G

May 1st 1925 to

October 8, 1925

(inclusive)

Arthur Kaufmann

G. Clerk

~~Arthur~~ AVK

(Note peculiar construction of "f")

(all official)

May 1st 1935

wavemeter (calibrating set)
readings taken
KFRC and KJBS used
as standards curve
is somewhat irregular
but is fairly accurate

4½° - KJBS - 936.1 (4) 59
10½° - KFRC - 967.7 (4) 67
17° KJBS - 936.1 (3) 78⅔
27° KFRC - 967.7 (5) 89⅓
28° KJBS - 936.1 - no radiation
31° KEH - code - 93
51⅔° KJBS - 936.1 (2) 118
75° KFRC - 967.7 (2) 134

using B.T. shortwave tuning
unit (30-100) 11 plate low loss
tuning condenser and no load
3C-899 - tubes
Eimac in tubes drawing 125a instead of 1060

May - 1 1925

On 37 meters using a single wire antenna 80 feet long including lead in. I TCA could be read on the meter without the aerial connected. upon connecting the aerial the set stopped oscillating. 19 milliamperes at about 333 volts AC from a fuel coil with the vibrator tightened to the plate the tube (5 watts) ran cool, both tube and coil fed 8 V AC

May 2-3 25
PM AM

11:25 PM Tuned 21 meter plate

Called 6QD - ND QSA
" 9CUV - ND QSA
" CQ ND
" 6BMO ND QSA
" 6QC ND
" CQ ND
" CQ ND
6BPA ND

put 23 plate readings in series with counter. Used capacity ranges at 21 mtrs. Called QRZ 9BDC ND
CQ
find I can get a bad burn by touching antenna part of the aerial system

Called 6DBE ND
6IH ND

12:00 AM

- May 3 -

wkd 6BHW - on 79 & 80 at 6 [illegible]
called 7WA - ND
" 6AHW - ND
" 6CMD - ND

by putting at 11 turn in shunt of secondary 80 meter coil run in at abt 35°

called 6BPA - N.D.

With a 9 turn in shunt 80 meters at 70° but set does not oscillate very transmitter was changed

May 3)
to (lower wave)

grid - Top
Tela - 4 turns
Cond Stat 5
Plate 8
Cond Rotor 9
with a 43 Pacific coil a 43 Pacific series with a 43 Pacific in series with the condensers. Coupled .1 MCA and 30 mills was obtained in the

May 31

Fuse counterpoise and 30 foot 4 wire cage

.05 could be obtained with aerial at receiver side of switch

got transmitter working at 51 meters.

(got loud CW note at 102 meters

on receiver 01a

& thumb it 3rd upper harmonic

23 mills @ 225 V dc

with aerial ckt tuned to 80 meters get .09 T.C.A

upon opening aerial switch get 0.1 TCA

on calibrated get CW note at

May 3 Oly

E B Braden Lodi

840 Powder St.

Dr. D Payarna

Gal Hos 10%

Ba [illegible] wave

and Setting

on 37 1/3°

off 37°

Mt 0° (not horizontal)

returning

.1 in acid (capacity type)

get sharp harmonic

at 17° or 18°

strong wave

May 3 Oly

A. D. Bush

Keystone Apts

Elec Prof Dyer 7

returning

get .1 switch open

slightly less with

switch on.

wave seems to

be 19° on 51 meter

wave is not very

strong

emitted wave should

be 405 meters

C D E F G H I J K L M N O P Q R S T U V W

May 3

~~H. H. Bancroft~~ Cly

~~The Calif. Pilot~~ Book

also a very strong harmonic probably 3rd at 43° or 118 meters

check

2nd = 81 meters medium
fund: 40.5

3rd = 118 meters strong
fund = 39.3

3rd = 81 meters medium
fund = 27

4th = 118 strong
fund 29.5

May 3

~~H. H. Bancroft~~

~~The Calif. Pilot~~ Book

1st error 1.2 meters

2nd 2.5 meters

first is probably correct because of the 3rd harmonic been stronger than the 2nd & difference in errors

so true is between 39.3 and 40.5

~~Ed Brezin~~
~~1200 Dublin~~
~~Granby~~

May 4, 1935
called on 40.5
meters several
times.
no results...

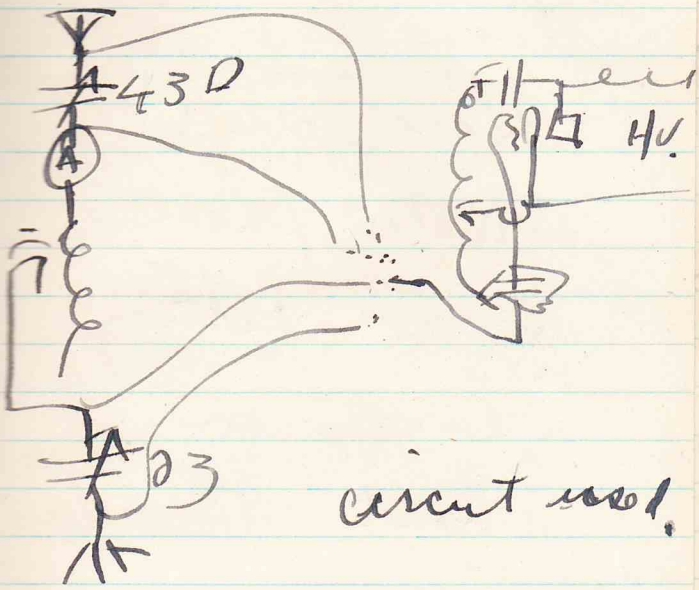
May 5.
called CQ on
40.5 for half
an hour but
did not try
to work anybody
find that every
time the aerial
current goes up
higher without
an aerial using
only a 1 ohm

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

May 5

counterpoise
in a 5 watt
capacitively coupled
set.
also shifted
nodal point
around but
did not affect
radiation much

May 5



circuit used.

radiation seems
to drop off
a little as
nits cores
and so

May 5

best in the day.

Have terrific QRM from some battery charger on about 98 meters

also can hear some motor on abt 46 meters

~~L. W. Christy~~
1018 Van Nest

~~Hat size 6 7/8~~
~~Shirt L 17~~

May 10, 1935
moved to apt 305
1014 Polk St.
S.F.

May 25, 1935 while working 6BIF on 80 meters at 11:35 PM Swatbe (C-302) passes on this future life

C D E F G H I J K L M N O P R S T U V

~~L. W. Cut for~~ Oks
~~144 2 wire~~
~~(Ground)~~
~~Short Lays 44½-34~~
aerial at left
mast kite

June 9, 1922
Purchased Rocci
900-3 watts
cost #3.33.
also C.G. 1162
recd and
from Upson
Gordon at
High School

of commerce for
#1.05

June 9, 1922
Start construction
of 100 watt power
transformer.
core 1" square
and was purchased
from-GBIF-New
Primary -900
turns layer
insulated with
fuchsine tape
of #34 DCC
7½ turns

per watt.
secondary in
Pies - 1st
2,700 turns
pile wound
#38 enamel
obtained from
Ford coil sec-
ondary.
to deliver 860
watts 25 mills
(does not)
it heats up
badly when
Passing

60 mills at
D.C.

June 13, 1925

2 more pies
wound with
#30 dcc cost 95¢
with 4" x 2½"
bakelite tube gratis

600 turns pile
wound in one
coil - 80 watts
400 turns ditto
in other.

June 14-1935

9:00 PM on experiments on 40 meter turns in inductance and grid - top antenna exciting coil also at top secondary rotor - top
- stator down
filament 2 down
Plate 4 down

43 Plate high loss

secondary condenser almost entirely out.

using capacitively coupled set.
6 turns space wound #14 bare on 4" form for load coil.
43 plate high loss condenser in antenna & ground
23 plate in ground.

obtained .15 TCM on 40 but could not raise anybody

11 plate high loss in coils with antenna exciting lead varies coupling and also detuning plate current running about 30 to 45 ma

opening antenna circuit only causes a slight drop in antenna current.

get .1 radiation when both antenna & counterpoise are disconnected

Antenna

erected a 200 foot wire as shown (A) and got .1 amp adjustment also (B)

and

did not try
with counterpoise
erected. Did use
(5) wire bird
with 50 mills
on plate
got .35 TCA
did not
work anybody.
Transformer
secondary
gets hot
very hot.

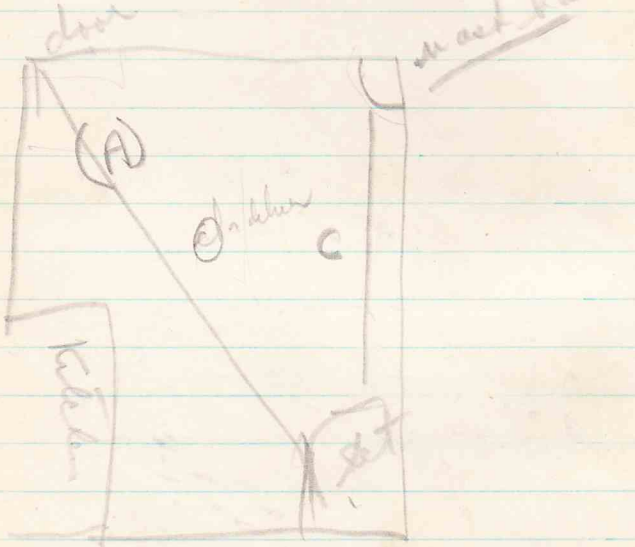
~~S. Doughton~~
~~Work Exchange~~ By
~~Last~~
~~Page 74~~

when hand is
placed near
set, set stops
oscillating and
plate current
jumps to 60
mills.

