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James Doyle Sell Mining Collection

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JDS

ASARCO

Southwestern Exploration Division

August 23, 1991

W.D. Gay

Best Fit Claims
Superior East Project
Pinal County, Arizona

I send to you the preliminary Attachment A showing my interpretation of the best fit of claims to cover the available mineral intercepts at Superior East, as noted in Table 1 and the submitted hole deviation plans.

Check my zones and the values, check their placement on the various deviation plan maps of the drill holes, check the conversion to 1" = 500', check the placement of the intercept on the Attachement A at 1" = 500', and check the claim distribution to cover the intercepts.

Any corrections should be brought to my attention as well as any thoughtful changes in the orientation of the claims for better coverage.

James D. Sell

James D. Sell

JDS:mek
Att.

cc: W.L. Kurtz

400' x 1500'
1" = 500' scale

ASARCO

Southwestern Exploration Division

August 23, 1991

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Superior East Project
Pinal County, Arizona

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1 Check my zones and the values, 2 check their placement on the various deviation plan maps of the drill holes, 3 check the conversion to 1" = 500', 4 check the placement of the intercept on the Attachement A at 1" = 500', and 5 check the claim distribution to cover the intercepts.

Any corrections should be brought to my attention as well as any thoughtful changes in the orientation of the claims for better coverage.

James D. Sell

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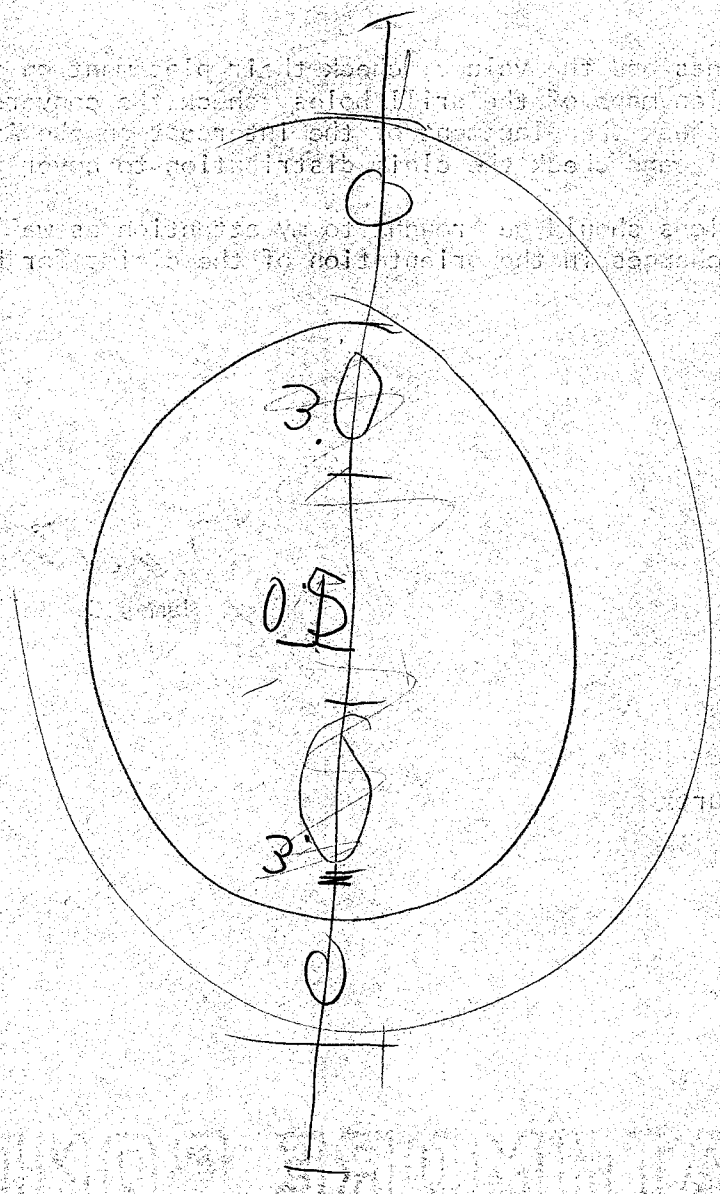
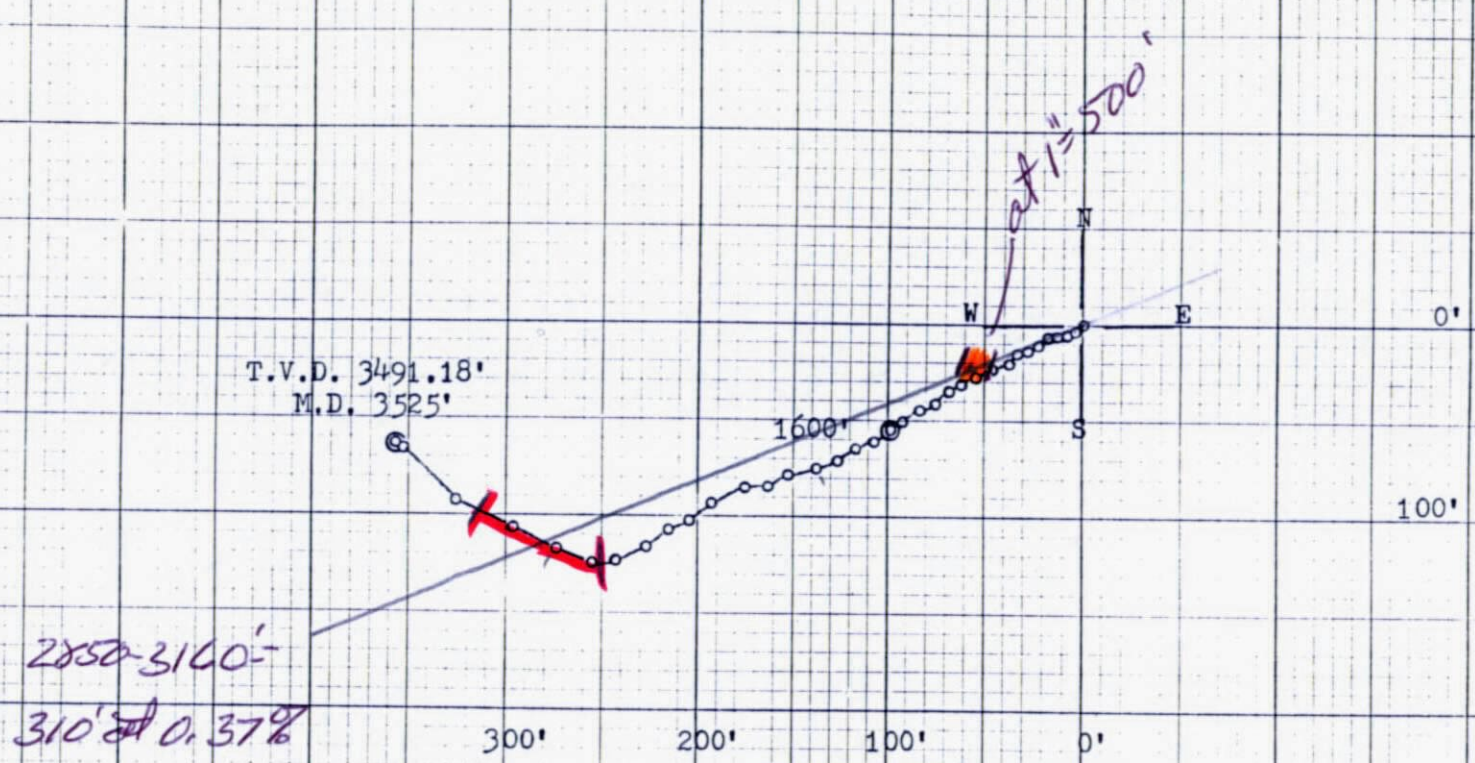
JDS:mek
Att.

