779
 Std. Dev. 522



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	100	1322.279195	806.0613972	0.013504	806
5	2.5	7.5	50	1106.631793	1686.506852	0.059699	2493
10	5	15	100	715.9983711	2182.363035	0.003741	4675
15	7.5	22.5	100	529.9676426	2423.012062	0.047425	7098
25	12.5	37.5	100	314.8179317	2398.912639	0.092471	9497
50	25	75	50	113.4365019	1728.772289	0.307177	11226
75	37.5	112.5	20	72.87426815	1665.90577	0.405577	12892
100	50	150	50	60.02917543	1829.689267	0.647105	14721

T-36B
CUMULATIVE APPARENT RESISTIVITY

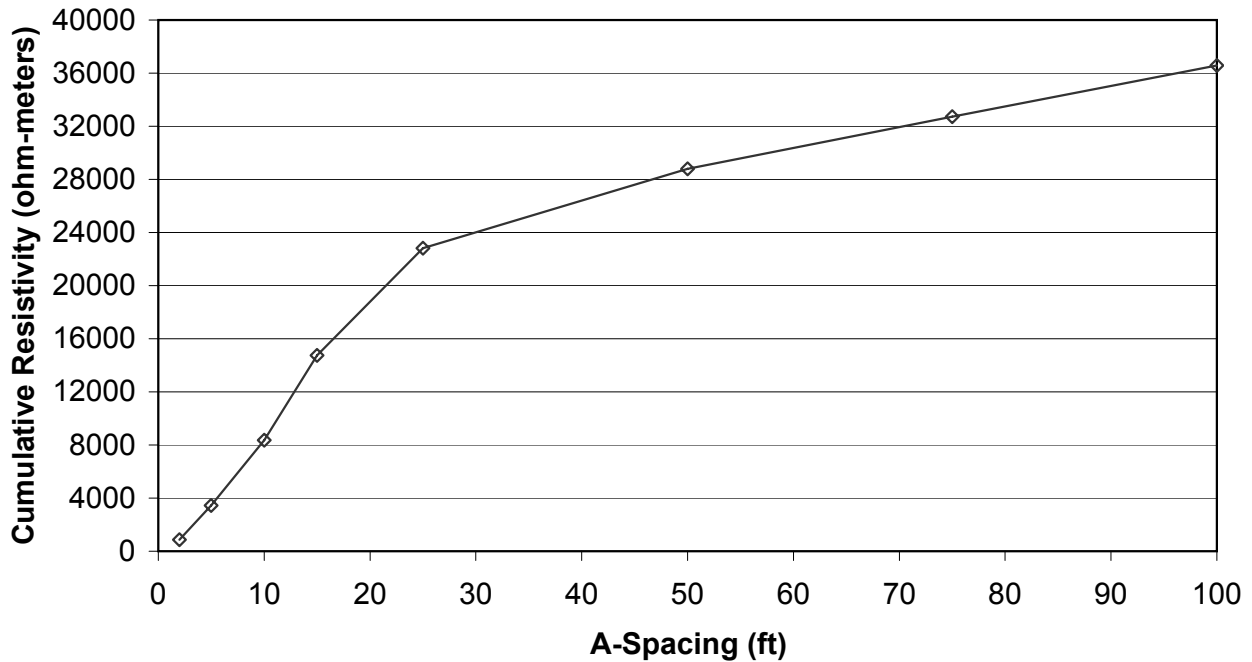


Filename: C:\SAS4000\Data\rt36b-.s4k
Instrument ID: SAS1000 2042452

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1	37	-3	2	2	100	21.044727	2644.558335	0.013504
2	172	-7.5	5	5	50	8.806296	5533.158823	0.059699
3	311	-15	10	10	100	11.395468	7159.983798	0.003741
4	473	-22.5	15	15	100	8.434697	7949.514602	0.047425
5	657	-37.5	25	25	100	5.010483	7870.449157	0.092471
6	916	-75	50	50	50	0.902699	5671.824455	0.307177
7	1262	-112.5	75	75	20	0.231966	5465.565608	0.405577
8	1640	-150	100	100	50	0.477697	6002.913835	0.647105
9	1743	-150	100	100	20	0.193642	6083.431048	0.178996

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	100	1416.206532	863.3195019	0.012989	863
5	2.5	7.5	50	1695.160545	2583.42467	0.004341	3447
10	5	15	50	1609.260479	4905.025941	0.027434	8352
15	7.5	22.5	50	1398.906849	6395.802115	0.01578	14748
25	12.5	37.5	50	1059.87283	8076.230967	0.100301	22824
50	25	75	20	392.2689977	5978.179524	0.068091	28802
75	37.5	112.5	20	171.6349456	3923.574856	0.04928	32726
100	50	150	50	126.3762194	3851.947166	0.053543	36578

T-47A CUMULATIVE APPARENT RESISTIVITY

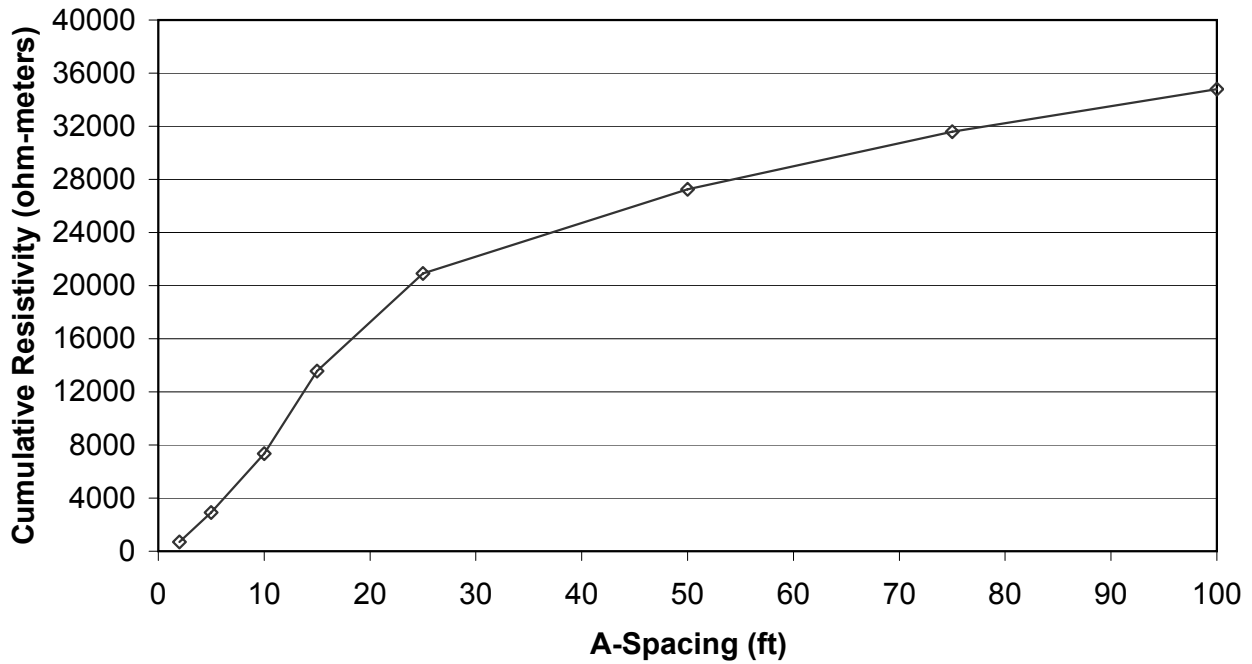


Filename: C:\SAS4000\Data\rbt47a.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmft)	Error(%)
1		0 -3	2	2	100	22.539627	2832.413073	0.012989
2		0 -7.5	5	5	50	13.489659	8475.802797	0.004341
3		0 -15	10	10	50	12.806088	16092.60512	0.027434
4		0 -22.5	15	15	50	11.132147	20983.60171	0.01578
5		0 -37.5	25	25	50	8.4342	26496.82166	0.100301
6		0 -75	50	50	20	1.248631	19613.4472	0.068091
7		0 -112.5	75	75	20	0.546331	12872.62329	0.04928
8		0 -150	100	100	50	1.00567	12637.62282	0.053543
9		0 -150	100	100	20	0.402246	12636.93133	0.059887