(using same
tube with
10½ volts and
1½ ohms in
rheostat for filament

~~T. J. Deasy~~
~~976 Bush St~~

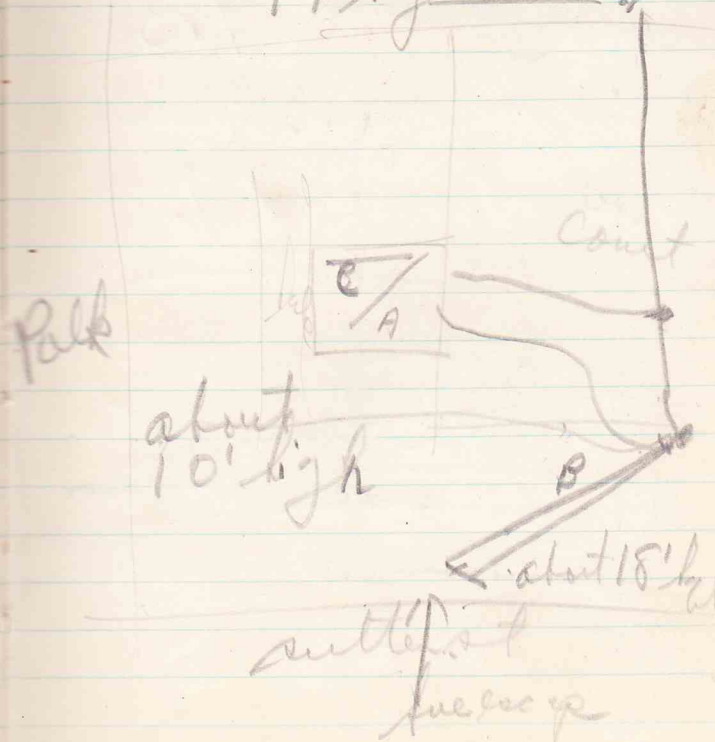
3,700 lumens
or 494 watts
on plate (?)



~~E. W. Landsott~~
~~148 [illegible] St~~

A - about 20' long
near ceiling

(B)
(C) about 16' as ditto (A)
14' high



outlet
[illegible]

using inductively coupling and ditto as for .33 TCA - get .3 TCA.

more ~ 39.5

(Cannot measure and was 79.

~~Recount~~

~~clock — gave~~

~~KJBS - 236 - 7.37.3~~

~~at 4° - 9 turns right~~

~~of sec~~

~~KJBS - 7° - 33~~

~~Sheet #~~

~~KJBS 3½ - 236 - 78~~

Check on 4 of 9 turns right of sec.

KJBS	- 236	- 3⅓°	(7)	33⅓
KJBS	- 236	- 9½°	(6)	39.3
KJBS	- 236	35°	(4)	59
KJBS	- 236	10⅓°	(3)	78⅓
KJBS	- 236	18⅓°	(5)	47.7
6CKK	- 39.5	- 9⅓°	(1)	- 39.5

Am using 37.23 watts input.

upon replacing 5-watt tube with a Reduction (89¢) 201-A tube got .42 amp in

E F G H I J K L M N O P Q R S T U V W Z

the circuit instead of .35 the CG 1162 got very wht work only 30 mills a plate and does not put out as good as the regular 5-watter. Stub possibly my wave may be 20 meters instead of 39.9

elw

~~Daniel W. Evans~~
~~877 Mills Bld~~
~~Bro~~

on 40 a(00) about .8 radiation was obtained in a wire only 7' long parallel to wire A-in sketch. Thinking it was necessary to bridge an 11 plate light loss condenser across

the antenna & ground binding posts on set to keep set in resonance as wire was shortened. set was more and more unstable as shunted. stop oscillate, & the plate current moved go up to

15 mills which is not very bad. as capacity was increased the antenna series condenser (43p) in set had absolutely no effect on wavelength but only controlled as to whether the set oscillated or not. when there was no

transfer of
energy set
up used to oscillate

operating a Ro
803 and a CG
1163 in parallel
was entirely
unsatisfactory
as was using
2 amplifier
tubes, either
because the
loads were
not the

same length or
the added capacity
in all cases
both the radiator
and plate melts
dropped upon
inserting the
second tube.

Placing 45 volts
on plate of detector
tube made receiver
operate much
more stably.

KEL - 3 end-fan
at 39½°
with 6 turn basket
means in shunt

KEL - end-fan
at 16⅔°
with 9 turn coil
in shunt.

June 15 - 1935

built wavemeter
consisting of
3 turns #14 bare
copper aerial
wire wound on
air - (?) held in
place by string
turns are 5" in
diameter and
are spaced about
3/16". The
is in series
with a porcelain
socket containing
a

F G H I J K L M N O P Q R S T U V W X Y Z

detector tube becomes paralyzed again. Have to run at 3. watts so no Blabby for a while.

Condenser Plates are are about 3/4 in and 1/4 out. but still wave must be very low.

June 16, 1925

11:00 PM raised and worked until 12 M GAIE-(FZ) when raised his wave was 39.5 meters (using receiver and so was DCJ. But when communication stopped he was using a wave of 33 meters and it was a little more or less. during latter part of transmission a type Radextron 201A-(89?) was used, this permitted transmitter to oscillate at a lower wave than was possible with UX Porce 202- no secondary condenser was used and the

12 foot aerial was used. The tubes were about like this.

Grid Top
Antenna Exciting lead
Filament 2 down
Plate 4

The usual layout
+6" inductance.

When using Roice 202
494-Volts AC on plate
at 37 mils and below set
oscillated unevenly
and plate current
was 65 mils.
(Normal for 40 is
45 mils at 494 volts
Radiation .31 This using
Roice 202) and radiation
was .15 when
Radextron was used
wave was reduced to
about 33 meters

and Plate mills at 494
V. A.C. dropped to 38
and radiation was
.31 quite an increase
and set oscillated
much more stably.

Tube increases (R201-A)
in brilliancy when key
is pressed due to extra
38 mils flowing.
no center tap on
filament transformer
is used.

Purchased 894 200
(RCxtron) at 1127
Market - Am. Radio. Store
was defective. Taken
back and was replaced
by a Radextron 194
which is apparently
OK.

201-A - was removed
and R202 - inserted without
altering R202 would

not oscillate but upon return: 201-A Radiation jumped to .41 at 313 meters more or less. Plate current remained 38 mils. Probably because set was not tuned properly in first place. With the present system - Buck-in telegraph is possible because of the numerous dials.

W.B. Overstreet
1655 - Washington St
San Francisco
Calif

(PZ)

June 20

~~Verdon~~ Cash
~~Letters Hotel~~
~~Room 503~~
~~Suit: Size 38~~

Lost all 199 type tubes and find that the Ra-Der dry drains 55 mils at 4 volts. Actual VV199-65 A.T.Co. 199 - 95 - Clevatron 199 - ?
(These are all marked on the face of the tubes.)
~~Find that Radio~~
202 is soft. as found by

a white flue glow when key is pressed.

Go on returning it (on Wednesday 24th of June on mon. "Oak Glen.") (Must return by mon August 3rd)

June 23, 1925

Went on location at "Oak Glen" Olympia, Calif. Cleared out my old location parcels and unpacked my trunks. Find that all three parcels have arrived but on the 3rd has been badly knocked around and a 100 watt electric bulb is broken also saucepan and lid (aluminum) are badly dented.

In trunks one vacuum tube is rather tight everything else OK

2 - 8 mfd Ford bulbs (2 lite) kitchen

H I J K L M N O P Q R S T U V W

June 26, 1935

Finished cleaning out pen station. (one sent to S.C.) Chiseled out 3 3" holes in panel of transmitter for meters. It is very hot here. 92° in the shade that thermometer read above 120° Fahrenheit in the sun at 4 P.M.

June 27, 1935

Put up pole and coil ball for aerial. Much cooler today.

June 28, 1935

Put up aerial prop also mast. Left to American Radio Stores Inc. S.F. for 2 WD11 tubes at $1.69 each.

June 29, 1935

Put transmitter together. Checked counterpoise. As previously connected the receiver would not work

June 19, 1925

because -45 volts were applied to plate of detector.

Re-hooked up set and it works O.K. Signals seem much louder in daylight.

Found flat aerial has a fundamental somewhere below as aerial does not absorb much energy from received wave coupling is quite tight.

Can hear 3rd harmonic from some BC station when

June 19, 1925

quite loud for daylight.