cc: W.L. Kurtz

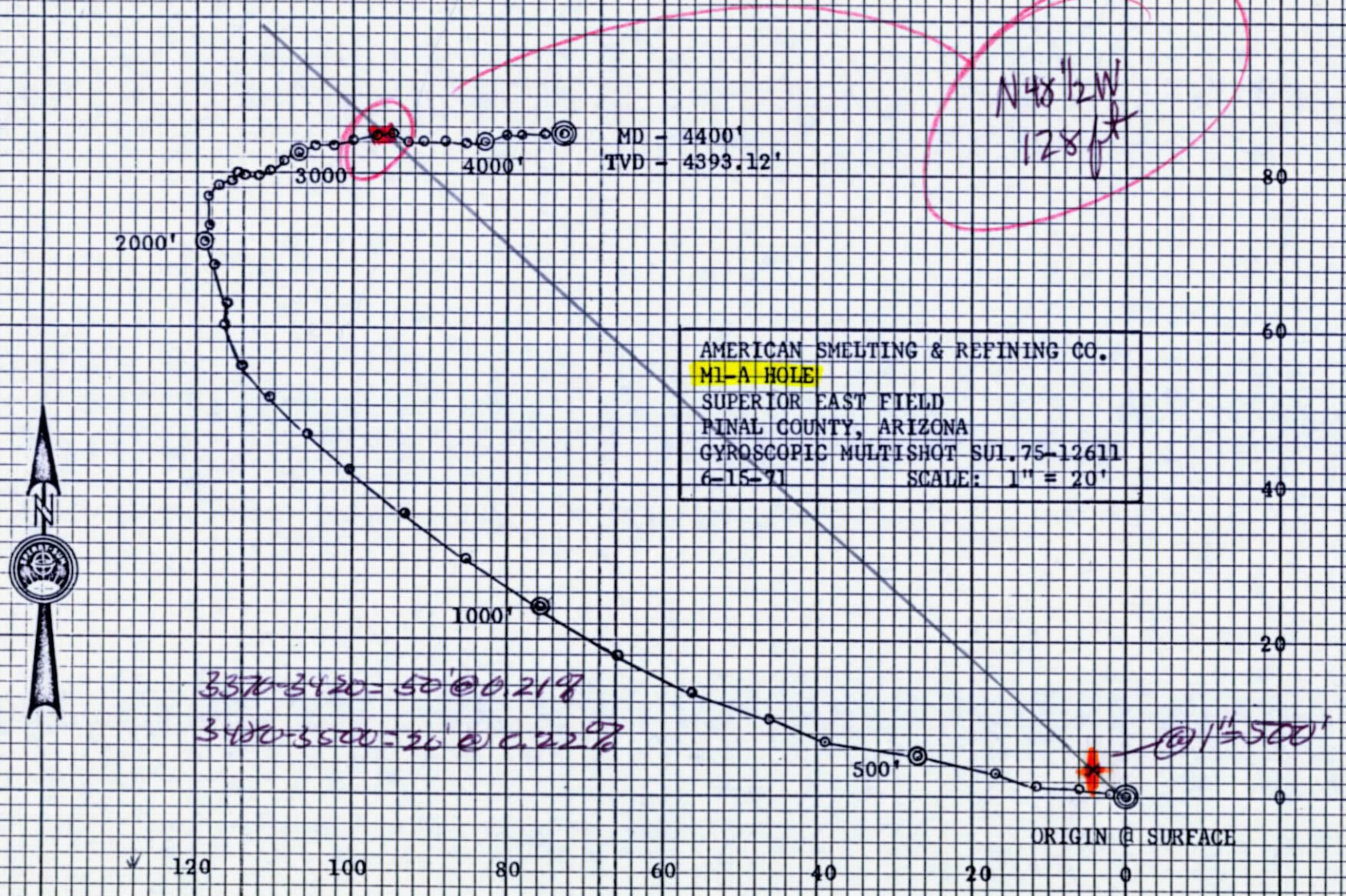

3.0
0.5
3'
0

ASARCO INC.
SUPERIOR RAWHIDE A I 2
PINAL COUNTY, ARIZONA
SCALE 1"= 100' 9-5-80

9-22-80
NPW



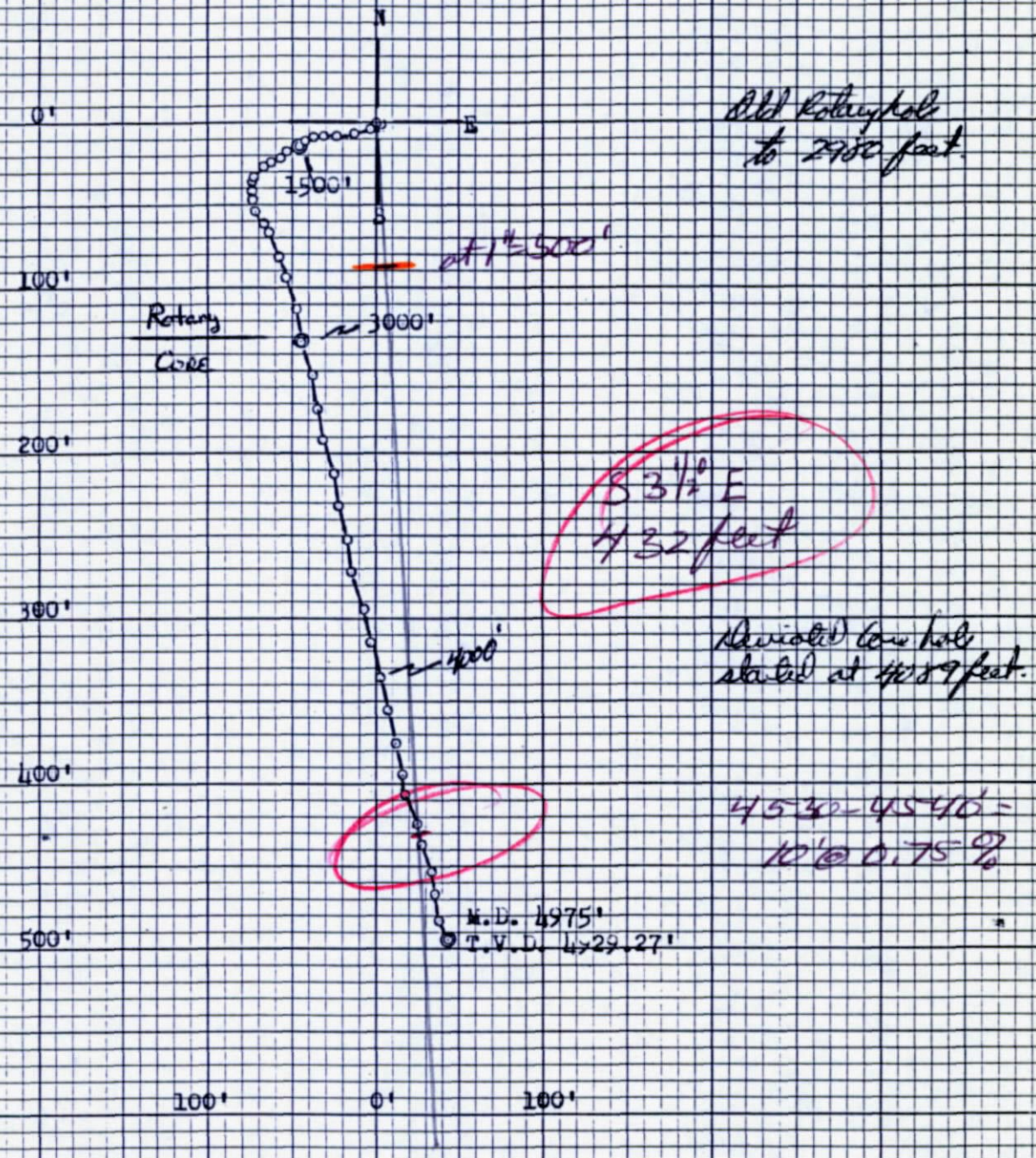
SPERRY - SUN WELL SURVEYING COMPANY
HORIZONTAL PROJECTION

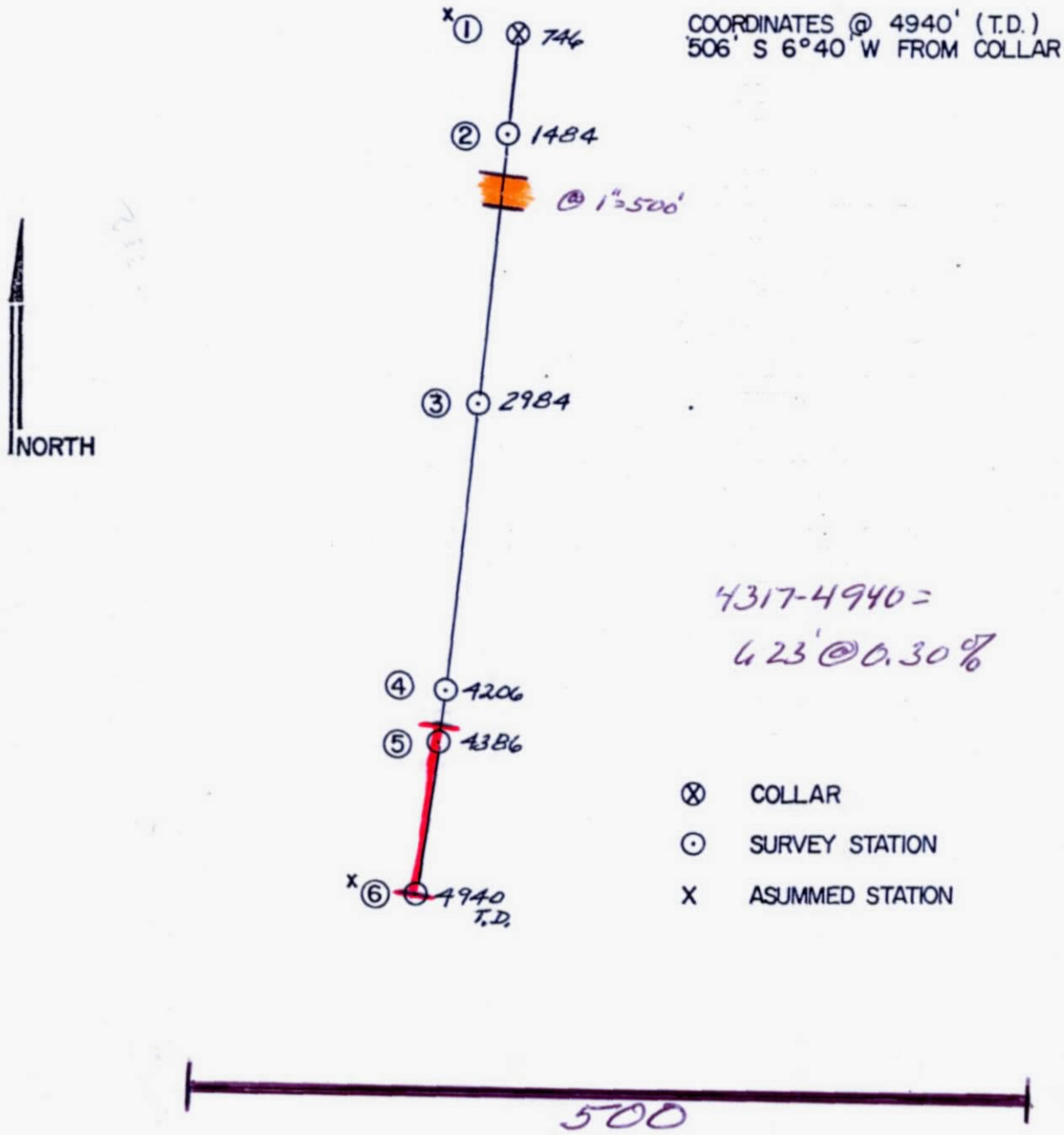


AMERICAN SMELTING & REFINING CO.
M1-A HOLE
SUPERIOR EAST FIELD
PINAL COUNTY, ARIZONA
