Fletcher, Heald & Hildreth

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ARLINGTON, VIRGINIA 22209

OFFICE: (703) 812-0400
FAX: (703) 812-0486
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MARK N. LIPP
(703) 812-0445
LIPP@FHHLAW.COM

July 22, 2022

Marlene H. Dortch, Esq.
Secretary
Federal Communications Commission
45 L Street, NE
Washington, DC 20554

Attention: Media Bureau

Re: **Application for License and Request for Program Test Authority**
Radio License Holding CBC, LLC
Station WEEX(AM), Easton, Pennsylvania
Facility Identifier Number 8596

Dear Ms. Dortch:

Transmitted herewith on behalf of Radio License Holding CBC, LLC ("RLH-CBC"), the licensee of Station WEEX(AM) identified above, is its application for a license to cover construction permit BP-20200225ACU. As indicated in the associated Engineering Statement prepared by its technical consultant, this application covers the aforementioned Permit which authorizes non-directional operation during daytime and nigttime hours from the existing, north array tower.

The filing fees for this application totaling $645.00 will be paid once confirmation of submission is received from audiofilings@fcc.gov, which will include its identifying file number.

If there are any questions about his Application, please contact undersigned counsel for Radio License Holding CBC, LLC.

Sincerely,

Mark N. Lipp

Enclosures

cc: Mr. Jerome Manarchuck, Audio Division, Media Bureau, FCC

Federal Communications Commission
Washington, D. C. 20554

Approved by OMB
3060-0627
Expires 01/31/98

FOR FCC USE ONLY

FCC 302-AM
APPLICATION FOR AM BROADCAST STATION LICENSE

(Please read instructions before filling out form.

FOR COMMISSION USE ONLY

FILE NO.

SECTION I - APPLICANT FEE INFORMATION

1. PAYOR NAME (Last, First, Middle Initial)

Radio Licensing Holding CBC, LLC

MAILING ADDRESS (Line 1) (Maximum 35 characters)
780 Johnson Ferry Road

MAILING ADDRESS (Line 2) (Maximum 35 characters)
Suite 500

CITY	STATE OR COUNTRY (if foreign address)	ZIP CODE
Atlanta	Georgia	30342

TELEPHONE NUMBER (include area code)	CALL LETTERS	OTHER FCC IDENTIFIER (If applicable)
404.949.0700	WEEX	8596

2. A. Is a fee submitted with this application? ☑ Yes ☐ No

B. If No, indicate reason for fee exemption (see 47 C.F.R. Section

☐ Governmental Entity ☐ Noncommercial educational licensee ☐ Other (Please explain):

C. If Yes, provide the following information:

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter fee amount due in Column (C).

(A) FEE TYPE CODE	(B) FEE MULTIPLE	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
M M R	0 0 0 1	$ 645.00	

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)	(B)	(C)	FOR FCC USE ONLY
	0 0 0 1	$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION	FOR FCC USE ONLY
$ 645.00	

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Radio Licensing Holding CBC, LLC		
MAILING ADDRESS 780 Johnson Ferry Road, Suite 500		
CITY Atlanta	STATE Georgia	ZIP CODE 30342

2. This application is for:

☑ Commercial ☐ Noncommercial

☐ AM Directional ☑ AM Non-Directional

Call letters	Community of License	Construction Permit File No.	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit
WEEX	Easton, PA	BP-20200225ACU	N/A	05/06/2023

3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

☐ Yes ☒ No

If No, explain in an Exhibit.

Exhibit No. A

4. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met?

☑ Yes ☐ No

If No, state exceptions in an Exhibit.

Exhibit No.

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?

☐ Yes ☑ No

If Yes, explain in an Exhibit.

Exhibit No.

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)?

☐ Yes ☐ No

☑ Does not apply

If No, explain in an Exhibit.

Exhibit No.

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?

☐ Yes ☑ No

If the answer is Yes, attach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and the disposition of the litigation. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 U.S.C. Section 1.65(c), the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.

Exhibit No.

8. Does the applicant, or any party to the application, have a petition on file to migrate to the expanded band (1605-1705 kHz) or a permit or license either in the existing band or expanded band that is held in combination (pursuant to the 5 year holding period allowed) with the AM facility proposed to be modified herein?

☐ Yes ☑ No

If Yes, provide particulars as an Exhibit.

Exhibit No.

The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended).

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

CERTIFICATION

1. By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

☑ Yes ☐ No

2. I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Name	Signature	
Richard S. Denning	Richard Denning	
Title	Date	Telephone Number
Executive Vice President and General Counsel	07/21/2022	404.949.0700

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Exhibit A

Station WEEX(AM), Easton, Pennsylvania, is not operating pursuant to automatic program test authority, in accordance with 47 C.F.R. Section 73.1620, because one of the conditions on its construction permit states:

"*Before program tests are authorized, permittee shall dismantle the unused antenna tower, or in lieu thereof, submit a proof of performance to establish that the proposed radiation pattern is essentially omnidirectional. The proof shall include at least sixapproximately equally-spaced radials with sufficient close-in points that the inverse distance fields can be clearly established*."

This license application includes a proof-of-performance. Please see the Engineering Exhibit prepared by James Sadler with Carl T. Jones Corporation for additional details.

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

ENGINEERING EXHIBIT
IN SUPPORT OF AN
APPLICATION FOR STATION LICENSE
STATION WEEX – EASTON, PENNSYLVANIA
1230 kHz – 1 kW-D, 1 kW-N, U, ND
FACILITY ID: 8596

Applicant: Radio License Holding CBC, LLC

July, 2022

7901 Yarnwood Court
Springfield, VA 22153-2899

tel: (703) 569-7704
fax: (703) 569-6417

email: info@ctjc.com
www.ctjc.com

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SECTION III OF FCC FORM 302-AM

ENGINEERING STATEMENT OF JAMES D. SADLER

FIGURE

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant
Radio License Holding CBC, LLC

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

☑ Station License ☐ Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
				Night	Day
WEEX	BP-20200225ACU	1230	Unlimited	1.0	1.0

2. Station location

State	City or Town
Pennsylvania	Easton

3. Transmitter location

State	County	City or Town	Street address (or other identification)
PA	Northampton	Easton	107 Paxinosa Road E

4. Main studio location

State	County	City or Town	Street address (or other identification)
PA	Northampton	Bethlehem	2158 Avenue C

5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)

6. Has type-approved stereo generating equipment been installed? ☐ Yes ☑ No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68? ☐ Yes ☐ No ☑ Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed. Exhibit No.

