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Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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HAND AND MOBILE MAGNETOMETER SURVEY

NORTH STAR MINE AREA

PINAL COUNTY, ARIZONA

For

Phillips Petroleum Company
Minerals Division

March 1966

By

Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona

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Contour Plan and Profile Map

Records 1 through 23

Records A through D

INTRODUCTION

At the request of Mr. Dave Arnold of Phillips Petroleum Company, Mineral Division, Heinrichs Geoexploration Company completed a total intensity magnetic survey in the North Star Mine Area, in sections 7, 8, 9, 16 and 17, R 10 E, T 75, Pinal County, Arizona.

Heinrichs personnel involved in the field work were Dan Anderson, observer, and Jim Bauersachs, assistant observer on the mobile magnetometer. Compilation was done by the Geoex staff in Tucson, Arizona, under the supervision of Chris S. Ludwig, senior geophysicist.

PROCEDURES

The instrument used for recording variations in the total magnetic field is a Gulf Research Corporation, licensed flux-gate type magnetometer, mounted on a Dodge Power Wagon. Variations in the total earth's field are continuously recorded on chart paper in a recorder geared to the vehicle drive. Record is made at whatever speed the vehicle is traveling. On this project, most of the coverage was across broken terrain which slowed vehicle speed to approximately 5 to 10 mph. A total of 23 lines and 40 miles of record were made.

The instrument was positioned on a sensitivity of 100 gammas per half inch, thus giving 1000 gammas across the entire width of the chart. This type of recording allows for ten effective chart widths by letting the trace cross the paper and continue again from the other side as necessary. The charts as run, read from right to left and reading lengthwise from the start of the record, the higher values are to the right. The profile trace is made by a tapper bar that can be actuated by either the drive of the vehicle or an electronic timing mechanism. In this case, the distance function was used with a mark produced each five feet of travel.

The instrument was positioned at the start of the project to record on a horizontal scale of 400 feet per inch. The instrument was kept at this scale throughout the survey.

An arbitrary level of 500 gammas was set at the magnetic base. All values plotted on the records and contour map, are relative to this arbitrary base level. All linear control for the project was furnished by Phillips Petroleum Company personnel.

The north-south momag lines were numbered 1 through 23, Line 1 being on the west edge of the area. This data is presented as a contour map on a scale of 1"=500' and a contour interval of 100 gammas. The distance between lines was approximately 660 feet. Arrows indicate direction of

travel and a bold short line indicates the start and stop of a record. Four east-west lines were run as a basis of control for the north-south traverses and identified by letters A through D.

The instrument used for the portable vertical intensity survey was a Jalander Magnetometer of Finnish manufacture. This instrument was used for line extension and line fill in where the terrain was too broken to drive. Instrument sensitivity is about 25 gammas.

The vertical intensity data are plotted in profile form, and are to be considered separately from the total intensity data, as they cannot be joined in contour form because of the different values measured. The vertical intensity reading at the magnetic base was 1060 gammas and all vertical intensity values were tied to the magnetic base, at least three times per day to determine diurnal corrections and instrumental drift.

Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

Dan Anderson

Dan Anderson
Observer

APPROVED Chris S. Ludwig
Chris S. Ludwig
Senior Geophysicist

March 23, 1966
P. O. Box 5671
Tucson, Arixona

HAND AND MOBILE MAGNETOMETER SURVEY

NORTH STAR MINE AREA

PINAL COUNTY, ARIZONA

For

Phillips Petroleum Company
Minerals Division

March 1966

By

Heinrichs Geoexploration Company
P. O. Box 5671 Tucson, Arizona

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Respectfully submitted,

HEINRICHS GEOEXPLORATION COMPANY

S/N Dan Anderson
Observer

APPROVED_____
S/N Chris S. Ludwig
Senior Geophysicist

March 23, 1966
P. O. Box 5671
Tucson, Arizona

Phillips Pet.
File

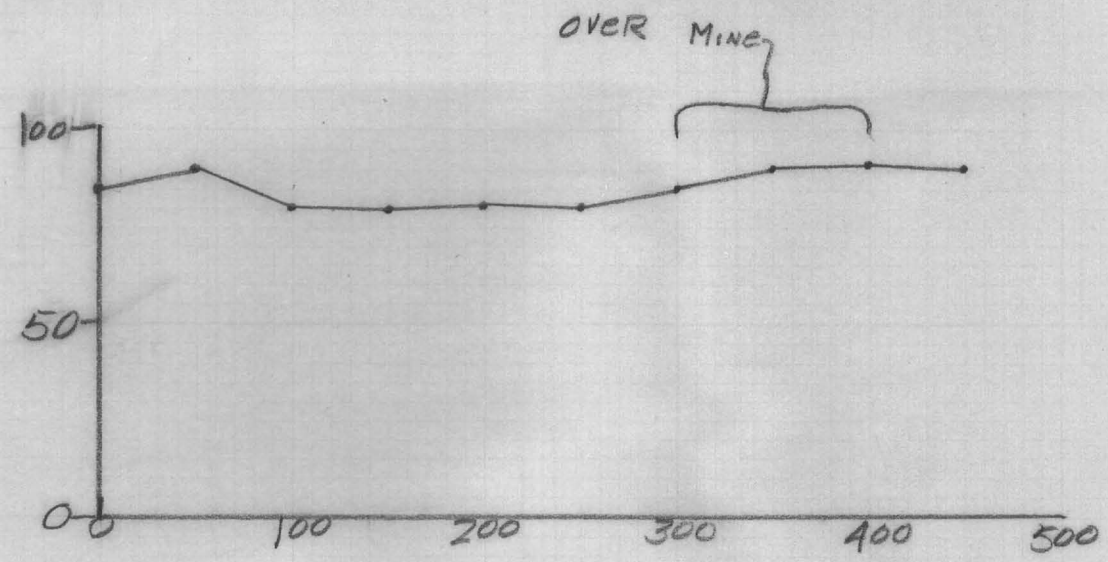
MONITOR **Printing**

1855 WEST PRINCE ROAD - TUCSON, ARIZONA - 624-7056

#17 close to pipe

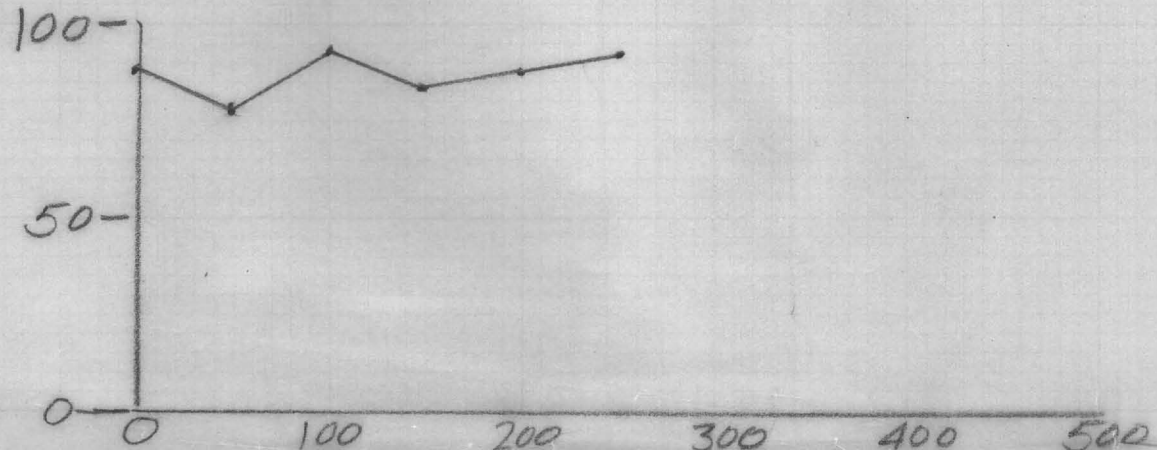
100d

LINE #7 FILLIN OVER NORTH STAR MINE LOOKING WEST



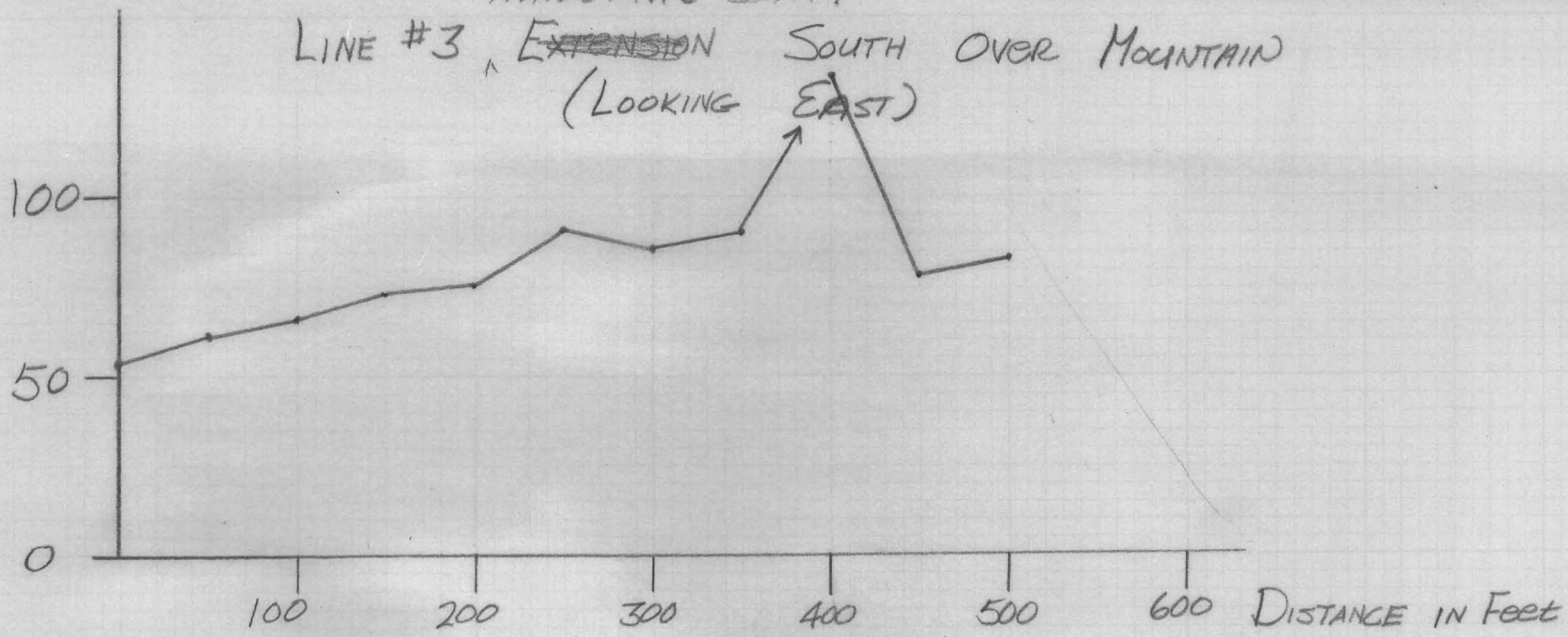
GAMMAS

LINE #5 EXTENSION FROM NORTH END MOMAG TRAVERSE
(LOOKING WEST)