8 OK stations heard

6CIS - QSA

W1R - (ABC) vy QSA daylight on 16° - 77 meters.
(QRK without aerial at 15%)

6AIx - Vy QSA - 1 C W 20° 40d
(5 from hill more violent 24°)

cq 6BUR 80K - QRK

6NW calling M 3y - weak 20° nearly into - C W

6CAE calling 6CB?

CQ de 6BVM fair - ACW
cq de NZ-2 ?? too much QRN - nearly into DCCW

cq 6DH

cq de 1-5?, vy QRZ - DCCW

June 29, 1935

TALK to ? DCCW

fair - nearly unto.

(8:30 PM)

June 30, 1935

very hot today.

Got transmitter working but it only drew 10 mills at 90 volts, using a 2nd amplifier tube. Using old 20HA transmitting tube the plate current was abt 3 mills at 90 volts.

(B. Battery)

Tubes were received from American Radio Stores, S.F. today. One is apparently the same as

J. H. Hoyle Cash

Terminal Hotel

2018 Duncan

the old tube and the other was defective so was returned.

Hooked up feed coil arrangement and now I draw 6 mills. (With .007 mF.) home-made glass plate condenser connected across the secondary leads makes very little difference in plate current is nil, not sure yet as oscillating.

There is a very loud raspy sound radiated from the

Mrs E M Heller
Fairmont Hotel
[illegible]

transmitter at
about 85 meters.
6CQE calling 7KZ-F
6TJ - CQ - called [illegible]

KEh very QSA at 33° or 96°
however this was probably
due to the dial slipping
during shipping.

6BSF de 6CHN - aboard speaker
40K
CQdo 1AAO - DCCW - fair note
CQdo 5CN fair ACCW
KFN-V - abt 50K
QSA - DCCW

J. B. Hustage
1700 [illegible]
Good

July 6, 1925

Not very hot today.
Attempted to remove
box from kw #3
and was badly
stung, especially
about right eye
which is closed
as a result.
Tip of mast (5' fr
top) snapped off
while on ground.
Have temporary
rig-out for antenna
cage.
Started a and
finished 8 watt
secondary on
100 watt transfor
contains 60 turns

#18 double cotton covered wire in two layers.
0 - end
15 turns - 1 knot
30 - (center) 2 - "
45 - 3 - "
60 - end

July 2, 1935

WIZ to ZAP - QRK 6:30 PM

Blew 3 type 199 Tubes
1 - Ra Dex - 89¢
1 - Clearatone - 89¢
1 - C-299 - (Genuine) 2.75
#4.53

Ordered 3 type Radex - 199 tubes from American

Radio Stores Inc S.F.

Put up mast
Hot wire is off pulley
so it will be necessary to lower Dam again (seems to be a streak of bad luck).
Tubes were flown by shorting 4 volts of "B" thru the filaments while I was putting in a short wave coil.
By jamming all the wires with the "A" full on the Clearatone 199 was again made to lite.

July 3, 1925

Order to Am. Radio ~~Corp~~ fld. up pending forecasted.

Card received from Rocha Tavares Macao China announcing congrats to Major L. Matt, started construction of keying interrupter.

Brought out all old 199 type tubes and finally fused the filament of one together but upon removing it from socket of it again broke somewhere the Cleavage remained OK. Put in both cases that two ends of the filament merely leaned against the grid.

6:40 PM Rain is falling in big drops but the sky is only partly cloudy elsewhere.

July 5, 1925

The keying interrupter was unsatisfactory because it was impossible to raise primary current above 1 amp. (3 amps were required)

July 4, 1925

Operated set at Zayante. Lake out was a Radiola IV belonging to Mr. Holt that Watts was poor (total or insufficient volume)

July 5, 1925

Waited for Mr. Lane but after all did not put up set at Zayante Lakes. Hammond erected temporary aerial at house and set worked OK.

July 6 1925

Tube arrived from American Radio Stores S.F. Letter from Royce Tube Co NY. Booking from Diamond Match Co.

Batteries were put together.

2 Gentlemen & a boy called to see station will call again later in week.

July 7, 1935

Played around with bees. Gentlemen from Fordes Rest called and unloaded his trouble as to a burnt out tube. Lent him a American 199 for time being. Set is a Wright 5 tube. (199) did not seem to work. Fails to work.

American Radio Tube returned results from tube in own set rather poor

July 8, 1935

Letter to Royce Tube Co. Order for 5 - 199's to Am. Radio Tube. Letter to H. Mott (WXAP-67W) as regards card from China. Hung bees by bees of Hive # 2

July 9, 1935

Worked all day on broken pipe at pump.

I J K L M N O P Q R S T U V W Z

Jul. 10, 1935

Found swarm of bees in side of house belonging to Mr Ferguson (Wilson).

Mr. ? at Foades Rest wants to hear set. Go to station tomorrow so that I may locate trouble in R.F. Amplifier

Jul. 11, 1935

Tubes received OK from American Radio - S.F. (3-199)

Mr. ? from Foades Rest brought over his 5-tube R.F. set. Seems to be N.G.

Pd Mrkd - 9 - Lyon Road (Zayante)

The 3-199-characteristics (4½v-Supply 30 ohm Rheostat)

	Lowest	Highest
1 -	75 Milliamps	101
2	60	80
3	65	82

All seem to be very good.

Wkd - 1 hrs
on Road (Pompeio)
Tank at 4.

July 12, 1925
½ kow. Zaganto
¼ kow Pompeio

July 13 - 1925
½ kow - 5°00 Gallons
Pompeio.
Mast snapped
off agn.
Card from 6XAD
Raided hens at
Wikipgup
Got key - go
a little loney

but bees have
some kind of
foul brood.
Bank book back

July 14, 1925
4°00 Paid by J.
Sennat for
water. Road
also water.

July 15, 1925
Rd at 12:05 - (7-16-25)
1 EL - pse - ur QSA
6 AWB QSA
6 AWT (mtr and
6 ASR - QSB hotter
2 BUY de TFB - QSA
had QSS & QRN
ABC de WIZ AR QSA

July 16, 1935

11:00 PM 4 of 7

ZHC [illegible] V. - de W1ZK QSA
GBCK - to C65 - QRS
900 - DC - QRZ
40A - QSA
900
called CQ several times beginning on arrival of passenger
34° 35° 35° 31° 35½°

7, T
900 - called
6CHA to CQ
(CQ called)

1AA - CQ QRZ - DC -
7AFK hid & called ND
WAP de 6BUR
III
KFVM de 7AY
CQ de 6BUE - called ND
NZ 7XA at 23°
with 3 turn coil in shunt

DCCW - fairly QSA
CQ de 6AL F called
WAP de 7AY QSA - ACCW RRAC
7AY de 1AA - (5NN) DC - fair
1AA - QSA - to CQ - DCCW
at 28½° 3 turn coil
in shunt.
(Early morning & late at night)(1:10 AM - 7447.5)

July 17, 1935

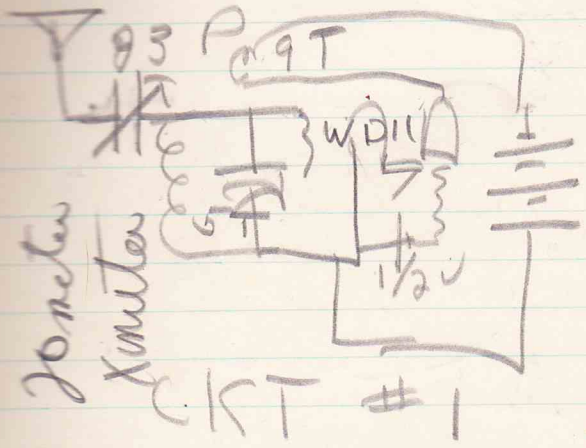
3½ hrs - 3,000 gallons
for Zayante.

1 hour - Pompeii
at 9:00 PM heard
KFKX Hastings
Nebraska

J K L M N O P Q R S T U V W X Y Z

40M

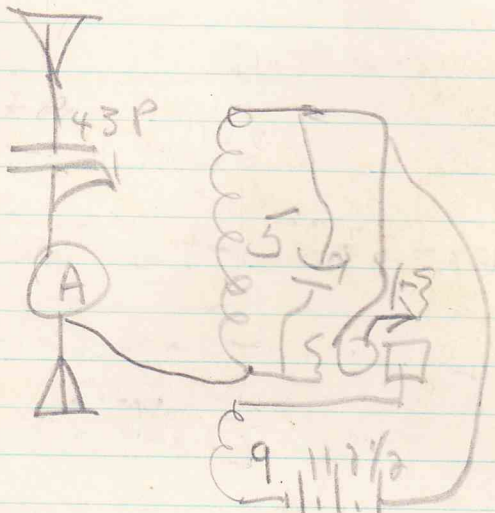
gud volume
but sigs very
sharp and also
undermodulated
at 640 o'clock.
B.T. shut vane
out as 1 stage.
6AJ - CQ - Vy QSA
can hear AC pot without
tube oscillating.
6ATS - CQ - V fair
called ND
NPM de 6AJ - DC - V, QSA
CQ de 6CPF - DC - fair.
ABC de W.I.Z. - vy vy QSA
CQ de 6DAT - QSA called ND
WK de 7.I.T
working 40M trans
mitter std style 6
WD11 - 1½ V. on
filament 112½ V. on
plates 11 mils.
When antenna is
moved it drops to
8 or 9. Have to called
many times



6SB - CQ - Vy QSA - called

Readjusted set and
now using 3
wire Radio counter
poise to the west
of the tubular cage
and a WD11 with
112½ volts on
plate & 11 mils

I get about .05 TC4 radiation at near 40 h



called CQ
9ECC de 7FB - QSA
NRRH de 7AY my QSA
6BMW de 7AOF QSA

"CohAF" - Test de 9CUQ
my QSA
CQ de 5PH called ND
1AAO de 9caa - Fair - Acew
called CQ
9DMQ - QSA test
"TECH" Test de 9XAV

Saturday July 18, 1925

KO GOM - Test de
6CGD - 5 20 PM
my my QSA -

1 - full day for Zayante
es abt 3000 Gallons.