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system	RF common point or antenna current (in amperes) without modulation for day system
4.28	4.28

Measured antenna or common point resistance (in ohms) at operating frequency		Measured antenna or common point reactance (in ohms) at operating frequency	
Night	Day	Night	Day
54.6	54.6	-j4.1	-j4.1

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day

Manufacturer and type of antenna monitor:

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
uniform cross-section, guyed, steel tower	46	46.6	46.6	Exhibit No. N/A

Excitation ☑ Series ☐ Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	40 °	42 '	31 "	West Longitude	75 °	13 '	00 "

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits. Exhibit No. N/A

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system. Exhibit No. On File

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

None

11. Give reasons for the change in antenna or common point resistance.

N/A

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type)	Signature (check appropriate box below)
James D. Sadler	
Address (include ZIP Code) Carl T. Jones Corporation 7901 Yarnwood Court Springfield, VA 22153	Date July 15, 2022 Telephone No. (Include Area Code) (703) 569-7704

☐ Technical Director

☐ Registered Professional Engineer

☐ Chief Operator

☑ Technical Consultant

☐ Other (specify)

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

ENGINEERING STATEMENT OF JAMES D. SADLER
IN SUPPORT OF AN
APPLICATION FOR STATION LICENSE
STATION WEEX – EASTON, PENNSYLVANIA
1230 kHz – 1 kW-D, 1 kW-N, U, ND

FACILITY ID: 8596

Applicant: Radio License Holding CBC, LLC

I am a Technical Consultant, an employee in the firm of Carl T. Jones Corporation with offices located in Springfield, VA. My education and experience are a matter of record with the Federal Communications Commission.

1.0 GENERAL

This office has been authorized by Radio License Holding CBC, LLC ("RLH"), licensee of AM Station WEEX, to prepare this engineering statement and the associated figures in support of an Application for License to cover outstanding Construction Permit, FCC File No. BP-20200225ACU ("the construction permit"). The construction permit authorizes non-directional day and night operation from the existing north array tower.

The construction permit contains a condition requiring RLH to dismantle the unused south tower, or in lieu thereof, submission of a proof of performance to establish that the proposed radiation pattern is essentially omnidirectional. The unused south tower is remains in use by FM Station WODE-FM and has been detuned at 1230 kHz.

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email: info@ctjc.com
www.ctjc.com

A proof of performance has been completed and it is believed that the construction permit conditions have been fully satisfied.

2.0 TOWER IMPEDANCE AND BASE CURRENT MEASUREMENTS

The WEEX operating power was established at the previously license common point location to allow continued remote monitoring of the current meter. The impedance at this location was measured by Mr. Robert Elder, a contract engineer for the station. The installation of the antenna matching network and the tower detuning was also performed by Mr. Elder. The measured impedance at the WEEX current sampling location was found to be Z = 54.6 -j 4.1 Ohms. Based on the measured resistance, the transmitter was adjusted to obtain a current reading at the same location of 4.28 Amperes for the daytime and nighttime power of 1 kW.

3.0 NON-DIRECTIONAL PROOF OF PERFORMANCE

Prior to starting the non-directional proof of performance, the unused tower was detuned. The transmitter power level was set to achieve a daytime power level of 1 kW based on the measured impedance and current identified in Section 2.0. This power level was maintained throughout the non-directional measurement program.

A complete set of field strength measurements was made on six evenly spaced radial paths. USGS 7.5 minute topographic mapping was used in conjunction with the internal GPS receiver contained in the Potomac Instruments, Model PI-4100, field strength meters to select measurement locations along each radial. Every effort was

made to select measurement locations which were free of local obstruction and at intervals conforming as closely to the recommendations of the FCC Rules as physical conditions would permit. Determination of the distance and bearing for the measurement locations was accomplished with the PI-4100 internal GPS receiver.

All measurements were made by the Mr. David Supplee, Chief Engineer for Cumulus Media Harrisburg, Pennsylvania. Mr. Supplee is experienced in performing field strength measurements on AM antenna systems. Two field strength meters were employed to make all of the measurements contained in this document. The meters listed below were checked against one another in the field and were found to be within the manufacturer's stated tolerances.

Manufacturer / Model	Serial No.	Calibration Date
Potomac Instruments / PI-4100	185	January 2022
Potomac Instruments / PI-4100	337	May 2017

Non-directional field strength measurements were analyzed in accordance with the "best fit" method outlined in 47 CFR 73.186 of the FCC's Rules. Graph 15 of 47 CFR 73.184 was employed to determine the inverse distance field strengths and conductivity values. Figure 1 is a tabulation of the measured inverse distance field strengths. The inverse distance fields are all less than ±0.5 dB of the theoretical non-directional pattern RMS. A polar plot of the measured non-directional horizontal plane

radiation pattern is included as Figure 2. The measured non-directional field strength data and graphical plots of the data are contained on Figure 3.

4.0 COMPLIANCE WITH FCC RADIOFREQUENCY ENERGY GUIDELINES

The WEEX tower base is enclosed by a six foot high chain link fence. The gate to the tower fence is locked at all times except during times when maintenance is being performed by station personnel. Appropriate warning signs are posted on the tower access fence. The closest distance between the tower and the fence is 2.8 meters.

The electrical height of the tower at the WEEX frequency is 0.189 wavelength. Figures 1, and 2 of Supplement A (Edition 97-01) to OET Bulletin 65 (Edition 97-01) provide conservative electric and magnetic field magnitudes as a function of distance from the tower for tower heights of 0.1 wavelength, and 0.25 wavelength, respectively. The electric and magnetic field magnitudes on these figures are based on an input power of 1 kilowatt. Using these figures, it is possible to predict the electric and magnetic equivalent power density that is present at the tower perimeter fence. Because the tower height is not identical to the tower heights used in the figures, it is necessary to interpolate the field magnitude using the two figures that are based on tower heights immediately above and below the actual tower height under study. Once the field magnitudes are determined through interpolation they must be multiplied by the square root of the power in kilowatts. For each station, the percentage of the general public electric and magnetic Maximum Permissible Exposure (“MPE”) limit can then be

calculated and the sum of these percentages can be compared to the MPE to determine compliance.

Using the procedure described above, the predicted electric field equivalent power density and percentage of the general public MPE from WEEX at the closest fence location is 13.2 mW/cm^2 or 13.2% of general public MPE. Similarly the predicted magnetic field equivalent power density and percentage of the general public MPE from WTNA at the closest fence location 7.34 mW/cm2 or 7.3% of general public MPE.