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	100	1161.698131	708.1711809	0.016	708
5	2.5	7.5	20	1450.661824	2210.808619	0.045	2919
10	5	15	20	1454.051288	4431.948326	0.039494	7351
15	7.5	22.5	50	1357.855784	6208.116644	0.0000	13559
25	12.5	37.5	20	966.9416922	7368.095695	0.050643	20927
50	25	75	20	414.4769161	6316.628202	0.078406	27244
75	37.5	112.5	20	190.3205104	4350.726867	0.021051	31594
100	50	150	50	105.2996512	3209.53337	0.09639	34804

T-47B CUMULATIVE APPARENT RESISTIVITY



Filename: C:\SAS4000\Data\rbt47b.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohmm)	Error(%)
			2	2	100	18.489	2323.396263	0.016
			5	5	20	4.6176	7253.309119	0.045
1	0	-15	10	10	20	4.628389	14540.51185	0.039494
2	0	-22.5	15	15	50	10.805473	20367.83738	0
3	0	-37.5	25	25	20	3.077871	24173.54065	0.050643
4	0	-75	50	50	20	1.319321	20723.84316	0.078406
5	0	-112.5	75	75	20	0.605809	14274.03338	0.021051
6	0	-150	100	100	50	0.837948	10529.96798	0.09639
7	0	-150	100	100	20	0.335544	10541.42489	0.092907



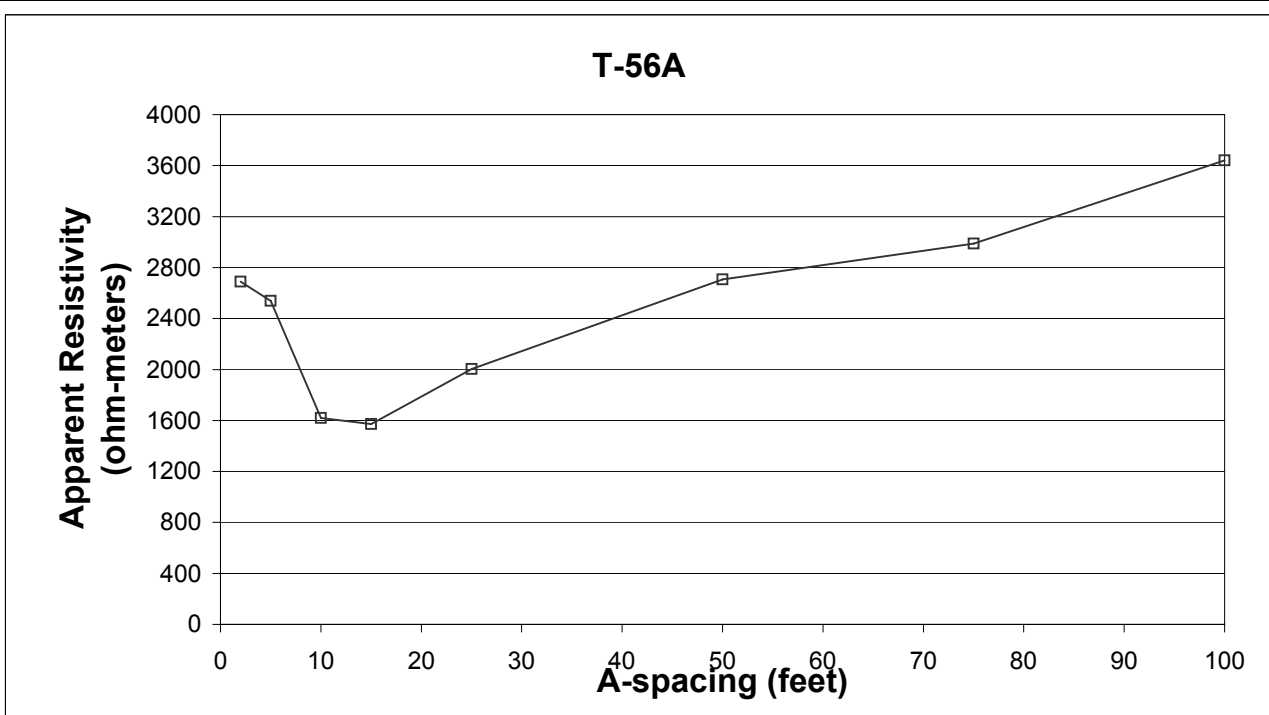
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No T-56A
 Orientation N 80° W (mag)

Date 11/05/2012
 lat/long: Mid point
C1 Max See GPS Coordinates
C2 Max

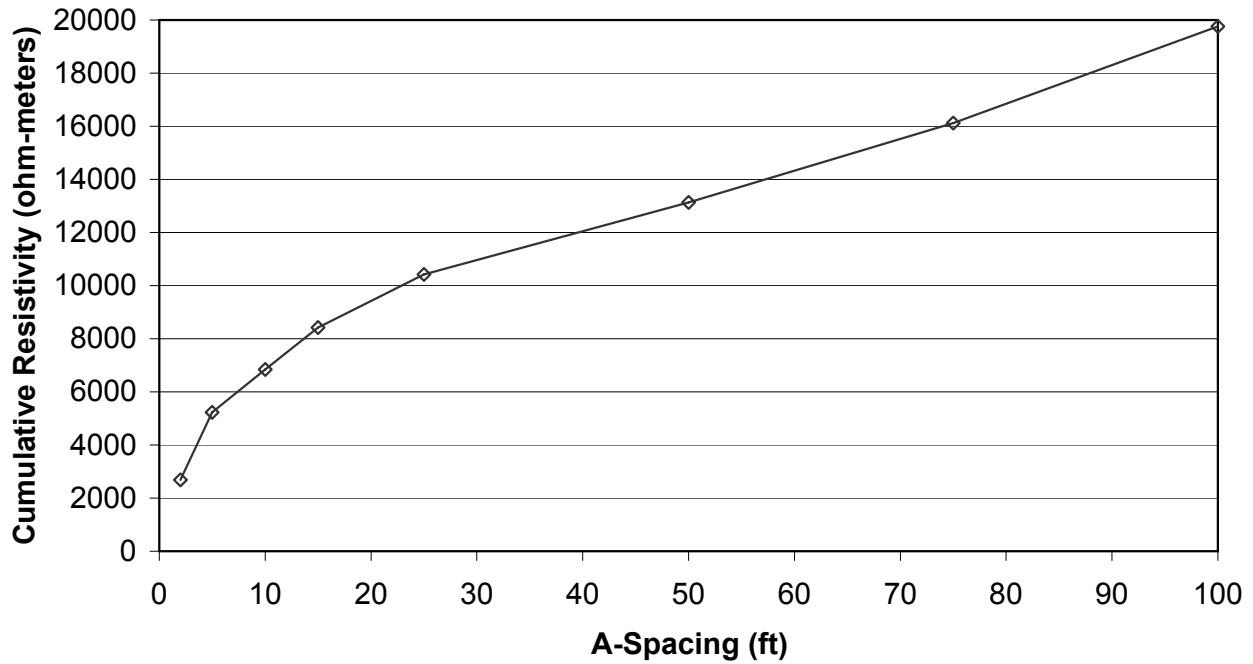
A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	702.0	2,688.8	0.016682
5	2.50	7.50	20	265.0	2,537.5	0.011764
10	5.00	15.00	20	84.5	1,618.9	0.015087
15	7.50	22.50	20	54.7	1,572.2	0.023302
25	12.50	37.50	20	41.9	2,004.5	0.030461
50	25.00	75.00	20	28.3	2,706.4	0.010027
75	37.50	112.50	50	20.8	2,989.1	0.057196
100	50.00	150.00	50	19.0	3,640.2	0.035784

Geomean 2,379
 Min 1,572
 Max 3,640
 Median 2,613
 Std. Dev. 707



A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	4410.768125	2688.804249	0.016682	2689
5	2.5	7.5	20	1664.996354	2537.454444	0.011764	5226
10	5	15	20	531.1383885	1618.909808	0.015087	6845
15	7.5	22.5	20	343.8743336	1572.193453	0.023302	8417
25	12.5	37.5	20	263.06346	2004.543565	0.030461	10422
50	25	75	20	177.5876354	2706.435563	0.010027	13128
75	37.5	112.5	50	130.7579871	2989.127586	0.057196	16117
100	50	150	50	119.4283987	3640.177593	0.035784	19758

