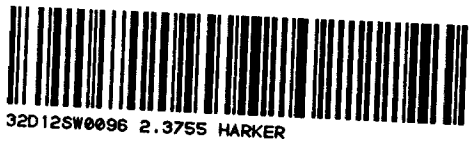
2.3755



010

RECEIVED
FEB 27 1981
MINING LANDS SECTION

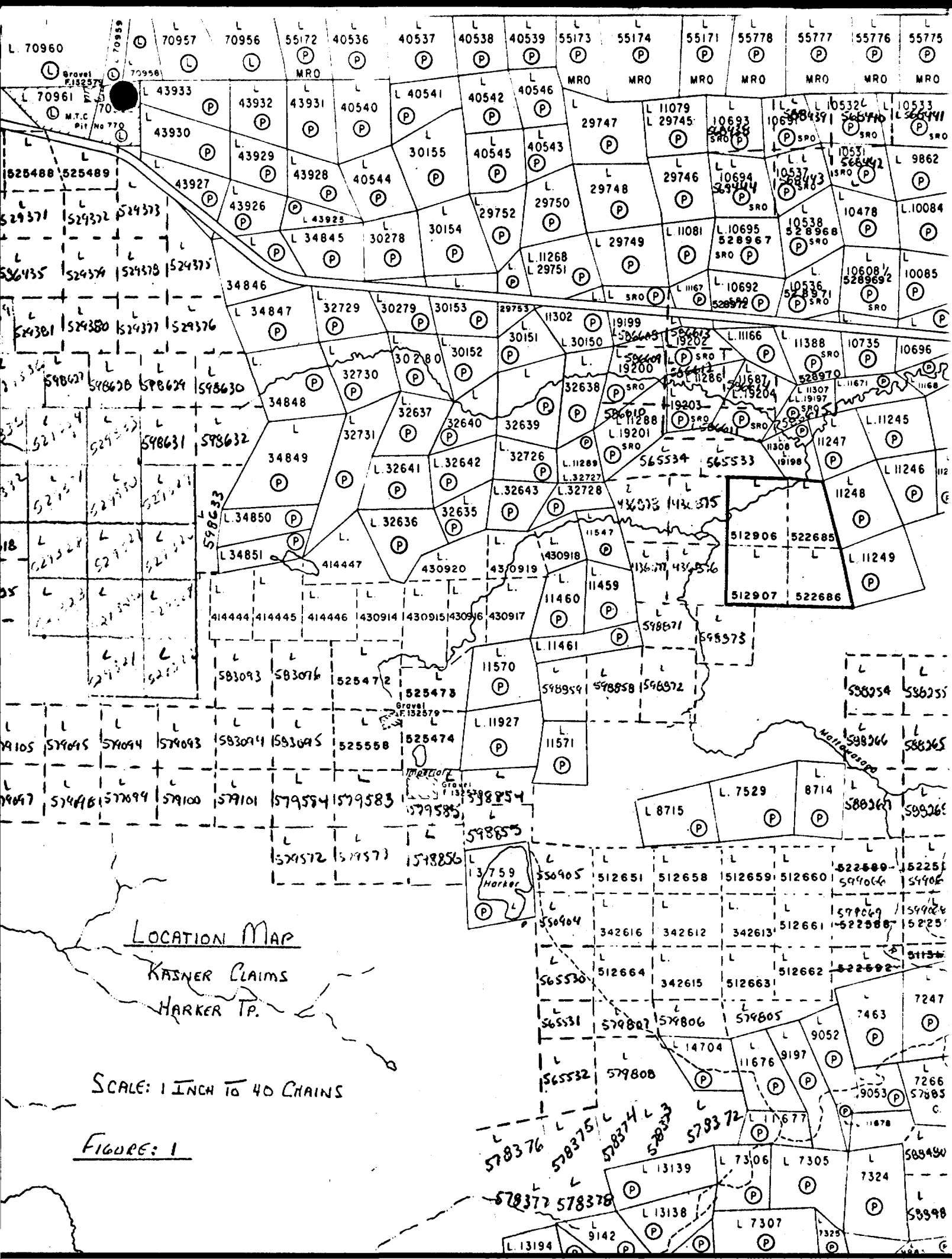
REPORT ON
MAGNETOMETER AND V.L.F. ELECTROMAGNETIC
SURVEYS
KASNER CLAIMS
HARKER TOWNSHIP, ONTARIO

Kirkland Lake, Ontario
G. C. Kasner, Mining Technologist
February 18, 1981

L.D.

SUMMARY

A V.L.F. Electromagnetic and Magnetometer Survey was carried out over a 4 claim block in Harker Township during December, 1980. Two well defined conductors were outlined.


LOCATION MAP
KAISNER CLAIMS
HARKER TP.
SCALE: 1 INCH TO 40 CHAINS
FIGURE: 1

REPORT ON

MAGNETOMETER AND V.L.F. ELECTROMAGNETIC

SURVEYS

KASNER CLAIMS

INTRODUCTION:

During the month of December an Electromagnetic and Magnetometer Survey was conducted over the 4 claim Kanser property in Harker Township in the Larder Lake Mining Division, Ontario.

The property consists of 4 unpatented mining claims located in the south-east corner of the north-east quarter of Harker Township. The claim numbers are L512906, L512907, L522685 and L522686.

The claim group is accessible from Highway 101 by a 1 mile tractor road at apgint 33 miles east of Matheson, Ontario.