Because the electric and magnetic field equivalent power densities are less than the general public MPE at the closest fence distance to the tower, the facility is fully compliant with RF energy exposure guidelines with respect to the general public and contractors working outside of the fenced restricted access area surrounding the tower. Should access to the tower or to the equipment located within the restricted access area be required, the power should be reduced or terminated to ensure the safety of station personnel or contractors entering the restricted access area.

In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules

6.0 CONSTRUCTION PERMIT SPECIAL CONDITIONS

The WEEX construction permit contains a special condition to remove the unused tower used in the former daytime directional array or submit a proof of performance to establish that the proposed radiation pattern is essentially

omnidirectional. The tower was left standing and detuned and the proof of performance contained herein has established that the radiation pattern is essentially non-directional.

7.0 SUMMARY

It is submitted that the WEEX antenna system complies with the technical specifications contained in the construction permit, FCC File No. BP-20200225ACU.

This engineering statement and the attached figures were prepared by the undersigned or under the direct supervision of the undersigned and are believed to be true and correct.

DATED: July 15, 2022

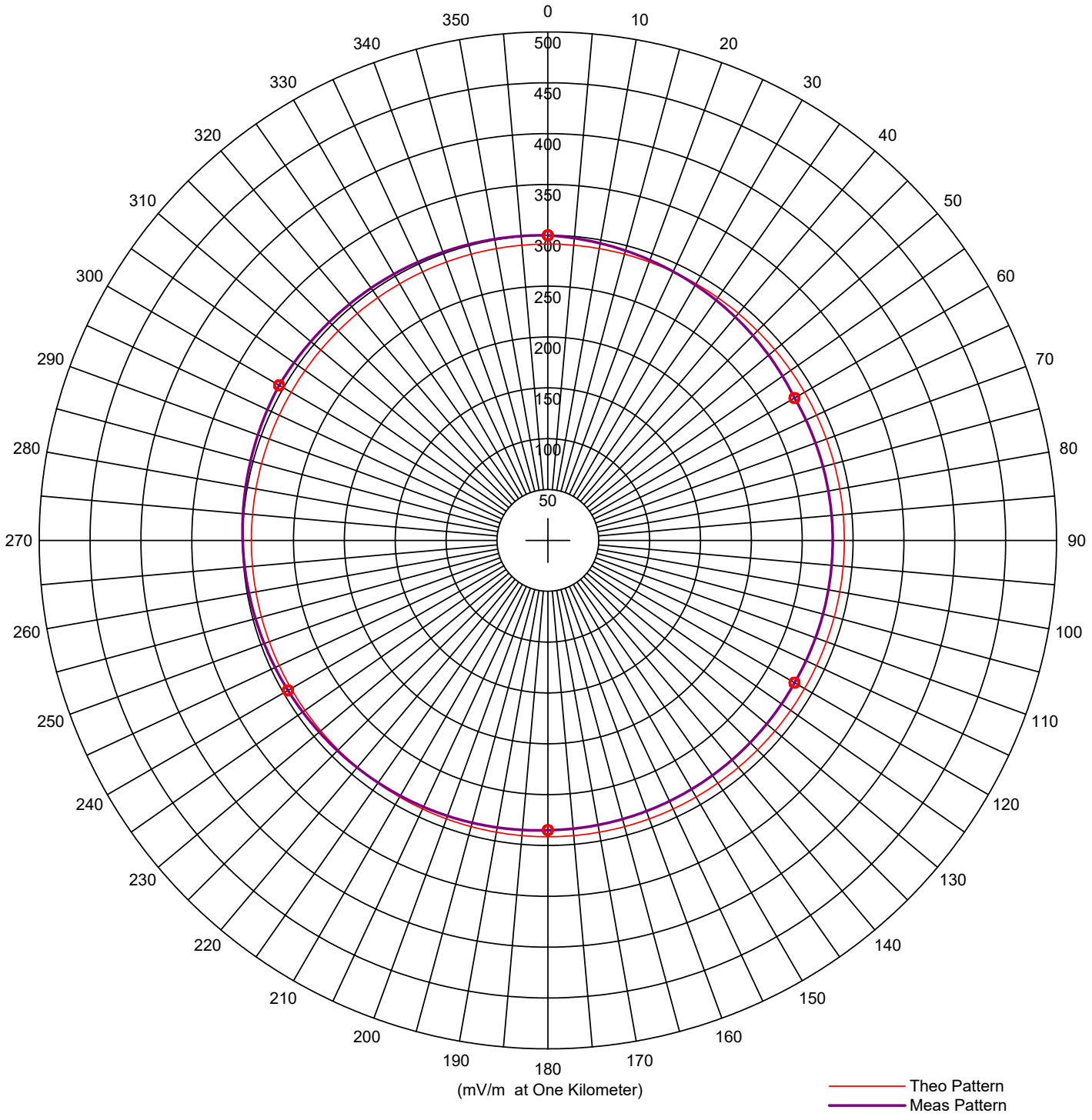
James D. Sadler

Figure 1

SUMMARY OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

Radial (deg T)	Non-Directional Inverse Distance Field Strength (mV/m at 1 km)
0	300
60	280
120	280
180	285
240	295
300	305

Figure 2



MEASURED NON-DIRECTIONAL HORIZONTAL
PLANE RADIATION PATTERN
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND
JULY, 2022