T-56A
CUMULATIVE APPARENT RESISTIVITY

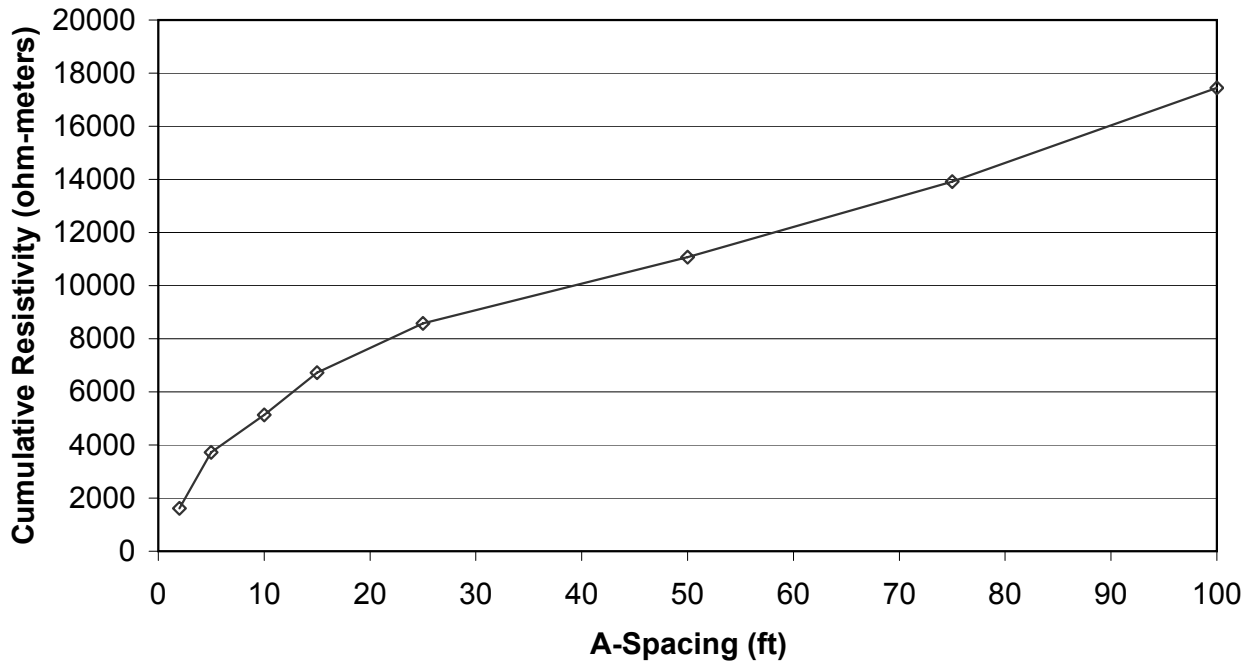


Filename: C:\SAS4000\Data\rbt56a.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm-ft)	Error(%)
1	152	-3	2	2	20	14.039911	8821.536181	0.016682
2	677	-7.5	5	5	20	5.299848	8324.980848	0.011764
3	1149	-15	10	10	20	1.690666	5311.382592	0.015087
4	1231	-22.5	15	15	20	1.094586	5158.115141	0.023302
5	1294	-37.5	25	25	20	0.837357	6576.586697	0.030461
6	1398	-75	50	50	20	0.565279	8879.374687	0.010027
7	1506	-112.5	75	75	50	1.040539	9806.85063	0.057196
8	1577	-150	100	100	50	0.950381	11942.83619	0.035784
9	1629	-150	100	100	20	0.380102	11941.26146	0.026096

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	2650.808965	1615.933145	0.045511	1616
5	2.5	7.5	20	1381.975613	2106.130834	0.007087	3722
10	5	15	20	462.9752527	1411.14857	0.034615	5133
15	7.5	22.5	50	347.0939634	1586.913601	0.014365	6720
25	12.5	37.5	20	244.4693155	1862.856184	0.023673	8583
50	25	75	20	163.4507826	2490.989927	0.013618	11074
75	37.5	112.5	20	124.0649496	2836.124749	0.132763	13910
100	50	150	50	116.021153	3536.324743	0.033765	17446

T-56B
CUMULATIVE APPARENT RESISTIVITY



Filename: C:\SAS4000\Data\rbt56b.s4k
Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm ft)	Error(%)
1	94	-3	2	2	20	8.437787	5301.617846	0.045511
2	151	-7.5	5	5	20	4.398965	6909.877818	0.007087
3	206	-15	10	10	20	1.473696	4629.753435	0.034615
4	262	-22.5	15	15	50	2.762086	5206.409291	0.014365
5	336	-37.5	25	25	20	0.77817	6111.732394	0.023673
6	451	-75	50	50	20	0.52028	8172.533118	0.013618
8	608	-112.5	75	75	20	0.394911	9304.882082	0.132763
9	699	-150	100	100	50	0.923267	11602.11509	0.033765
7	551	-112.5	75	75	2	0.03932	9264.633063	0.16679
10	747	-150	100	100	20	0.367337	11540.22975	0.088723



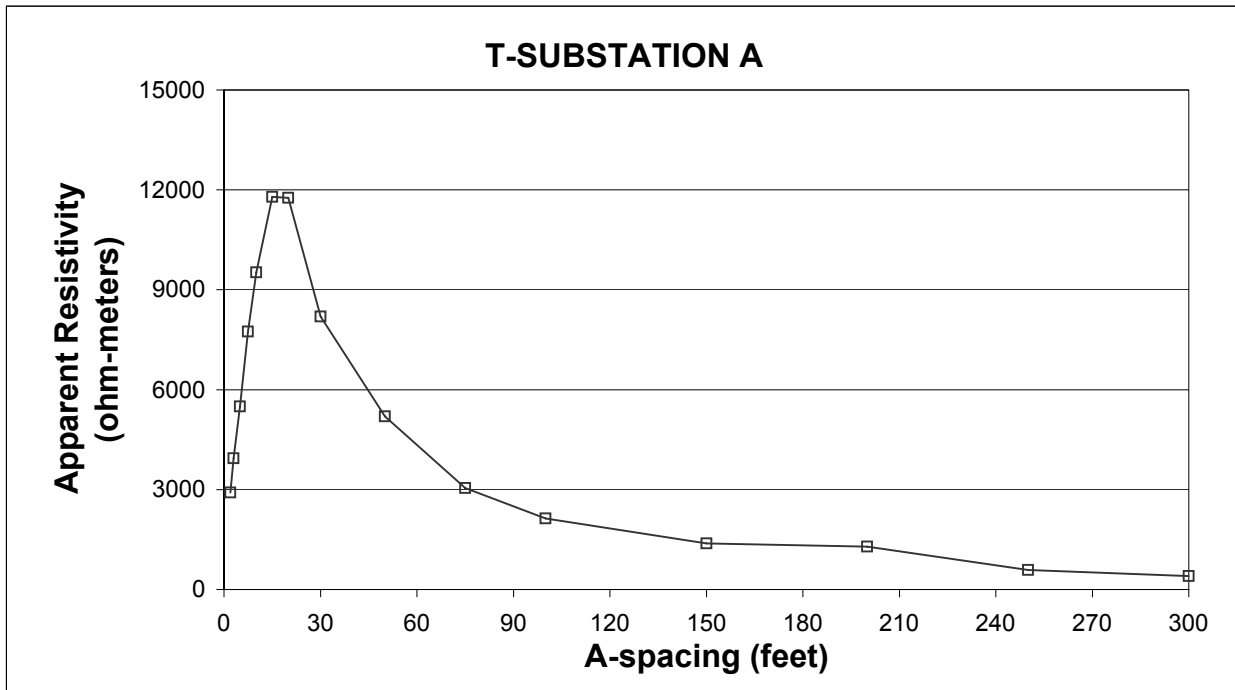
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No SUBSTATION A
 Orientation N 31° W(mag)

