

2.3755



32D12SW0096 2.3755 HARKER

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MINING LANDS SECTION

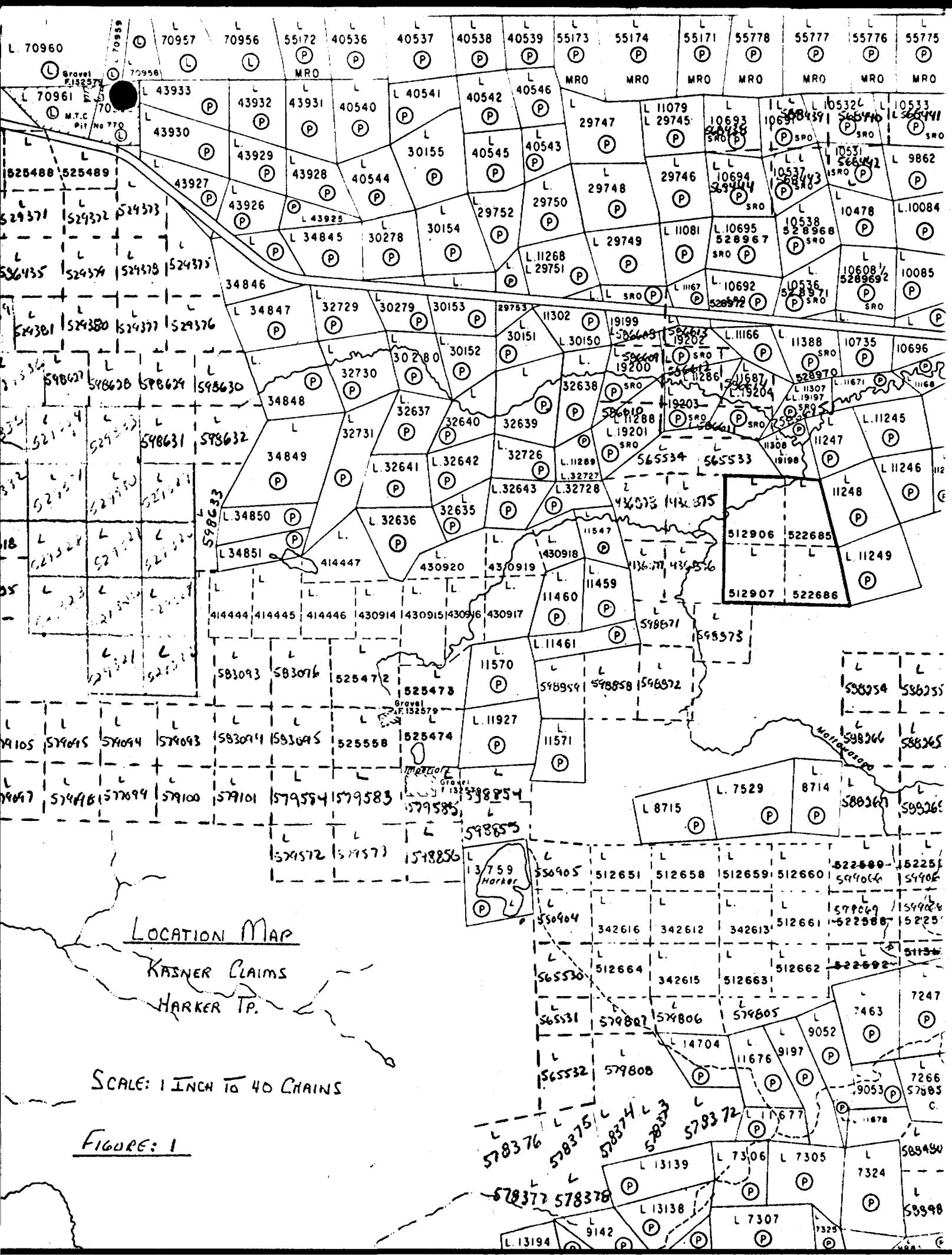
REPORT ON  
MAGNETOMETER AND V.L.F. ELECTROMAGNETIC  
SURVEYS  
KASNER CLAIMS  
HARKER TOWNSHIP, ONTARIO

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  
 KASNER CLAIMS  
 HARKER TP.