THEO RMS: 291.4 mV/m
MEAS RMS: 291.0 mV/m

TABULATION OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

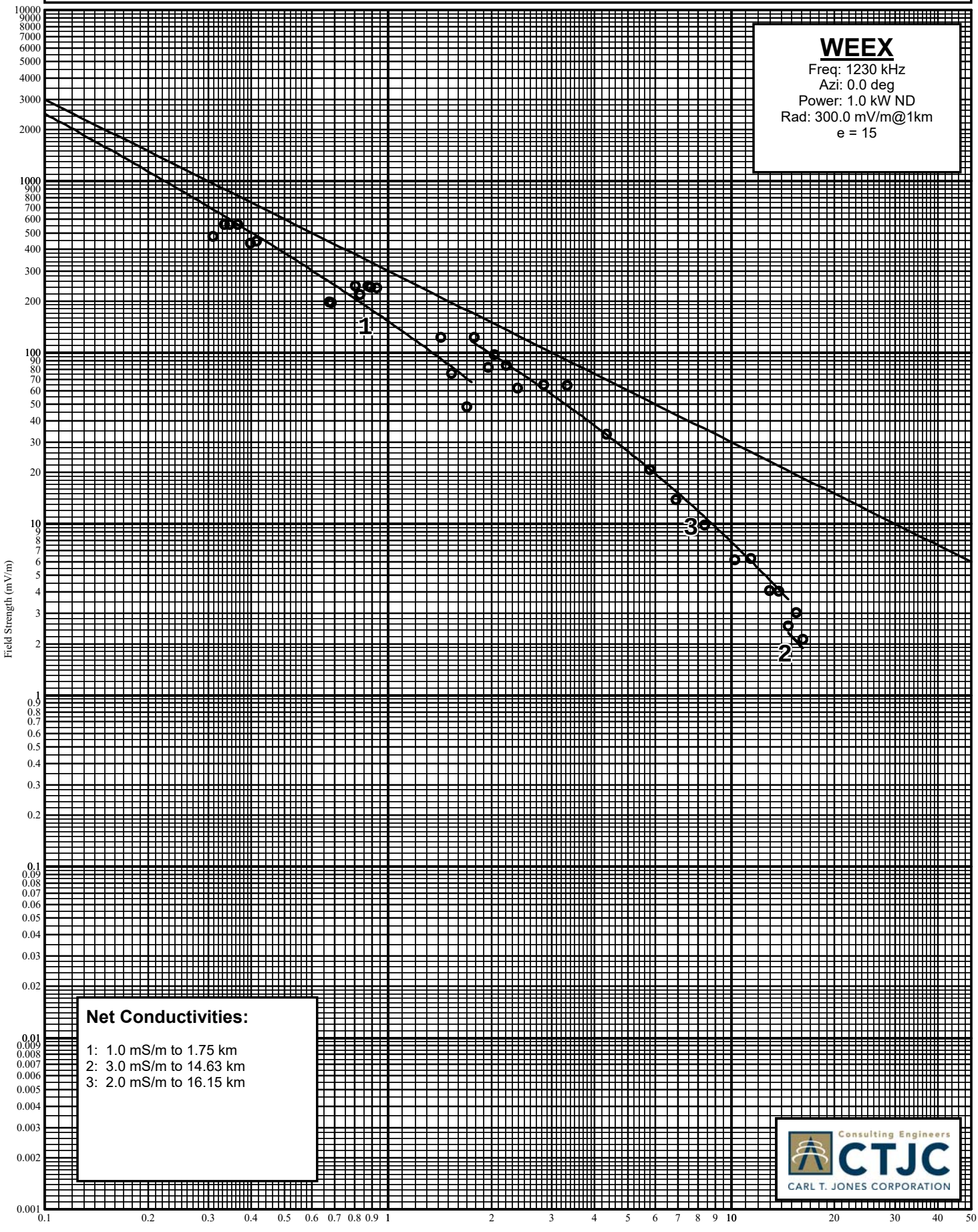
0° True Radial

Point Number	Distance (kilometers)	Date	Time (local)	Field Strength (mV/m)
1	0.31	4/5/2022	1302	475
2	0.33	4/5/2022	1305	562
3	0.35	4/5/2022	1306	560
4	0.36	4/5/2022	1306	562
5	0.40	4/5/2022	1309	435
6	0.41	4/5/2022	1311	447
7	0.67	4/5/2022	1315	197
8	0.69	4/5/2022	1315	195
9	0.80	4/5/2022	1320	246
10	0.83	4/5/2022	1321	219
11	0.87	4/5/2022	1322	245
12	0.89	4/5/2022	1324	240
13	0.93	4/5/2022	1326	239
14	1.43	4/5/2022	1330	123
15	1.53	4/5/2022	1336	75.6
16	1.70	4/5/2022	1339	48.2
17	1.78	4/5/2022	1342	123
18	1.96	4/5/2022	1346	82.2
19	2.04	4/5/2022	1349	97.5
20	2.21	4/5/2022	1355	84
21	2.39	4/5/2022	1356	61.9
22	2.85	4/5/2022	1400	65.1
23	3.32	4/5/2022	1402	64.5
24	4.32	4/6/2022	1250	33.4
25	5.80	4/6/2022	1256	20.8
26	6.90	4/6/2022	1301	13.8
27	8.37	4/6/2022	1311	9.84
28	10.24	4/6/2022	1321	6.19
29	11.42	4/6/2022	1325	6.27
30	12.92	4/6/2022	1330	4.07
31	13.76	4/6/2022	1335	4.03
32	14.63	4/6/2022	1339	2.53
33	15.44	4/6/2022	1343	3.05
34	16.15	4/6/2022	1350	2.12