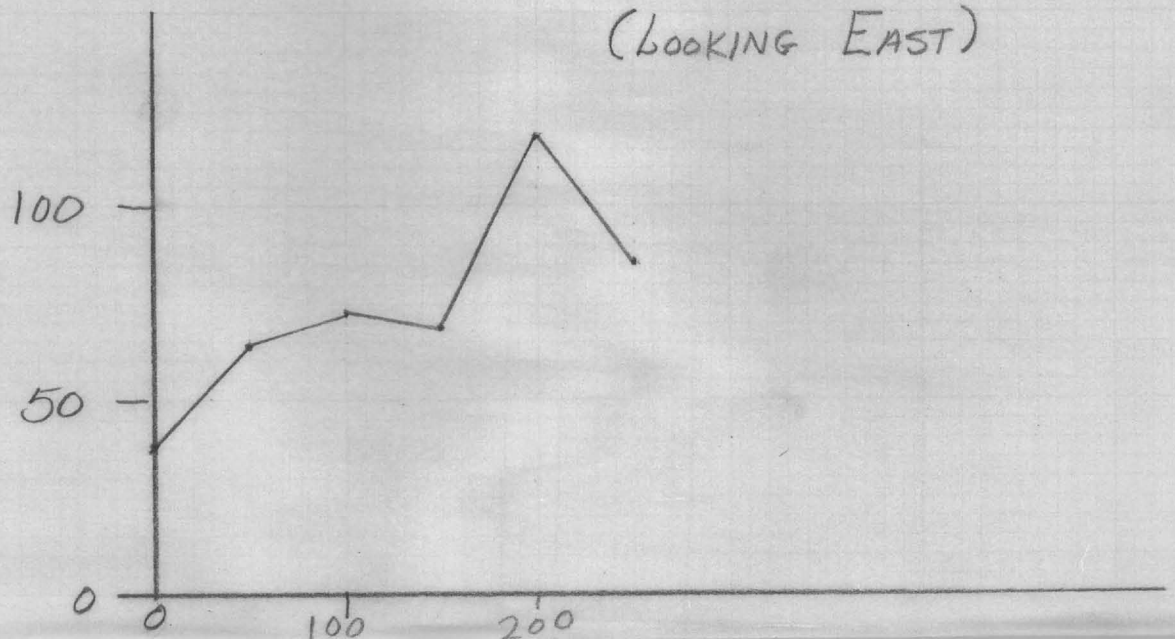
HANDMAG EXT.

LINE #3 ~~EXTENSION~~ SOUTH OVER MOUNTAIN
(LOOKING EAST)

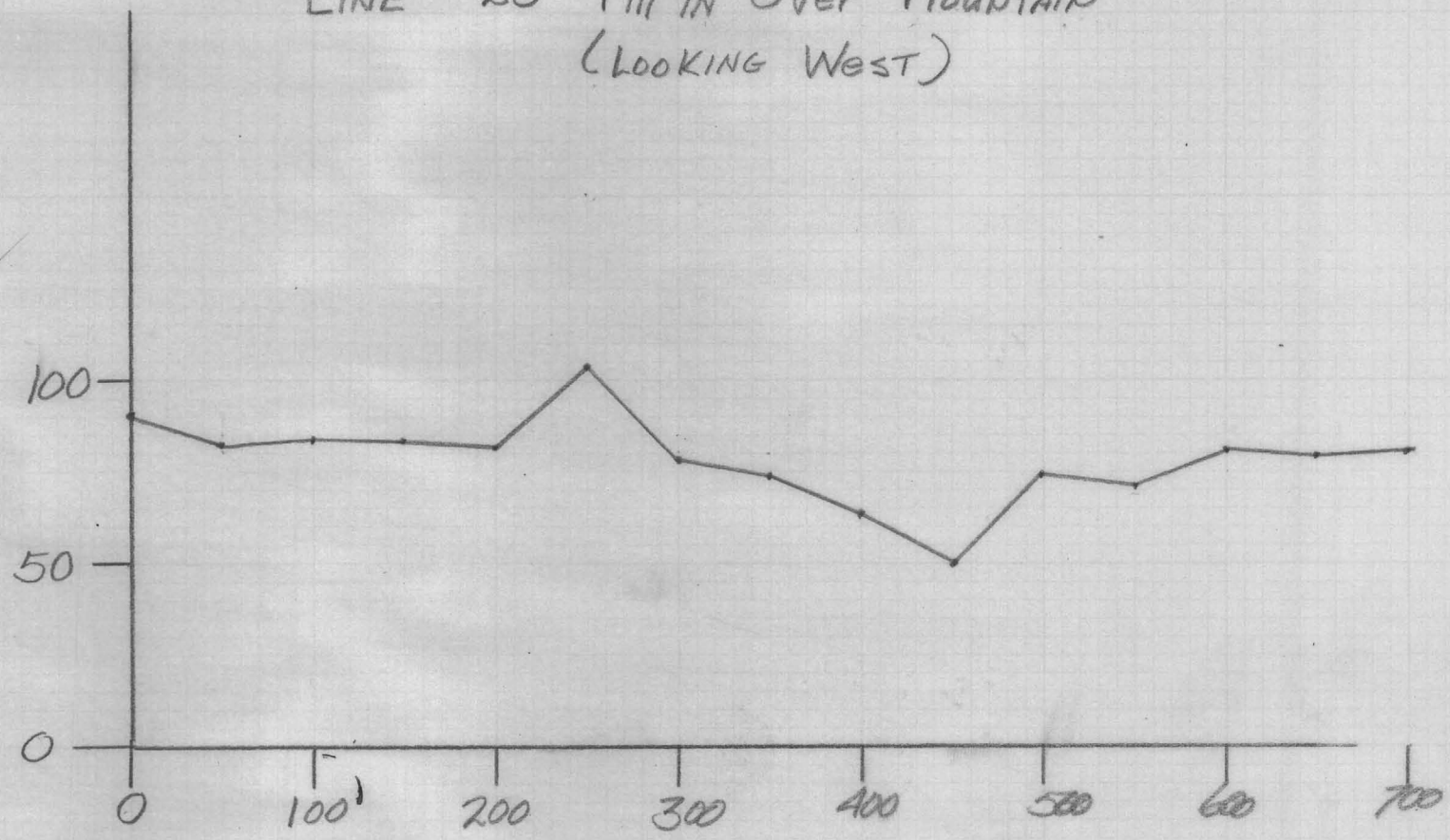


GAMMAS

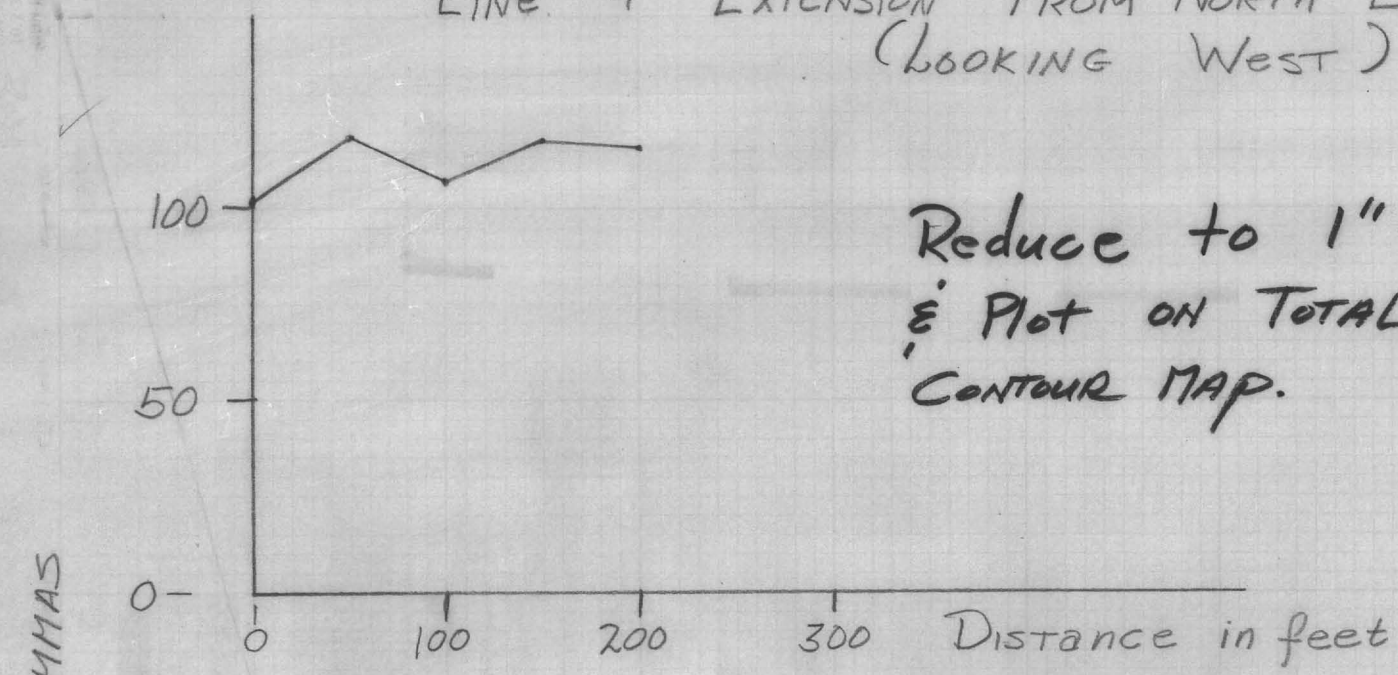
LINE #1 SOUTH OVER MOUNTAIN
(LOOKING EAST)



LINE 23 FILL IN OVER MOUNTAIN
(LOOKING WEST)

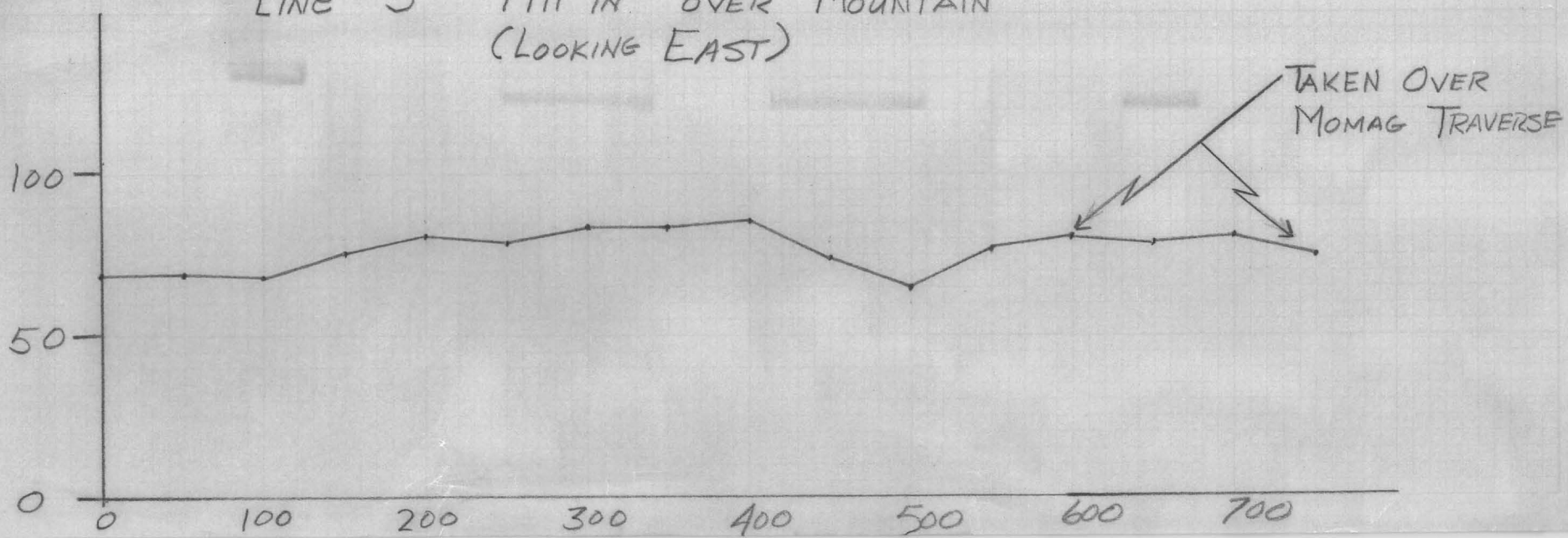


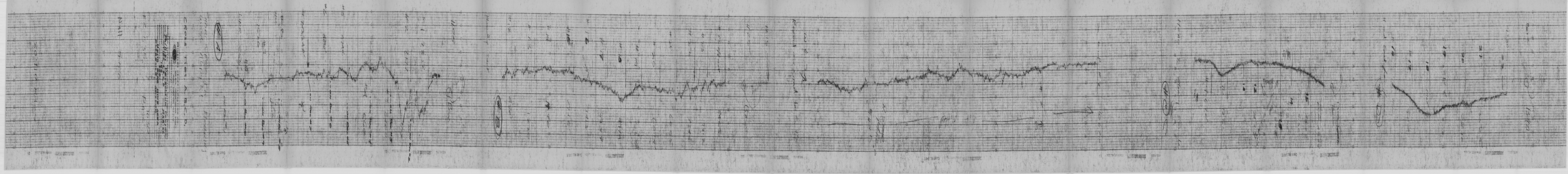
LINE #4 EXTENSION FROM NORTH END MOMAG TRAVERSE
(LOOKING WEST)