Date 11/06/2012
 lat/long: Mid point
 C1 Max See GPS Coordinates
 C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	759.4	2,908.6	0.015421
3	1.50	4.50	20	685.7	3,939.7	0.051233
5	2.50	7.50	20	574.1	5,497.1	0.066297
7.5	3.75	11.25	50	539.5	7,749.4	0.0000
10	5.00	15.00	20	497.2	9,521.0	0.041222
15	7.50	22.50	20	410.3	11,787.7	0.086159
20	10.00	30.00	20	307.1	11,764.2	0.100807
30	15.00	45.00	20	142.7	8,198.4	0.123632
50	25.00	75.00	20	54.3	5,201.9	0.118683
75	37.50	112.50	20	21.2	3,049.1	0.093453
100	50.00	150.00	5	11.1	2,135.0	0.138114
150	75.00	225.00	20	4.8	1,386.4	0.014681
200	100.00	300.00	20	3.4	1,292.4	0.294193
250	125.00	375.00	50	1.2	584.8	0.109729
300	150.00	450.00	20	0.7	403.8	0.438669

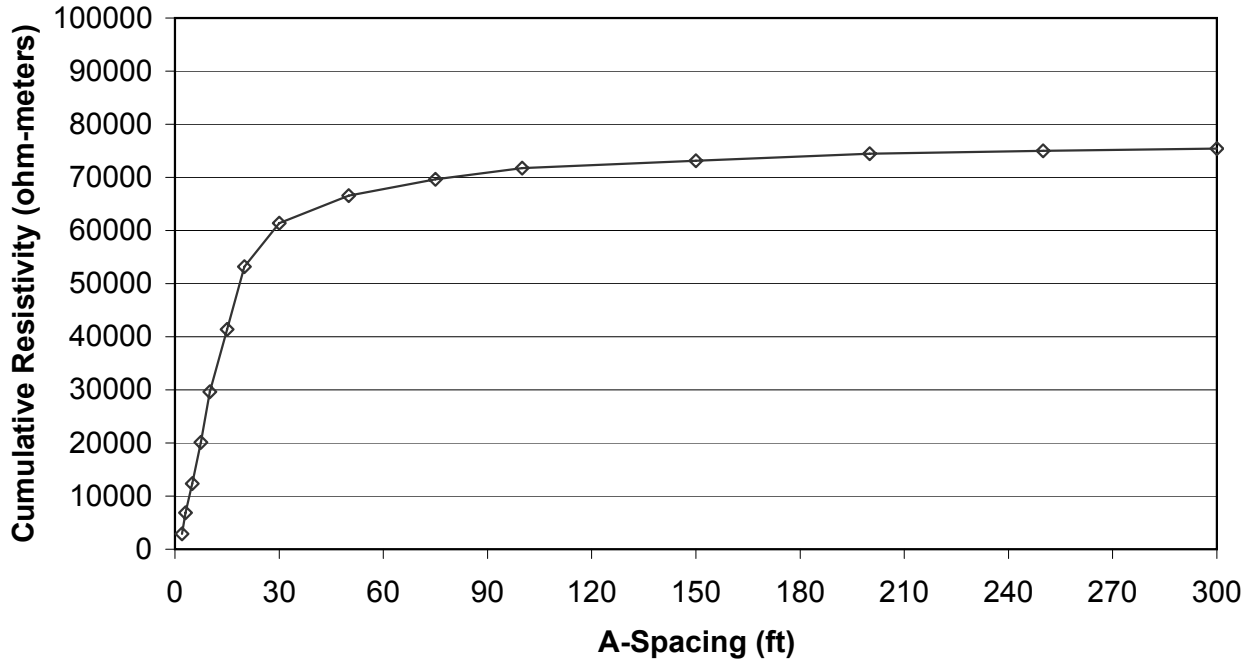
Geomean 3,352
 Min 404
 Max 11,788
 Median 3,940
 Std. Dev. 3,921



T-SUBSTATION A

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πiV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	4771.329971	2908.60275	0.015421	2909
3	1.5	4.5	20	4308.530962	3939.720711	0.051233	6848
5	2.5	7.5	20	3607.048508	5497.141926	0.066297	12345
7.5	3.75	11.25	50	3389.957041	7749.441797	0.0000	20095
10	5	15	20	3123.698142	9521.031936	0.041222	29616
15	7.5	22.5	20	2578.245401	11787.73797	0.086159	41404
20	10	30	20	1929.81942	11764.17919	0.100807	53168
30	15	45	20	896.5910655	8198.428703	0.123632	61366
50	25	75	20	341.3340418	5201.930797	0.118683	66568
75	37.5	112.5	20	133.3794577	3049.054403	0.093453	69617
100	50	150	5	70.04746308	2135.046675	0.138114	71752
150	75	225	20	30.32296645	1386.366026	0.014681	73139
200	100	300	20	21.20009554	1292.357824	0.294193	74431
250	125	375	50	7.673905543	584.7516024	0.109729	75016
300	150	450	20	4.416136793	403.8115484	0.438669	75420

**T-SUBSTATION A
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\SAS4000\Data\rbssa-.s4k
 Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm-ft)	Error(%)
1		0 -3	2	2	20	15.187615	9542.659782	0.015421
2		0 -4.5	3	3	20	13.71448	12925.59287	0.051233
3		0 -7.5	5	5	20	11.481592	18035.24222	0.066297
4		0 -11.25	7.5	7.5	50	26.976421	25424.67887	0.006512
5		0 -15	10	10	20	9.94304	31236.98193	0.041222
6		0 -22.5	15	15	20	8.20681	38673.67956	0.086159
7		0 -30	20	20	20	6.142806	38596.3909	0.100807
8		0 -45	30	30	20	2.853938	26897.72898	0.123632
9		0 -75	50	50	20	1.0865	17066.70233	0.118683
10		0 -112.5	75	75	20	0.42456	10003.46323	0.093453
11		0 -150	100	100	5	0.055742	7004.763878	0.138114
12		0 -225	150	150	20	0.096521	4548.445233	0.014681
13		0 -300	200	200	20	0.067482	4240.049331	0.294193
16		0 -375	250	250	50	0.061067	1918.462062	0.109729
17		0 -450	300	300	20	0.014057	1324.794719	0.438669
18		0 -450	300	300	20	0.013881	1308.28615	0.118112
14		0 -375	250	250	1	0.003995	6274.839793	1.430587
15		0 -375	250	250	1	0.003908	6139.445765	0.401247



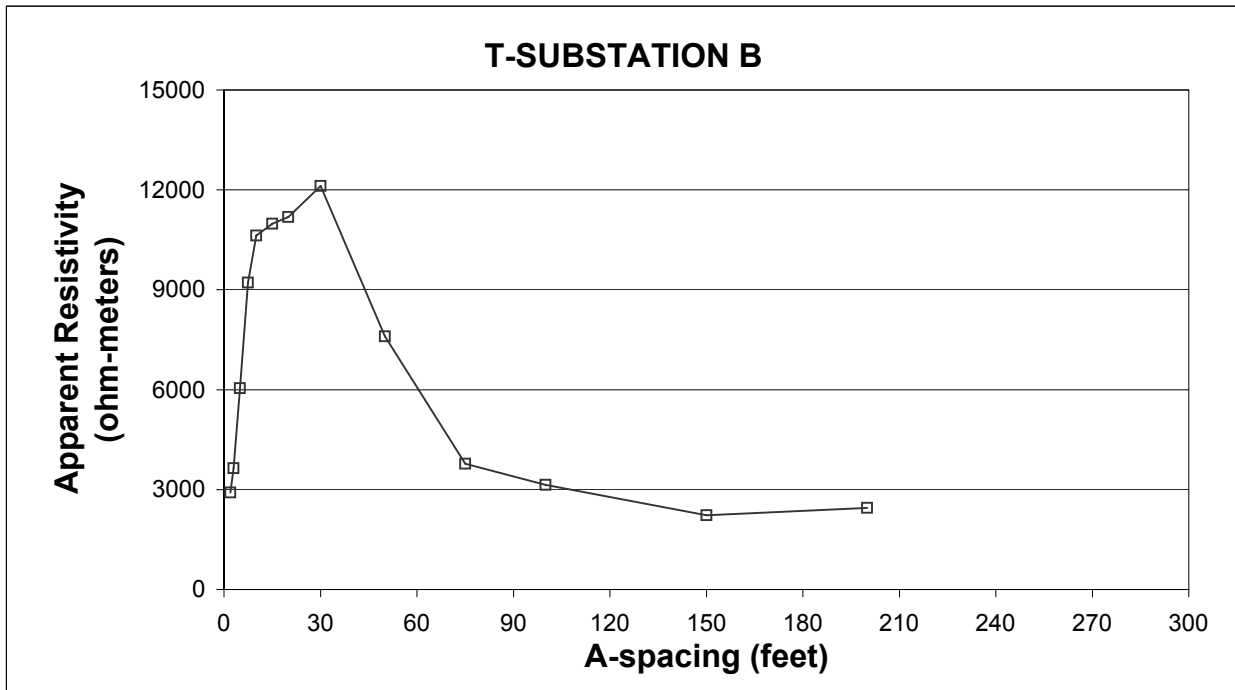
S. W. COLE ENGINEERING, INC.
RESISTIVITY COMPUTATION DATA SHEET
BLUE SKY WEST WIND POWER PROJECT
Wenner Configuration