GEOLOGY:

Government mapping by R.M. Ginn Resident Geologist, June 1959 states that the group is underlain by a sepies of massive andesitic flows dipping steeply to the south and are intruded by a number of narrow felsite and fine-grained syenite dikes, accompanied by local silicification and minor carbonatization.

The greater part of the group is covered by overburden, mostly in the form of swamp.

GEOPHYSICAL SURVEYS:

A grid consisting of north-south picket lines was cut over the property at 400 foot intervals. Chainage pickets were set

[redacted] along the picket lines at 100 foot spacings. Line cut and chained was 4.6 miles including the baseline. Magnetic and V.L.F. readings were taken every 100 feet except in areas where crossovers and greater magnetic changes were noted in which case 50 foot readings were taken.

V.L.F. readings were taken using a Phonex V.L.F.-2 instrument, while the magnetic values were taken using a Geometric Proton Precession Magnetometer for a total of 212 V.L.F. readings using the Seattle Washington frequency and 209 magnetic readings.

Line 28+00W was cut and chained, being this line was not on the property, no readings were taken on this line.

GEOPHYSICAL RESULTS

MAGNETOMETER SURVEY

The results of the Magnetometer Survey are shown on the map accompanying this report. This map has a scale of 1 inch to 100 feet and a 100 gamma contour interval. Generally, a southwest trend of higher magnetics is indicated south of the Consular-Ben-Arch McDermott Fault.

V.L.F. SURVEY:

Six line conductors were outlined by the survey, they are as follows:

Line 0 at BL0+00

Line 4W at 1+00N

Line 8W at 3+00N

Line 12W at 6+00S

Line 16W at 7+00S

Line 20W at 4+00S

Two conductors paralleling each other are defined, one north and one to the south of the baseline. They have a strike of approximately N70°W and a length of 800 feet. These conductors in both instances were not extended westerly due to the limitating penetration factor of the V.L.F. instrument and/or the conductive nature of the overburden.

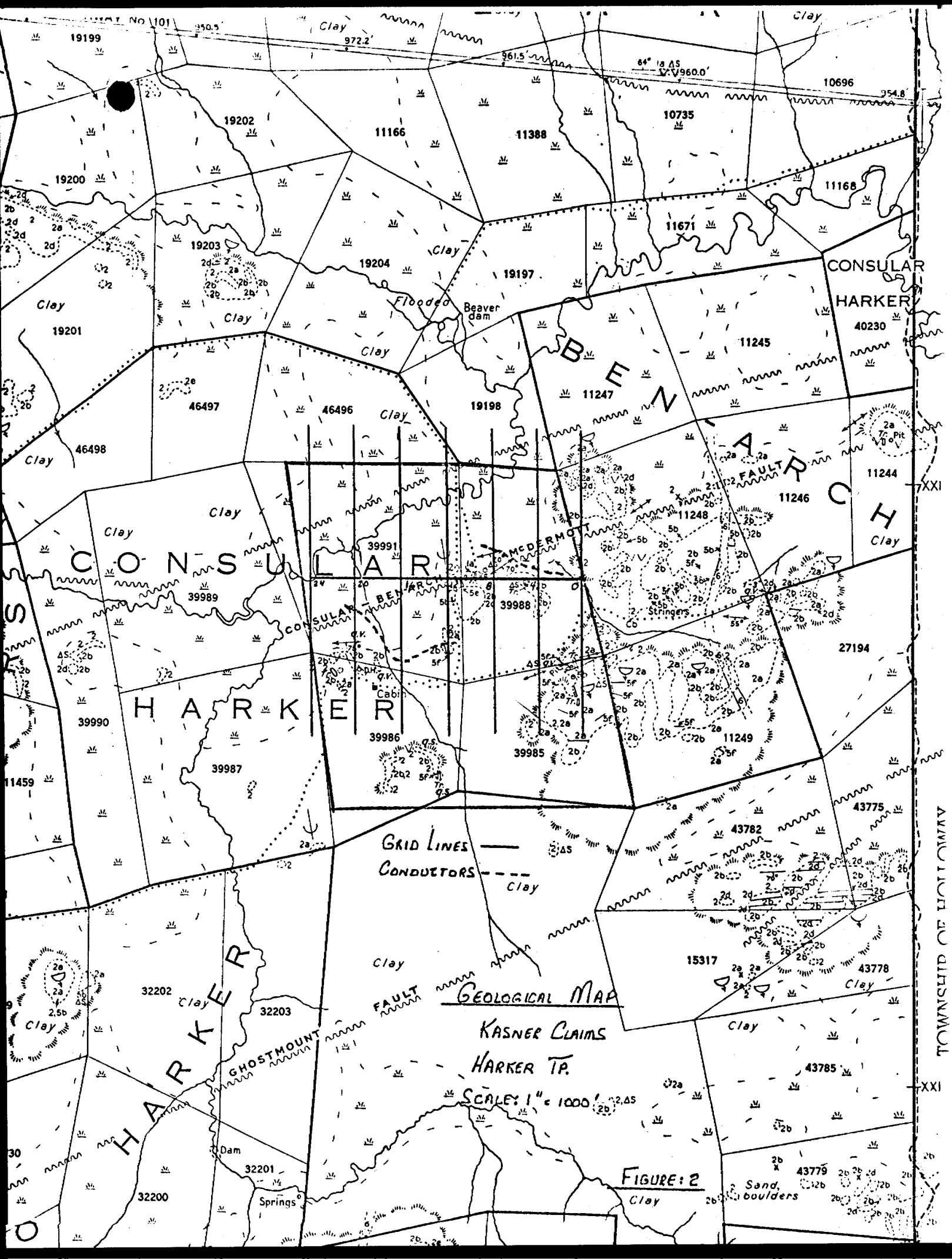
CONCLUSIONS:

The north conductor outlines a previously explored gold bearing shear zone which carries values across considerable widths. (Consolidated Mining and Smelting Co. Syndicate Resident Geologists File, Kirkland Lake) In 1973 the second half of a 7/8" split core from DDH A-1 (C.M.S. Syndicate) sampled by previous owners yielded gold values of .007 Au/ton over 48 feet.

It is indicated by the V.L.F. data that the southerly conductor is an extension of this gold bearing shear that has been displaced in a south-westerly direction by the Consular-Ben-Arch McDermott Fault.

Respectfully submitted,

Glenn C. Kasner.


CONSULAR
HARKER
BENCH
FAULT
McDERMOTT
Flooded
Beaver dam
Stringers
Cabin
Dam
Springs
Sand, boulders
Clay
19199
19202
19200
19203
19204
19197
19201
19198
46497
46496
46498
11166
11388
10735
10696
11168
11671
40230
11245
11247
11244
11246
11248
39991
39989
39988
39990
39986
39985
39987
11459
11249
27194
43775
43782
43778
15317
43785
43779
32202
32203
32201
32200
GHOSTMOUNT FAULT
GRID LINES
CONDUCTORS
GEOLOGICAL MAP
KASNER CLAIMS
HARKER TP.
SCALE: 1" = 1000'
FIGURE: 2
TOWNSHIP OF HARKER
XXI

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) VLF EM MAGNETOMETER
Township or Area HARKER TP
Claim Holder(s) R. KASNER
BOX 993 KIRKLAND LAKE ONT.
Survey Company JOHN PERRON
Author of Report GLENN KASNER
Address of Author BOX 1053 KIRKLAND LAKE ONT
Covering Dates of Survey NOV 20 - DEC 30 1980
(linecutting to office)
Total Miles of Line Cut 4.6

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	–Electromagnetic	40
	–Magnetometer	20
	–Radiometric	
ENTER 20 days for each additional survey using same grid.	–Other	
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: JAN 27/81 SIGNATURE: Glenn Kasner
Author of Report or Agent

Res. Geol. _____ Qualifications 2.2071

Previous Surveys

File No.	Type	Date	Claim Holder

L.D

MINING CLAIMS TRAVERSED
List numerically

L 512906 ~ mag.
(prefix) (number)
L 512907 1/2
L 522685 ~
L 522686 1/2

4 x 40 = 160 ÷ 5 = 32.
4 x 20 = 80 ÷ 5 = 16

If space insufficient, attach list

TOTAL CLAIMS 4

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 209 Number of Readings ~~240~~ 214

Station interval 100' Line spacing 400'

Profile scale 1" = 20'

Contour interval 100 GAMMAS

MAGNETIC

Instrument PROTON PRECESSION (GEOMETRIC)

Accuracy – Scale constant 1 GAMMA

Diurnal correction method LOOP SYSTEM - REPEATING STA ON B.L.

Base Station check-in interval (hours)

Base Station location and value POST #1 CLAIM 512906 - 58947

ELECTROMAGNETIC

Instrument VLF (PHONIEX)

Coil configuration

Coil separation INFINATE

Accuracy

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency SEATTLE WASHINGTON
(specify V.L.F. station)