WEEX AM Measured Field Strength

Shown With Matching Conductivity Curves

Figure 3
Sheet 2 of 13



TABULATION OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

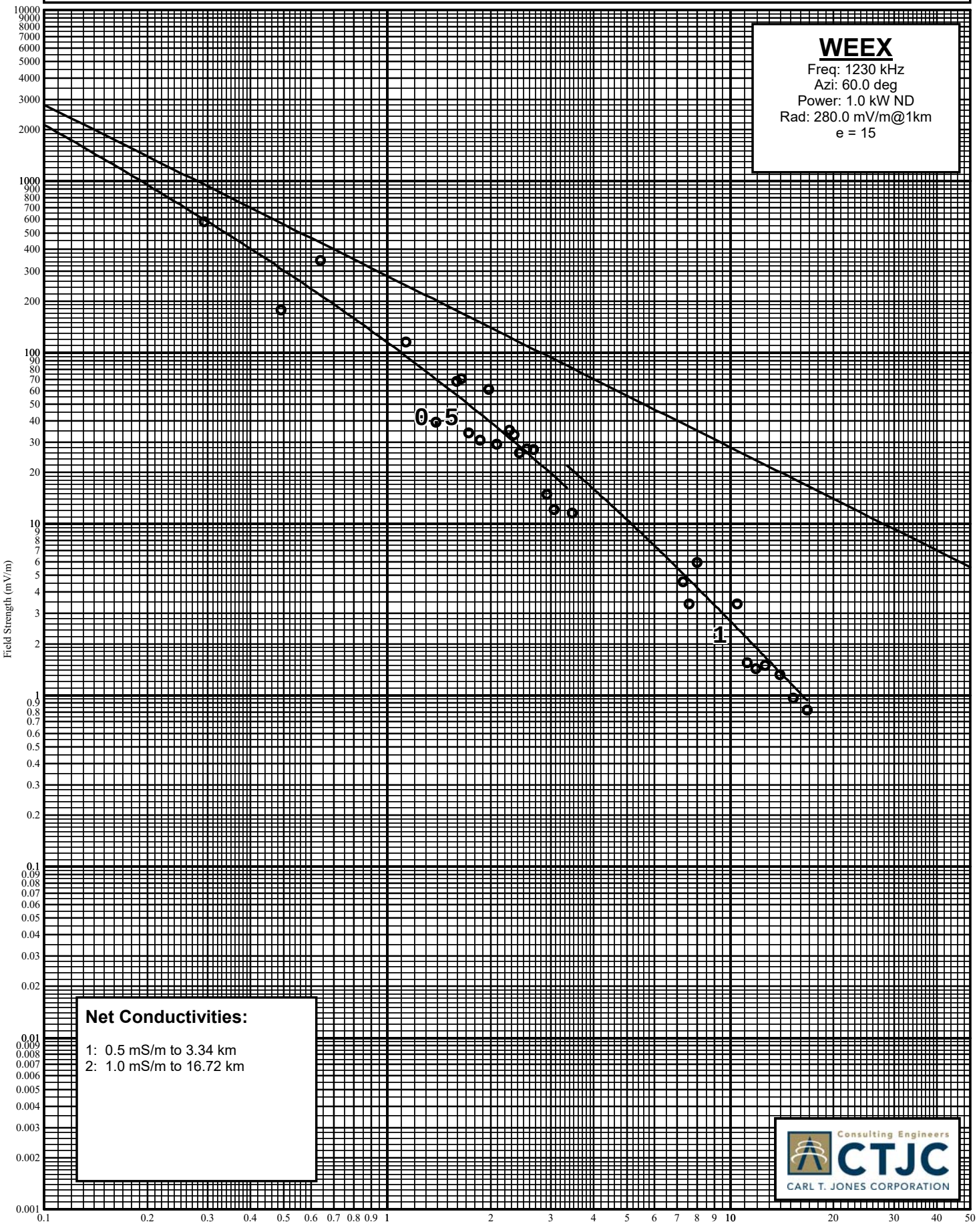
60° True Radial

Point Number	Distance (kilometers)	Date	Time (local)	Field Strength (mV/m)
1	0.29	4/5/2022	1541	578
2	0.49	4/5/2022	1545	178
3	0.64	4/5/2022	1547	346
4	1.13	4/5/2022	1554	115
5	1.39	4/5/2022	1557	39.1
6	1.59	4/5/2022	1559	67.8
7	1.64	4/5/2022	1602	70.2
8	1.73	4/5/2022	1604	33.9
9	1.86	4/5/2022	1605	30.9
10	1.98	4/5/2022	1607	61
11	2.08	4/5/2022	1608	29.3
12	2.27	4/5/2022	1611	35.1
13	2.34	4/5/2022	1613	33.1
14	2.43	4/5/2022	1614	25.9
15	2.55	4/5/2022	1617	27.4
16	2.67	4/5/2022	1621	27.2
17	2.92	4/5/2022	1645	14.9
18	3.07	4/27/2022	1432	12.1
19	3.47	4/27/2022	1437	11.6
20	7.29	4/27/2022	1445	4.58
21	7.59	4/27/2022	1451	3.41
22	7.99	4/27/2022	1453	5.96
23	10.47	4/27/2022	1458	3.41
24	11.22	4/27/2022	1503	1.55
25	11.85	4/27/2022	1505	1.43
26	12.65	4/27/2022	1506	1.5
27	13.97	4/27/2022	1509	1.32
28	15.22	4/27/2022	1514	0.962
29	16.72	4/27/2022	1521	0.818