1 - hour for Hompico

hd after 9.30 PM
8EB - QRZ
TEST "Genac" u 2XAF
W1Z - my my QSA

?? JIAA - ? caught end of msg

"MANGO" vy GZ - vy QSA DC

CQ 7UV - DC - fair called ND

"MZAH" Test de 8BPh

CAN 40 - hard work - DC - QSA

BKLYL Test de 1AIR QSA DC

DC 9CDV - Test - vy vy QSA

6AWT - to CQ R 599 QSA

called

1CKP de 8apW DC - vy QSA

NZ CQ de ZM IAA - DC - QSA

(MEXICAN IAA)

9XN - fair - PA 6WAP

"CohAF" Test de 9UQ

DC - vy QSA

at 11 45 PM

Ely

~~R. H. Kimball~~

~~Merchant exchange~~

~~Ely Chuff~~

~~Nev. Cal.~~

July - 19, 1925

500 - Gallons for hompico

worked at Zayante

Making coffee

& Pastries upstairs

Paid $1.05 QV

Earthquake at abt 10:30 AM

July - 20, 1925

1,000 - 3/4 hr - Zayante

July - 21, 1925

cloudy - slight

rain

July - 22, 1925

cloudy - misty

K L M N O P Q R S T U V W X Y Z

~~Julius Kahn Jr~~ Oly
~~2717 Webster~~
~~Hat Orgs 7½ Good~~

18 hours
for Zayante.
about 6,000
gallons also

Jul 23, 1975
18 hours on
about 6,000
gallons for Zayante

Jul 24, 1975
4 hrs on 5 gallons
for Zayante

Feeling very bad
today headache
etc from eating
dried abalone.

Re garding "Good
Spots" (QSL)
2 sets -
1 - 8 tube Super Het
1 - 5 " Autodyne
at Compton last
Sunday Jul 19, 1975
absolutely failed.
to hear on 2 sets.
Years ago at
Beverly Marcums
a set absolutely
refused to function

until the aerial was moved 100 feet north of a buried (in the creek) aerial was used. (Crystal)

Reception on Big Bear (8 miles and N. West) is absolutely NO.

Reception at Forde Rest is poor as a guy there has a 2 tube Kodel at dusk KPO came in very weak even; a good aerial.

However even our Main set at Oakland

when the aerial was only 5 feet off the ground reception of KTHJ was as good as ordinary.

A crystal set brought in KGW, KFI, KHJ, KFOG, KJXT, KUXU, SFKQI, KLI, KDN Salt Lake KZN. all fairly loud on crystal.

July 25, 1925

1-hi 1,000 gallons for Zayante visit by CEI

NVE to CQ 20 QSA
called ND -

set tonite is regular
set running 20 A - Radiation
200% with 8 on
plate. 8 note key
click on filament
plate mills - 40.
(43 meter) Radiation
about .33 TCA
at 50 meters
45 mills at 200%
volts is .58 TCA
Radiation

1 - 1/2 kw input
1000 feet
transmitter at 30°

CQ de 3ZK - called ND

W1Z to ABC - noisy QSA

4FU to G? - DCCW - QRZ
wkg.

6ASR to CQ - running
wave DC - QRK
called ND

9°7AY - to NRRH? - QSA

6CGW - 18° - weak RAC

6CGW de 5NQ - fair RAC

1fx ~~BD~~ - QSA RAC

CQ de 9ZT - QSA RAC
called ND

CQ de ~~3BDH~~ 3BDH 11°
how note handy ready
swinging QRZ - noisy

ZJXA de 4 9ZT

Pi1? de 1FX - QSA RA

NPU de NPM - Pse DE
QSA 28/0

NRRh de 1FX - QSA RAC

about 1:45 AM

Lots of stations on
more than earlier
in the evening

July 26, 1925

150 Gallons Gasoline
150 Gallons Kerosene

visit by De Wald
(plane) (6DW) -
also returned visit
Mast down -
now spliced to
40 feet. glass
towel unjack
broken. (no deposit)

47 - Tarts lunches
free from
Stanley Morris
(of Zaiyante)

July 26 1935
Letter to D.P. that
Plate glass insulator
broke at hit a
knock when
the aerial
snapped.
10:00 PM
6BCh de 900-RAC-for
called CQ -
new aerial up
radiation .1 on
50 meters 40
mills at 200 V
note B on
plate

Test NR 1 - about 50 K
about 280 - (trans)
.15 TCH - 37 - mills
at 200 V.

Test NR 2 - about 45 K
34 mills on 200 V
on plate ("B") (240)
Radiation NIL.

Reception is poor.
NVE my QSA - ICW

Highest possible
radiation my
.2 TCH - highest
input is 35 mills
at about 55 meters

CQ de C4AR #2 called IVD
about 11:00 PM

July 28, 1935
Card from De Wald upon tests of the 27th inst. both on OSA - DC - abt 50 meters test NRZ - the loudest.

July 29, 1935
Fail to recall

July 30, 1935
7 hours at 35¢ for Layante.

July 31, 1935
8 hours Layante @ 50¢
Home badly cut on leg

August 1, 1935
8 hours Layante @ 50¢
3 hours tampico - 30 000 gallons
Man has arm broken by flying rock from blast

August 2, 1935
Gently wrecking station preparatory to returning to the "Home of the Rum Runners," (S.F.)

Rattler - 10¢ a button killed by Yeomans in front of lower cottage. (Diamondback)

Stanley Morris took my trunk to city.

M N O P Q R S T U V W X Y Z

August 3, 1935

Arrived ORF in S.F. Found was waiting for me took Apt 316 at Wently Apts 1214 Polk St San Francisco Calif. Changed name day to Apt 914

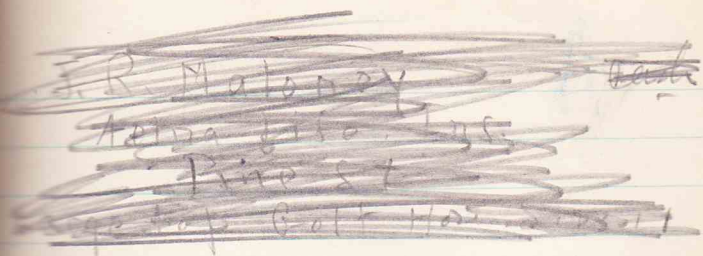
Back to Roos Bros Montgomery St Store

August 4, 1935

Assembled transmitter

August 5, 1935

Card to Dr Wald arranging for a test next Saturday from 10:30 PM on



at abt 38 meters AC (QSB) will listen for him near mi wave.

My Question as regards a diploma if answered in August Radio

Got transmitter working radiate .01 at 35 mills 500 V AC to an amplifier tube. two tubes in room for an aerial.

~~H. H. Miller~~
~~519 Cadby~~
~~Hor~~ ~~[illegible]~~
~~[illegible]~~

August 6, 1935
letter to R.I
applying for
send station
licence.
Bought Electron
45 volt large type
"B" battery @ $.75
seems to be OK.

Operating a detector
tube on 6 V AC
with a potentiometer
across it resulted
in sub-dueing the
hum & also varying

~~J. F. Mears~~
~~616 Standard Bldg~~

it to 120 cycle —
but not in eliminating
it by any means.
it is still very
predominant (the tube
was a Radiotron 201A)
Power tube seems
to give only 8 mills
on the tube but
later in the evening
.05 radiation can
be obtained in
two ones 16' long
with 94 mills at
500 volts input
to a 201A tube.

August 7, 1935

used set loaned to
6 BJT.

August 7, 1935

Letter to Ex-6DW
postponing schedule

August 8 1935

at 11.05 called 6DW
on abt 40 meters
for 2 minutes 3-7
mills ca. 1 TCH
in indoor aerial

40y

August 9, 1935

Coupled hi-capacity
top aerial and does
not seem to increase
radiation much.