Job Number 10-0014.2
 Spread No T-SUBSTATION B
 Orientation N 39° E(mag)

Date 11/06/2012
 lat/long: Mid point
 C1 Max See GPS Coordinates
 C2 Max

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	Resistance (v/I) Ω	Apparent Resistivity (ohm-meters)	% Error
2	1.00	3.00	20	761.2	2,915.4	0.007693
3	1.50	4.50	20	633.5	3,639.4	0.013865
5	2.50	7.50	20	630.9	6,041.1	0.013922
7.5	3.75	11.25	20	641.9	9,219.5	0.0000
10	5.00	15.00	20	554.8	10,624.4	0.010555
15	7.50	22.50	20	382.2	10,980.6	0.085819
20	10.00	30.00	20	292.1	11,189.0	0.089981
30	15.00	45.00	20	210.9	12,116.6	0.105490
50	25.00	75.00	20	79.4	7,604.6	0.112409
75	37.50	112.50	20	26.3	3,774.6	0.417888
100	50.00	150.00	50	16.4	3,141.0	0.141694
150	75.00	225.00	20	7.7	2,224.5	0.064045
200	100.00	300.00	20	6.4	2,452.4	0.114952

Geomean 5,537
 Min 2,225
 Max 12,117
 Median 6,041
 Std. Dev. 3,805

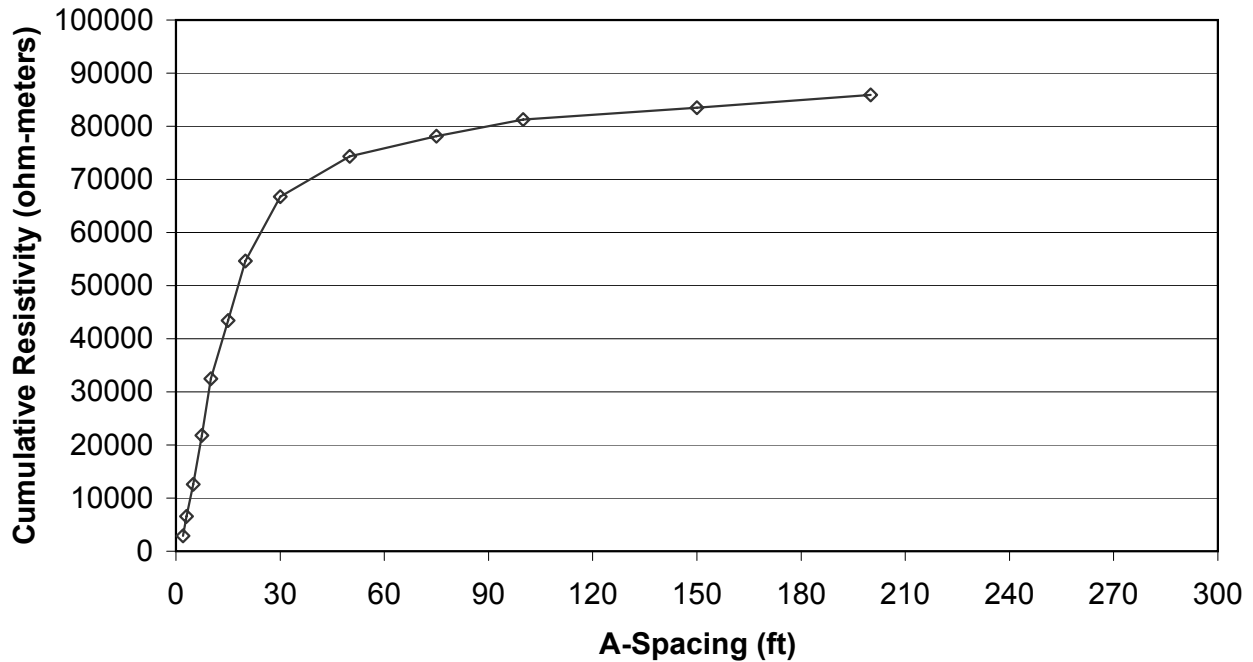


Cumulative Resistivity Sheet

T-SUBSTATION B

A - Spacing (distance-feet)	A/2 ft	A+A/2 ft	I mA	(2πV/I) mV	Apparent Resistivity (ohm-meters)	% Error	Cumulative Resistivity
2	1	3	20	4782.516554	2915.422091	0.007693	2915
3	1.5	4.5	20	3980.097556	3639.401205	0.013865	6555
5	2.5	7.5	20	3963.967991	6041.087218	0.013922	12596
7.5	3.75	11.25	20	4033.036848	9219.522234	0.0000	21815
10	5	15	20	3485.690669	10624.38516	0.010555	32440
15	7.5	22.5	20	2401.715539	10980.64345	0.085819	43420
20	10	30	20	1835.472995	11189.04337	0.089981	54610
30	15	45	20	1325.087967	12116.60437	0.10549	66726
50	25	75	20	498.99267	7604.648291	0.112409	74331
75	37.5	112.5	20	165.1189683	3774.619615	0.417888	78105
100	50	150	50	103.0496426	3140.953106	0.141694	81246
150	75	225	20	48.65573038	2224.539993	0.064045	83471
200	100	300	20	40.22997888	2452.419513	0.114952	85923

**T-SUBSTATION B
CUMULATIVE APPARENT RESISTIVITY**



Filename: C:\SAS4000\Data\rrbssb.s4k
 Instrument ID: SAS1000 2003554

No.	Time	Tx	Rx	Dx	I(mA)	Voltage(V)	App.R.(ohm-ft)	Error(%)
1		0 -3	2	2	20	15.223223	9565.032892	0.007693
2		0 -4.5	3	3	20	12.669044	11940.29285	0.013865
3		0 -7.5	5	5	20	12.617702	19819.84095	0.013922
4		0 -11.25	7.5	7.5	20	12.837555	30247.7762	0.027367
5		0 -15	10	10	20	11.095298	34856.90622	0.010555
6		0 -22.5	15	15	20	7.644898	36025.7363	0.085819
7		0 -30	20	20	20	5.842492	36709.45647	0.089981
8		0 -45	30	30	20	4.217886	39752.64234	0.10549
9		0 -75	50	50	20	1.588343	24949.63665	0.112409
10		0 -112.5	75	75	20	0.52559	12383.92487	0.417888
11		0 -150	100	100	50	0.820043	10304.96176	0.141694
12		0 -225	150	150	20	0.154876	7298.382182	0.064045
13		0 -300	200	200	20	0.128056	8045.999477	0.114952
14		0 -300	200	200	20	0.128007	8042.926721	0.200756



TERRAMETER SAS-1000

WENNER CONFIGURATION

Date 11/5/12

GPS Coordinates (degrees.####)
 Latitude _____ Longitude _____
 xx° ####### xx° #######

Job # 11-1262.1 Personnel TJH, JTS, SLD

OBSERVATIONS (WEATHER, TEMP, OUTCROP, SOIL MOISTURE, etc.)