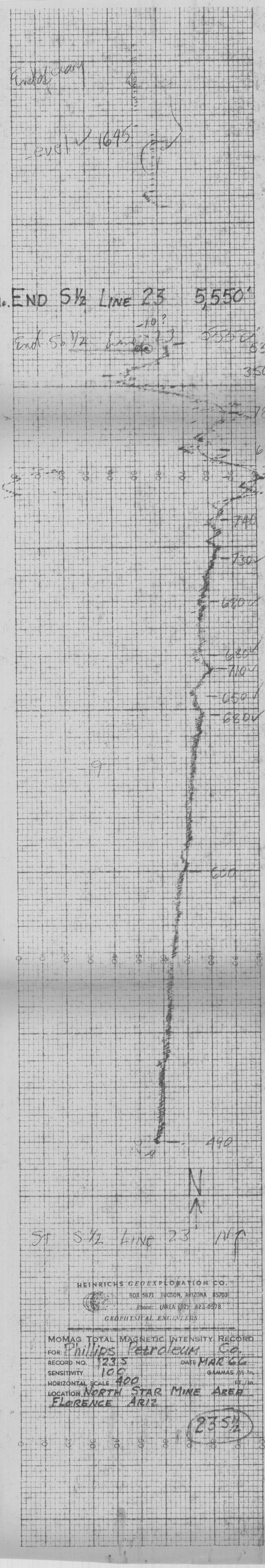


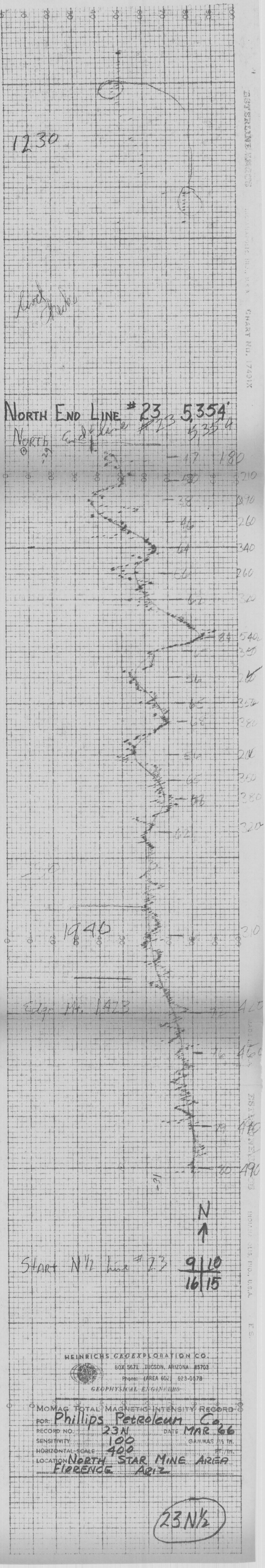
Reduce to 1" = 500'
& Plot on Total Intensity
Contour Map.

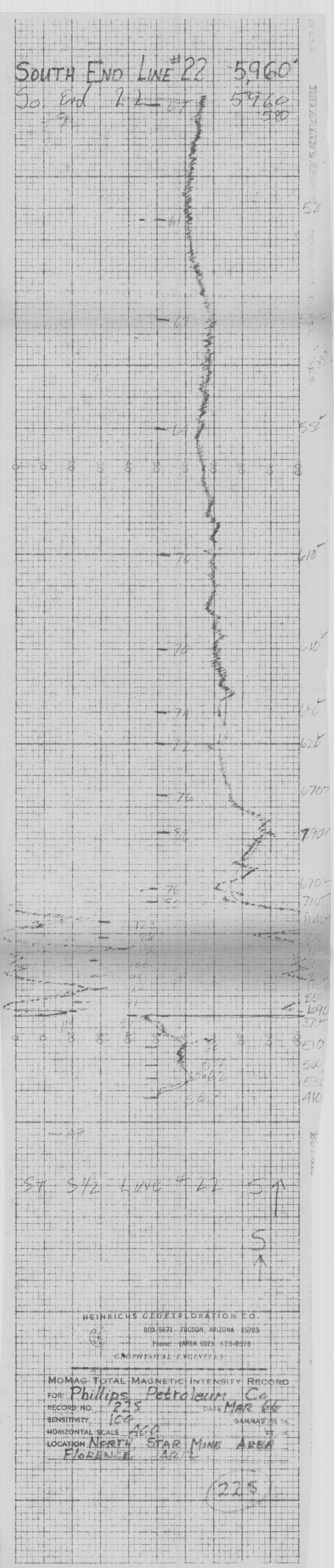
LINE #5 FILL IN OVER MOUNTAIN
(LOOKING EAST)

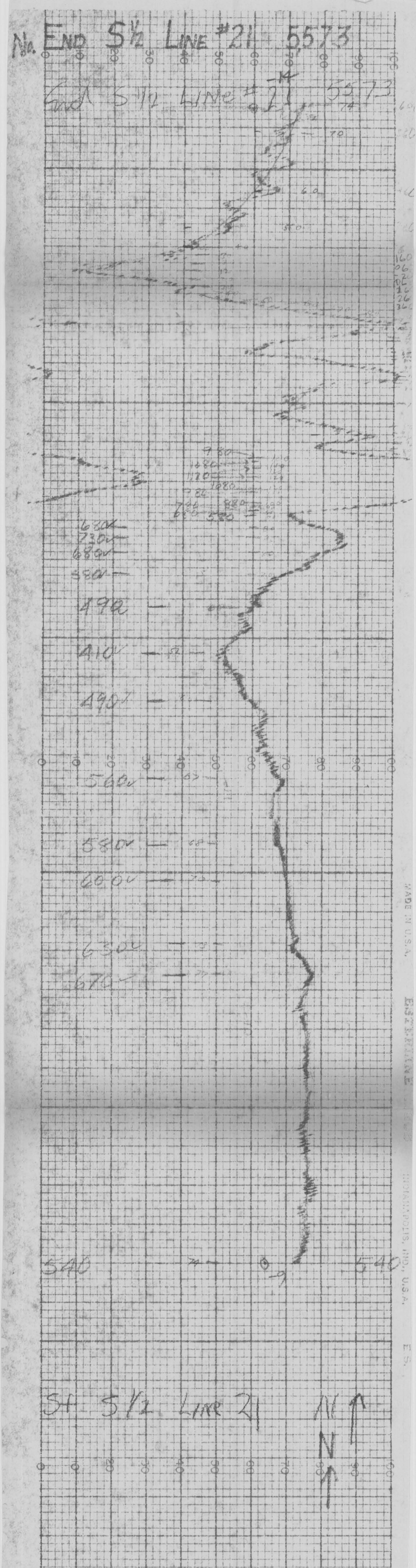





Level 1645
No. END S½ LINE 23 5,550'
End So ½ Line 23
530
350
780
670
930
740
730
680
680
710
650
680
600
490
N
St S½ Line 23 N
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 23 S
DATE MAR 66
SENSITIVITY 100
GAMMAS /½-in.
HORIZONTAL SCALE 400
FT./in.
LOCATION NORTH STAR MINE AREA
FLORENCE ARIZ
23 S½
ESTERLINE-ANGUS
INDIANAPOLIS, IND., U.S.A.
CHART NO. 17491X


NORTH END LINE #23 5,354'
1230
1940
Edge Ht. 1423
Start N½ line #23
9 | 10
16 | 15
N
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 23N
DATE MAR 66
SENSITIVITY 100
GAMMAS /½ IN.
HORIZONTAL SCALE 400
FT./IN.
LOCATION NORTH STAR MINE AREA
FLORENCE ARIZ
23N½


SOUTH END LINE #22 5,960'
So. End 22 5960
50
ST S1/2 LINE #22 S↑
S↑
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 225
DATE Mar 66
SENSITIVITY 100
GAMMAS
HORIZONTAL SCALE 400
FT. in.
LOCATION NORTH STAR MINE AREA
Florence Ariz.
225



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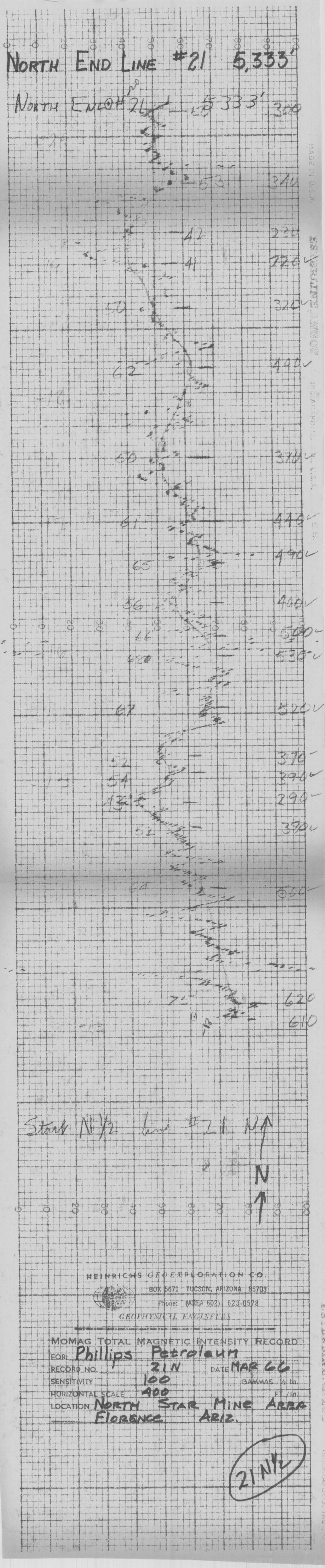
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.
RECORD NO. 225 DATE MAR 66
SENSITIVITY 100 GAMMAS 1½ in.
HORIZONTAL SCALE 400 FT./in.
LOCATION NORTH STAR AREA
FLORENCE, ARIZ.