6LJ-tks QRZ - RAC - 36° called ND

9PAC de 6SZ - Vy QSA
Daylight 7°° PM

9DKV - CQ - QRZ called
6AWW to 9EGN - QSA
10°° PM - grd

KIE de KEH - Vy QSA
CQ de 6CAK

6BSK - DC - 11 40 PM

M N O P Q R S T U V W X Y Z

40y

CQ 6AWA IIA de 6CSh
for test - DC - 32°

CQ de 6Cbb RAC
Swinging called ND

Radiation met
40 mills at 500 V AC
to a Radex - 201A
Water pipe gnd.

6AWW CQ - DC - QSA 30°

6BIA to CQ - wrab-bar
called ND

ABC de W 17 by QRZ
Lucum?

August 10, 1925
Aim
KJBS at —

		har	wave
9°	KJBS	59	
12°	KFRC	67	
20°	KJBS	78 1/3	
28°	KFRC	89 1/3	
56°	KJBS	118	
73 1/2°	KFRC	134	

KFRC = 267.7
KJBS = 236

Chart #3 using
WD11 - detector as
WD11 & WD12 amplifier
curve has no
humps and is
the best yet.

M N O P Q R S T U V W X Y Z

11:00 P.M.
Letter to Rocio Tube Co.
KFH QSA at 88½°
9 turns in shunt.

Also at 33° with
nothing in shunt
and also about
twice as loud

Bought Burgess
4.0 cbat 45 V. for
$3.60 (large size).

KPO at 86° - 3 harmonics 143
also about 17°
both wobbly & fading
badly. His new
transmitter seems
to be the Bunk.
He is seemingly
turning up various
wave lengths

in order to eliminate
his harmonics as towards
11:00 PM could not
hear the lower
harmonic at all.
The speech amplifier
oscillated several
times this evening.

Built an autoplex
but could not
get a sound out of
it

Transmitter has
periods at 84°, 51°,
33⅓°, abt 15°
KPO - 428.3

84° = 143 meters 51° = 113 meters
33⅓° = 93⅓. ✓ 15° = 77 ✓

Fundamental wave seems
to be around 233⅓ meters

August 11, 1935

Bought - 1 h. 199 -
2 - double ckt jacks
2 - Dubilier micadons
with grid leak clips
total expenditure $1.49

Connected tube in
seems to be slightly
better than W 01 A
Loud W 12 slightly
louder near
QSA - at 3 9½
5 turns in ckt
swinging badly
and also a lot
of hiss of some
KEH was my QSA
today (?)

(KEH at 3.7½°
nothing in ckt
with filament lowered)

KEH at 3.7° filament
OK

August 13, 1935
GBTT Called.

August 13, 1935
Letter from R.I turning
down request for
additional license.
Must call in and
see Mr Lincoln at
P.T.&T at 8:35 Howard
St. on Saturday morning.
Also application was
put in at P.G.&E.
who will phone.
PM
NPG with the weather
on I.C.W. at 90° on.

M N O P Q R S T U V W X Y Z

regular rectb
(nothing on
shunt)

NKF · NEGG · KFN ·
all de NPG vy vy QSA.
ZKN
at 33° - 5 turns on
shunt. 1 CW.,
also send "K" s. PSE
ZKN "

KEh calling V and
KGI · vy vy QSA
nearly RC · 33°

6CAK on "80" at 18°
vy QSA · DC

NPG de NKF
QSA. 14° note
swinging slightly
Pure DC

de NKF o wave
is 71.5 and it looks
like 70.5 on my
chart. I guess it
needs correction.

CQ de 6BMO · Fair · RAC

NPh - NSS de NKF
· much weaker now
40 meters

CQ de 6ChS - weak
Raw AC. 31° - 5 turns in
shunt

August 14, 1925

Trying for job at P.T.&T but could not get same on account of part-time school.

August 15, 1925

Personal visit to Mr. Gwinn Supt. of schools asking for a permit to avoid attending part-time school. (matter will be considered by Mr. Gwinn.)

Got nailed at P.G.&E. 245 Market St., SF. on 3rd floor work in mail dept. $60.00 a month. This includes part-time school. Work to begin Monday at 7:45 AM to 5:10 P.M.

Quit Ross Bros. Montgomery St. Store. Mr. Wright gives me neutral referendes - all sorry to see me go - treat especially. This marks the close of my employment by Ross Bros. for 10 months. I began evening (probably the 5th of May 1924) in May 1924 at $2.00 a day or $50.00 a month. On August 18, 1924 transferred to Montgomery St. Store to remain

there until now
August 15, 1925.
Now am going
to leave Ross Bros.
When I went to
"Montgomery" I
suffered a reduction
in salary amounting
to $1.00 a week.
but got raise to
$7.00 a week (after
school) on January
1st 1925.
Also received a
$2.50 Christmas
present.
Promised to see
those at the store
after they are:-
Ernst E.S. Coffelt - Mgr.
Dave D. P. Street - Office Mgr.
"Jim" J. h. Welch - Salesman
"Joe" J. Miralgia - Janitor
"Ike" J. Tomsovic - Tailor
"Jenni" J. Frankie - Tailoress
"Eddy" C. O. Widdekum - Shoe dept
"Roy" R. Hanford - Suits
"Dutch" W. Devereau - Golf
" " Edmonds - " Devereau transferred and Quit in January 1925
"Smitty" Robert h. Smith - Clothing

I call I turned in
11 "suggestions" which
were accepted. Also
several stubs were
given to that when
I left.

Expenditure of $1.00

150' - #14 bare aerial wire
had drawn - 75¢
2 - Glass towel racks
minus supports - 25¢

N O P Q R S T U V W X Z

August 16, 1935

12:30 PM - 6BQU d6DAB
QCCW - Fair 40, 80°

Put up new - cage
aerial - does not
seem much
better on transmitter
but receiver it makes
fine.

5:10 PM (40)
9DKV - QSA to CQ
MPLS - RAC.
6JP - vy QSA.
radiate N now
below 40

KJBS had at -
5 turns in shunt
of sec. 12°, 19½°
30°, 50½°, 86°
40 meters abt 35° -

It seems to be thus

Harmonic	Reading	Meters
8	12°	29⅓
7	19½°	33⅚
6	30°+	39⅓
5	50½°	47⅕
4	86°	59

Cupre is kind of
steep and slippery
but otherwise
OK. it has a very
slight kump.

Built 3 turn Basket
weave coil of #18
Bell wire in shunt
of secondary transmitter
is tied from land
at (transmitter is
at 39½ meters) 81°
and 32° 21½ (weak) on
9½°

fundamental of aerial seems to be abt 47 meters as the receiver refuses to oscillate there. Find that even when the radiation is apparently nil can get quite a spark upon opening the Send-Receive switch

August 17, 1925

NPU - 1 CW - at 340 (40 meters) GSH

August 18, 1925

Nothing doing on account of Nite school

August 19, 1925

Tried to get 5 watt transmitting tube at 440 (new price) but find that is some red-tape as regards the ARRL attached to it.

August 20, 1925

Letter to Radio Journal

W1Z - weak at 38° (5 tubes in shunt

Transmitter harmonic at 76° - 136
45° 107

N O P Q R S T U V W X Y Z

WIR - (80) weak at 15½° - No shut

Set was tuned to 40 early in the evening Radiation Nil But good spark in aerial.

But later in evening without touching anything wave automatically changed to 70 meters thus cutting down to 40 after calling on 80 a few minutes.

Called 6SR and 6AWO - No 6AWT - to QSB Wave wobbly.

August 21, 1925

Transmitted around 6:30 P.M. radiation abt. .07 (meter just wiggles) plate current 50 mills at 500 V A.C (25 watts input) this drops 20 mills when aerial is removed.

Later in evening 10 = 0 PM tube draws only 35 mills This is using alt shown below



O P Q R S T U V W X Y Z

C. Francis Jenkins' motto is:
"They said it couldn't be done, but he, poor fool, didn't know it, and went ahead and did it."

This is now also official for 6CKK. Ki.

6BIF wkd at 11:20 PM - upto 0K
Cud not read him very well on acct of terrific grinding humming noises in recr.
Transmitter stopped on all the one (changed wave and plate milli dropped from 50 to 35)

August 22-23
at Oak Glen
Unk has radio fever

August 24, 1925
Called NRRL - also
Can 5 HP - ND

August 25, 1925
Purchased 5-watt
UV 202 tube at
Warner Bros 720
(Babcock Bare)
Went to Radio
Exposition.

August 26, 1925

O P Q R S T U V W X Y Z

Thurs August 27, 1925

Purchased Jewel
0-1.5-AC - voltmeter
but returned same
on acct of sticking
needle.

August 28 1925

Purchased Jewel
0-15 AC-Voltmeter
for $6.75 from Ware Bros
New Lenox -
0-1-TCA- Jewel # 36 6450
0-15 ACV - " # 394584
0-200 MADC - " #362007

Bought Radex
199-198 for link.

August 29, 1925

Up on 160 and radiated
.1 back to 80 & 40
but could not raise
any-body.
6 BNM tried to CQ on 80
Rewired transmitter
August. 30, 1925

Constructed wavemeter
and it works.
Also put in strong
wooden box.