Overcast, snow flurries ~ 29°F
NO outcrop observed in area
SOILS MOIST BUT NO STANDING WATER
~ 10.0' overburden e. T-56 boring per PSD (no water level - hole covered)

Mid	<u>SEE GPS DATA</u>
C1 Max	
C2 Max	

Orientation N80°W MAG A line / B line = S20°W MAG
(True North: Declination of _____)

SITE SCHEMATIC & PERPENDICULAR SPREAD DATA ON BACK OF FORM

REPEAT TEST AT BOTTOM OF PAGE; OR SEPARATE SHEET

Reset CP's

'A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error % Std. Dev.	Low I - Low V Repeat
2.0	6.0	6.0	1.00	3.00	20mA	421.89 Ω	0.046	
5.0	9.0	12.0	2.50	7.50	20	219.95	0.007	
10.0	12.0	12.0	5.00	15.00	20	73.685	0.035	
15.0	12.0	12.0	7.50	22.50	50	55.242	0.014	
25.0	12.0	24.0	12.50	37.50	20	38.908	0.024	
50.0	12.0	24.0	25.00	75.00	20	26.014	0.014	
75.0	12.0	24.0	37.50	112.50	2	19.660	0.167	X
100.0	12.0	24.0	50.00	150.00	50	18.465	0.034	
<u>75</u>					<u>20</u>	<u>19.746</u>	<u>0.133</u>	
<u>100</u>					<u>20F</u>	<u>18.367</u>	<u>0.089</u>	

Current should be > than 10 mA V-In should be >10 mV %Error should be < 1% X - Repeat R-required Repeat

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work
 NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage)



TERRAMETER SAS-1000

WENNER CONFIGURATION

Verification test for pin spacing, use 50% or less (if possible) of the current used in the primary test. Retest apparent resistivity ~ primary test & current much smaller. If not, check electrode contact and redo test.

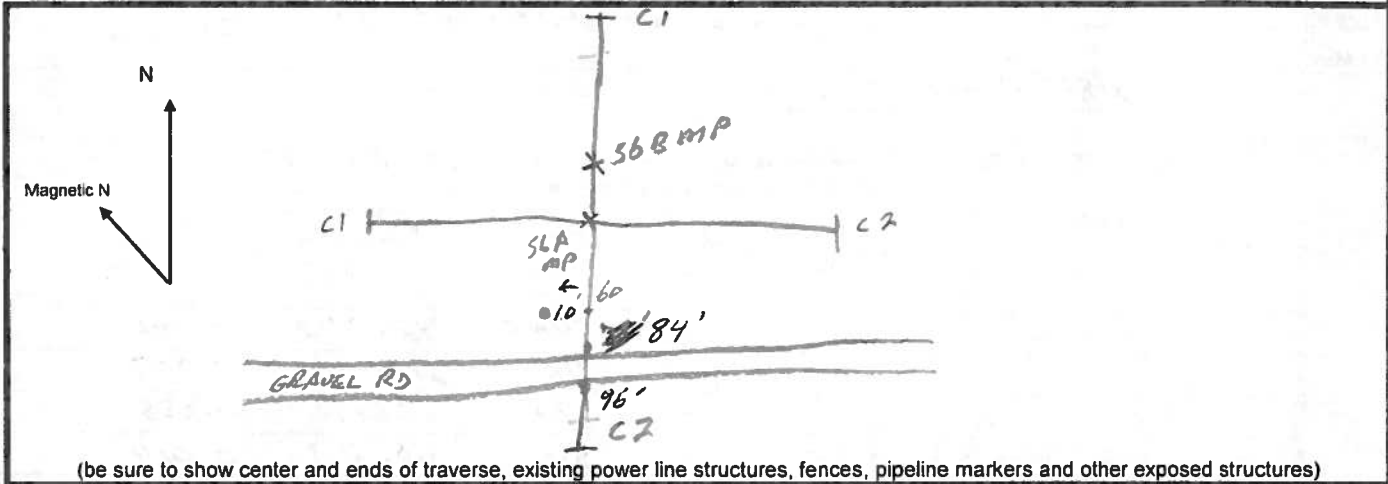
Job # 08-0957.4

Date 11/5/12

Spread # RBT56A

Personnel TJA, JTS, JLO

REPEAT TEST AT BOTTOM OF PAGE; OR SEPARATE SHEET



(be sure to show center and ends of traverse, existing power line structures, fences, pipeline markers and other exposed structures)

A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error	Low I - Low V Repeat
2.0	6.0	6.0	1.00	3.00	20 mA	502.00 Ω	0.017	
5.0	9.0	12.0	2.50	7.50	20	264.99	0.012	
10.0	12.0	12.0	5.00	15.00	20	84.533	0.015	
15.0	12.0	12.0	7.50	22.50	20	54.729	0.023	
25.0	12.0	24.0	12.50	37.50	20	41.868	0.030	
50.0	12.0	24.0	25.00	75.00	20	28.264	0.010	
75.0	12.0	24.0	37.50	112.50	50	20.811	0.057	
100.0	12.0	24.0	50.00	150.00	50	19.008	0.036	
100.0					20F	19.005	0.026	

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work

NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage)



TERRAMETER SAS-1000

WENNER CONFIGURATION

Date 11/5/12

GPS Coordinates (degrees.####)
 Latitude _____ Longitude _____
 xx° ####### xx° #######

Job # 11-1262.1 Personnel TSH, JTS, PSD, JLD

OBSERVATIONS (WEATHER, TEMP, OUTCROP, SOIL MOISTURE, etc.)

Overcast ~ 29°F no outcrop observed
Soils moist
3' to 10' weathered rock exposure
water level @ 14.6' in boring

Mid	<u>See to boring</u>
C1 Max	<u>0005 d.</u>
C2 Max	

Orientation S 73.5° W MAG AMP / S 25° E MAG B mp
(True North Declination of _____)

SITE SCHEMATIC & PERPENDICULAR SPREAD DATA ON BACK OF FORM

REPEAT TEST AT BOTTOM OF PAGE; OR SEPARATE SHEET

'A - Spacing (distance-feet)	Max PIN DEPTH		A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error % Std. Dev.	Low I - Low V Repeat
	P1-P2 (inches)	C1-C2 (inches)						
2.0	6.0	6.0	1.00	3.00	<u>100 mA</u>	<u>225.40 Ω</u>	<u>0.013</u>	
5.0	9.0	12.0	2.50	7.50	<u>50</u>	<u>269.79</u>	<u>0.004</u>	
10.0	12.0	12.0	5.00	15.00	<u>50</u>	<u>256.12</u>	<u>0.027</u>	
15.0	12.0	12.0	7.50	22.50	<u>50</u>	<u>222.64</u>	<u>0.016</u>	
25.0	12.0	24.0	12.50	37.50	<u>50</u>	<u>168.68</u>	<u>0.100</u>	
50.0	12.0	24.0	25.00	75.00	<u>20</u>	<u>62.432</u>	<u>0.068</u>	
75.0	12.0	24.0	37.50	112.50	<u>20</u>	<u>27.317</u>	<u>0.049</u>	
100.0	12.0	24.0	50.00	150.00	<u>50</u>	<u>20.113</u>	<u>0.054</u>	
<u>100</u>					<u>20F</u>	<u>20.112</u>	<u>0.060</u>	

Current should be > than 10 mA V-In should be >10 mV %Error should be < 1% X - Repeat R- required Repeat

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work

NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage)



TERRAMETER SAS-1000

WENNER CONFIGURATION

Verification test for pin spacing, use 50% or less (if possible) of the current used in the primary test. Retest apparent resistivity ~ primary test & current much smaller. If not, check electrode contact and redo test.