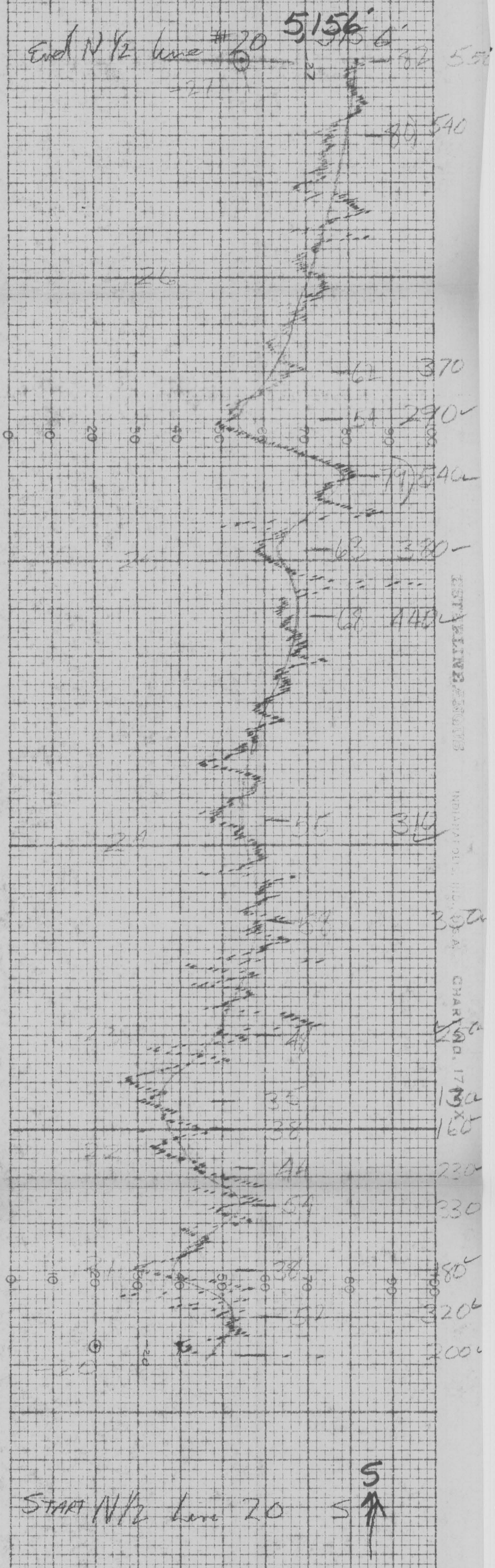
21 S½

MADE IN U.S.A. ESTERBROOK INDIANAPOLIS, IND., U.S.A.


NORTH END LINE #21 5,333'
NORTH END #21 5333'
Start N½ Line #21 N
N
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum
RECORD NO. 21N DATE MAR 66
SENSITIVITY 100 GAMMAS ½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE ARIZ.
21 N½

SOUTH END LINE #20 5,530'
S. End #20 5530
S
S+ S½ LINE #20 S↑
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 20 S
DATE MAR 66
SENSITIVITY 100
GAMMAS ½ in.
HORIZONTAL SCALE 400
FT. in.
LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ
20 S½
CHART NO. 17491X
MADE IN U.S.A.

SOUTH END, NORTH ½ LINE # 20



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BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

RECORD NO. 20 N DATE MAR 66

SENSITIVITY 100 GAMMAS 1/4 In.

HORIZONTAL SCALE 400 FT./In.

LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ.

20 N½

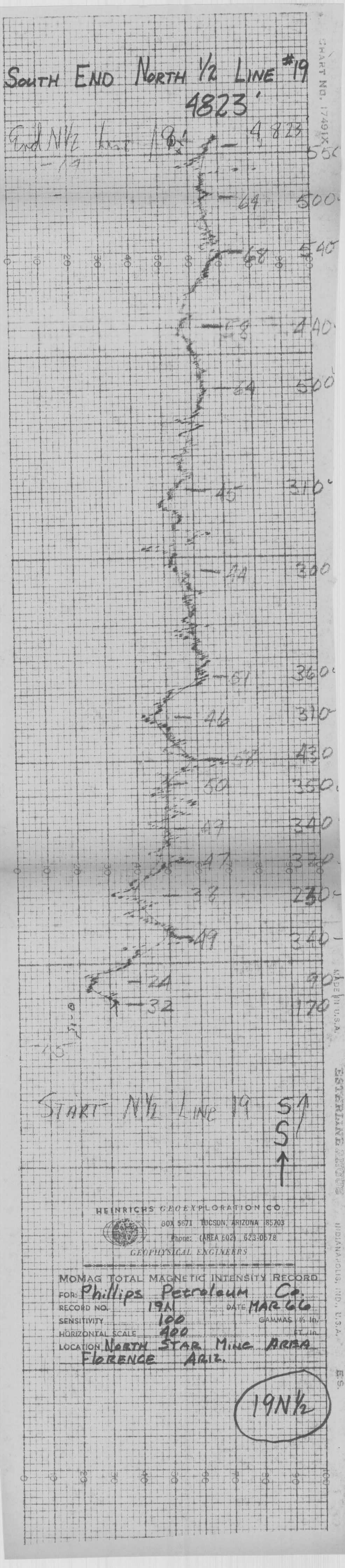
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

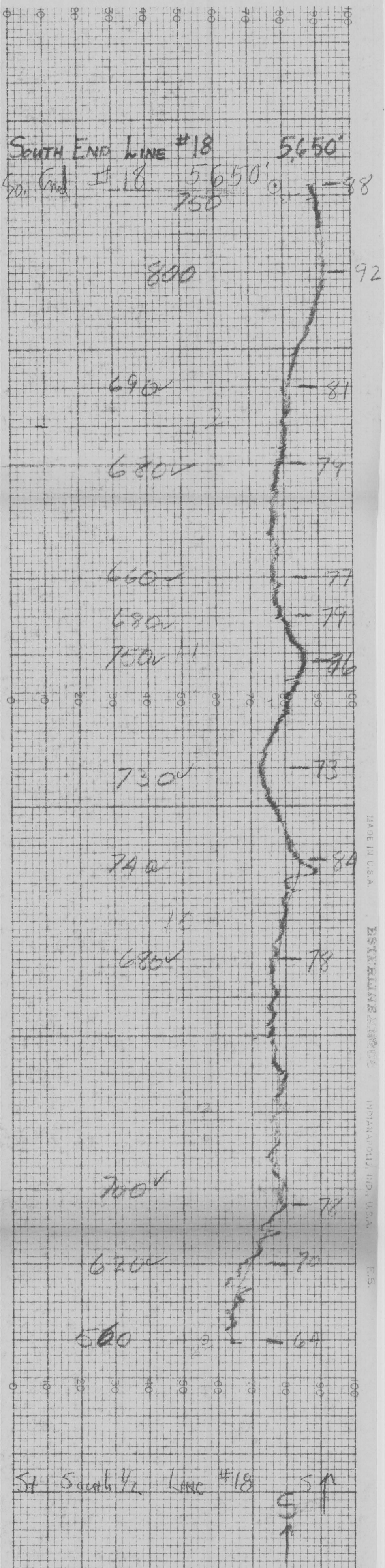
MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.
RECORD NO. 195 DATE MAR 64
SENSITIVITY 100 GAMMAS 1/4 in.
HORIZONTAL SCALE 400 FT./in.
LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ.

195½

ESTERLINE-ANGUS INDIANAPOLIS, IND., U.S.A. E 3
ESTERLINE-ANGUS INDIANAPOLIS, IND., U.S.A. CHART NO. 17401X


SOUTH END NORTH 1/2 LINE #19
4823'
End N1/2 line 19
4,823
550
64
500
68
540
58
440
64
500
45
310
44
300
51
360
46
310
58
430
50
350
49
340
47
320
38
230
49
340
24
90
32
170
START N1/2 LINE 19
S
S
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 19N
DATE MAR 66
SENSITIVITY 100 GAMMAS/1/2 In.
HORIZONTAL SCALE 400 FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE ARIZ.
19N1/2
CHART NO. 17491X
MADE IN U.S.A.
ESTERLINE ANGUS
INDIANAPOLIS, IND., U.S.A.
E.S.



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BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

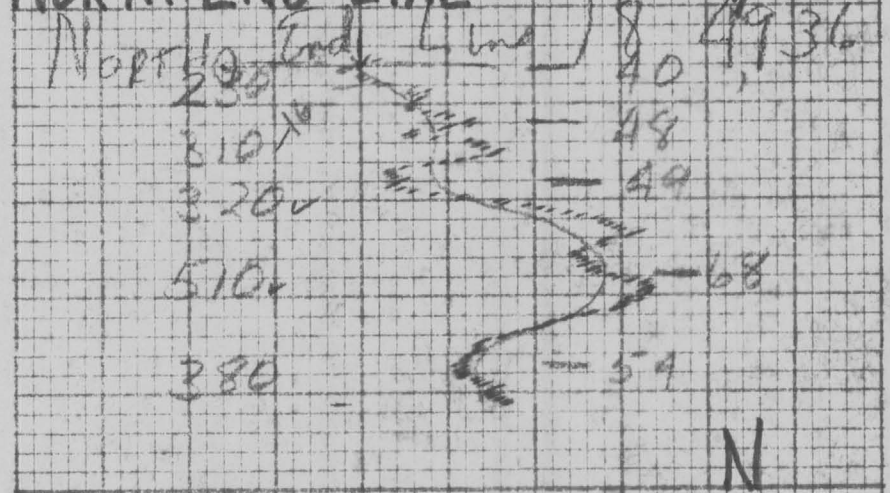
MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.
RECORD NO. 18 S DATE Mar 64
SENSITIVITY 100 GAMMAS ½ in.
HORIZONTAL SCALE 400 ft./in.
LOCATION North Star Mine Area
Florence Ariz.

18 S½

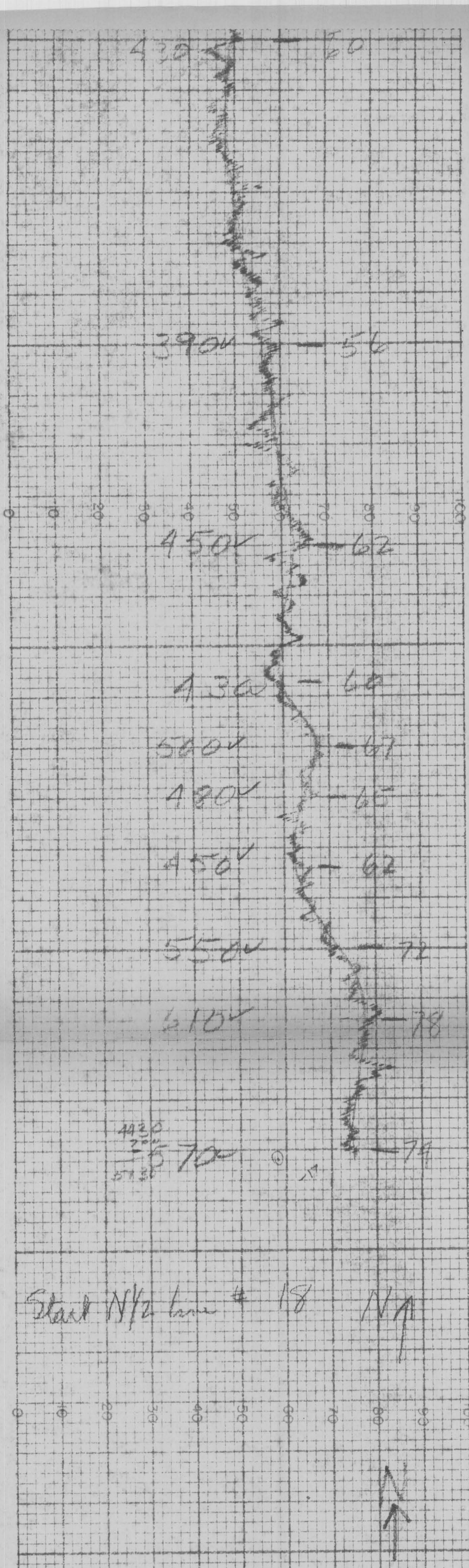
MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A.