GYROSCOPIC MULTISHOT SU1.75-12611
6-15-71 SCALE: 1" = 20'

DRAWN BY: [illegible] CHECKED BY: CK

AMERICAN SMELTER & REFINING CO.
SUPERIOR EAST CORE HOLE NO. DGA-3A
GILA COUNTY, ARIZONA
SCALE 1" = 100' 10-12-74



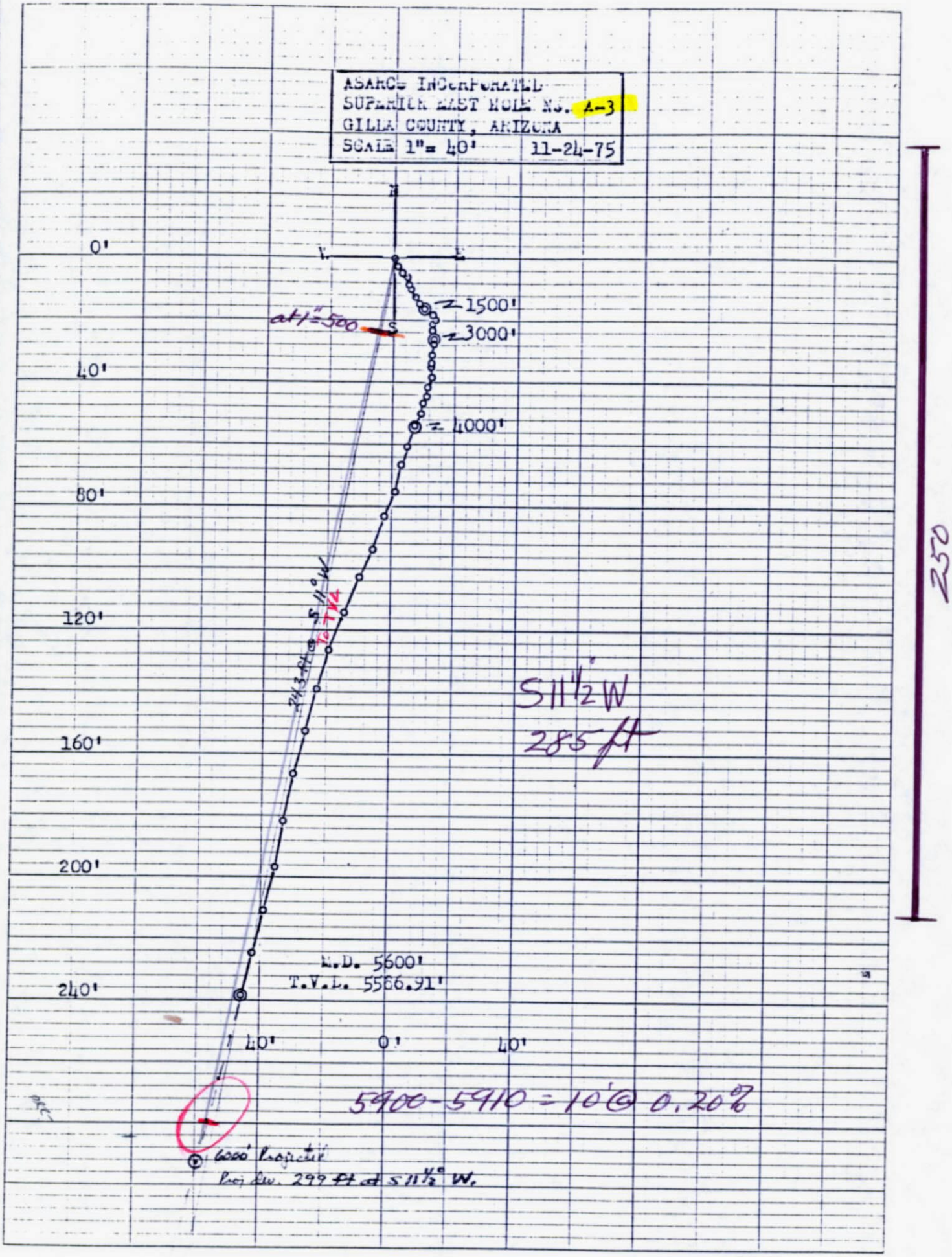


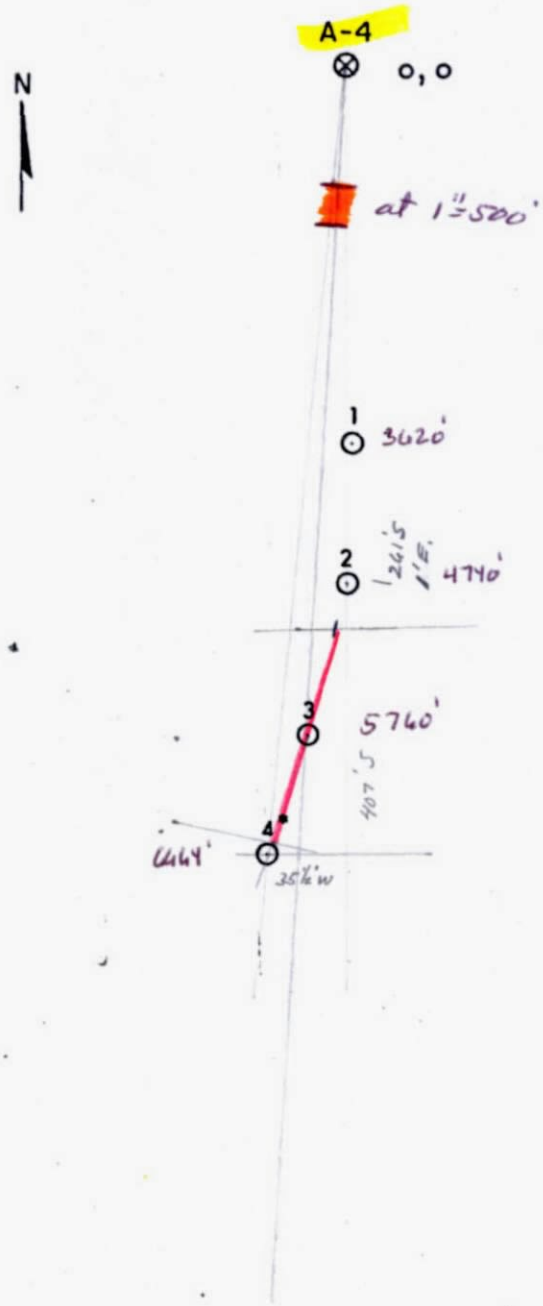
SUPERIOR EAST PROJECT
PLAN VIEW DOWN-HOLE SURVEY STATIONS
HOLE NO. A-2W
SCALE: 1"=100'

MAY 1972

H.L.C.