SCALE: 1 INCH TO 40 CHAINS

FIGURE: 1

512906 522685  
 512907 522686

13759  
 Harker

578376 578375 578374 578373 578372  
 578377 578378  
 13139 13138 13194 9142 7306 7305 7307 7324 7266 7267 7268 7269 7270 7271 7272 7273 7274 7275 7276 7277 7278 7279 7280 7281 7282 7283 7284 7285 7286 7287 7288 7289 7290 7291 7292 7293 7294 7295 7296 7297 7298 7299 7300 7301 7302 7303 7304 7306 7307 7308 7309 7310 7311 7312 7313 7314 7315 7316 7317 7318 7319 7320 7321 7322 7323 7324 7325 7326 7327 7328 7329 7330 7331 7332 7333 7334 7335 7336 7337 7338 7339 7340 7341 7342 7343 7344 7345 7346 7347 7348 7349 7350 7351 7352 7353 7354 7355 7356 7357 7358 7359 7360 7361 7362 7363 7364 7365 7366 7367 7368 7369 7370 7371 7372 7373 7374 7375 7376 7377 7378 7379 7380 7381 7382 7383 7384 7385 7386 7387 7388 7389 7390 7391 7392 7393 7394 7395 7396 7397 7398 7399 7400 7401 7402 7403 7404 7405 7406 7407 7408 7409 7410 7411 7412 7413 7414 7415 7416 7417 7418 7419 7420 7421 7422 7423 7424 7425 7426 7427 7428 7429 7430 7431 7432 7433 7434 7435 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448 7449 7450 7451 7452 7453 7454 7455 7456 7457 7458 7459 7460 7461 7462 7463 7464 7465 7466 7467 7468 7469 7470 7471 7472 7473 7474 7475 7476 7477 7478 7479 7480 7481 7482 7483 7484 7485 7486 7487 7488 7489 7490 7491 7492 7493 7494 7495 7496 7497 7498 7499 7500 7501 7502 7503 7504 7505 7506 7507 7508 7509 7510 7511 7512 7513 7514 7515 7516 7517 7518 7519 7520 7521 7522 7523 7524 7525 7526 7527 7528 7529 7530 7531 7532 7533 7534 7535 7536 7537 7538 7539 7540 7541 7542 7543 7544 7545 7546 7547 7548 7549 7550 7551 7552 7553 7554 7555 7556 7557 7558 7559 7560 7561 7562 7563 7564 7565 7566 7567 7568 7569 7570 7571 7572 7573 7574 7575 7576 7577 7578 7579 7580 7581 7582 7583 7584 7585 7586 7587 7588 7589 7590 7591 7592 7593 7594 7595 7596 7597 7598 7599 7600 7601 7602 7603 7604 7605 7606 7607 7608 7609 7610 7611 7612 7613 7614 7615 7616 7617 7618 7619 7620 7621 7622 7623 7624 7625 7626 7627 7628 7629 7630 7631 7632 7633 7634 7635 7636 7637 7638 7639 7640 7641 7642 7643 7644 7645 7646 7647 7648 7649 7650 7651 7652 7653 7654 7655 7656 7657 7658 7659 7660 7661 7662 7663 7664 7665 7666 7667 7668 7669 7670 7671 7672 7673 7674 7675 7676 7677 7678 7679 7680 7681 7682 7683 7684 7685 7686 7687 7688 7689 7690 7691 7692 7693 7694 7695 7696 7697 7698 7699 7700 7701 7702 7703 7704 7705 7706 7707 7708 7709 7710 7711 7712 7713 7714 7715 7716 7717 7718 7719 7720 7721 7722 7723 7724 7725 7726 7727 7728 7729 7730 7731 7732 7733 7734 7735 7736 7737 7738 7739 7740 7741 7742 7743 7744 7745 7746 7747 7748 7749 7750 7751 7752 7753 7754 7755 7756 7757 7758 7759 7760 7761 7762 7763 7764 7765 7766 7767 7768 7769 7770 7771 7772 7773 7774 7775 7776 7777 7778 7779 7780 7781 7782 7783 7784 7785 7786 7787 7788 7789 7790 7791 7792 7793 7794 7795 7796 7797 7798 7799 7800 7801 7802 7803 7804 7805 7806 7807 7808 7809 7810 7811 7812 7813 7814 7815 7816 7817 7818 7819 7820 7821 7822 7823 7824 7825 7826 7827 7828 7829 7830 7831 7832 7833 7834 7835 7836 7837 7838 7839 7840 7841 7842 7843 7844 7845 7846 7847 7848 7849 7850 7851 7852 7853 7854 7855 7856 7857 7858 7859 7860 7861 7862 7863 7864 7865 7866 7867 7868 7869 7870 7871 7872 7873 7874 7875 7876 7877 7878 7879 7880 7881 7882 7883 7884 7885 7886 7887 7888 7889 7890 7891 7892 7893 7894 7895 7896 7897 7898 7899 7900 7901 7902 7903 7904 7905 7906 7907 7908 7909 7910 7911 7912 7913 7914 7915 7916 7917 7918 7919 7920 7921 7922 7923 7924 7925 7926 7927 7928 7929 7930 7931 7932 7933 7934 7935 7936 7937 7938 7939 7940 7941 7942 7943 7944 7945 7946 7947 7948 7949 7950 7951 7952 7953 7954 7955 7956 7957 7958 7959 7960 7961 7962 7963 7964 7965 7966 7967 7968 7969 7970 7971 7972 7973 7974 7975 7976 7977 7978 7979 7980 7981 7982 7983 7984 7985 7986 7987 7988 7989 7990 7991 7992 7993 7994 7995 7996 7997 7998 7999 8000

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 Kasner 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 appint 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

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 limiting penetration factor of the V.L.F. instrument and/or the conductive nature of the overburden.

CONCLUSIONS:

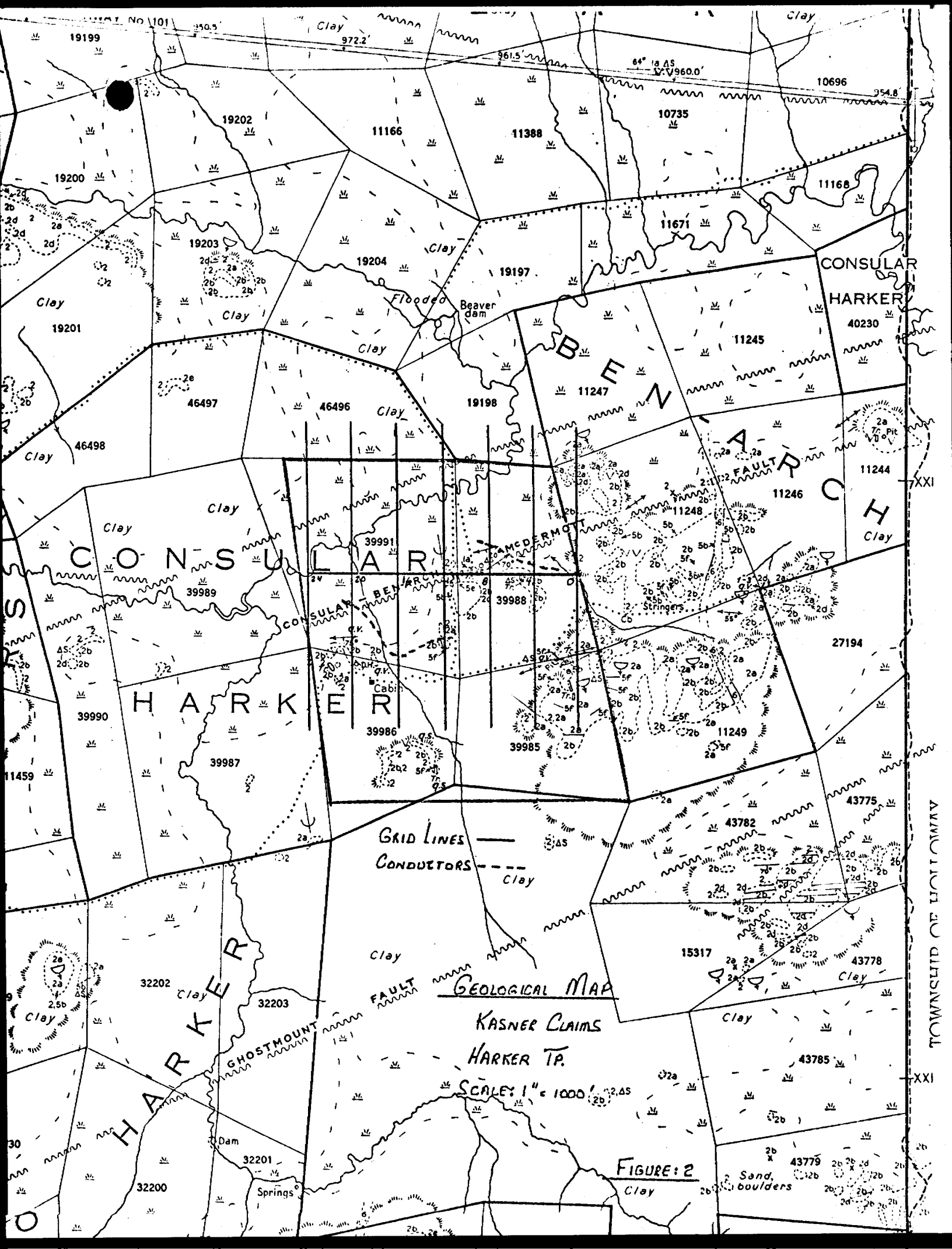
The north conductor outlines a previously explored gold bearing shear zone which carries values across considerable widths. (Consolidated Mining and Smelting Co. Syndicate Resident Geologists File, Kirkland Lake) In 1973 the second half of a 7/8" split core from DDH A-1 (C.M.S. Syndicate) sampled by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



19199 19200 19201 19202

19203 19204 11166 11388

19197 19198 10735 10696

11671 11245 40230 11247

11248 11249 46497 46496

39991 39988 39986 39985

39990 39987 27194 11459

32202 32203 32201 32200

15317 43782 43775 43778

43785 43779 20 20

GRID LINES  
CONDUCTORS

GEOLOGICAL MAP  
KASNER CLAIMS  
HARKER TP.

SCALE: 1" = 1000'

FIGURE: 2  
Clay

TOWNSHIP OF HARKER



**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 HARVEY 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

**MINING CLAIMS TRAVERSED**  
List numerically

(prefix)	(number)
<u>L 512906</u>	<u>Mag.</u>
<u>L 512907 1/2</u>	
<u>L 522685</u>	
<u>L 522686 1/2</u>	
<u>4 x 40 = 160 : 5 = 32</u>	
<u>4 x 20 = 80 : 5 = 16</u>	

If space insufficient, attach list

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

ENTER 40 days (includes  
line cutting) for first  
survey.

ENTER 20 days for each  
additional survey using  
same grid.

- Geophysical
  - Electromagnetic 40
  - Magnetometer 20
  - Radiometric \_\_\_\_\_
  - 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:   
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.2071

Previous Surveys

File No.	Type	Date	Claim Holder
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File No.	Type	Date	Claim Holder
<u>L.D.</u>			

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 210 214

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 (PHONIX)

Coil configuration \_\_\_\_\_

Coil separation INFINITE

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

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

GRAVITY

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters - On time \_\_\_\_\_ Frequency \_\_\_\_\_

- Off time \_\_\_\_\_ Range \_\_\_\_\_

- Delay time \_\_\_\_\_

- Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

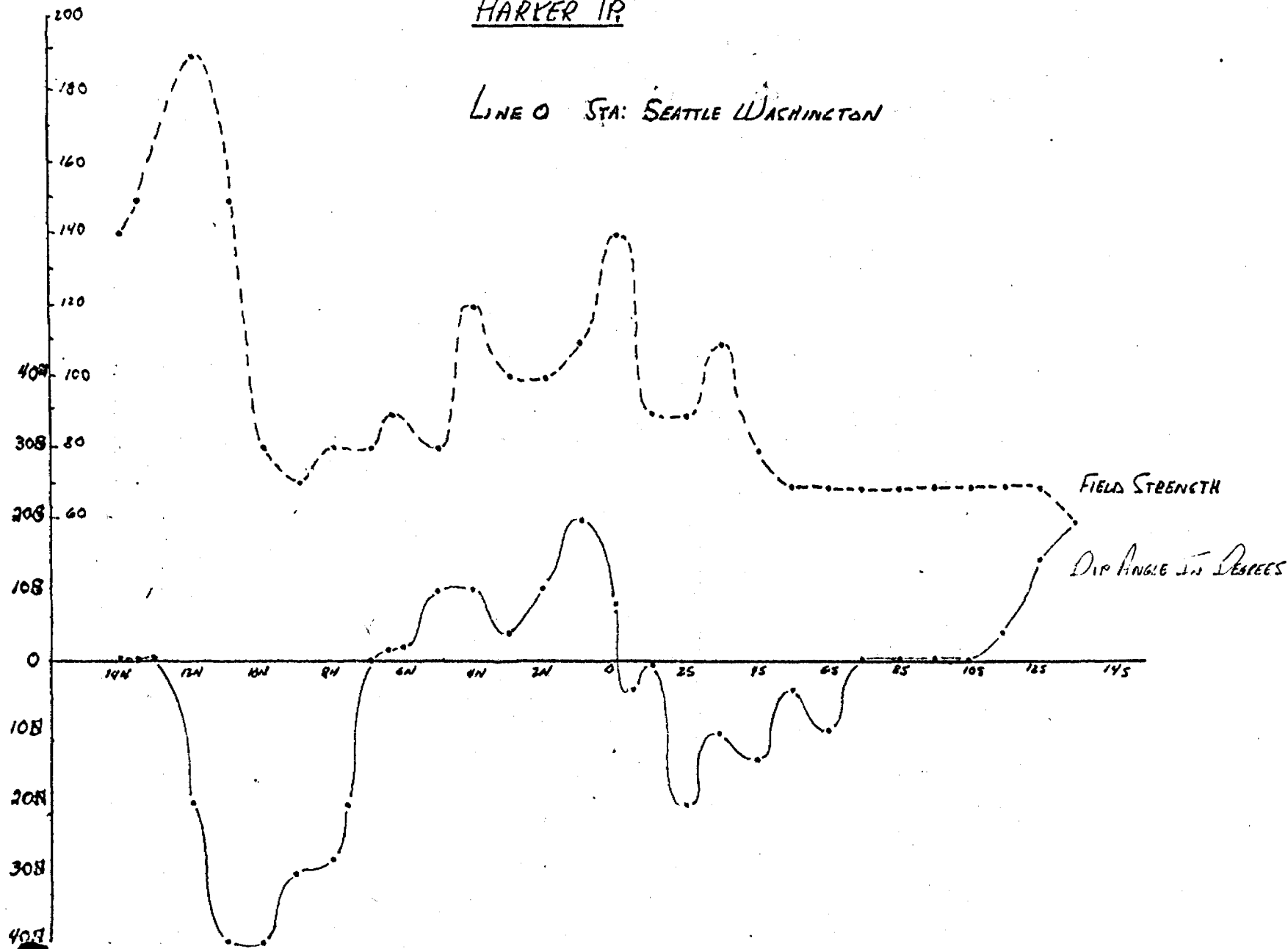
Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