NORTH END LINE #18 4936



CONTINUATION LINE #18 N½

CONTINUATION N½ #18 N



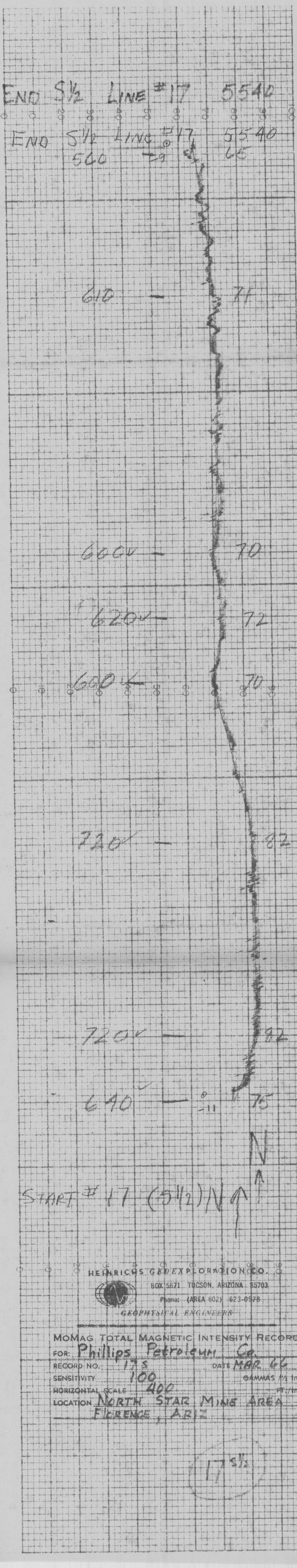
Start N½ line # 18 N

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MoMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 18 DATE
SENSITIVITY 100 GAMMAS /½ in.
HORIZONTAL SCALE 400 FT./in.
LOCATION NORTH STAR MINE AREA
FLORENCE ARIZONA

18 N½

ESTERLINE ANGUS INDIANAPOLIS, IND. CHART NO. 17491X


No. END 5½ LINE #17 5540
END 5½ LINE #17 5540
560 79 65
610 71
600v 70
620v 72
600v 70
720v 82
720v 82
640 75
N
START #17 (5½) N
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0978
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 17 S
DATE MAR 66
SENSITIVITY 100
GAMMAS 1½ In.
HORIZONTAL SCALE 400
FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ
17 5½

So. END N½ LINE #17 5019'

End N½ Line 17 5019

HEINRICHS GEOEXPLORATION CO.

BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MoMag TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

RECORD NO. 17 DATE MAR 66

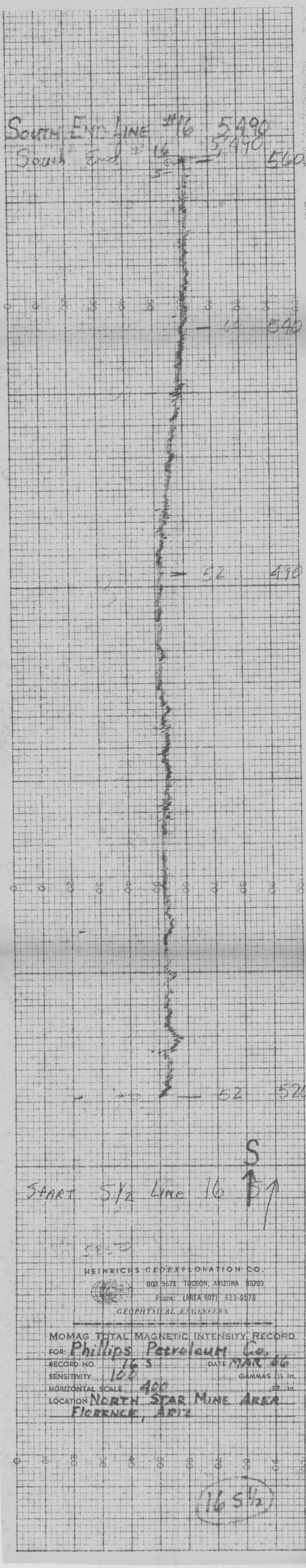
SENSITIVITY 100 GAMMAS /½ in.

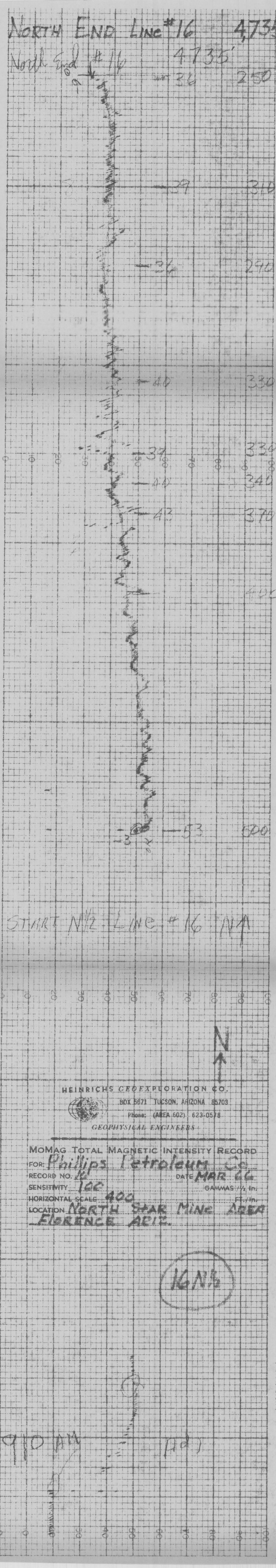
HORIZONTAL SCALE 400 FT./in.

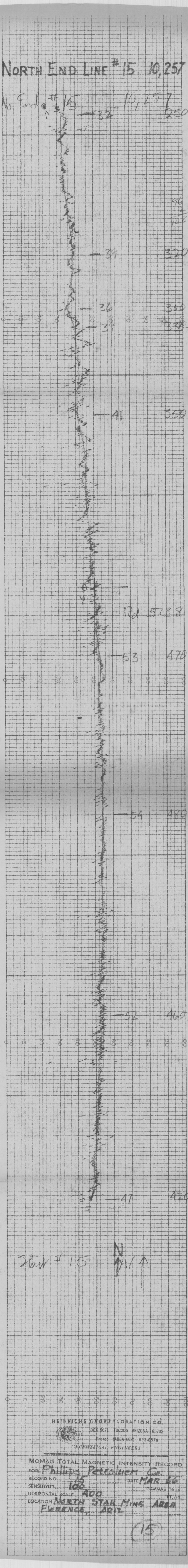
LOCATION NORTH STAR MINE AREA FLORENCE ARIZONA

17N½

MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND. U.S.A. E.S.

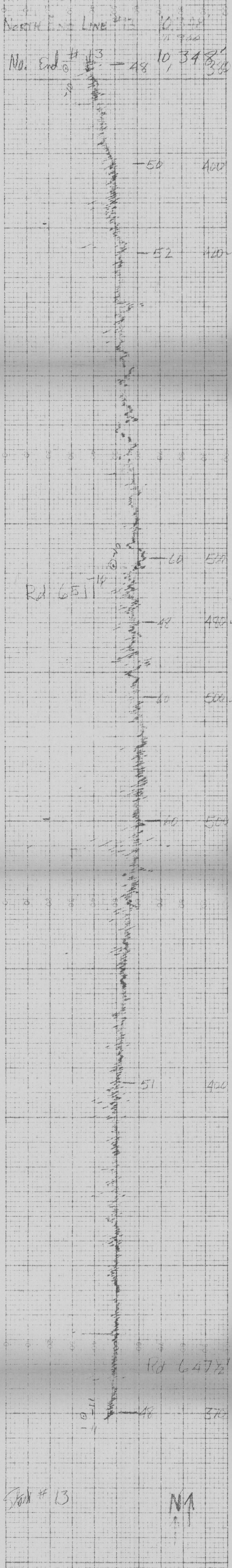

South End Line #16 5490
South End #16
5490
560
540
490
520
Start S½ Line 16
S
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 16 S
DATE MAR 46
SENSITIVITY 100
GAMMAS /½ In.
HORIZONTAL SCALE 400
FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ
16 S½


NORTH END LINE #16 4,735'
North End #16
4735'
250
310
290
330
330
340
370
400
420
START N½ LINE #16 N1
N
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 12
DATE MAR 66
SENSITIVITY 100
GAMMAS /½ In.
HORIZONTAL SCALE 400
FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE ARIZ.
16N1
910 AM
(Ad)



MADE IN U.S.A. ESTERLINE ANGUS INDIANAPOLIS, IND., U.S.A. E.S. CHART NO. 17491X

South End #14 10,278
360
Rd 9815
380
480
1230
1150
Level
Rd 4524
420
400
420
310
240
34
240
Start #14
S
S
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 628-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 14
SENSITIVITY 100
HORIZONTAL SCALE
LOCATION North Star Mine Area
Florence, Ariz.
14



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BOX 5671 TUCSON, ARIZONA 85703

Phone: (AREA 602) 623-0578

GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co

RECORD NO. 13 DATE MAR 66

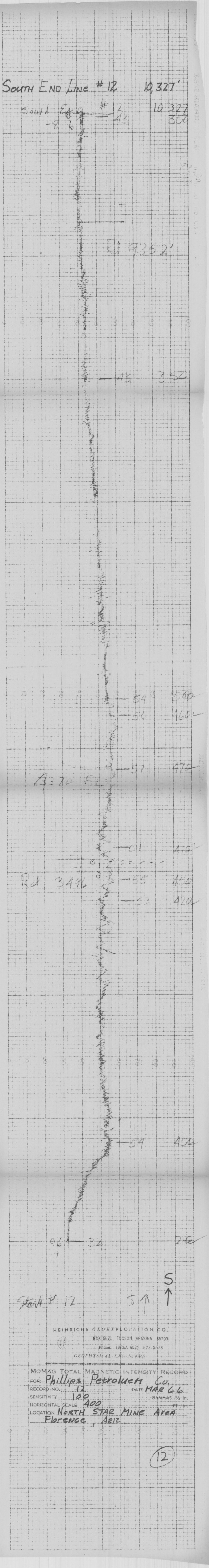
SENSITIVITY 100 GAMMAS /¼ In.

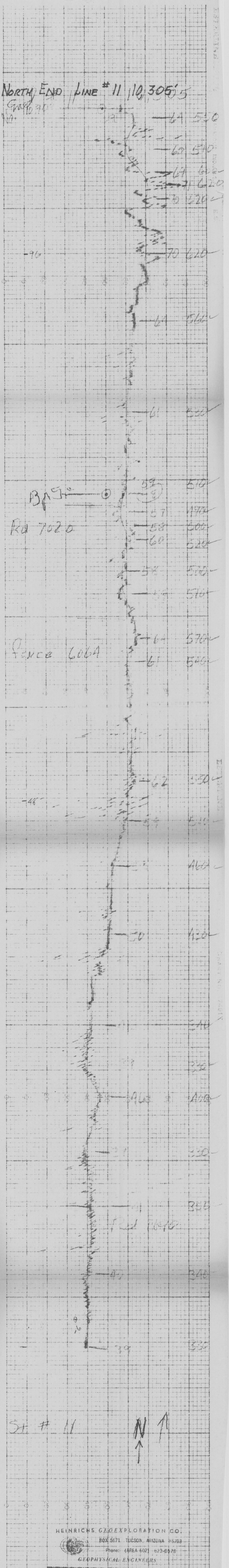
HORIZONTAL SCALE 400 FT./In.

LOCATION NORTH STAR MINE Area

FLORENCE, ARIZ.