Parameters measured ORIENTATION AND MAGNITUDE OF THE MAJOR AND MINOR AXES OF THE ELLIPSE POLARIZATION

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

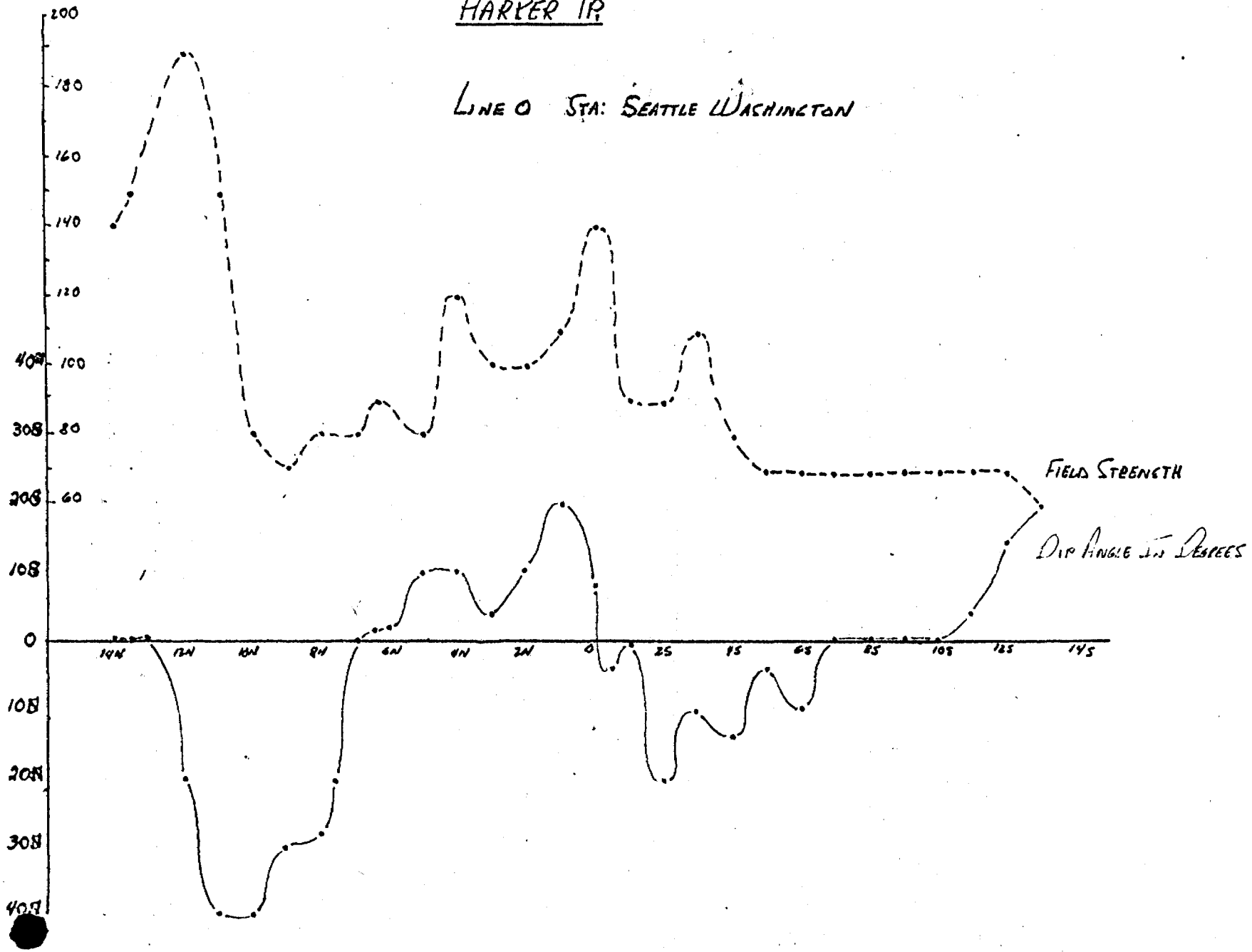
Electrode array

Electrode spacing

Type of electrode

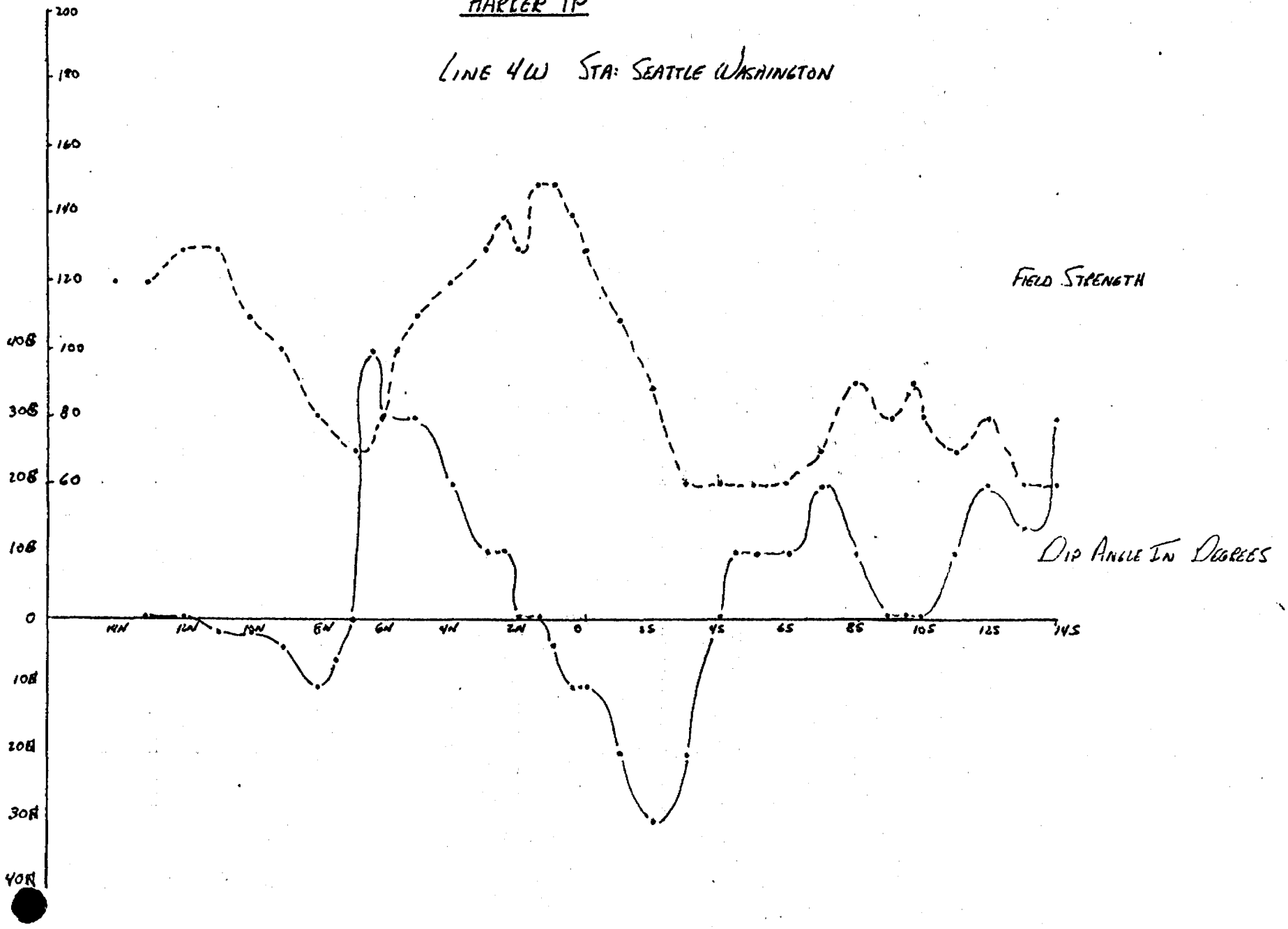
HARKER IP.