2551-A
TR


ASARCO INCORPORATED
SUPERIOR EAST HOLE NO. A-3
GILLA COUNTY, ARIZONA
SCALE 1" = 40'
11-24-75
N
W
E
S
0'
40'
80'
120'
160'
200'
240'
1500'
3000'
4000'
at 1" = 500
243 ft @ S 11° W
to TVD
S 11½° W
285 ft
T.D. 5600'
T.V.D. 5566.91'
40'
0'
40'
5900-5910 = 10' @ 0.20%
6000' Projection
Proj. Div. 299 ft @ S 11½° W.
250



COORDINATES @ ~~6500'~~ 6664

~~396ft. 54° 40' W from collar~~

409' S 5° W ~~@ 6664~~ from collar

53° W

from 300' to 400 ft

5080-6580=

1500' @ 0.75%

⊗ Collar

O Survey Station

* Projected Position @ ~~6500'~~ 6464
(reading not taken)

SUPERIOR EAST PROJECT

Plan View down-hole survey stations

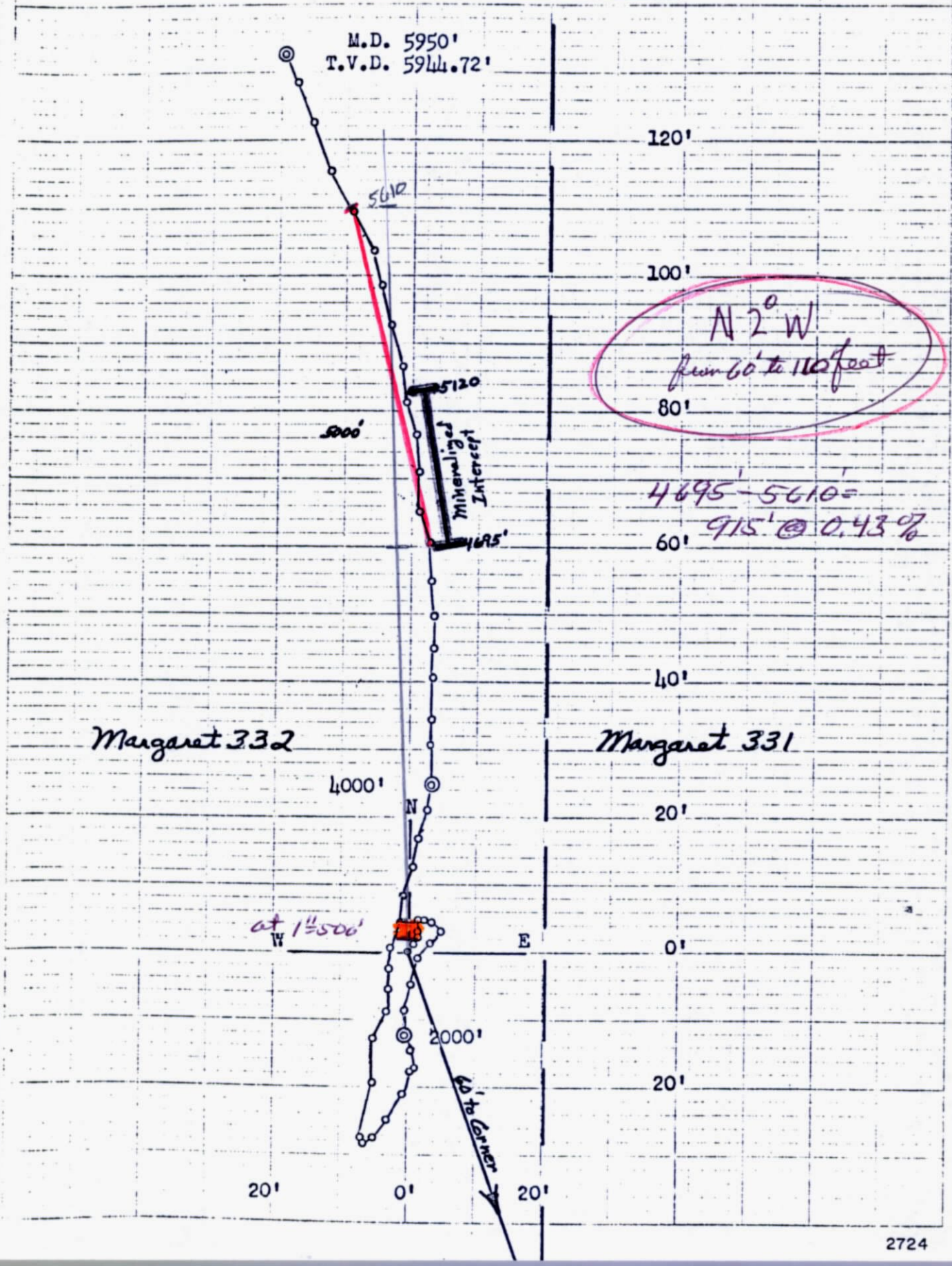
Hole no. A-4

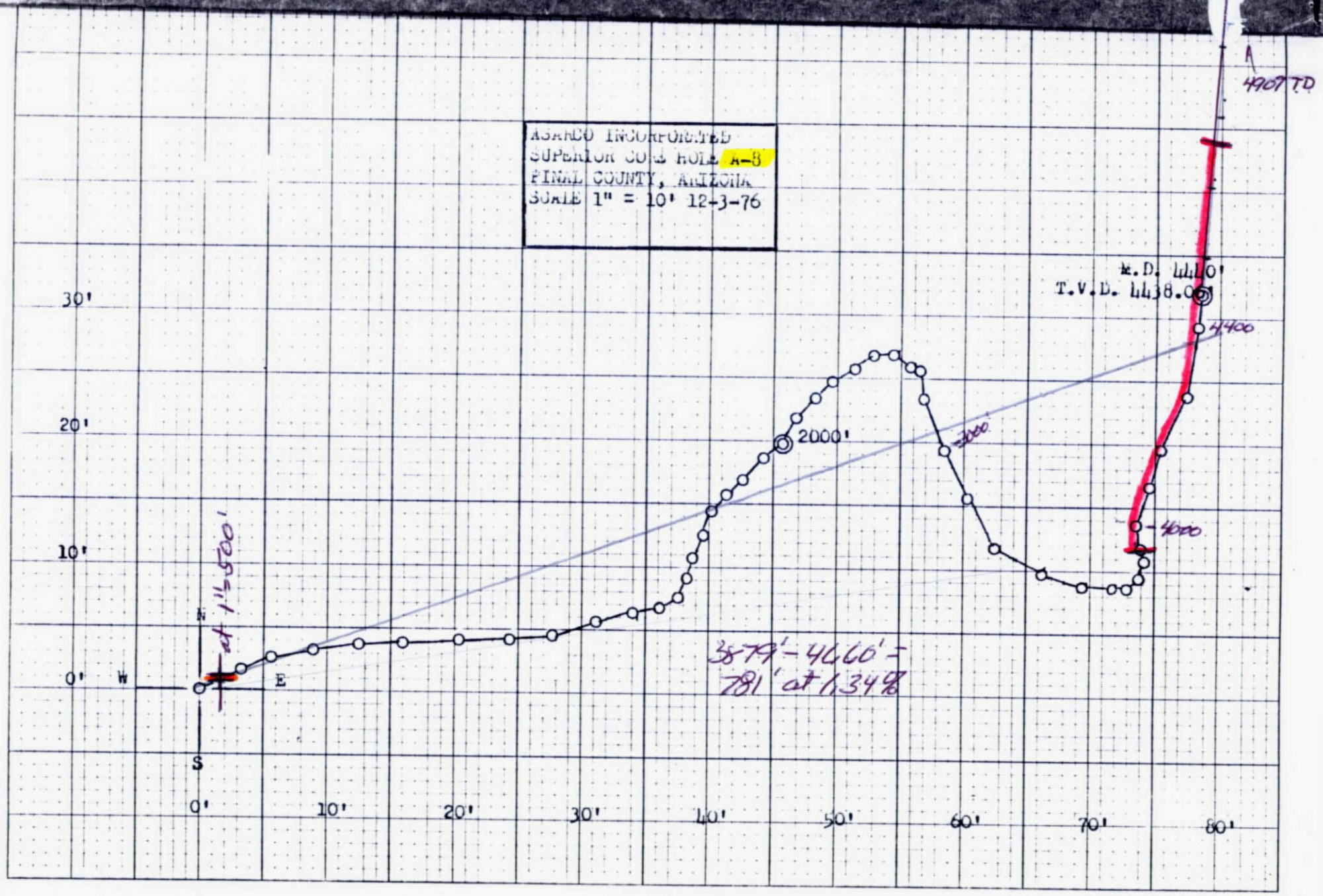
Oct. 1971

H.L.C.