13


SOUTH END LINE #12 10,327'
Rd 9352'
Rd 3476
S
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 12 DATE MAR 66
SENSITIVITY 100 GAMMAS /½ In.
HORIZONTAL SCALE 400 Ft./In.
LOCATION NORTH STAR MINE AREA
Florence, Ariz
12



HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

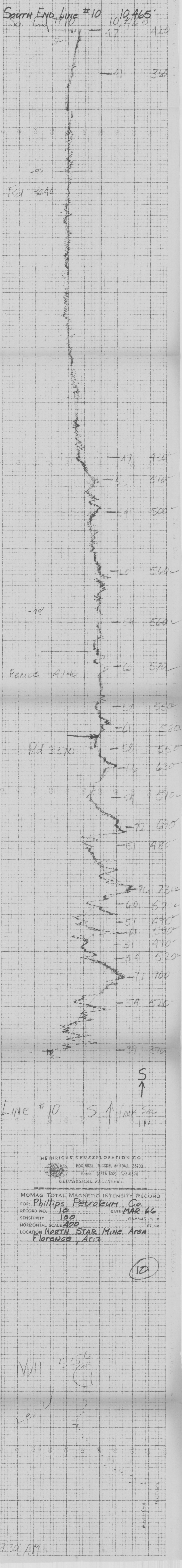
RECORD NO. 11 DATE MAR 66

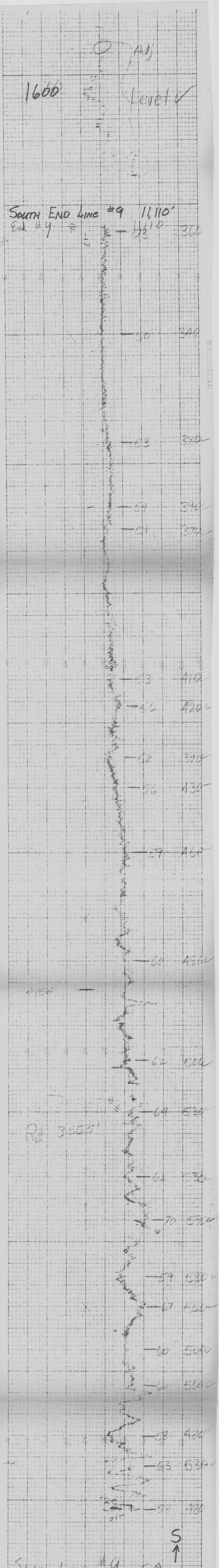
SENSITIVITY 100 GAMMAS 1½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION NORTH STAR MINE Area Florence, Ariz

11


South End Line #10 10,465'
Rd 3370
Line #10 S ↑ from Sec 1/10.
S
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 10
DATE MAR 66
SENSITIVITY 100
GAMMAS / ½ in.
HORIZONTAL SCALE 400
FT. / in.
LOCATION NORTH STAR Mine Area
Florence, Ariz
10

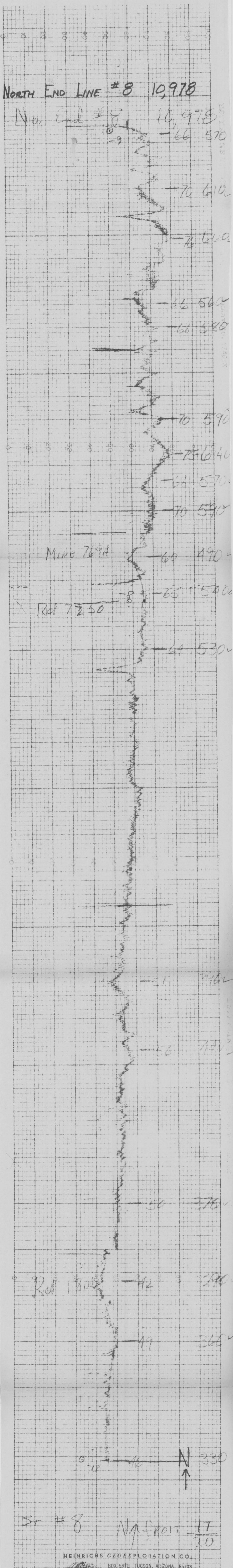


HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.
RECORD NO. 9 DATE MAR 66
SENSITIVITY 100 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION NORTH STAR MINE Area
Florence, Ariz

9



Sr #8 NAGROT 17/20

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

RECORD NO. 8 DATE MAR 66

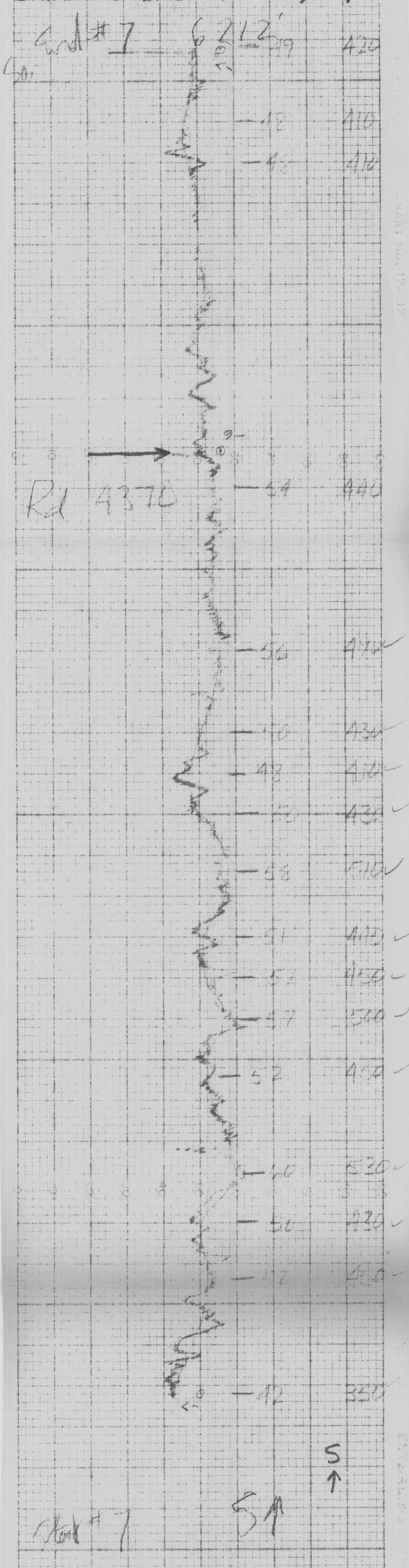
SENSITIVITY 100 GAMMAS/½ in.

HORIZONTAL SCALE 400 FT./in.

LOCATION NORTH STAR MINE AREA FLORENCE, ARIZ

8

SOUTH END LINE #7 6,212'



HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

RECORD NO. 7 DATE MAR 66

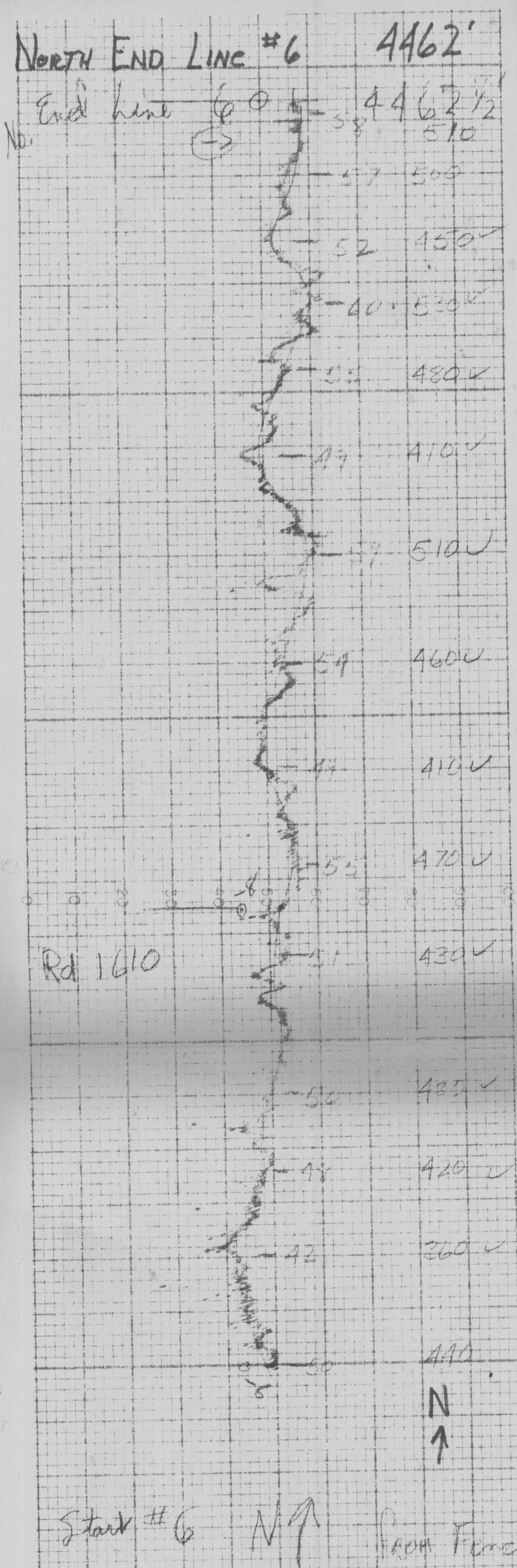
SENSITIVITY 100 GAMMAS 1½ in.

HORIZONTAL SCALE 400 FT./in.

LOCATION NORTH STAR MINE AREA
Florence Ariz.

7

NORTH END LINE #6 4462'



HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0573
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

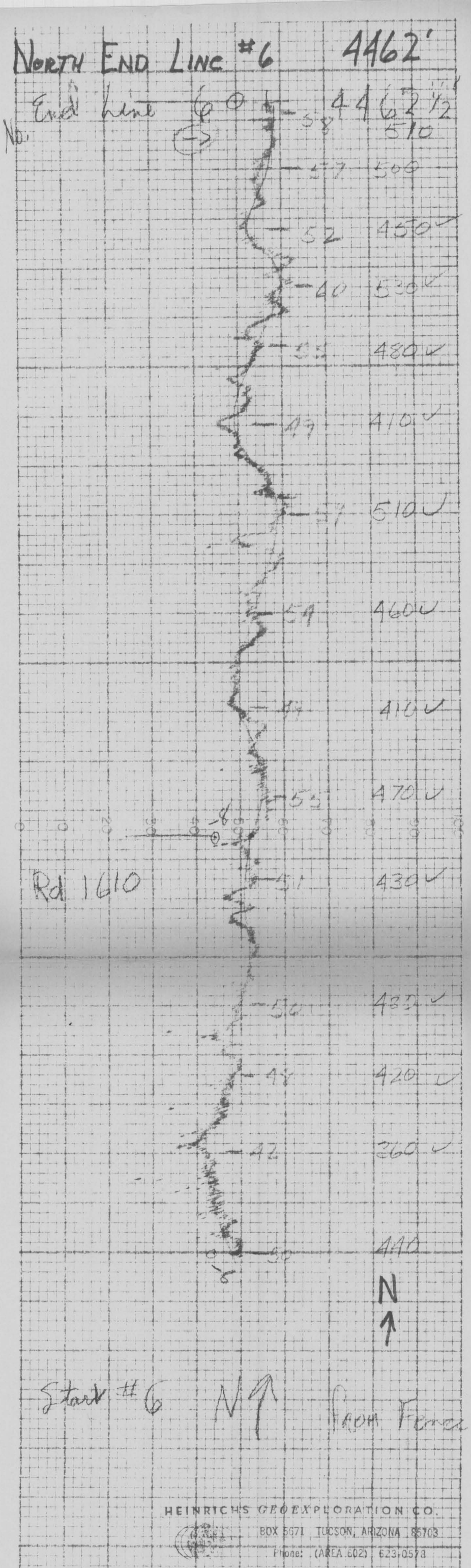
FOR: Phillips Petroleum Co.