INDUCED POLARIZATION RESISTIVITY

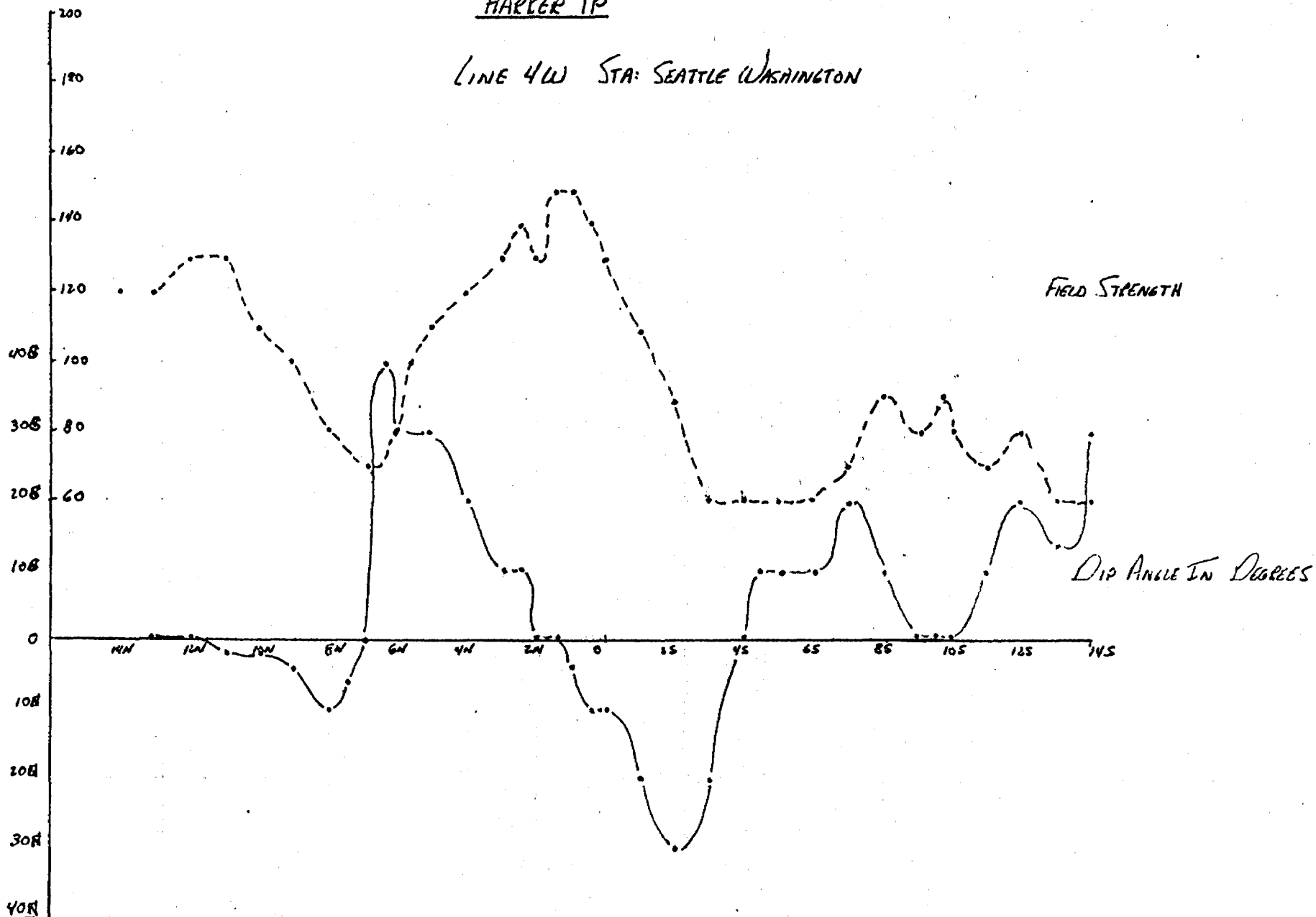
HARKER TR

LINE 0 STA: SEATTLE WASHINGTON



HARPER TP

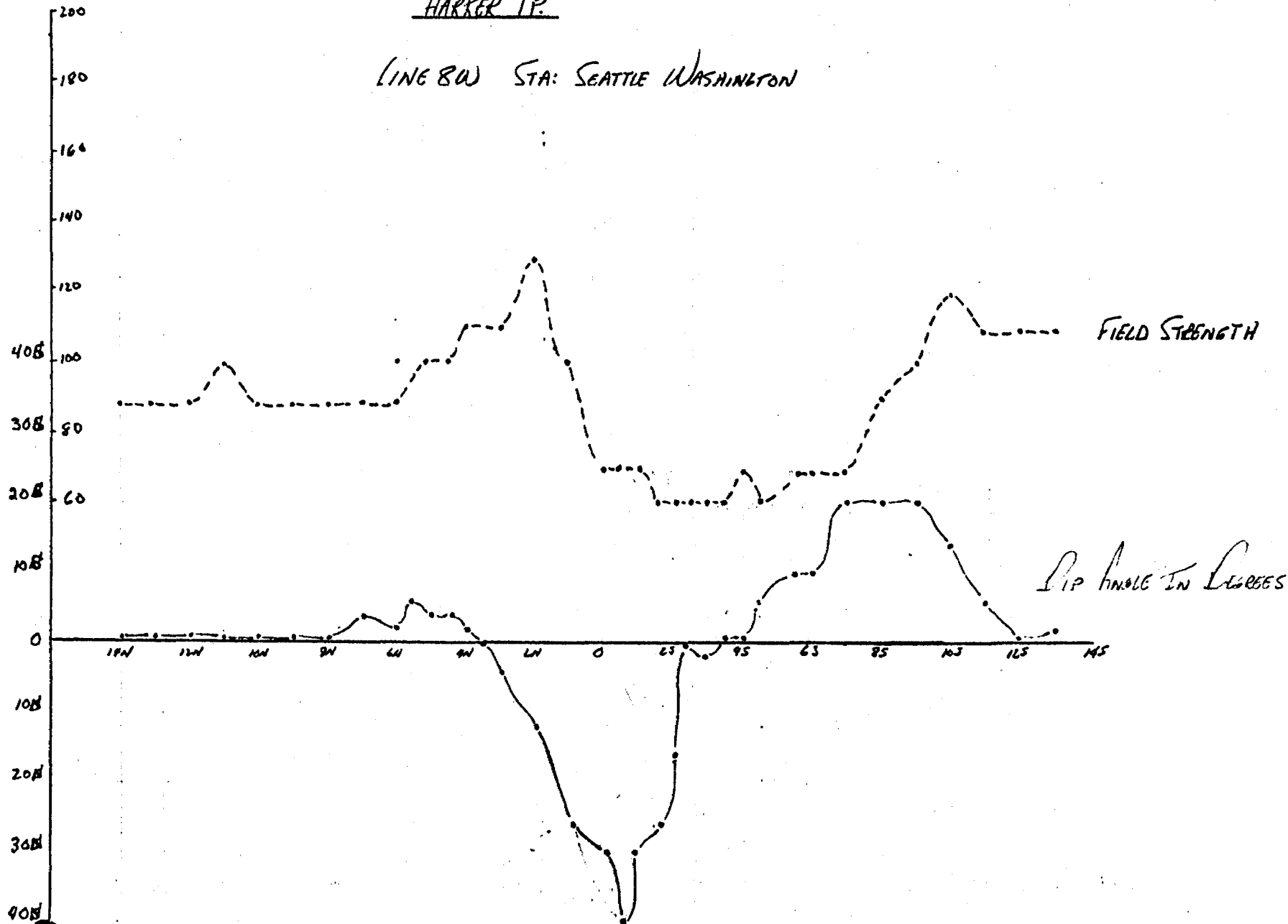
LINE 4W STA: SEATTLE WASHINGTON



23755 20/70

HARKER IP.