SCALE 1" = 100'

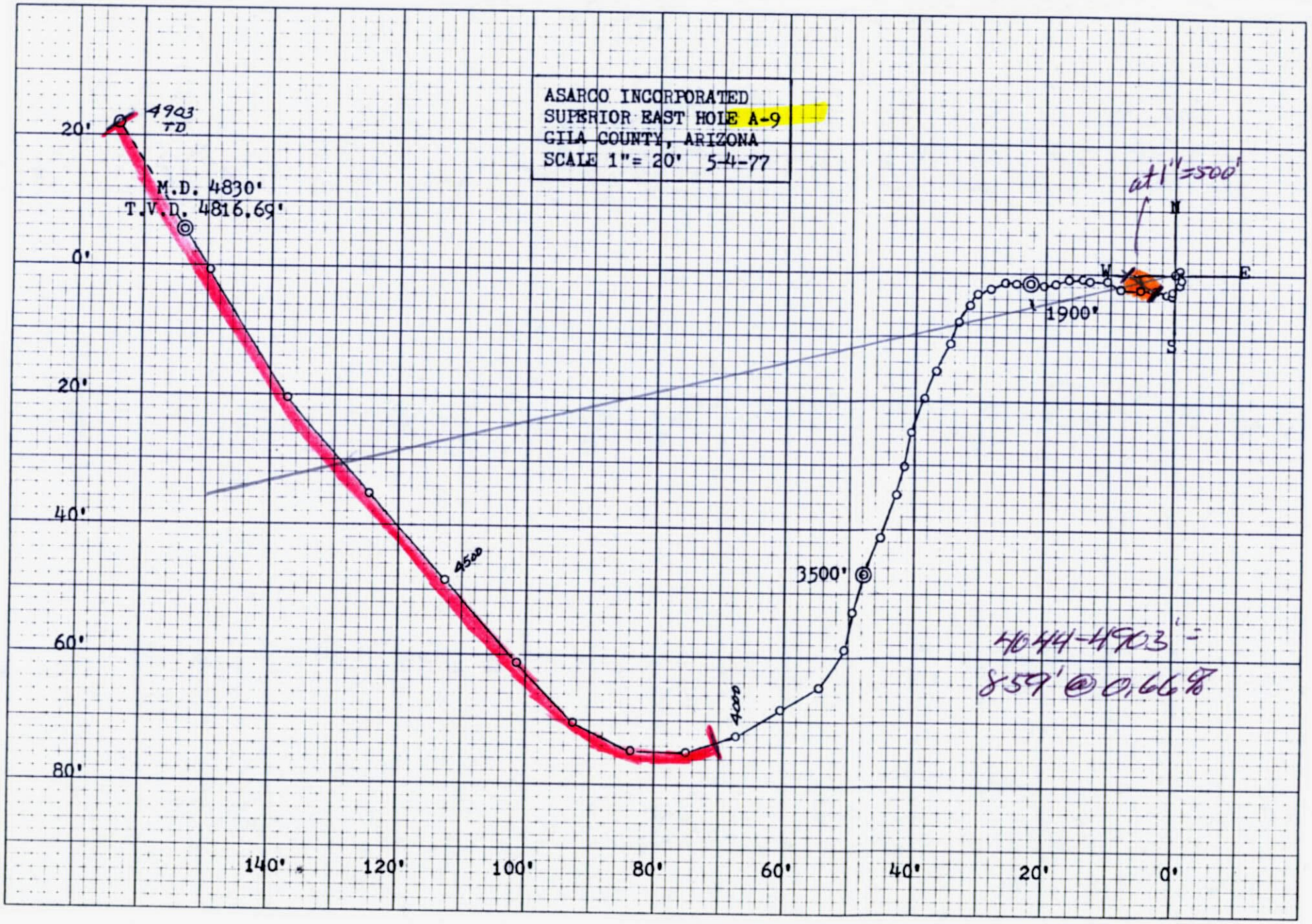
AMERICAN SMELTER & REFINING CO.
SUPERIOR EAST CORE HOLE NO. A7
GILA COUNTY, ARIZONA
SCALE 1"= 20' 2- 8-74