RECORD NO. 6 DATE MAR 66

SENSITIVITY 100 GAMMAS ½ In.

HORIZONTAL SCALE 400 1 In.

LOCATION NORTH STAR MINE AREA
Florence ARIZ



HEINRICH'S GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

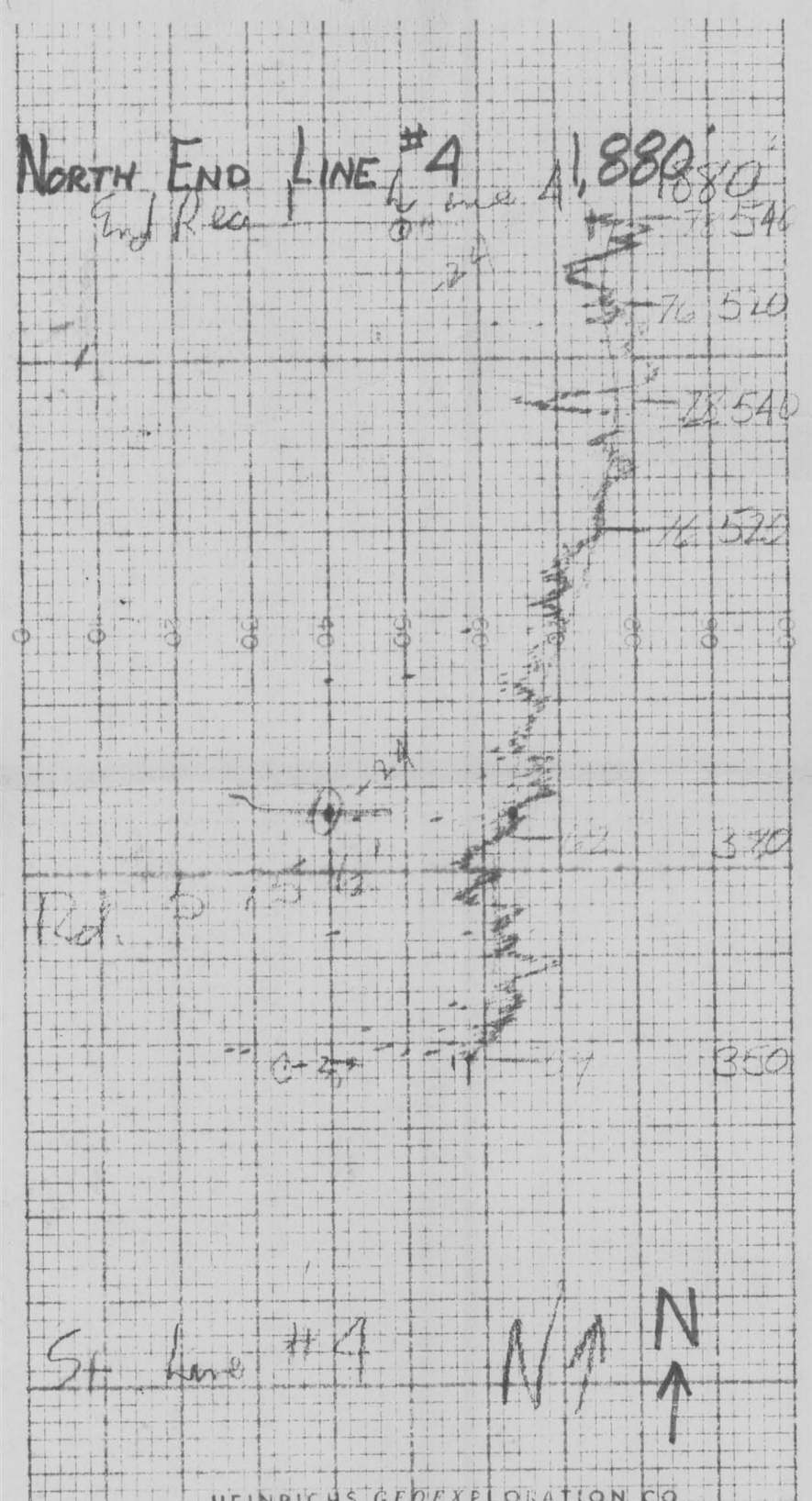
RECORD NO. 6 DATE MAR 66

SENSITIVITY 100 GAMMAS - ½ In.

HORIZONTAL SCALE 400 Ft./In.

LOCATION NORTH STAR MINE AREA
Florence ARIZ

South End Line #5 1,055'
End Line #5 1055'
370
320
400
380
390
Cont Line 5 S
Hand Mag
Adj 10x RZ 566
South End Part 1 Line #5 2585'
End Rec #1 Line 5 2585'
280
300
470
430
Pd 1835'
420
430
460
Cont #5 South
S
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 5
DATE MAR 66
SENSITIVITY 100
GAMMAS ½ in.
HORIZONTAL SCALE 400
FT./in.
LOCATION North Star Mine Area
Florence Ariz.
5



HEINRICHS GEOEXPLORATION CO.
BOX 15671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

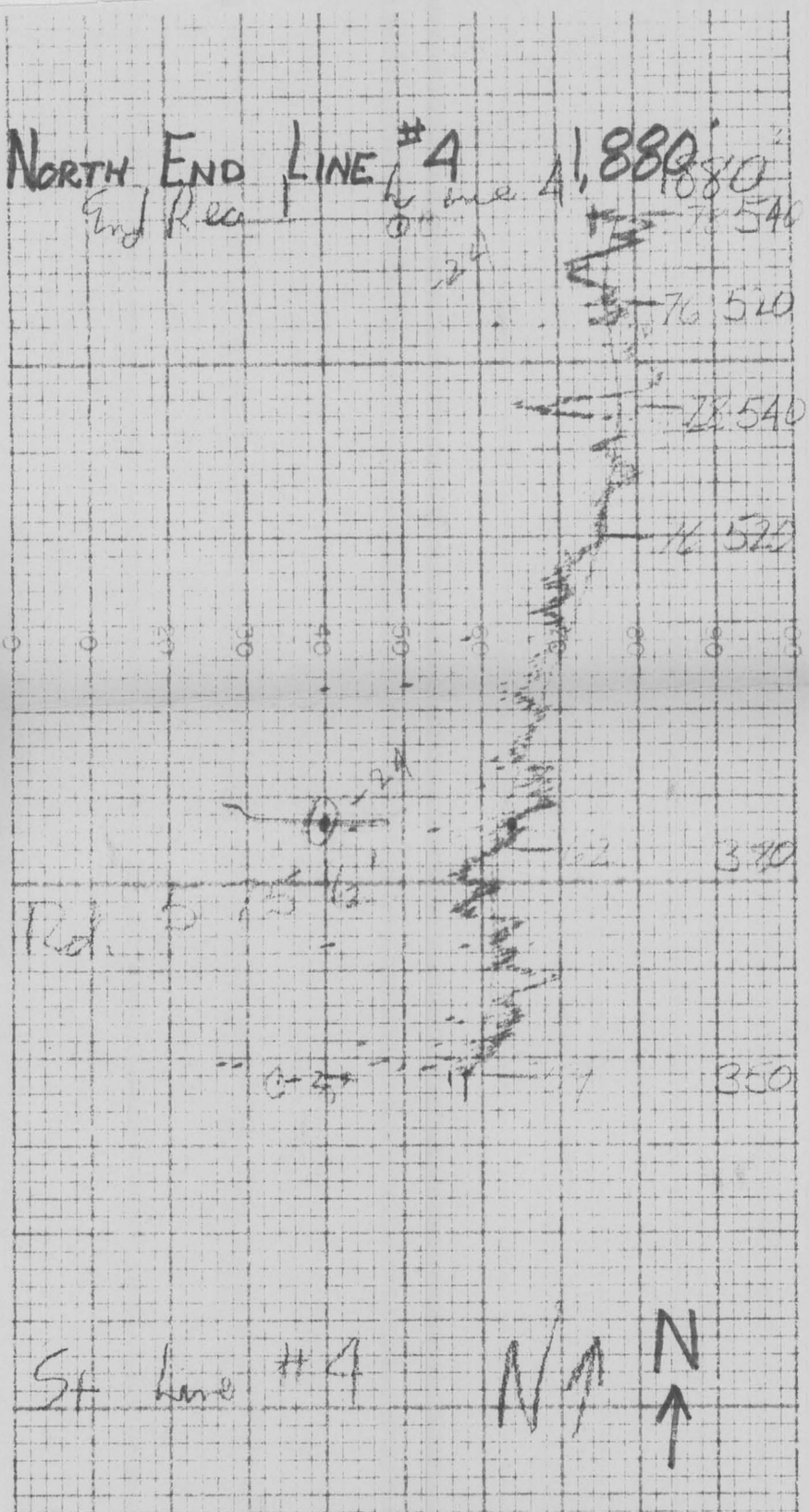
RECORD NO. 4 DATE MAR 66

SENSITIVITY 100 GAMMAS/½ In.

HORIZONTAL SCALE 400 FT./In.

LOCATION North Star Mine Area
Florence, Ariz.

4



HEINRICHS GEOEXPLORATION CO.
BOX 15671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

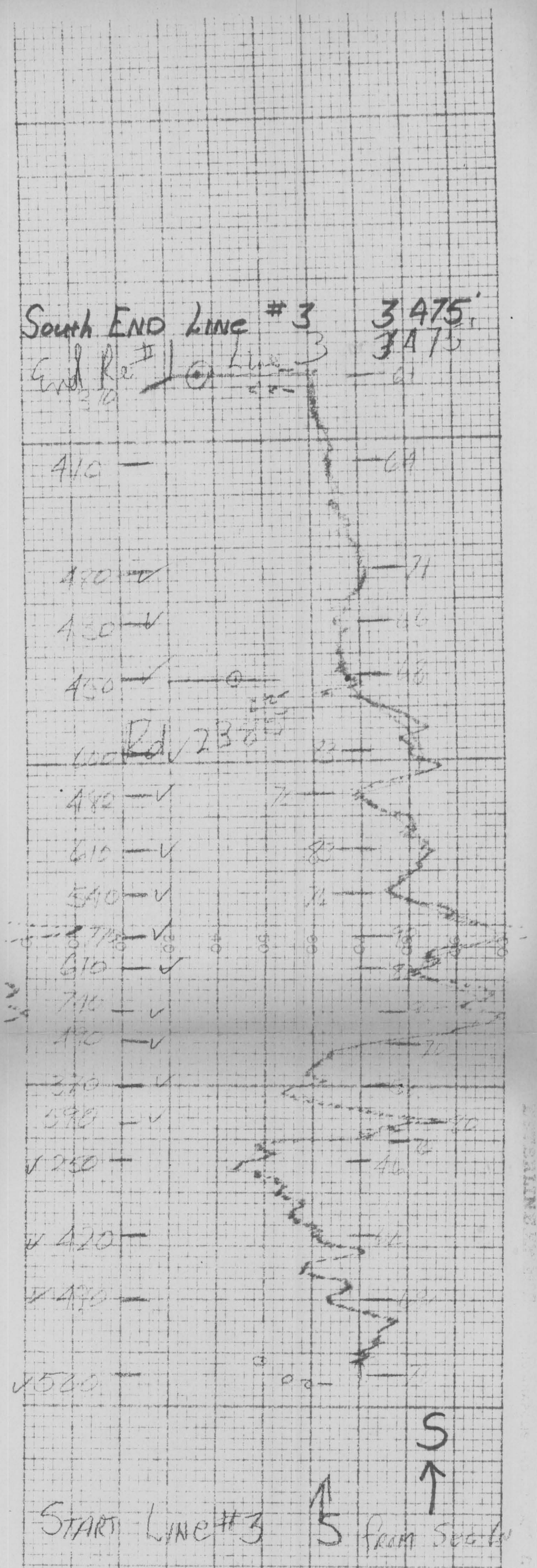
RECORD NO. 4 DATE MAR 66

SENSITIVITY 100 GAMMAS/½ in.