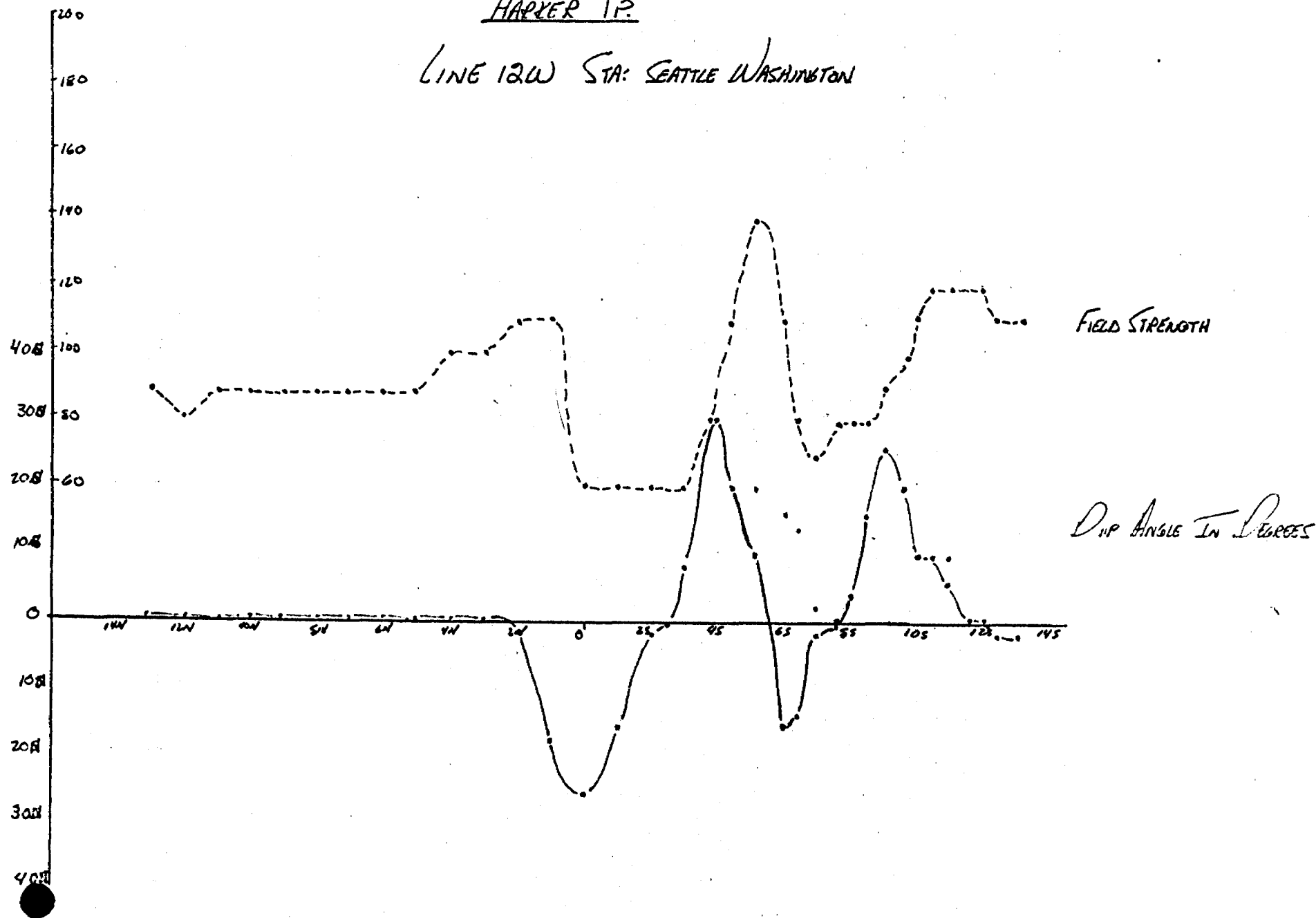
(LINE 80) STA: SEATTLE WASHINGTON



# 23755 307 U

HARPER TP.