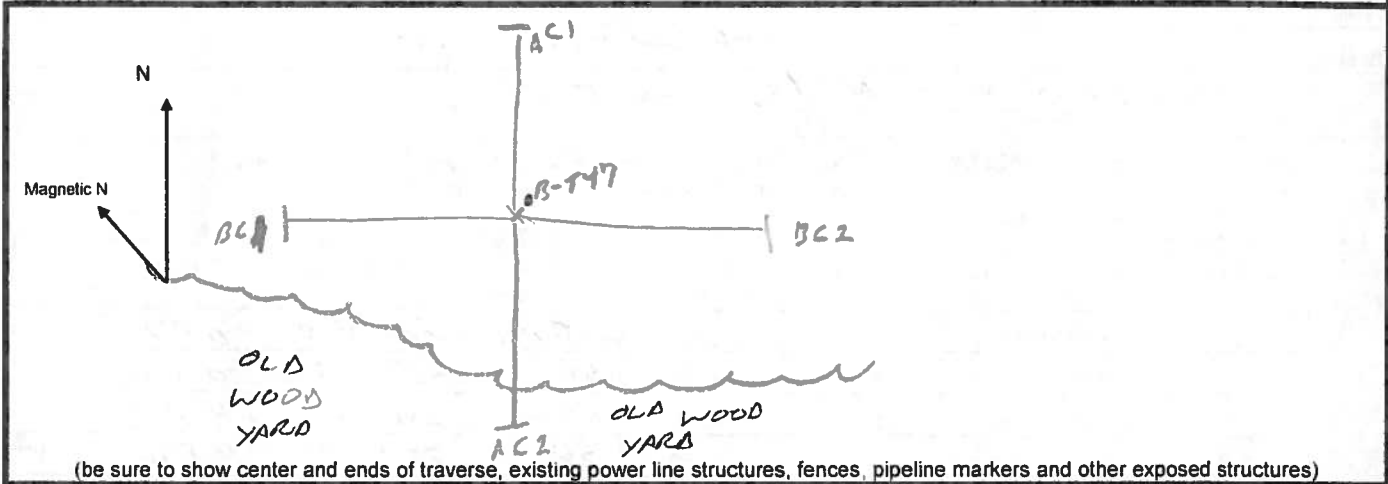
Job # 08-0957.4

Date 11/5/12

Spread # RBT47B

Personnel TJH, JTB, PJD, JLD

REPEAT TEST AT BOTTOM OF PAGE, OR SEPARATE SHEET



A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error	Low I - Low V Repeat
2.0	6.0	6.0	1.00	3.00	100	184.89Ω	0.016	
5.0	9.0	12.0	2.50	7.50	20	230.88	0.045	
10.0	12.0	12.0	5.00	15.00	20	231.42	0.039	
15.0	12.0	12.0	7.50	22.50	50	216.11	0.000	
25.0	12.0	24.0	12.50	37.50	20	153.89	0.051	
50.0	12.0	24.0	25.00	75.00	20	65.966	0.078	
75.0	12.0	24.0	37.50	112.50	20	30.290	0.021	
100.0	12.0	24.0	50.00	150.00	50	16.759	0.096	
100					20 F	16.777	0.093	

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work

NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage

meter lost power @ 10' A spacing

Substation
Make another copy -

SPREAD # RBSS A

SEGMENT# _____



RESISTIVITY FIELD DATA SHEET

TERRAMETER SAS-1000

WENNER CONFIGURATION

Date 11/5/12

Job # _____

Personnel TSH, JTS, JLD, PJO

GPS Coordinates

Latitude Longitude

xx°yy'z.zz"N xx°yy'z.zz"W

Mid	<u>see GPS</u>	
C1 Max	<u>data</u>	
C2 Max		

OBSERVATIONS (WEATHER, TEMP, PIPELINES, POWER LINES, OUTCROP, SOIL MOISTURE, ACCESS, etc.)

mostly cloudy, breezy, snow on hills ~ 30°F
soils moist - bedrock outcrop noted near MP

Orientation S31°E MAG
(True North Declination of _____)

SITE SCHEMATIC AND REPEATED TESTS ON BACK OF FORM

A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	DEPTH P1-P2	A+A/2 (C1-C2) ft	DEPTH C1-C2	I Current (mA)	Resistance V/I (ohms)	% Error % Std. Dev.	Low I - Low V Repeat
2.0	2.0	6.0	1.00		3.00		20	759.38Ω	0.015	
3.0	2.0	6.0	1.50		4.50		20	685.72	0.051	
5.0	4.0	6.0	2.50		7.50		20	574.08	0.066	
7.5	4.0	6.0	3.75		11.25		50	539.53	0.007	
10.0	12.0	12.0	5.00		15.00		20	497.15	0.041	
15.0	12.0	12.0	7.50		22.50		20	410.34	0.086	
20.0	12.0	24.0	10.00		30.00		20	307.14	0.101	
30.0	12.0	24.0	15.00		45.00		20	142.70	0.124	
50.0	12.0	24.0	25.00		75.00		20	54.325	0.119	
75.0	12.0	24.0	37.50		112.50		20	21.228	0.093	
100.0	12.0	24.0	50.00		150.00		20 (S?)	11.148	0.138	
150.0	12.0	24.0	75.00		225.00		20	4.8261	0.015	
200.0	12.0	24.0	100.00		300.00		20	3.3741	0.294	
250.0	12.0	24.0	125.00		375.00		1	3.9947	1.43	X
300.0	12.0	24.0	150.00		450.00		20	702.83 mΩ	0.439	X
300.0	12.0	24.0	150.00		450.00		20F	694.07 mΩ	0.118	R
350							1	3.9085	0.401	
250							50	1.2213	0.110	

Double
C pins
Double
P pins

Current should be
10mA or Greater

Vin should be
>10 mV

%Error should
be < 1%

X - Repeat R
required
Repeat

SHOW REPEATED TESTS ON THE BACK OF PAGE

NOTE - ADJUST OR ADD P1 & P2 PINS FOR REPEAT READINGS WITH LOW AMPS (± 10% OF "A" SPACING)
ADJUST/ADD C1/ C2 PINS FOR LOW - VOLTAGE/HIGH ERRORS

Substation
Make another copy -

SPREAD # RB5513

SEGMENT# _____



RESISTIVITY FIELD DATA SHEET

TERRAMETER SAS-1000

WENNER CONFIGURATION

Date 11/6/12

GPS Coordinates

Latitude Longitude
xx°yy'z zz"N xx°yy'z.zz"W

Mid	<u>SEE GPS DATA</u>	
C1 Max		
C2 Max		

Job #

Personnel TJH, PJO, JTS, Charlie Seaven (RTR)

OBSERVATIONS (WEATHER, TEMP, PIPELINES, POWER LINES, OUTCROP, SOIL MOISTURE, ACCESS, etc.)

PARTLY SUNNY - BREEZY ~ 24°F snow flurries (see RB55A)

Route - p.e. 85' on C1 + edge clearing @ 260'(C1)

Orientation S39°W MAG
(True North Declination of _____)

SITE SCHEMATIC AND REPEATED TESTS ON BACK OF FORM

A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	DEPTH P1-P2	A+A/2 (C1-C2) ft	DEPTH C1-C2	I / Current (mA)	Resistance V/I (ohms)	% Error % Std. Dev.	Low I - Low V Repeat
2.0	2.0	6.0	1.00		3.00		20	761.16 Ω	0.008	
3.0	2.0	6.0	1.50		4.50		20	633.45	0.014	
5.0	4.0	6.0	2.50		7.50		20	630.89	0.014	
7.5	4.0	6.0	3.75		11.25		20	641.88	0.027	
10.0	12.0	12.0	5.00		15.00		20	554.76	0.011	
15.0	12.0	12.0	7.50		22.50		20	387.24	0.086	
20.0	12.0	24.0	10.00		30.00		20	292.12	0.090	
30.0	12.0	24.0	15.00		45.00		20	210.89	0.105	
50.0	12.0	24.0	25.00		75.00		20	79.417	0.112	
75.0	12.0	24.0	37.50		112.50		20	26.280	0.418	
100.0	12.0	24.0	50.00		150.00		50	16.401	0.142	
150.0	12.0	24.0	75.00		225.00		20	7.7438	0.064	
200.0	12.0	24.0	100.00		300.00		20	6.4028	0.115	
250.0	12.0	24.0	125.00		375.00					
300.0	12.0	24.0	150.00		450.00					X
300.0	12.0	24.0	150.00		450.00					R
200							20 F	6.4004	0.201	