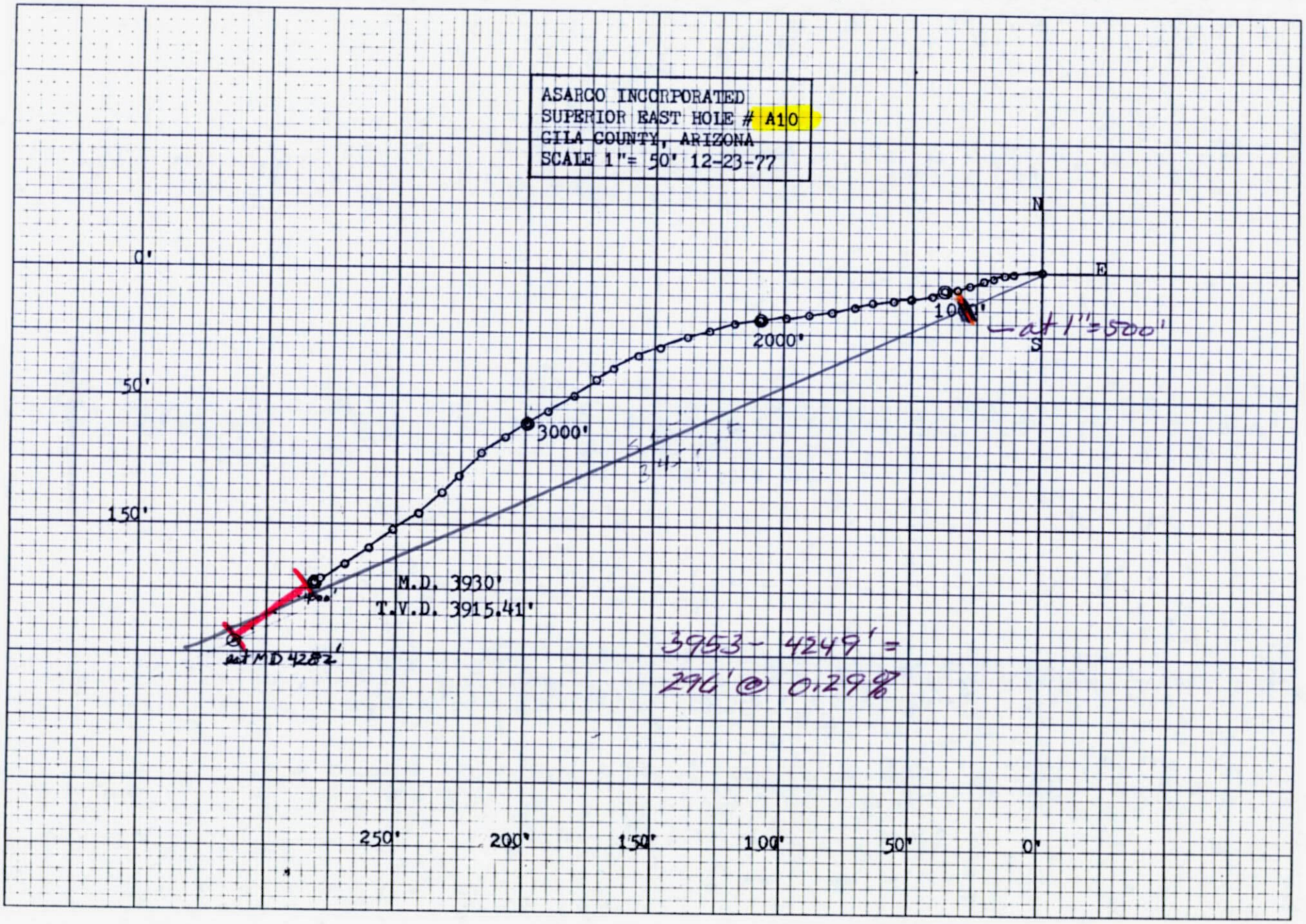


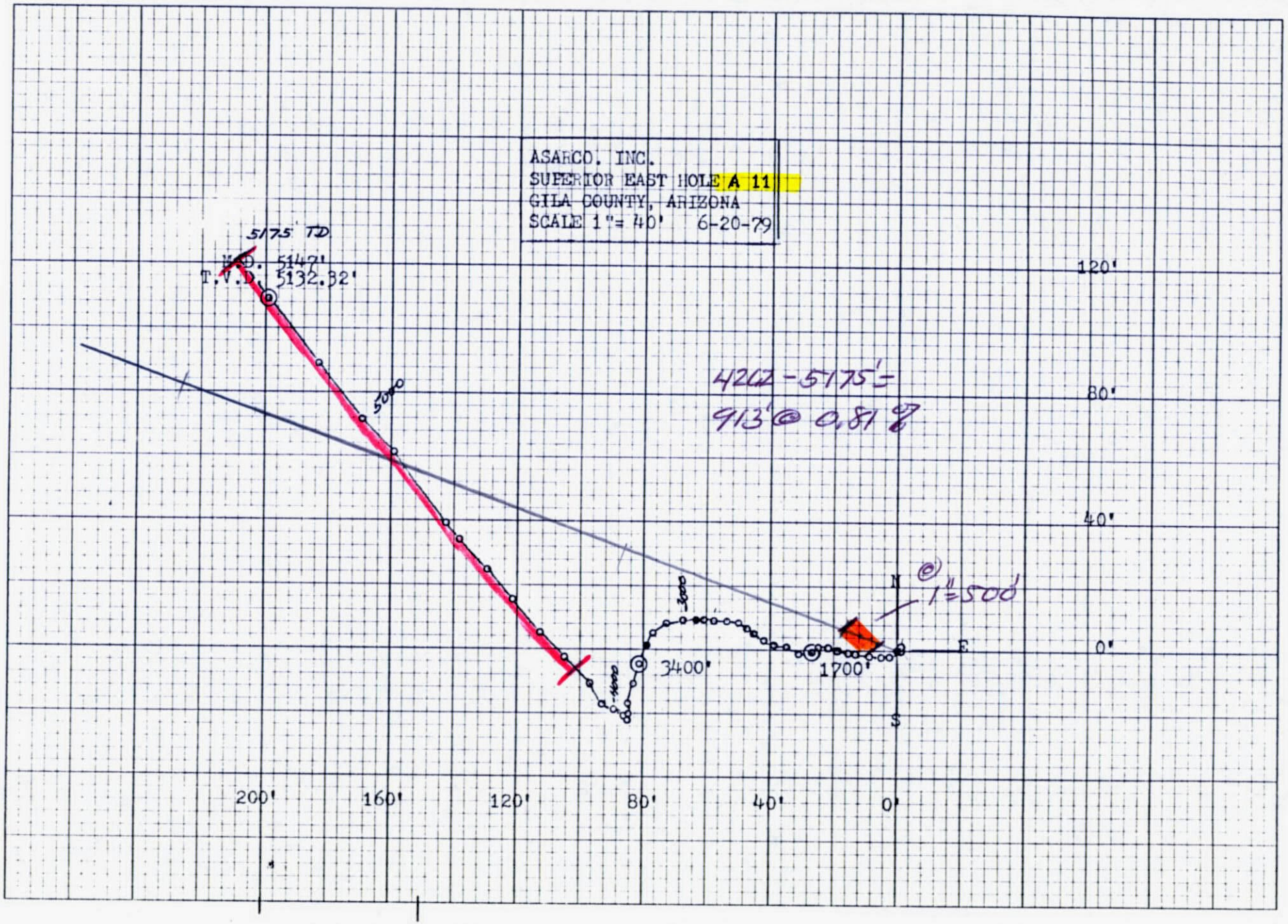


46 0780

K&E 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.


ASARCO INCORPORATED
SUPERIOR EAST HOLE A-9
GILA COUNTY, ARIZONA
SCALE 1"= 20' 5-4-77
4903
TD
M.D. 4830'
T.V.D. 4816.69'
20'
0'
20'
40'
60'
80'
140'
120'
100'
80'
60'
40'
20'
0'
4500
4000
3500'
1900'
at 1" = 500'
N
W
E
S
4044-4903' =
859' @ 0.66%

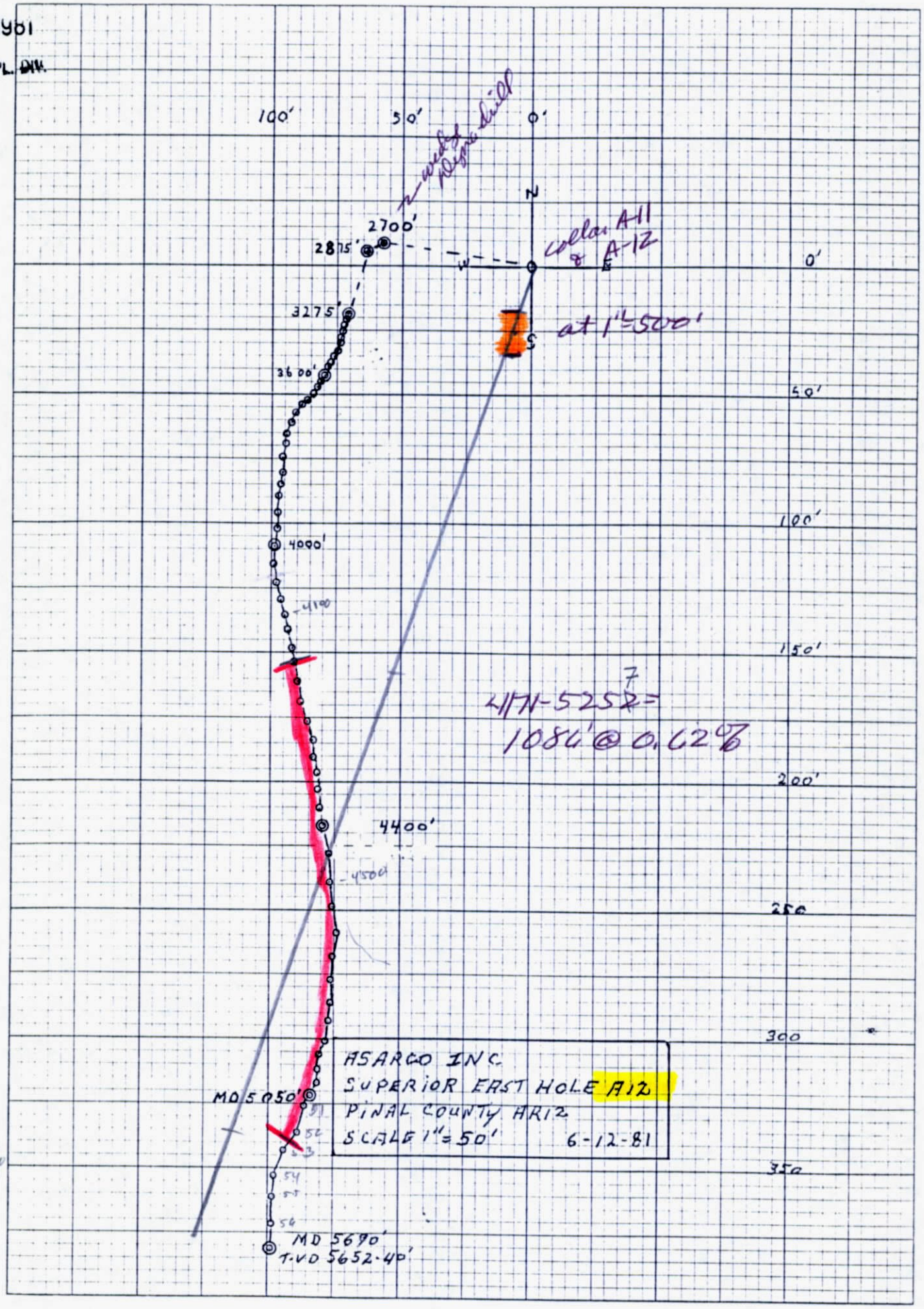

ASARCO INCORPORATED
SUPERIOR EAST HOLE # A10
GILA COUNTY, ARIZONA
SCALE 1"= 50' 12-23-77
N
E
S
0'
50'
150'
250'
200'
150'
100'
50'
0'
2000'
3000'
M.D. 3930'
T.V.D. 3915.41'
at MD 4282'
at 1"=500'
3953 - 4249' =
296' @ 0.29%