Got set radiating
.1 at antenna current
on 40. Meters.
(no countryouts agn)
and operated set
from hall via
remote control
had radiation
ammeter in approx-

O P Q R S T U V W X Z

mate centre of aerial and radiation was absolutely nil.

Although a good spark could be obtained a aerial emitted also a nice hum.

Put R.F. Chokes in both plate & filament leads and it seemed to increase results slightly.

201A seems to be losing its emission of electrons.

Formally decide to build a 5 meter receiver & transmitter & possibly a 2.77 meter one also.

After in some way shorting C battery (4½) the 1½ V WD11 - tubes they seem to be much weaker emission at ⅓ usual and this is after the usual period of burning with B battery disconnected.

Having trouble with Willard colloid rectifier

because the aluminum becomes encrusted with crystals of the Borax (sodium borate) and refuses to rectify also at times sparks badly (especially when) I begin to charge battery after not used charger for a day or so. Aluminum electrodes gradually diminishing in size.

Find new 5-watter (4U 207) get a dull red after abt a minutes use that is if the key is kept down all the time - also CG1162 get a bright cherry red after abt 1/4 minute of some treatment.

900KV - Ind 0.5A
RAC - 40m - 72°
PM to CQ - no long call - Called IVD. plate current is only 70 mils to a 50ER. Vacuum?

201A glass gets hot but does not show a trace of red after long use.

September 1, 1925

~~(Tuesday)~~

September 2, 1925

Passed and 2-tending post stups - 5 x 10 cent stock 30 ft

find that when set is tuned to 40 meters - a load from grid to 43 p. (plate all the way in) Then radiation ammeter to 3 foot piece of wire loading to aerial switch (aerial switch open) radiate. I with this. And get gud spark when I touched it with pencil and also had burn when I touch it with bare hand. Lucum.

Find filament voltmeter sticks often below zero.

Asked to prepare article on station for 1st edition of the Green & White (Evening High School of Commerce Paper)

WVY very QSA - 1 CW testing elec-4 IFR on 40

September 3, 1935
Went to SFRC

Bought 2.70 worth of goods for unit.
IVKF to AWP daylite
QSA vy - DC - 40
Called 6BIF

Sept 4, 1935

Sept 5, 1935

Went to Oak Glen
Installed short wave set for unit

Sept 6 1935
Oak Glen
Sept 7, 1935

Labor Day at Oak Glen

Sept 8, 1935
Back to work

Sept 9, 1935.
75th Diamond Jubilee of Founding of State as a member of the 48. Fine Parade (from 10:00 AM to 3:40 PM)

Sept 10, 1935
S.F. Radio Club.
Purchased 1 lb #30 enamel wire at home

Q R S T U V W Y Z

place in regen'd
block on 4th tube
Cost $1.50 mile has
general weakness.
(Rb big Dyp.)
Sept 11, 1933
Wind coil 1350
turns (180 Volts)
now plate current
is 33 mils at
675 Volts & plate
gets red. (dull

Construct 5
meter set at
apparently all is
O.K. Get a
terrific shock
which nearly
knocked me
out the window

and nearly paralyzed
my arm. Switch
had been opening
the circuit also
much weaker.

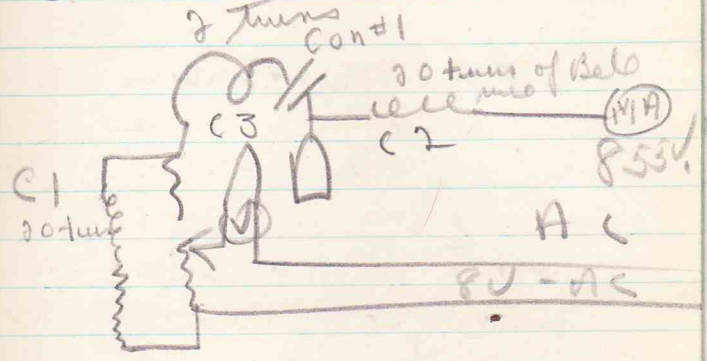
Put finger on
plate terminal of
5 meter set to
see if it was
oscillating and
must had failed
675 V. A.C. thru
my hand.

Q R S T U V W X Z

September 12, 1935
(Saturday)

Built Wavemeter
1 large turn of
No 14 in series
with a 23 plate
Hegi for condenser
& in the center of
the 1 turn coil
I put a flashlight
bulb socket
& a 2.2 Volt flashlight
Bulb (smallest made)
when placed between
the 1 turn O.T.
of 5 meter transmitter
it lights up
brightly with
plates of condenser
are all the way
out.
(This wave is
7 to 10 Meters

5 meter Transmitter



C1 = a 20 turn h.h
choke (Bell wire)
5 spokes - 1" diameter

C2 = a 20 turn choke
HL of Bell wire
(wound on a milk
can removed and
tied in several
places (abt 1" diameter

C3 a 1 1/3 turn coil
of aerial wire
~~#~~ 14 Bare

turns 1" apart
4½" diameter
(all is used.)

CON #1 = a glass plate - plate blocking condenser .007 (?) MFd - home-made (5x7 plates) approximately ½ used

Grid leak is a ford coil secondary & seems to be slightly larger than normal

Plates gets red (UV 202) at 35 mils, 855 V-A.C. on plate

socket is used.

Plate choke is mounted flat on Baseboard & seems to work OK.

Wound 1350 turns second pie of #30 Black enamel lead & Breaker wire mid lead then soldered. after placing on transformer it lasted about 10 seconds & then open-circuited (The guy that sold me that wire ought to have his neck wrung a few times) hi)

R S T U V W Y Z

Expenditure of 45 ¢

September 13, 1925

Deadly sick in stomach. AM OK in evening.

Placed HK shut Wave tuner on top of BCh tuner & tidied things up looks & works much better.

Constructed another 1350 turn Pig this is 015. new have 850 Volts AC on plate; can draw swell arc with it. when filament is off it sparks across at the press in the tube.

Called CQ on 5 meters.

Find that when Wavemeter is placed in close proximity to 5 meter transmitter to ag to light Bulb. That when Wavemeter is tuned as to light Bulb (Resonance) there is hardly a flicker in plate current but when tuned below resonance the plate current jumps but bulb that bulb does not light

How cum?

(project for water power development at Panama Canal

S T U V W Y Z

due to difference of elevation of two oceans given serious thought)

5 meter transmitter sure Busts up BCL receiver

Am trying to rejuvenate a 201A by running at 5 V.A.C. on filament

find that running tube idle at 12 V.A.C. on filament did absolutely no good but apparently detrimental

tried a new 201A in 5 meter transmitter 11 V.A.C. on filament 855 V.A.C. on 40 mils on plate although it apparently was oscillating. could not light lamp in Wademeter and when brought into resonance plate current only increased 1/2 milliampere.

Running 201A at 5 V.A.C. on filament for 15 minutes increased plate current from 23 to 35 mils.

September 14, 1935

Expenditure of 45¢ for single pole double throw switch for receiving sets

S T U V W Y Z

September 15, 1935

I find that with 855 V.A.C. from transformer am able to draw a mic arc with a pencil.

At 5 meters find that when a 23 plate HH Condenser is inserted in series with the regular Plate Blocking Condenser it sparks over Body at some places at one point. (& only when using 201A) the plate current drops 3 mils that is when the plates are nearly all the way out. Here it sparks very Badly.

However condenser did not spark at all when placed directly across 855 V.A.C.

When the loop on the meter was reduced by one half the reading went down slightly (probably because it did not pick up as much current as formerly) and the wave was decreased slightly.

Set consists of a flashlight Bulb socket (panel air) a 23 P. HH condenser & a 5½" loop all in series

S T U V W Y Z

September 16, 1935

Strange as it may seem an APQ "Jr." tube gave a much better reading in the wavemeter than any other tube on hand including a 5-watter (on 5 meters) whether this was due to the use of the grid leak resistance or not is unknown however the reading was 3 times as good as obtainable with a 5 Watter (the next best)

September 17, 1935

Bought vernier 7 plate KC condenser at Richters for 50¢ a good buy (reg 7.5 & a reg 5.5 across)

Using a loop 3¼" one way & 2⅛" the other

~~3¼~~ 2⅛ with a receptacle & a 2.2 V. flashlight bulb in it, a good wavemeter resulted. The 5 watter & the A.P. tube gave nearly the same results the A.P. tube slightly better. (shorter waves than listed)

T U V W Y Z

The same 5 meter
mount is used
but very slightly
less than 1/2 of
a 4" loop as
inductance. Good
readings were obtained.
This time meter
be pretty low
7 plate pair of condens
all the way out
& 3 plate part half
way out. Kiki

When taking readings
about 11 volts AC
were applied to
filament of A.P. tube
855 volts A.C.
+ 35 mills were
applied to plate
The tube heated
up quickly could
not determine if plate
got red.
After taking readings
for about 30 seconds
noticed plate current
quickly slide down
to about 10 mills
Thinking something
wrong I immediately
shut off & replaced
with Radiotron 201A
but seemed O.K.
upon replacement
current is 10 mills
& gradually sinks.
Tube is blue inside
(light blue.)
Stays blue with
filament turned off.
new current is
flowing from

T
U
V
W
Y
Z

filament to plate (plate milliameter reading less than zero) reverse leads now current is 15 mills. backwards lighting tube causes current a mill or so. after 10 minutes. current is 30 mills backwards & tube glows highly purple although filament still lights. tube has seemingly sprung a air leak although no crack is visible & is igniting. A larger grid leak is now used.