Current should be
>10mA or Greater

Vin should be
>10 mV

%Error should
be < 1%

X - Repeat R
required
Repeat

SHOW REPEATED TESTS ON THE BACK OF PAGE

NOTE - ADJUST OR ADD P1 & P2 PINS FOR REPEAT READINGS WITH LOW AMPS (± 10% OF "A" SPACING)
ADJUST/ADD C1/ C2 PINS FOR LOW - VOLTAGE/HIGH ERRORS



TERRAMETER SAS-1000

WENNER CONFIGURATION

Date 11/6/12

GPS Coordinates (degrees.####)

Latitude Longitude

xx° ##### xx° #####

Job # 11-1262.1

Personnel TSH, PSD, JS, Cherke, Seawey

OBSERVATIONS (WEATHER, TEMP, OUTCROP, SOIL MOISTURE, etc.)

mostly sunny ~ 30°F no outcrop observed soils moist & areas of bare contain frost lenses to about 2"
boring nearby is 52.5' ± to bedrock

Mid	<u>See GPS</u>
C1 Max	<u>DATA</u>
C2 Max	

Orientation DUKE WEST (A line)
(True North Declination of _____)

SITE SCHEMATIC & PERPENDICULAR SPREAD DATA ON BACK OF FORM

REPEAT TEST AT BOTTOM OF PAGE; OR SEPARATE SHEET

'A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error % Std. Dev.	Low I - Low V Repeat
2.0	6.0	6.0	1.00	3.00	20	657.30Ω	0.120	
5.0	9.0	12.0	2.50	7.50	20	131.97	0.448	
10.0	12.0	12.0	5.00	15.00	50	24.911	0.425	
15.0	12.0	12.0	7.50	22.50	20	6.9536	0.608	
25.0	12.0	24.0	12.50	37.50	20	3.0227	0.634	
50.0	12.0	24.0	25.00	75.00	20	1.7231	0.628	
75.0	12.0	24.0	37.50	112.50	50	1.5403	0.812	
100.0	12.0	24.0	50.00	150.00	20	1.2275	5.03	X
<u>100.0</u>					20	1.0929	2.06	X
<u>100.0</u>					20	1.0261	1.30	X
<u>100.0</u>					20	889.35mΩ	1.66	X
<u>100.0</u>					20	612.99mΩ	2.11	

reset pins
"
"
"
"

Current should be > than 10 mA V-In should be >10 mV %Error should be < 1% X - Repeat R- required Repeat

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work

NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage)



TERRAMETER SAS-1000

WENNER CONFIGURATION

Date 11/16/12

GPS Coordinates (degrees.####)
 Latitude _____ Longitude _____
 xx°.##### xx°.#####

Job # 11-1262.1 Personnel TJH, JTS, PJD, Charles Simon

OBSERVATIONS (WEATHER, TEMP, OUTCROP, SOIL MOISTURE, etc.)
mostly sunny, breezy ~ 30°F no outcrop - weathered rock @ 4'-5'
soils moist

Mid	<u>see GPS DATA</u>
C1 Max	
C2 Max	

Orientation N53°E MAG (A line)
(True North Declination of _____)

SITE SCHEMATIC & PERPENDICULAR SPREAD DATA ON BACK OF FORM

REPEAT TEST AT BOTTOM OF PAGE; OR SEPARATE SHEET

'A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error % Std. Dev.	Low I - Low V Repeat
2.0	6.0	6.0	1.00	3.00	20	186.88 Ω	0.116	
5.0	9.0	12.0	2.50	7.50	20	128.24	0.053	
10.0	12.0	12.0	5.00	15.00	50	91.107	0.042	
15.0	12.0	12.0	7.50	22.50	20	55.415	0.032	
25.0	12.0	24.0	12.50	37.50	50	36.030	0.053	
50.0	12.0	24.0	25.00	75.00	50	23.192	0.054	
75.0	12.0	24.0	37.50	112.50	20	17.486	0.045	
100.0	12.0	24.0	50.00	150.00	20	14.452	0.015	
100					50F	14.447	0.045	

Current should be > than 10 mA V-In should be >10 mV %Error should be < 1% X - Repeat R-required Repeat

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work

NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage)



TERRAMETER SAS-1000

WENNER CONFIGURATION

Verification test for pin spacing, use 50% or less (if possible) of the current used in the primary test. Retest apparent resistivity ~ primary test & current much smaller. If not, check electrode contact and redo test.

Job # 08-0957.4

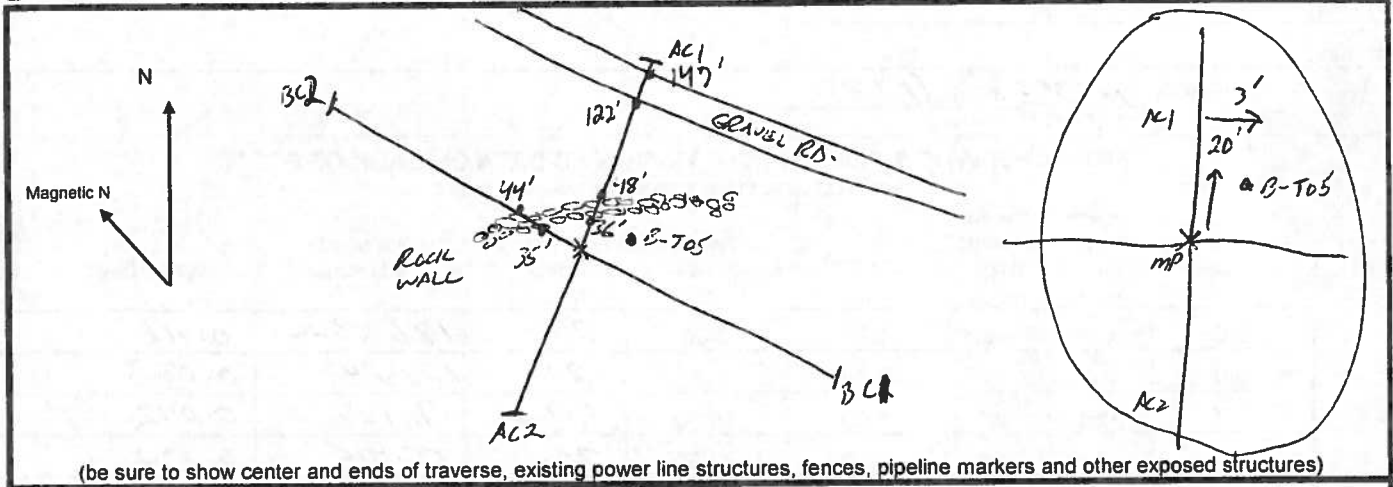
Date 11/6/12

Spread # RBT05B

Personnel TS^H, STS, PJO, Charlie Secoy

REPEAT TEST AT BOTTOM OF PAGE; OR SEPARATE SHEET

S36°E MAG



(be sure to show center and ends of traverse, existing power line structures, fences, pipeline markers and other exposed structures)

A - Spacing (distance-feet)	Max PIN DEPTH P1-P2 (inches)	Max PIN DEPTH C1-C2 (inches)	A/2 (P1-P2) ft	A+A/2 (C1-C2) ft	I / Current (mA) (Multiplier)	Resistance V/I (ohms)	% Error	Low I - Low V Repeat
2.0	6.0	6.0	1.00	3.00	50	254.4752	0.028	
5.0	9.0	12.0	2.50	7.50	20	190.21	0.023	
10.0	12.0	12.0	5.00	15.00	20	90.592	0.050	
15.0	12.0	12.0	7.50	22.50	20	62.216	0.046	
25.0	12.0	24.0	12.50	37.50	50	46.199	0.056	
50.0	12.0	24.0	25.00	75.00	20	19.299	0.029	
75.0	12.0	24.0	37.50	112.50	20	16.455	0.043	
100.0	12.0	24.0	50.00	150.00	20	11.272	0.057	
100					50 & 20F	11.270	0.075	

1.0 & 7.5 FT A-Spacing are dependent on the approved Scope of Work

NOTE - ADJUST P1 & P2 FOR REPEAT READINGS (± 10% OF "A" SPACING - Add extra C1/C2 Probe for low voltage