HORIZONTAL SCALE 400 FT./in.

LOCATION North Star Mine Area
Florence, Ariz.

4



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BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MoMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 3 DATE MAR 66
SENSITIVITY 100 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ.

3

NORTH END LINE #2 2,645'

End Rec 1 Line #2 2645'

690 — 82

690 — 82

650 — 77

710 — 83

630 — 75

750 — 87

550 — 67

600 — 72

880 — 93

Rd 825

490 — 58

500 — 57

460 — 55

N

START Line #2 North Prom Mine Dump

HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: Phillips Petroleum Co.

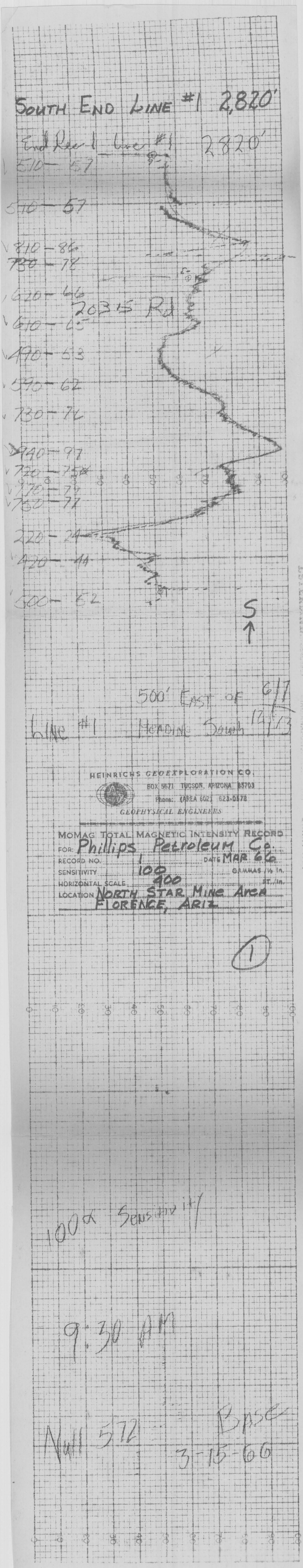
RECORD NO. 2 DATE MAR 66

SENSITIVITY 100 GAMMAS /½ In.

HORIZONTAL SCALE 400 FT./In.

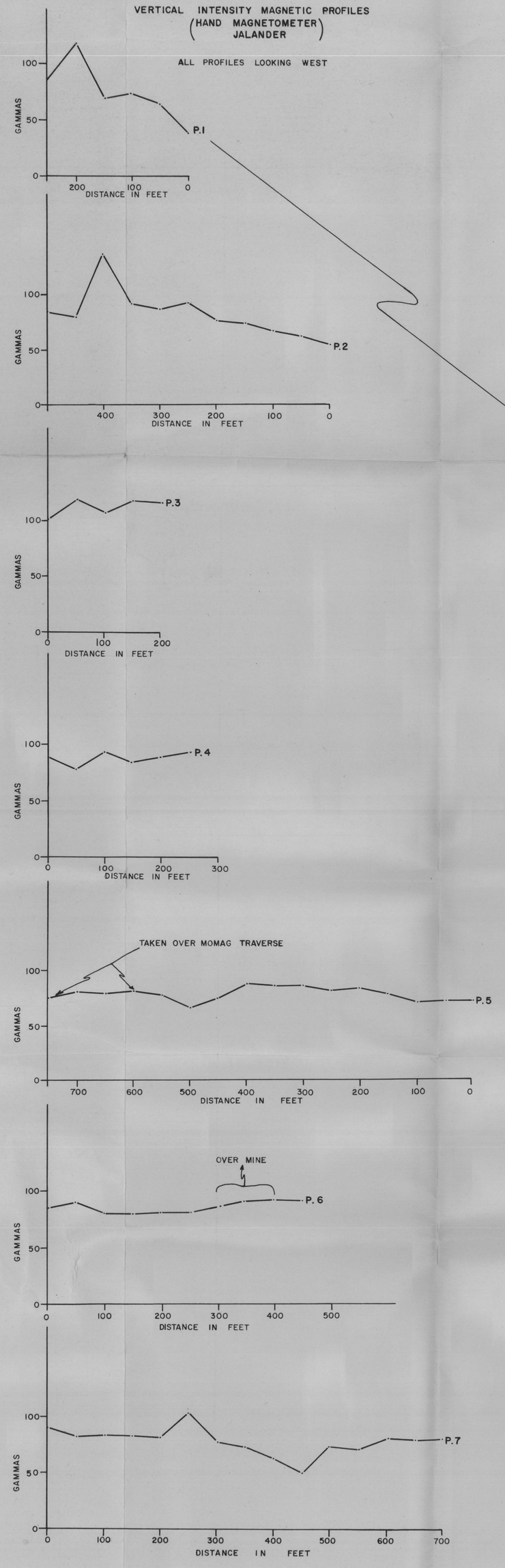
LOCATION NORTH STAR MINE Area Florence, Ariz

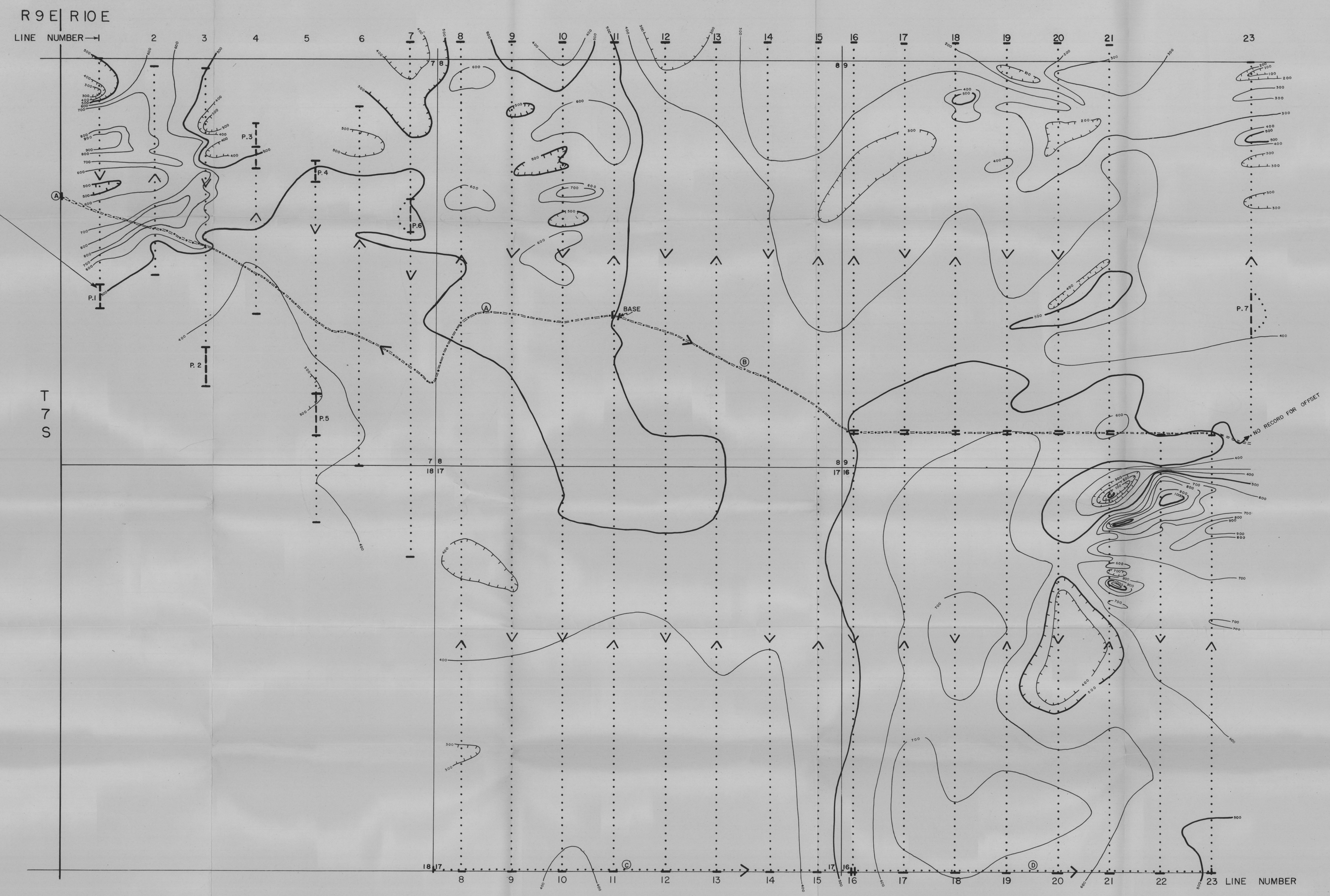
2


South End Line #1 2,820'
End Rec 1 Line #1 2820'
510 - 57
510 - 57
810 - 86
730 - 72
620 - 46
2035 Rd
610 - 45
490 - 53
590 - 62
730 - 72
940 - 97
720 - 75
770 - 79
750 - 77
220 - 24
420 - 44
500 - 62
S
500' East of
Line #1 Heading South
6/7
12/13
HEINRICHS GEOEXPLORATION CO.
BOX 5671 TUCSON, ARIZONA 85703
Phone: (AREA 602) 623-0578
GEOPHYSICAL ENGINEERS
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Phillips Petroleum Co.
RECORD NO. 1
DATE MAR 66
SENSITIVITY 100 GAMMAS /½ In.
HORIZONTAL SCALE 400 FT./In.
LOCATION NORTH STAR MINE AREA
FLORENCE, ARIZ.
1
100x Sensitivity
9:30 AM
Null 572
Base
3-15-66

VERTICAL INTENSITY MAGNETIC PROFILES
(HAND MAGNETOMETER)
JALANDER

ALL PROFILES LOOKING WEST





NOTE:
ARBITRARY MAGNETIC BASE DATUM 500 γ AT MAGNETOMETER BASE
HORIZONTAL CONTROL FURNISHED BY CLIENT
EXTREME TOPOGRAPHIC COVERAGE BY HAND MAGNETOMETER (VERTICAL INTENSITY) AS SHOWN

INDICATES MOBILE MAGNETOMETER RECORD NO., DIRECTION AND LOCATION

P.2 INDICATES HAND MAGNETOMETER PROFILE NO., AND LOCATION

N

HEINRICHS GEOEXPLORATION COMPANY
P.O. Box 5671 Tucson, Arizona

HAND AND MOBILE MAGNETOMETER SURVEY
FOR
PHILLIPS PETROLEUM COMPANY – MINERALS DIVISION

NORTH STAR MINE AREA
PINAL COUNTY, ARIZONA

SCALE: 1" = 500'	CONTOUR INTERVAL: 100 γ	REVISIONS
	DATA BY:	
DATE: 3/23/66	SHEET OF	
DRAWN BY: TC	DRAWING NO.:	FILE:

GARY HARMON
Phillips
Petroleum Co.
What name project ?
N-S lines 660' apart
Sec. 8,9,10 - 15,16,17
hand mag fill in
MAG BASE
MAG BASE ?
1978-T
1958-T
1998-T
2054
2009-T
71070
71086A
2044
1992-T
1999-T
1947-T
1965-T
1240
1953
1-24
1-24
2000
2100
2200
1900
1960
1980
2020
2019
2000