Also find it impossible to draw more than 40 mills from plate transformer how-come?

Get write up in "Green & White" paper published by Evening High School of Commerce.

About half of the Glass plate-plate blocking condenser is used.

After 15 minutes plate current jumps around & tube operates

T U V W Y Z

inside. can see reflection of sparks.

Friday September 18, 1925

A.M. When 850 V.A.C is applied to A.P. tube the tube glows slightly + sparks inside filament still lights. also sparks above

Evening When 850 V.A.C. is applied to plate nothing happens (full of air) Filament does not light.

Today begins the fourth New Year

Before school (7 P.M) 5 meter transmitter using 5 watt tube works O.K. But after school (9:30 P.M) it apparently is oscillating but absolutely cannot obtain wavemeter reading (lamp is O.K.) When wavemeter is at about 3/3 scale can get a steady hum (60 cycle) This is probably due to a high voltage impressed across condenser. But does not light nor does plate current flicker But remains at

About 31 mills at 555 V.A.C.

Upon touching Wavemeter to a part of loop of inductance Plate current increases to 35 mills (stops oscillation) but decreases to 25 mills (Apply at about 1/4 scale.

Decide to return filament voltmeter. Mfr. 294-584 Co-t sticks (Jewell)

Saturday.
September 19, 1925

Absolutely could not obtain. Wavemeter readings but set is apparently oscillating (3 meters)

Decide to return voltmeter monday instead of saturday as I want to use it on sunday. Lt. sticks when switch is opened when reading 7 V. but does not when switch is opened. Lit is reading 12 V.? Lucum.

T U V W Y Z

Sunday Sept 20, 1936

Rebuilt 3 meter transmitter. But prior to this finally obtained readings by using an Amplifying tube. after this it was possible to get readings with a 6 watter 6Y"62" still does not oscillate

Redesigning

Reduced Primary O.T. to one turn.
Elevated Grid - R.F.C. an inch off baseboard.
2-20 turns 1" diameter R.F.C. in filament leads (flat on Baseboard).
Binding Posts for Grid leak.
A 23 P-H. V.C. + an .002 Micadon constitute P.B. Condenser.
3 feed Secondary used for grid leak.
Also a 1 turn 4" secondary 3/4" from primary of #14 B&S. bare aerial wire. mounted rigid on a hard-rubber base.
(All work OK.)

Wave about the same as formerly

Base of 5 watter, (bakelite) showing slite blistering due to heating. Plate get a medium red when in use. a little more than 1/3 turn used in OT primary

Put up an indoor aerial directly between leads of counterpoise.

Shortened outdoor aerial considerably

Rehooked up 40 meter transmitter But fails to work

Used to use indoor aerial on 3 meter transmitter But although could cause set to oscillate at one point, could not obtain any antenna current.

Having trouble due to wax connection in power transformer

Had "Wonder 201A" makes a fine 3 meter oscillator.

Did not go to Oak Glen as expected.

"A" battery dead.

T U V W Y Z

Regenerated 199 (Boothby) in set by running 10 minutes at 6 volts.
Running 1 minute at 12 volts nearly ruined it.

Can get Wavemeter reading 6" away Rad!!
If this could only be commercialized sets could be entirely self-contained

Come to conclusion that Water power project ... .

September 21, 1925

Returned Filament Voltmeter.

Bought of 95th 1-201A A.P. tube - N.Q.

September 22, 1925

Received Repaired Filament Voltmeter - Some one but now O.K.

Returned defective 201A-AP tube + got replacement but one was as bad as the other both only draw 20 to 30 mills at 850 V.A.C. Does not oscillate.

Battery (4V. Willard) dead curses on the rectifier, as I must have been running A.C. thru it.

Plate of 5-Watter (UV202) gets bright red at 30 mills.

In wavemeter replaced flashlight bulb with 0-1A-T.C.A. Radiation ammeter. At 4" coupling it was possible to pick up .4 A. on 23/4" coil. Close coupling raised current to .5.8 A however could not better. This Plate mills jump about 10 mills when resonance is reached. 23 P.V.G in series with .002 Meadon (P.B.C.) does not seem to influence wave-length at all

also does not affect power output when the plates are all the way out. Then set stops oscillation.
Am using 1/3 turn inductance.
Output seems to drop off slightly as plate gets hot. Running close to eight volts on filament increases power output greatly.
5 meter transmitter comes in all over the dial on the 80-140 meter set

Wavemeter tunes very sharp decade grid-leak resistance had no effect on out-put of 5-watter.
Think if I had a oil immersed variable condenser or a Hi-voltage P.B.C. & cut more bads shorter could get down to .77 meters easily.
Still puzzled as how to build 5 meter receiver unless I shall use a tapper contrivance.

U V W Y Z

September 22, 1935

Don't recall

September 23, 1935

Letter to R. Enders, 6CGR, & G. Mack
Don't recall

September 24, 1935

Crd from h.A. reporting sigs on 40 meters think this was transmitted without an aerial.

September 25, 1935

Pay Day Visit by 6CVQ.

September 26, 1935

Bought W.S.A.

Radio Corp. .002.
2 amp at 1300 mills
3,000 volt P.B.C.
for $2.25 at Wainers.
Note. Hot filament voltmeter is again stuck. will return Monday.
Purchase aluminum (2) spoon for rectifier
15¢ (NG)
2 Battery clips 30¢
Na Ald 3" x 1/4" dia 35¢ Rec $4I. - 25¢
Visited 6CVQ

Hooked up New P.B.C. in 40 meter transmitter & now radiate. & TCA using no ground on abt 55 meters

U V W Y Z

Accidently placed
16 c.p. 35# 110V
Carbon filament lamp
near transmitter
inductance of 40
meter set & found
it glows (the gas
inside ionizes) & tried
a regular tungsten
bulb but N.G.
Tried on 5 meter
set but NO.
Find that the further
away from active
part of coil it is
the better the result
(higher voltage)
acting as a Dudell
coil)
Attached it to
last turn at
bottom of coil

& wrapped a #30
wire around it twice
& grounded it. Now
have a swell indicator
as to when set is
oscillating.
Think that if lamp
was burnt out it
would make a
nice indicator for
a wavemeter as a
voltage indicator.
Find aluminum spoon
is seeming about
1/2 lead. Hi alt
is absolutely N.G.

U
V
W
Y
Z

Sunday September 27, 1925

Try to take Decker wave measurements. Get a .4 A reading but can't get any other.

However 33 centimeters nearer the transmitter notice that wavemeter goes out & lights again in about 1/8" could this be a voltage node? also note another gradual drop 120 Centimeters nearer but this is not sharp.

Am using 23 P (unable to pull all the way in)

also .00 micadon as a P.B.C.

Find it oscillates much better this way than when using .007 Glass plate.



— current nodes
— voltage nodes

As per diagram on Page 17 of August 1925 Radio Journal in this event then the distance between any consecutive voltage & amperage node would be 1/4 actual wave

V W Y Z

in this event
then wave must
be 4x33 or 132
centimeters which is
1.32 meters hi.

My locker walls
are about 11 feet
long & 5 1/2" apart.

Am using slightly
less than 1/2 turn inductance in primary
& 1 full turn in secondary
upon rechecking find
this distance to
be abt 28 1/2 centimeters

lengthen the locker
wires so that
they reach the
door (about
30 feet long)
then about 9 feet
from set get
my first reading
(.07 A) mark this
& move out
very near the
end. get smaller
reading slightly
better (nearly .3)
distance between
is 225 centimeters
on one side &
about 216 centimeters
on the other.
figuring for the
225 then my
wave must be
4.5 meters so
I mark this
on wavemeter
(it is using

V
W
Y
Z

2.2 Volt flashlight lamp. & a 2 3/4" turn 7 plate set also the way out to stop. & 3 plate set at mark on plate) (the one with the arrow on the end)

Circuit gone around wire of D.T. when clip was. Was using .001 Micadon in series with 23 plate Perfection Condenser at full capacity.

took 4 photographs of station.

Hooked up 40 meter transmitter & joined aerial & counterpoise & used capacitively Coupled.

Had called 4RM - ND R4 also C.Q Radiate .33 Amps lamp (16 Candlepower) only glows now & then.

CAWT to C.Q R9 Battery dead again.

W
Y
Z

September 28, 1925

Bought 2-6" bezels
1/2" aluminum rod
& after a little trouble
seem to be OK.

WQN - ABC - 37 meter
art - by QSA

had 6AWT, 6CHh, 4RM,
& 9h etc. Receiver OK but
an awful lot of noise

Think aluminum rod
is OK.