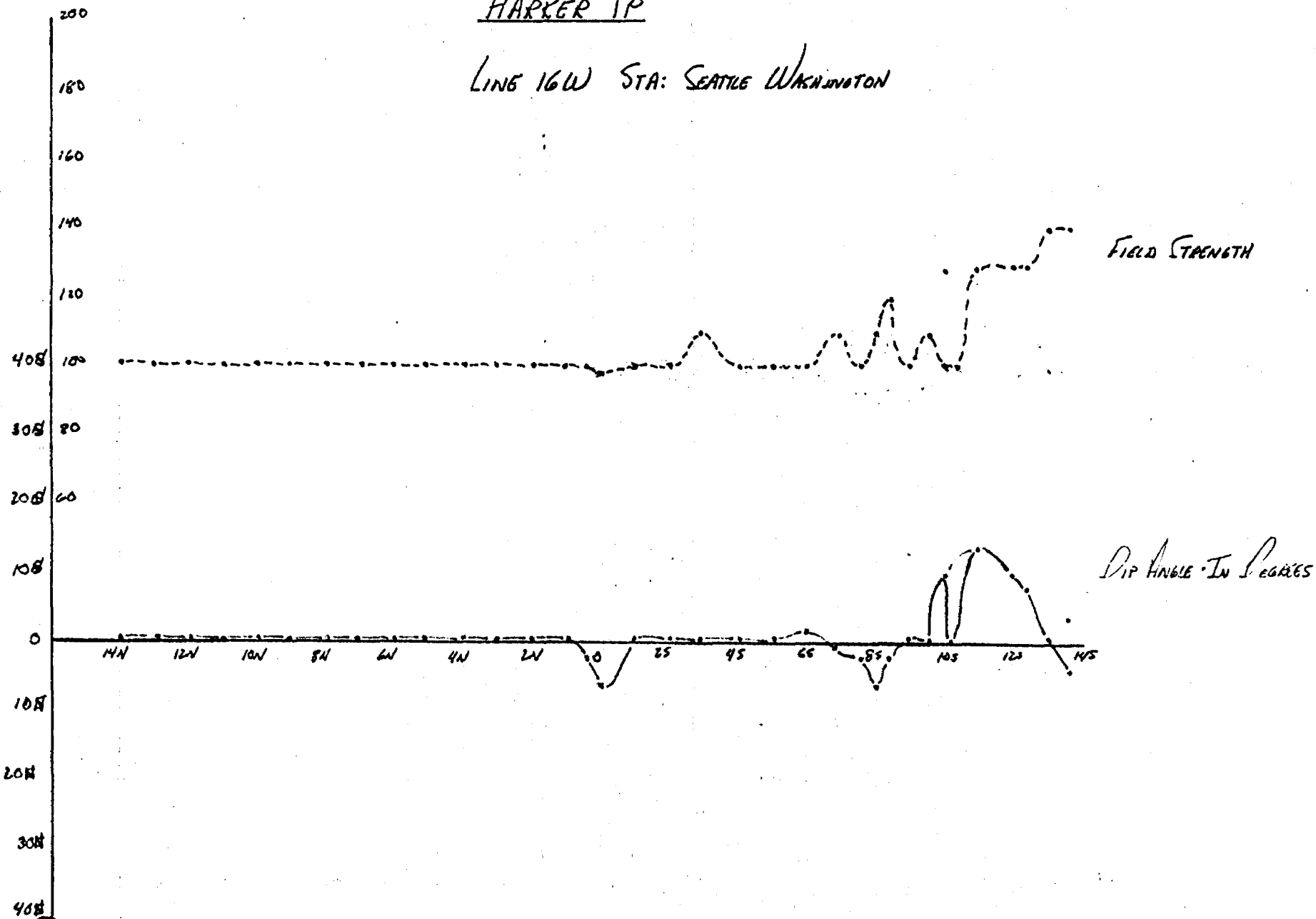
LINE 12W STA: SEATTLE WASHINGTON



# 23755 4/1/70

HARKER TP

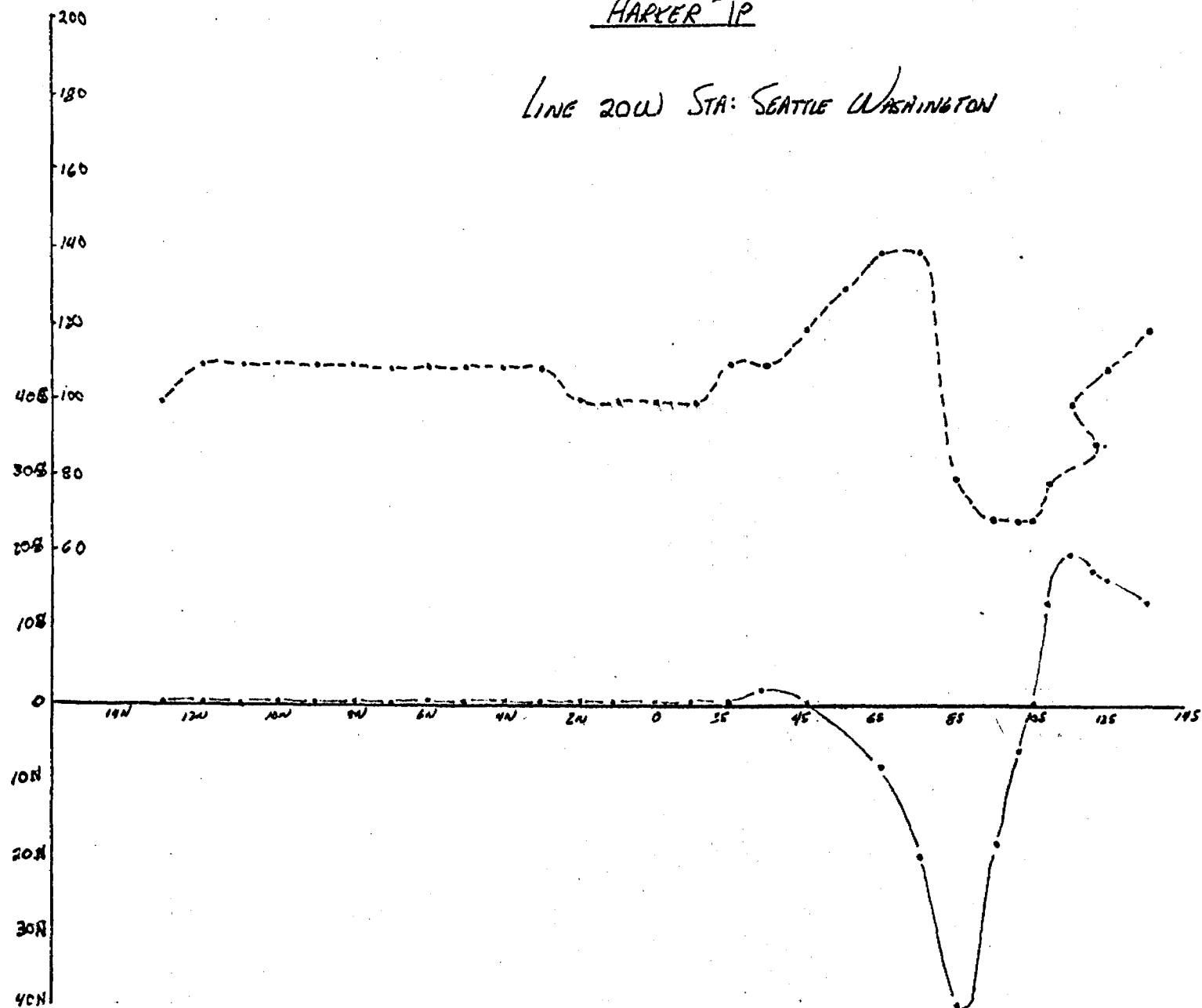
LING 16W STA: SEATTLE WASHINGTON



11 30 11 30 11 30