LINE O STA: SEATTLE WASHINGTON



HARKER IP

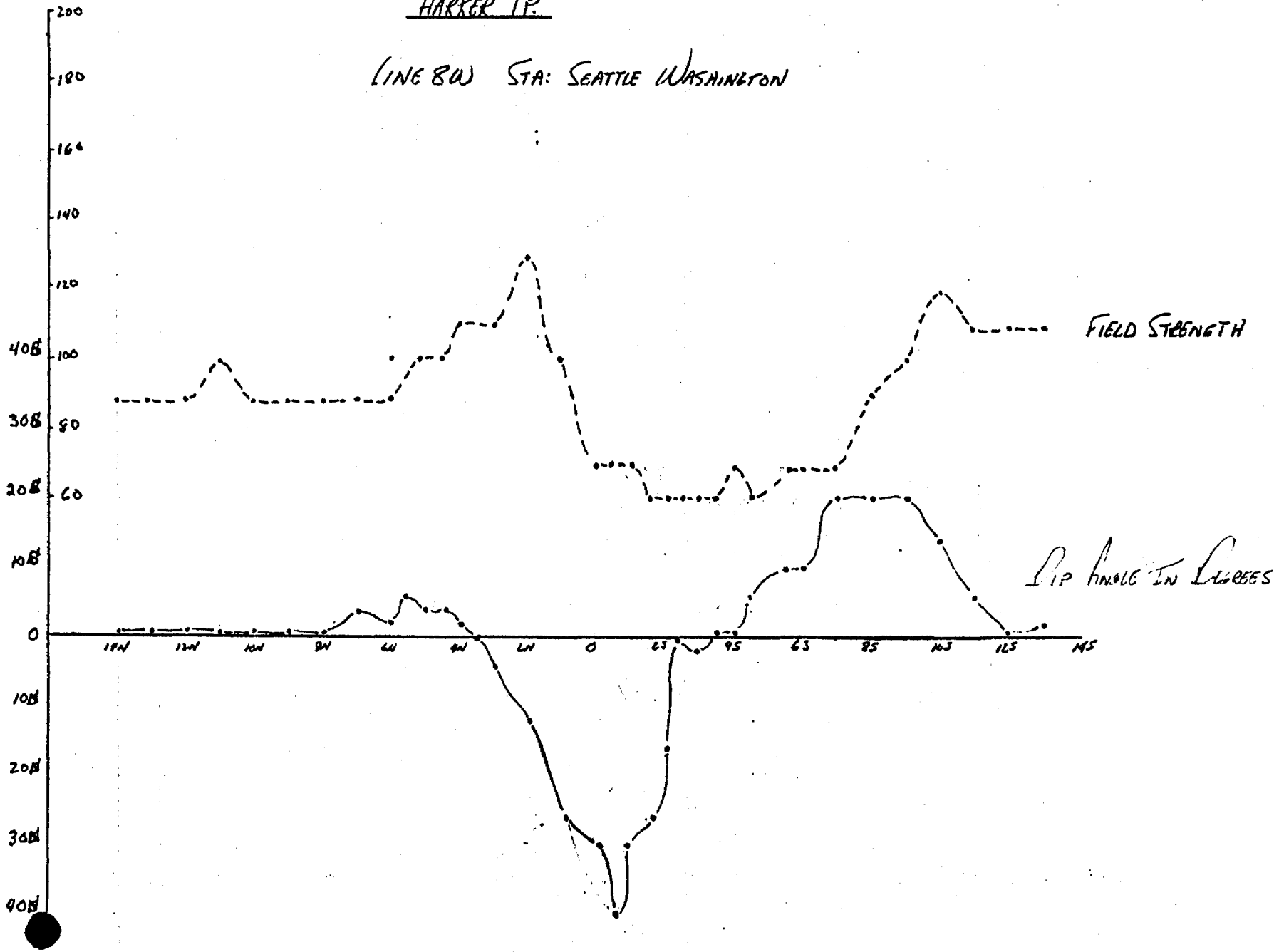
LINE 4W STA: SEATTLE WASHINGTON



23755 24710

HARKER I.P.