September 29, 1925

Take Jewell voltmeter
back.

September 30, 1925

Find that a piece
of aluminum wire has
been placed on meter
as shop. (Now watch
the fireworks)

October 1, 1925

Went to Jewell people
and gave them my
opinion of their "crooked
methods of business".
As a result got new
meter
355315

letter from 6CGR

Y
Z

October 2, 1925

Bought 7 plate A.P end-plate condenser at Richters for 50¢
Also 2-100 amp 600 Volt Westinghouse lightning grounding switches at 30¢ each or 60¢

Visit station of Richard Lambert

Testing on 45 meters + 40 meters.

Radiate .35 to .4 Amps using Aerial & counterpoise with an input of 25 watts at 550 volts A.C.

find that when aerial switch is open set does not oscillate.
Can get medium of of Aerial Every district I'd Q S A. but cannot Q S O anybody.

When using only aerial radiate .1 Cannot get him off aerial!
Cannot raise anybody

Also October 4, 1925

October 3, 1925

Bad headache & earache in P.M. so no DX tests.

Bought 35¢ NaAld diab.
& 2 - Micadons at
1 - .002 Bypass 35¢
1 - .00005 Grid 45¢

Set seems to be N.G.

When using Aerial but no ground find that can hear transmitter almost anywhere in receiving with some intensity but not so when using standard arrangement

Obtained burnt out 15¢ 16 C.P. carbon filament globe free from 5¢ & 10¢ Ri But find that it is evidently too hard to get as rectifier. Also cannot get ionization when placed in circuit with O.T. of transmitter

Jar filament cut in the end 15¢ 16 C.P. bulb but in doing so also broke off lead leads flush with glass.
250 D.A.C. does not affect it.

But it works as previously when

used in conjunction with O.T. of transmitter.

When in such connection the loose part of carbon filament buzzes around inside in a manner somewhat similar to transit in an orbit.

Still think that if I could get 2 of these very soft & could break off one lead near the glass stem to act to make a "point to plane" rectifier I could rectify my plate current & so use D.C. hi.

CG 1620 is N.G. on either transmitter (will not oscillate).

Find that the gud 15 & 16 C.P. Carbon filament globe has a broken (cracked) tip & is now full of air.

Jewell meter sticks when raised to 20 AC & the supply cut off.

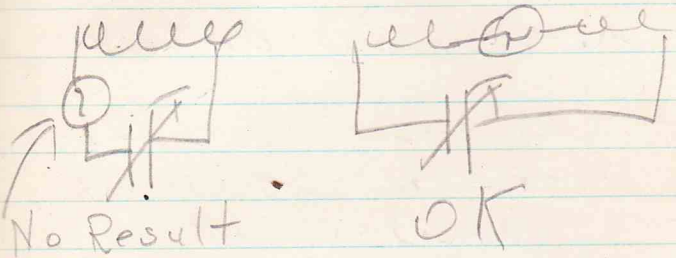
Also the zero adjusting screw is N.G. It just raises load to a little over 1 A. & then drops it to below zero

Y
Z

no matter which way it is turned

Formally decide that if I can get a refund on the meter I will buy a Weston as I have had that they are what most of the large companies use.

Built 40 meter Wavemeter using A.P. 7 plate condenser and a 11 turn basket weave coil — when flashlight bulb is placed at end of coil & condenser no result is obtained although resonance is obtained as noted by a decrease in the plate current.



But other way it is O.K. get pretty good indication 2 inches away.

Found another 1350 turns of #30 black enamel & works O.K. Can get enough current on short circuit to pull an arc to melt a piece of #30.

Y
Z

Wound a 3050 turn pie of #38 enamel from a Ford coil secondary.

After using for about 1 minute it stuck a short circuit & burnt up.

(Did badly save plate current at all.)

Cannot get more that 50 mills plate current off of Plate transformer

Decide to try again & buy a second hand transformer off of G.C. Robb of supply dept of the P.G. & E.

When using all 4 pies (including 3050 turns of #38)

8.55
135
405
1395 Volts A.C.

This was enough to jump across a 3 Plate Refection Condenser (with .002 Microdarin series) Also it would burn thru the insulation on a piece of bell wire when it came in contact with the "Hot" wire

Y
Z

Now will have to a little more careful as this would easily kill a person.

Got slight reading (off wave) from 4.5 meter set with grid-leak disconnected (lower wave)

Cannot get reading on Wavemeter reading of 4.5 meter set when grid leak is connected.

October 5, 1905
40 meters
11:05 PM OST de 9FF (SIS)

NPG my QSA.

Radiate .42 Amps. out NP (35 mills) at 1035 volts.

Letter from Radio News also Thickening Tube Co. on Z tube.

NZ-?? Rcd QRZ

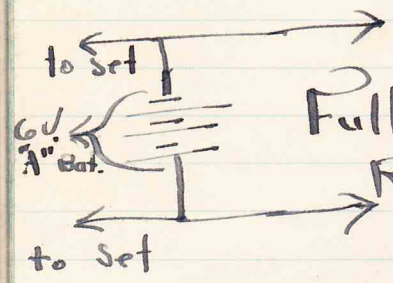
ABC - my QRZ how um?

Y
Z

11:15 PM

Invention October 5, 1925

Relating to Radio.



Full Wave Rectifier

Or ½ Wave Rectifier

This has been used numerous times at this station for months back. It consists of.

Having a small sized Storage Battery of about 5 or 6 Ampere hours and of right voltage for tube

This is constantly charged while set is in use.

This would supercede system of today wherein a small battery is charged when set is Not in use

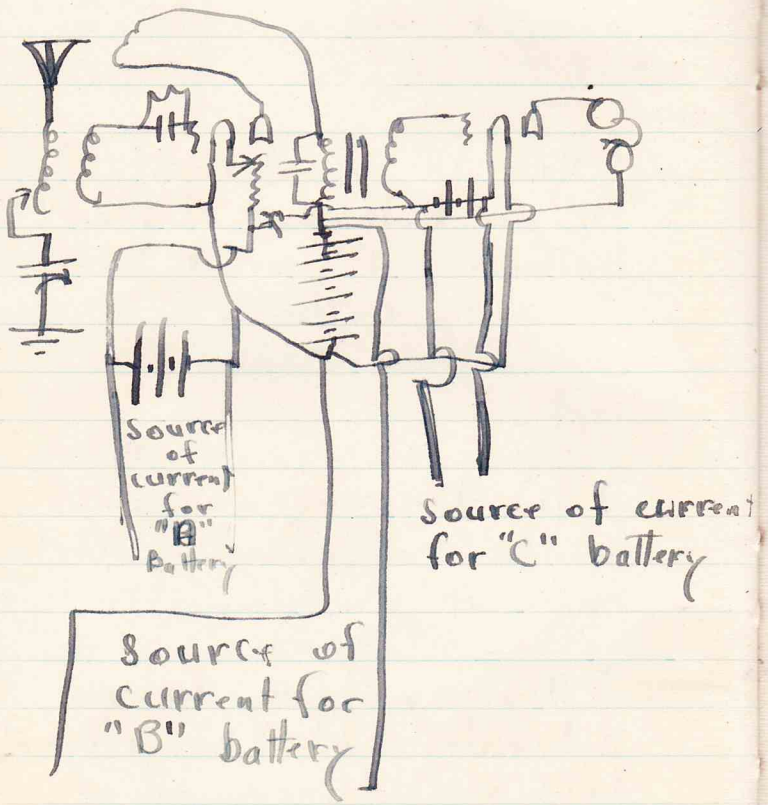
This is applicable to "A" or "Filament Heating" batteries, "B" or "Plate Supply" batteries, "C" or "Grid Biasing Batteries" etc

This has even proven quite satisfactory with ½ wave rectifiers

This system takes advantage of the extremely low resistance of a storage cell (.004 ohms each) to prevent disastrous results from the

2

charging current



The charging currents to be of just sufficient size to keep all batteries completely charged at all times.

This could be marketed as a unit.

October 6, 1935

Bought 15 sheet of legal paper at 10¢ And typed above stated invention at school.

October 7, 1925

Loob invention

to Julius Calmann.
Notary Public and
he revised it.

October 8, 1925

Letters from Radio
News and the
Schickerling
Products Co.
pertaining to the
Neon filled
non-filament
rectifier.

Standard B&P Blank Books and Loose Leaf Devices
TRADE MARK REGISTERED

Standard Memorandum Book

Ruled $ and Cts.	Ruled Faint	Ruled Faint and Indexed Through	Size	No. of Leaves
6544	6545	6545½	5 x 3	48
6550	6551	6551½	6⅛ x 3¾	48
6552	6553	6553½	"	96
6556	6557	6557½	6⅞ x 4¼	48
6558	6559	6559½	"	96
6560			"	144
6562	6563	6563½	7⅜ x 4¾	48
6564	6565	6565½	"	96
6566			"	144
6568	6569	6569½	8⅜ x 5¾	48
6570	6571	6571½	"	96
6572			"	144

Specify by Number, the Book desired

Made in U. S. A.