HARVER TP

LINE 20W STA: SEATTLE WASHINGTON

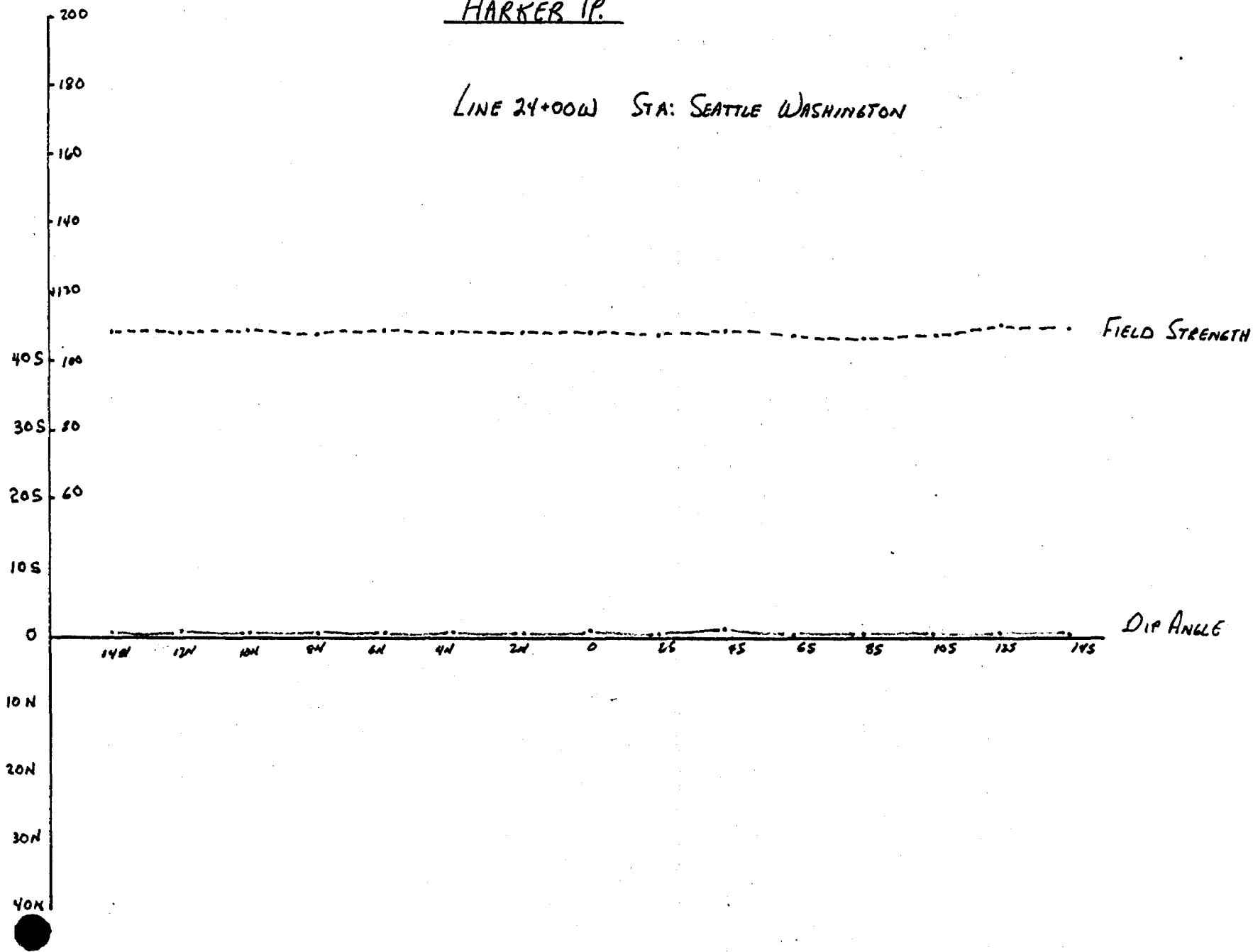


DIP ANGLE IN DEGREES

11/13/25 10:00 0

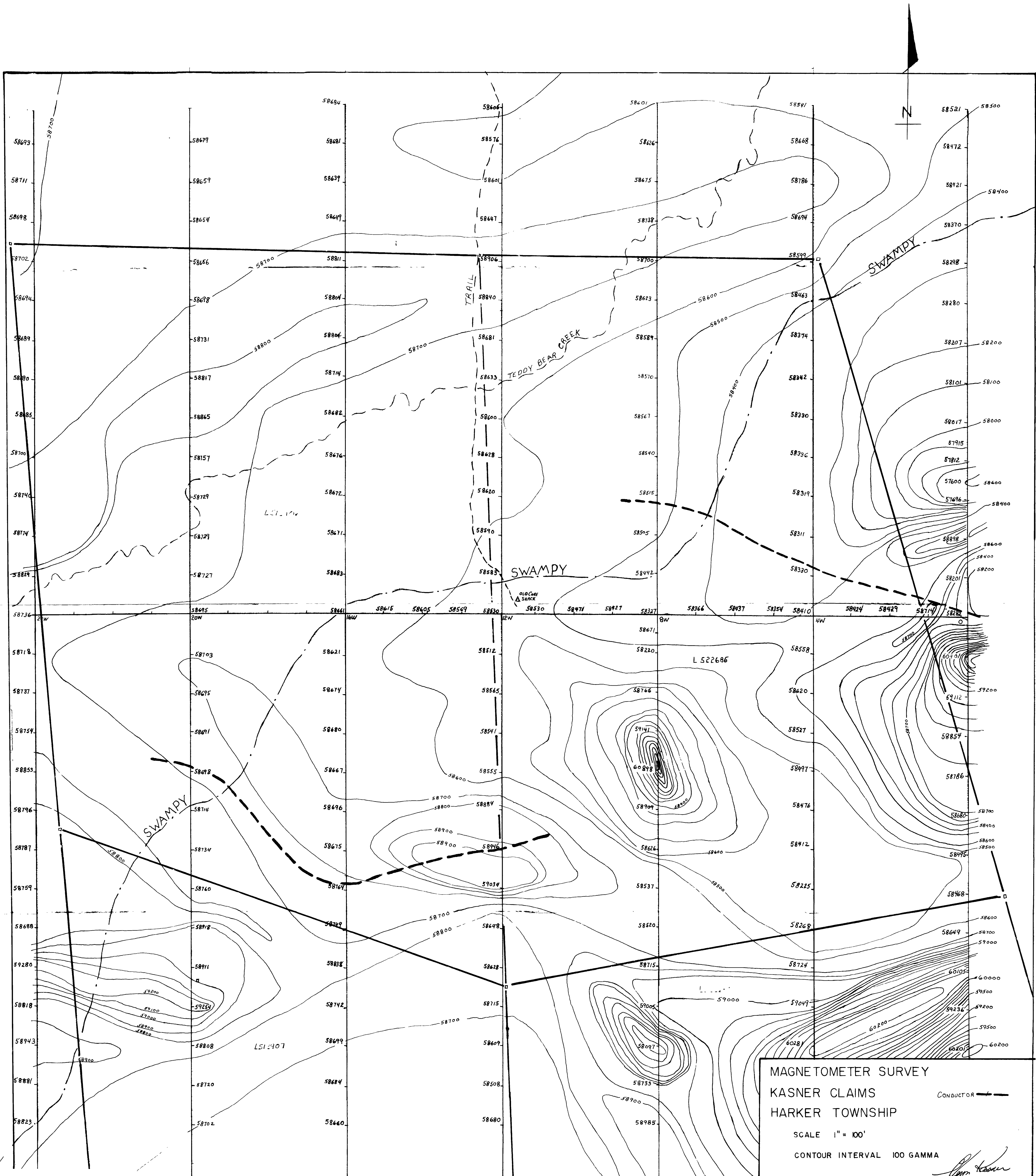
HARKER TP.

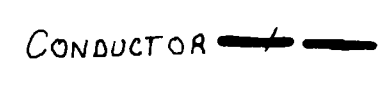
LINE 24+00W STA: SEATTLE WASHINGTON



#123133 797 U.





MAGNETOMETER SURVEY  
 KASNER CLAIMS  
 HARKER TOWNSHIP  
 CONDUCTOR   
 SCALE 1" = 100'  
 CONTOUR INTERVAL 100 GAMMA