WEEX AM Measured Field Strength

Shown With Matching Conductivity Curves

Figure 3
Sheet 4 of 13



TABULATION OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

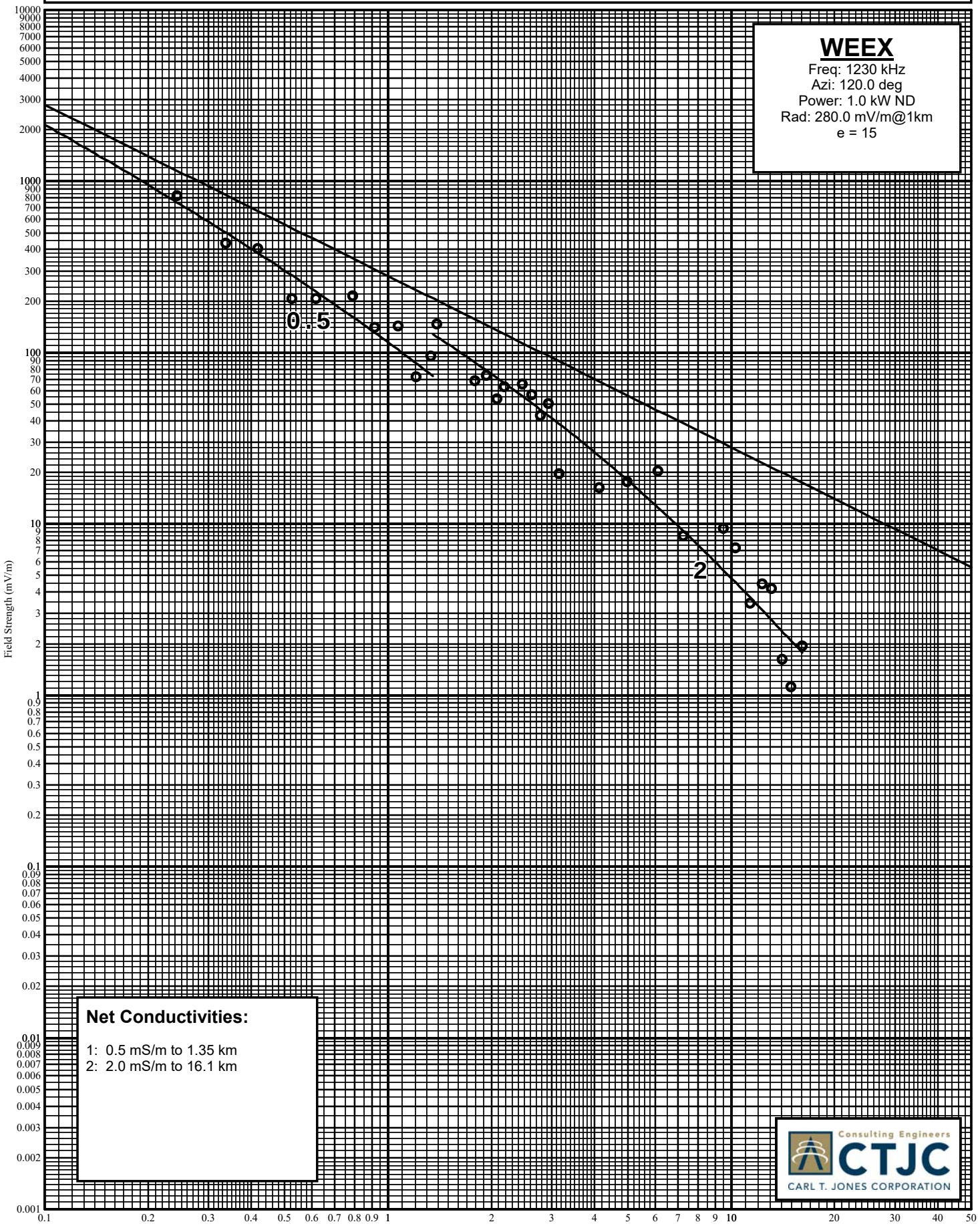
120° True Radial

Point Number	Distance (kilometers)	Date	Time (local)	Field Strength (mV/m)
1	0.24	4/27/2022	1048	826
2	0.34	4/27/2022	1050	436
3	0.42	4/27/2022	1053	405
4	0.53	4/27/2022	1055	207
5	0.62	4/27/2022	1057	206
6	0.79	4/27/2022	1100	214
7	0.91	4/27/2022	1102	141
8	1.07	4/27/2022	1104	143
9	1.21	4/27/2022	1106	72.4
10	1.33	4/27/2022	1108	95.3
11	1.39	4/27/2022	1110	147
12	1.79	4/27/2022	1122	68.4
13	1.93	4/27/2022	1124	73.9
14	2.08	4/27/2022	1129	53.7
15	2.19	4/27/2022	1132	63.4
16	2.46	4/27/2022	1134	65.2
17	2.62	4/27/2022	1137	56.9
18	2.78	4/27/2022	1139	43.1
19	2.94	4/27/2022	1141	50.6
20	3.15	4/27/2022	1145	19.7
21	4.13	4/27/2022	1152	16.3
22	4.97	4/27/2022	1159	17.6
23	6.11	4/27/2022	1209	20.4
24	7.24	4/27/2022	1216	8.51
25	9.49	4/27/2022	1325	9.39
26	10.27	4/27/2022	1332	7.28
27	11.34	4/27/2022	1339	3.45
28	12.31	4/27/2022	1344	4.47
29	13.09	4/27/2022	1350	4.19
30	14.08	4/27/2022	1354	1.62
31	14.92	4/27/2022	1359	1.12
32	16.10	4/27/2022	1404	1.93