ASARCO, INC.
SUPERIOR EAST HOLE A 11
GILA COUNTY, ARIZONA
SCALE 1"= 40' 6-20-79
5175' TD
M.D. 5147'
T.V.D. 5132.32'
500'
4202 - 5175' =
913' @ 0.81 %
@ 1" = 500'
N
E
S
3400'
1700'
200'
160'
120'
80'
40'
0'
120'
80'
40'
0'

IVED

2 1981

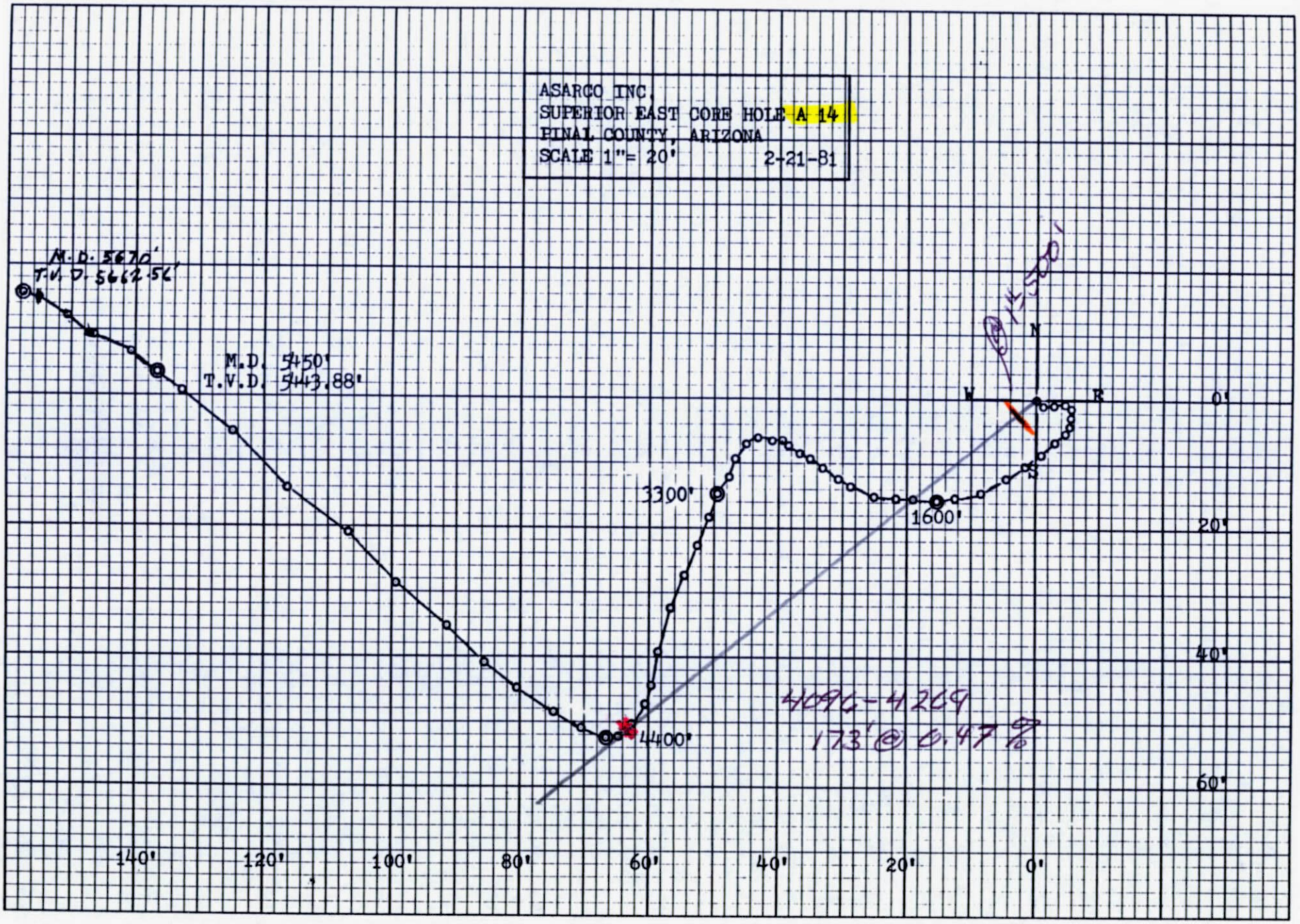
EXPL. DIV.



9-22-80
NPW

ASARCO INC.
SUPERIOR EAST HOLE A 13
PINAL COUNTY, ARIZONA
SCALE 1"= 100' 9-8-80

3499-4062=
563' @ 0.56%


ASARCO INC.
SUPERIOR EAST CORE HOLE A 14
PINAL COUNTY, ARIZONA
SCALE 1"= 20'
2-21-81
M.D. 5670'
T.V.D. 5662.56'
M.D. 5450'
T.V.D. 5443.88'
3300'
1600'
4400'
N
W
E
S
0'
20'
40'
60'
140'
120'
100'
80'
60'
40'
20'
0'
4096-4269
173' @ 0.47 %