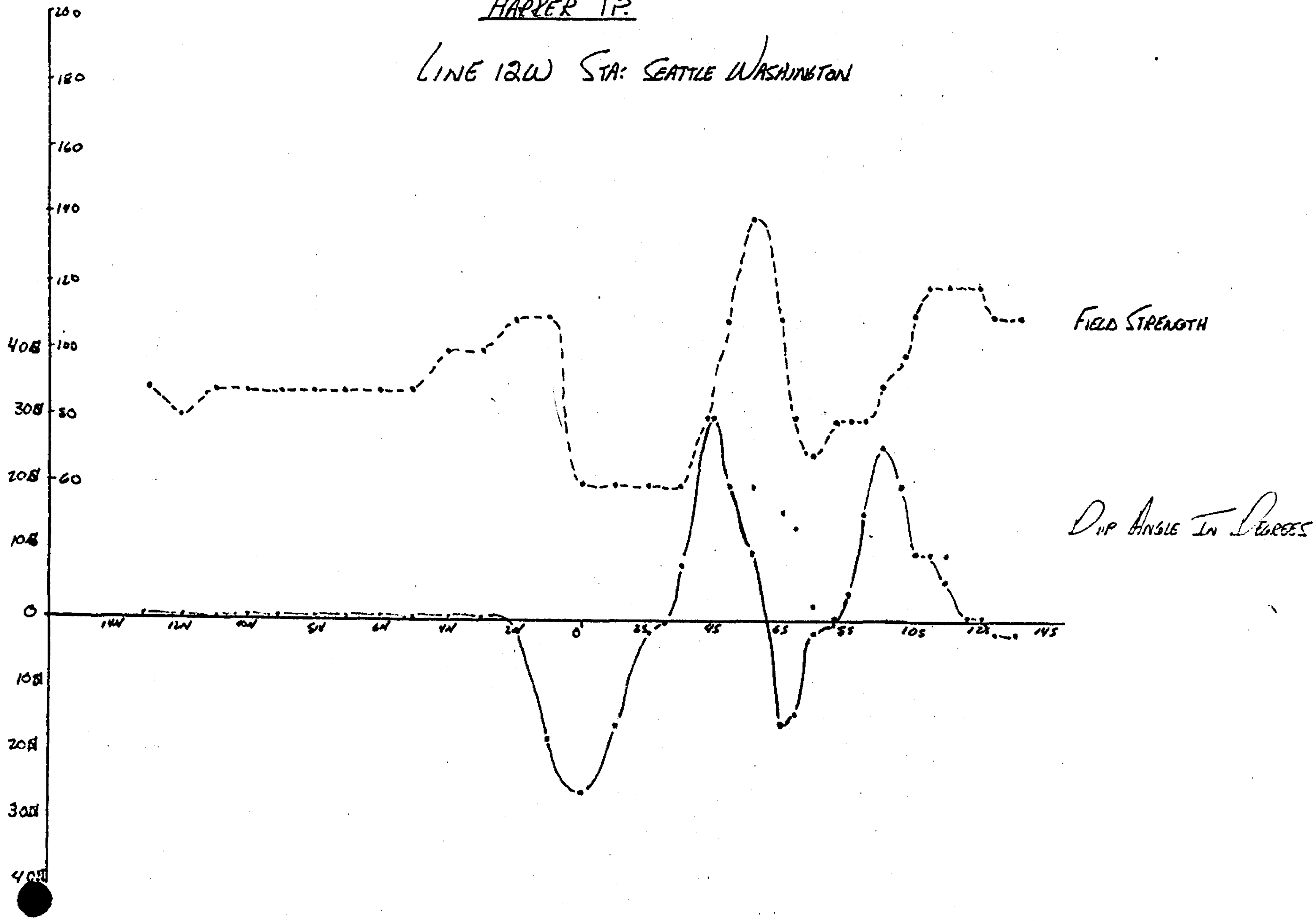
LINE 8W STA: SEATTLE WASHINGTON



#23[illegible] 307 0

Harker Tp.