WEEX AM Measured Field Strength

Shown With Matching Conductivity Curves

Figure 3
Sheet 6 of 13



TABULATION OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

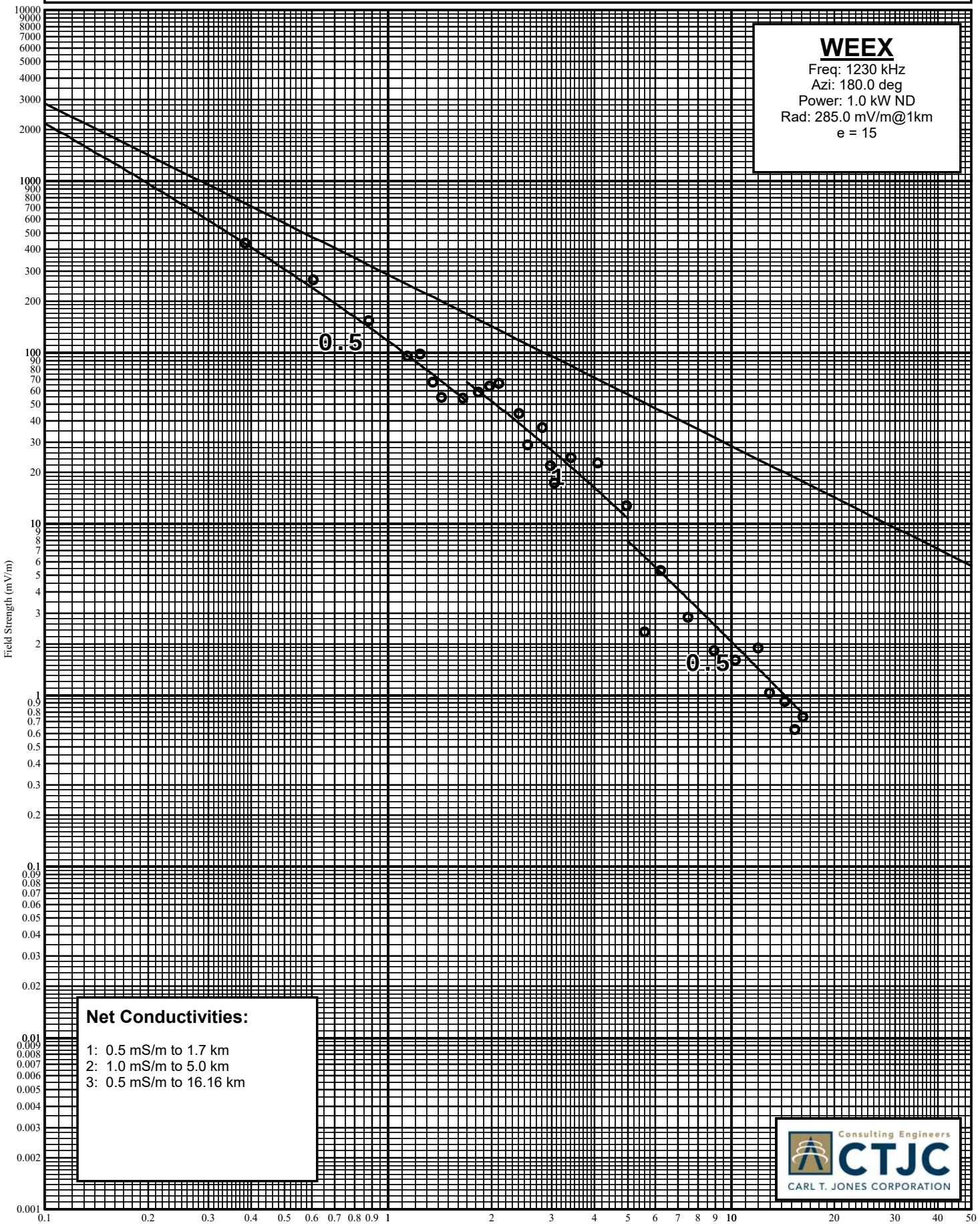
180° True Radial

Point Number	Distance (kilometers)	Date	Time (local)	Field Strength (mV/m)
1	0.38	4/26/2022	1641	434
2	0.60	4/26/2022	1646	266
3	0.88	4/26/2022	1653	154
4	1.14	4/26/2022	1709	95.3
5	1.24	4/26/2022	1712	98.2
6	1.35	4/26/2022	1716	67.5
7	1.43	4/26/2022	1718	54.9
8	1.65	4/26/2022	1727	54
9	1.83	4/26/2022	1731	59
10	1.98	4/26/2022	1733	63.8
11	2.10	4/26/2022	1736	66.1
12	2.41	4/26/2022	1741	44.2
13	2.55	4/26/2022	1745	28.9
14	2.81	4/26/2022	1753	36.4
15	2.97	4/26/2022	1802	21.8
16	3.06	4/26/2022	1806	17.4
17	3.42	4/26/2022	1810	24.3
18	4.08	4/26/2022	1815	22.8
19	4.96	4/27/2022	856	12.8
20	5.58	4/27/2022	902	2.34
21	6.22	4/27/2022	906	5.36
22	7.49	4/27/2022	914	2.86
23	8.93	4/27/2022	921	1.82
24	10.30	4/27/2022	932	1.6
25	11.99	4/27/2022	940	1.89
26	12.91	4/27/2022	946	1.03
27	14.31	4/27/2022	955	0.92
28	15.33	4/27/2022	959	0.63
29	16.16	4/27/2022	1004	0.745

WEEX AM Measured Field Strength

Shown With Matching Conductivity Curves

Figure 3
Sheet 8 of 13



TABULATION OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

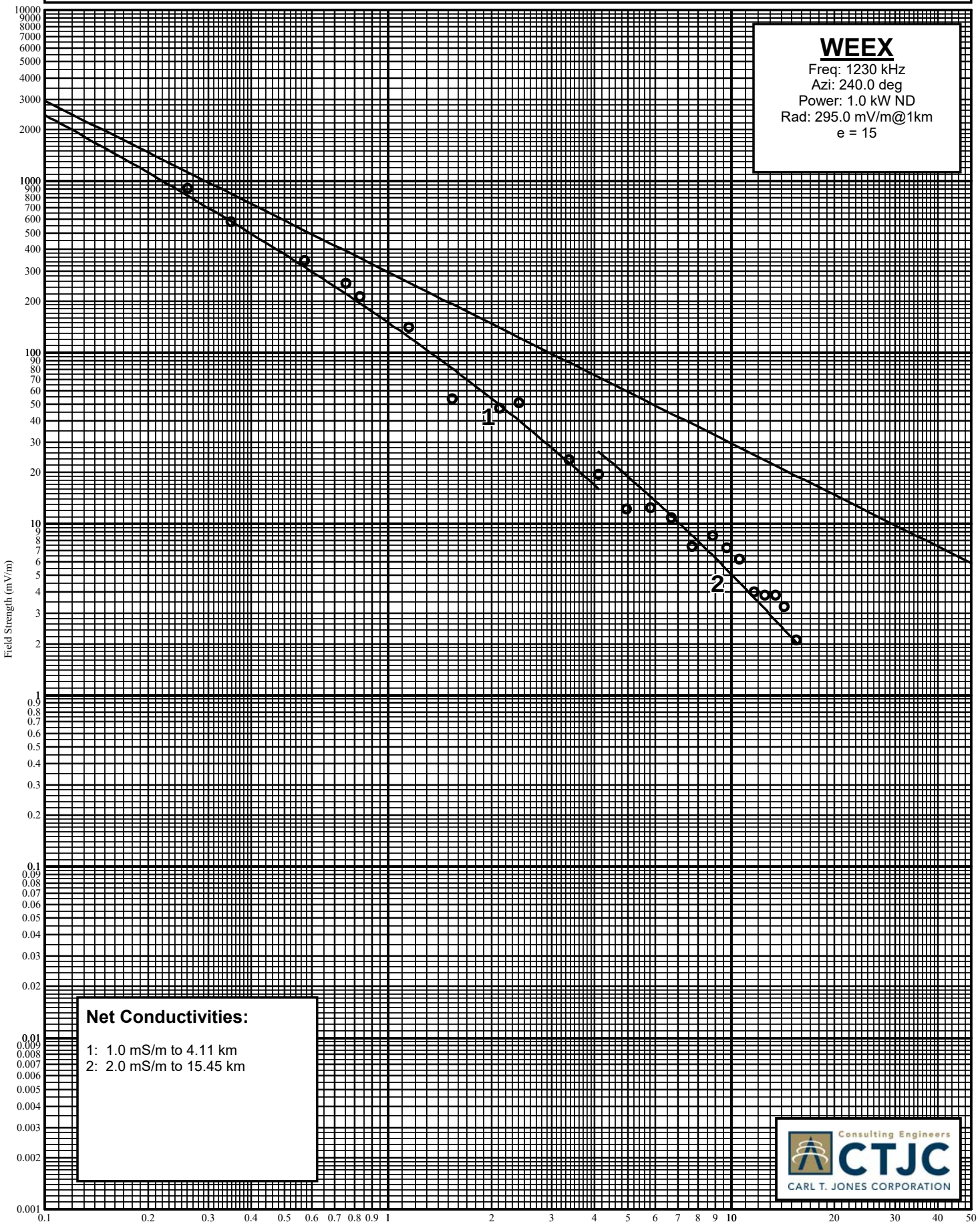
240° True Radial

Point Number	Distance (kilometers)	Date	Time (local)	Field Strength (mV/m)
1	0.26	4/26/2022	1536	910
2	0.35	4/26/2022	1540	582
3	0.57	4/26/2022	1543	344
4	0.76	4/26/2022	1547	253
5	0.83	4/26/2022	1550	212
6	1.15	4/26/2022	1600	141
7	1.54	4/26/2022	1607	53.6
8	2.11	4/26/2022	1618	47.5
9	2.41	4/6/2022	1541	51.1
10	3.37	4/6/2022	1551	23.8
11	4.11	4/6/2022	1602	19.5
12	4.96	4/6/2022	1607	12.2
13	5.83	4/6/2022	1616	12.4
14	6.68	4/6/2022	1620	10.9
15	7.67	4/6/2022	1626	7.4
16	8.84	4/6/2022	1631	8.56
17	9.71	4/6/2022	1637	7.23
18	10.56	4/6/2022	1640	6.25
19	11.66	4/6/2022	1645	4.01
20	12.53	4/6/2022	1652	3.82
21	13.43	4/6/2022	1657	3.9
22	14.27	4/6/2022	1701	3.29
23	15.45	4/6/2022	1705	2.11