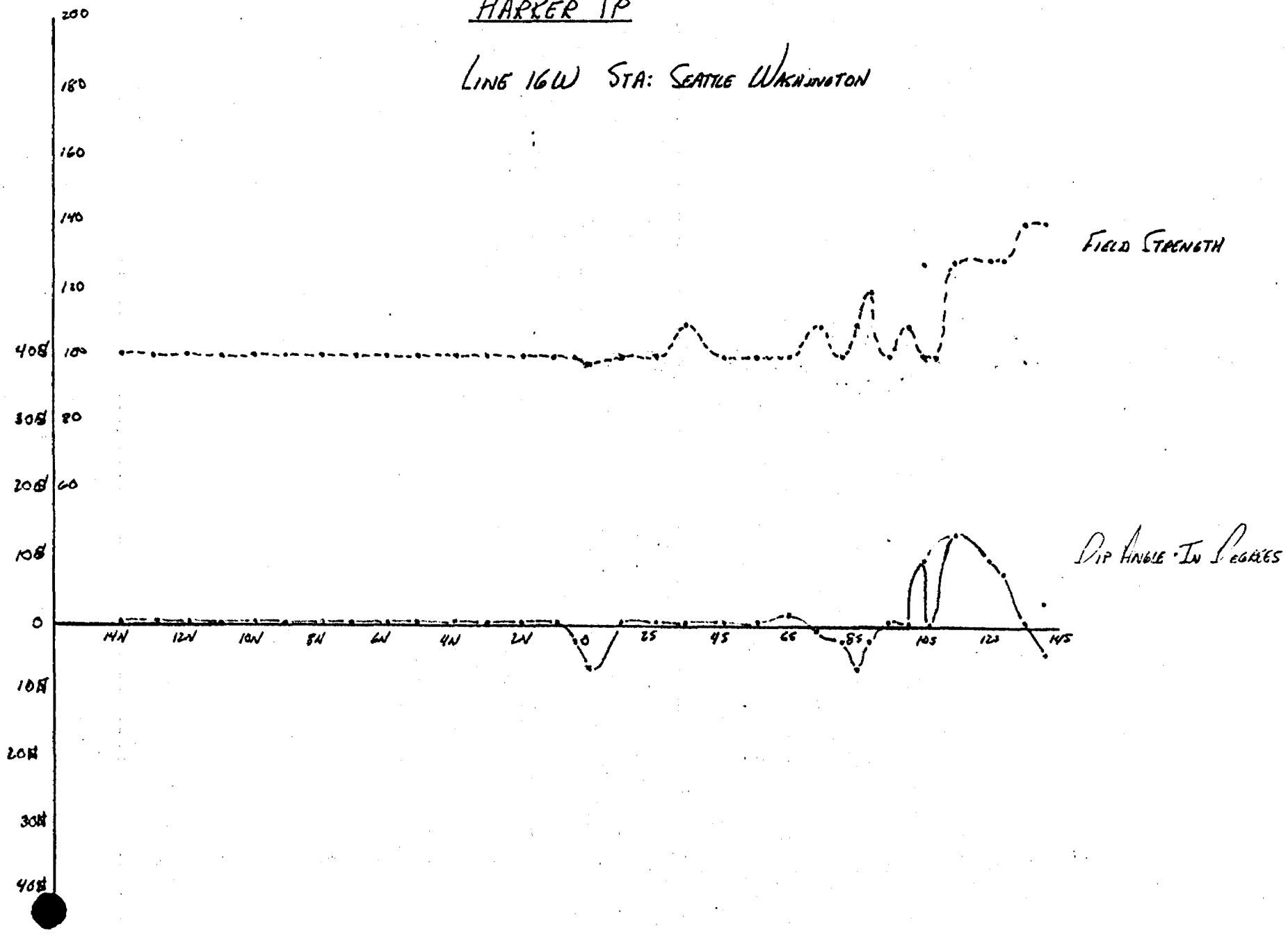
Line 12W Sta: Seattle Washington



#23755 40/70

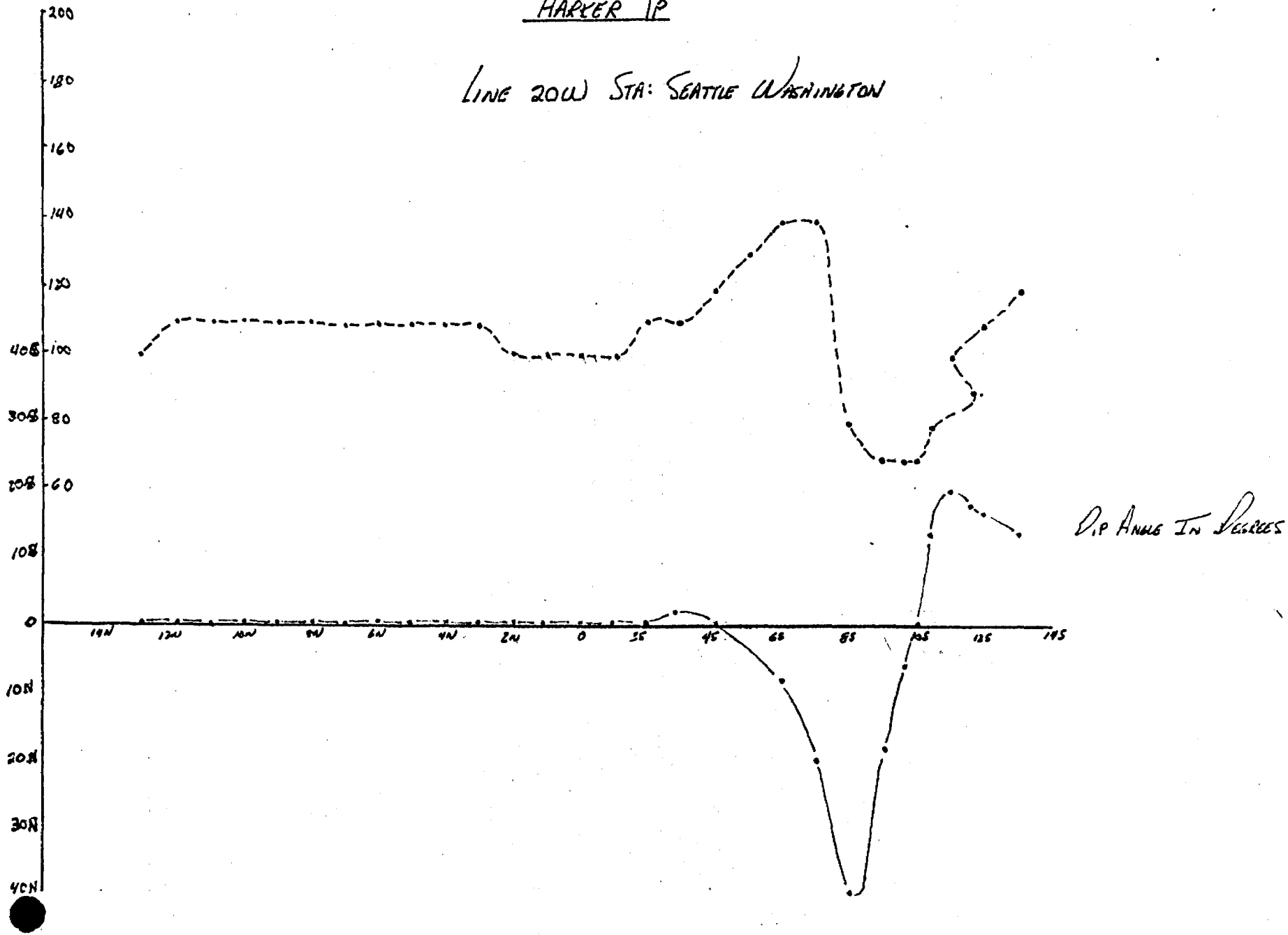
HARKER TP

LINE 16W STA: SEATTLE WASHINGTON



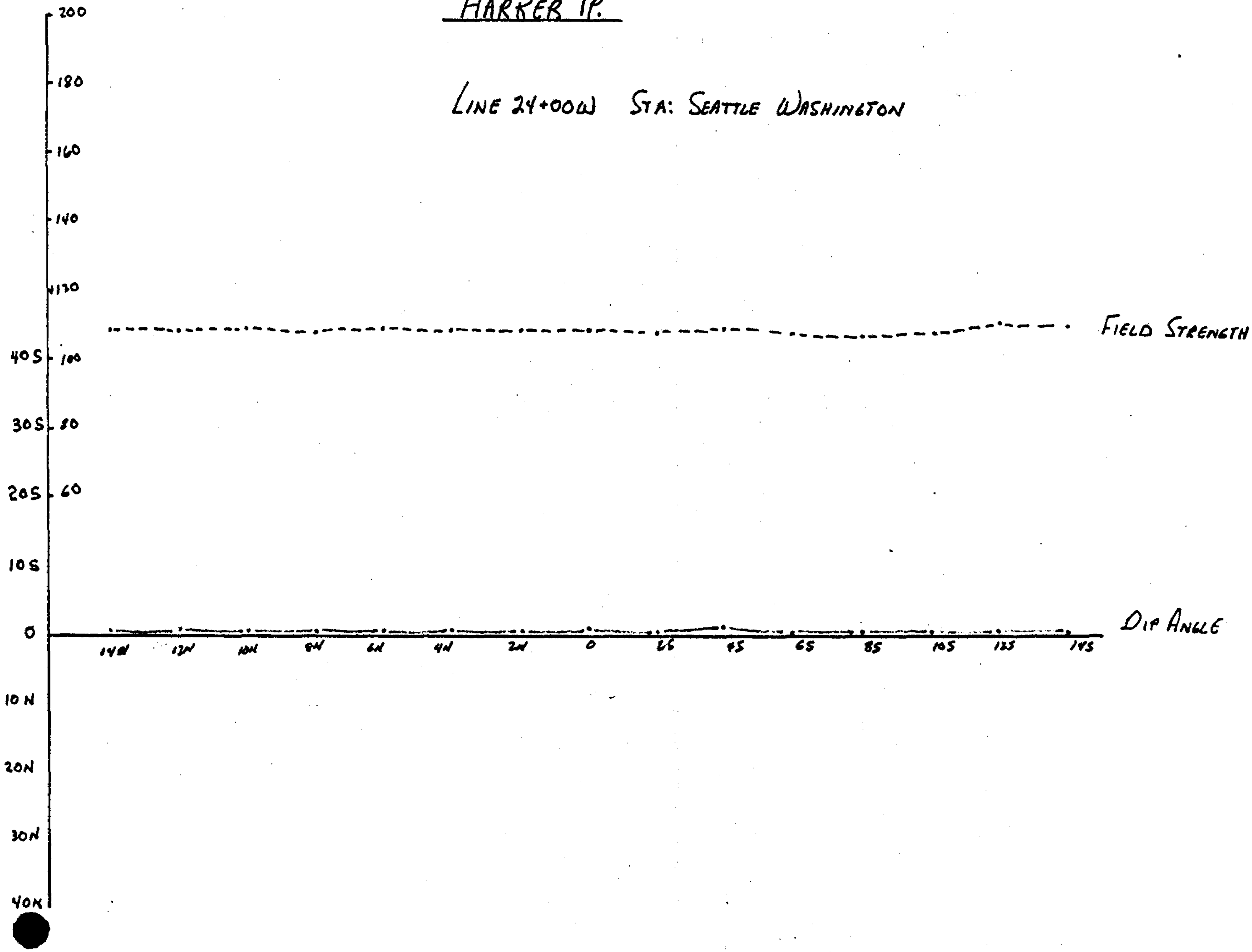
HARKER TP

LINE 20W STA: SEATTLE WASHINGTON



HARKER TP.

LINE 24+00W STA: SEATTLE WASHINGTON



+1 23755 797 U.

TRAIL

TEDDY BEAR CREEK

SWAMPY

SWAMPY

SWAMPY

OLD CORE SHACK

L 522686

L 512407

MAGNETOMETER SURVEY

KASNER CLAIMS

HARKER TOWNSHIP

CONDUCTOR

SCALE 1" = 100'

CONTOUR INTERVAL 100 GAMMA

Tom Kasner

32D125V0096 2.3755 HARKER