WEEX AM Measured Field Strength

Shown With Matching Conductivity Curves

Figure 3
Sheet 10 of 13



TABULATION OF MEASURED FIELD STRENGTH DATA
STATION WEEX - EASTON, PENNSYLVANIA
1230 kHz - 1 kW-D, 1 kW-N, U, ND

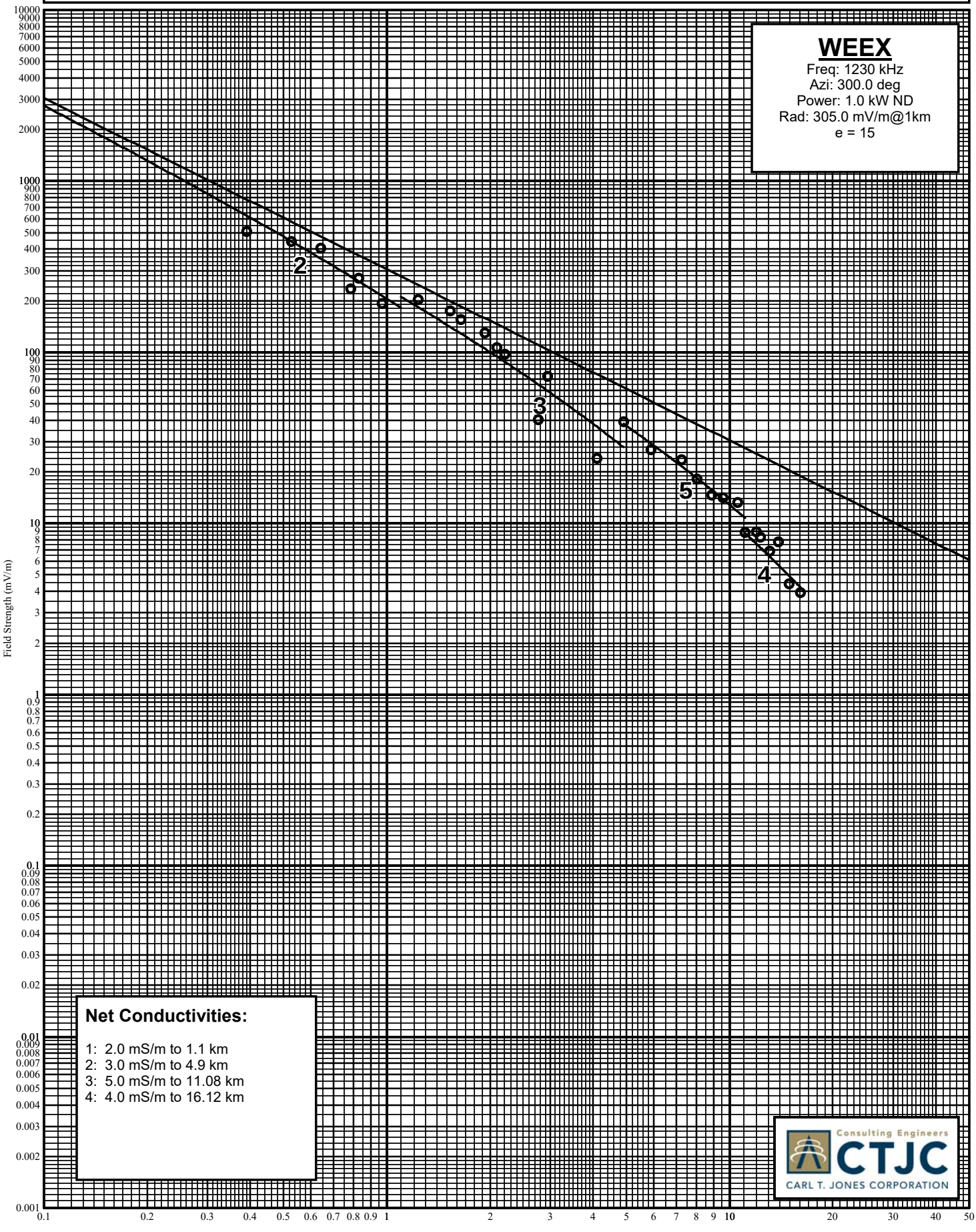
300° True Radial

Point Number	Distance (kilometers)	Date	Time (local)	Field Strength (mV/m)
1	0.39	4/5/2022	1417	508
2	0.53	4/5/2022	1421	443
3	0.64	4/5/2022	1424	407
4	0.78	4/5/2022	1428	234
5	0.83	4/5/2022	1430	270
6	0.97	4/5/2022	1431	193
7	1.24	4/5/2022	1448	203
8	1.53	4/5/2022	1450	175
9	1.64	4/5/2022	1452	155
10	1.93	4/5/2022	1455	130
11	2.09	4/5/2022	1457	106
12	2.21	4/5/2022	1459	96.8
13	2.76	4/5/2022	1505	40.4
14	2.94	4/5/2022	1510	72.2
15	4.1	4/6/2022	914	24
16	4.9	4/6/2022	918	39.1
17	5.9	4/6/2022	924	27
18	7.24	4/6/2022	928	23.5
19	8.03	4/6/2022	1044	18.20
20	8.85	4/6/2022	1052	14.6
21	9.56	4/6/2022	1110	14.1
22	10.55	4/6/2022	1121	13.3
23	11.08	4/6/2022	1116	8.81
24	11.95	4/6/2022	1128	8.92
25	12.29	4/6/2022	1133	8.33
26	13.07	4/6/2022	1137	6.87
27	13.9	4/6/2022	1143	7.79
28	14.88	4/6/2022	1148	4.42
29	16.12	4/6/2022	1154	3.95

WEEX AM Measured Field Strength

Shown With Matching Conductivity Curves

Figure 3
Sheet 12 of 13



Groundwave Field Strength vs. Distance

Inverse Distance Field: 100.0 mV/m@1km

Figure 3
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