Total Hole

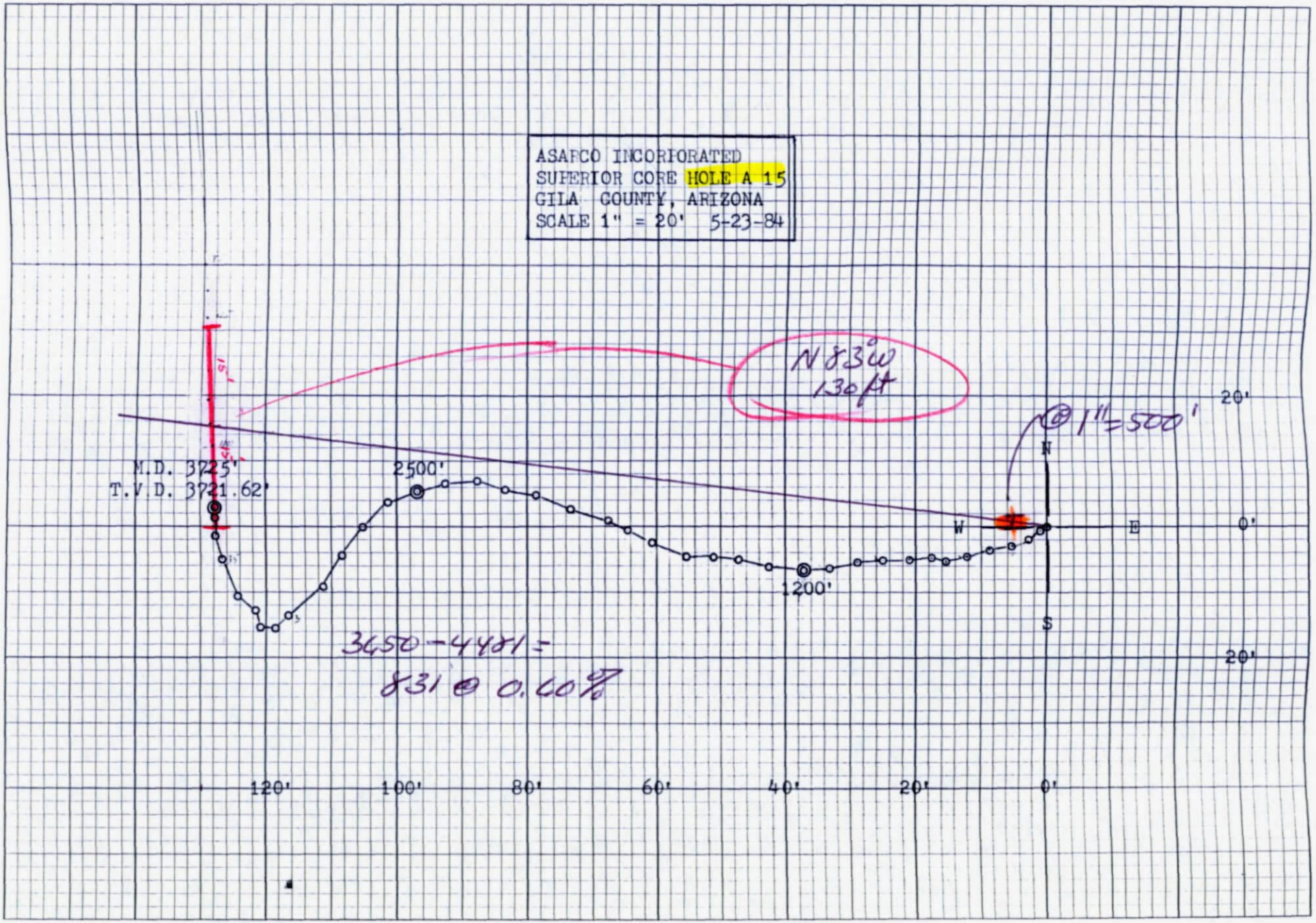
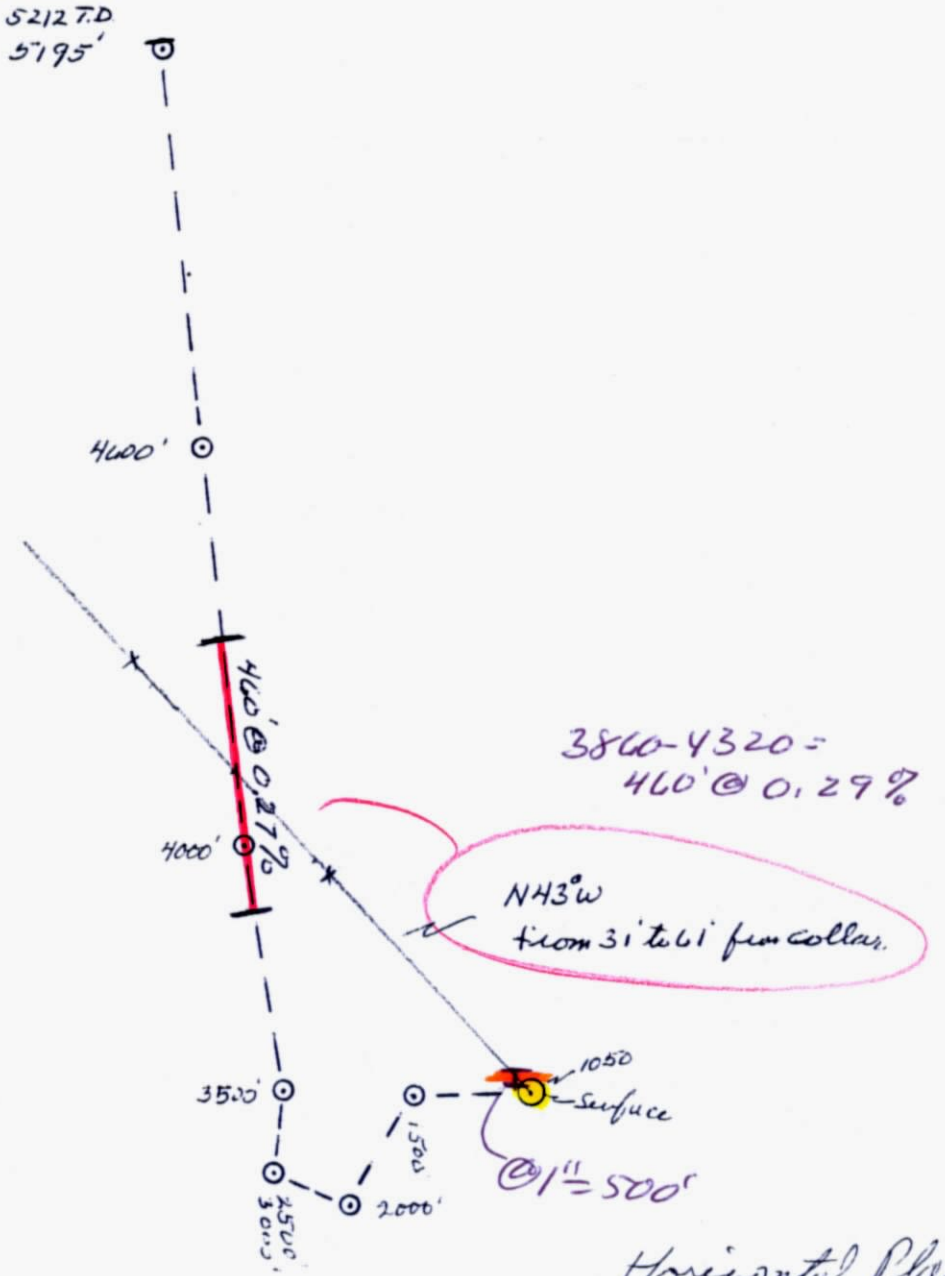

ASARCO INCORPORATED
SUPERIOR CORE HOLE A 15
GILA COUNTY, ARIZONA
SCALE 1" = 20' 5-23-84
N 83° W
130 ft
@ 1" = 500'
M.D. 3225'
T.V.D. 3721.62'
2500'
1200'
N
W
E
S
20'
0'
20'
3650 - 4481 =
831 @ 0.60%
120'
100'
80'
60'
40'
20'
0'

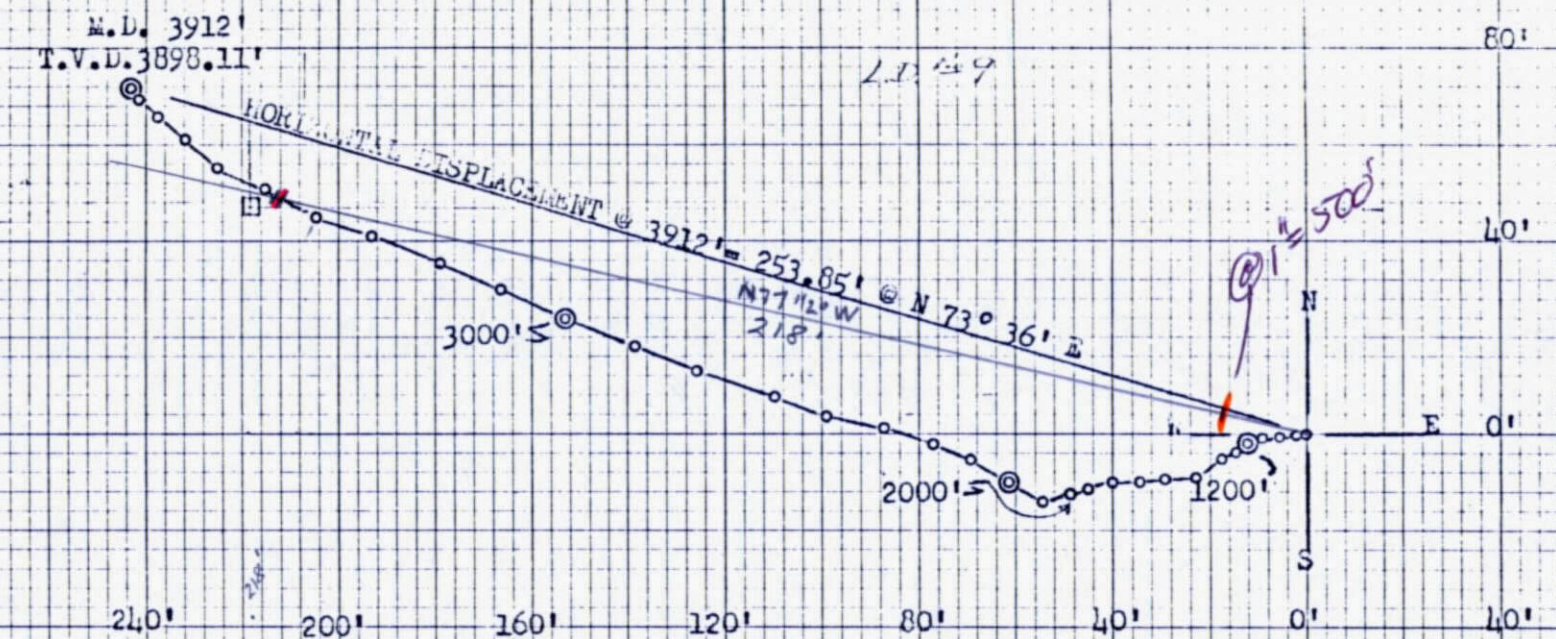
Figure 1

Superior East
Drill Hole A-16
1" = 20'



Horizontal Plan
Hole A-16
Superior East Prop
Pinal Co, AZ
JHRoll Scale 1" = 20' 8/27/91

AMERICAN SMELTER AND REFINING CO.
RAWHIDE CORE HOLE NUMBER A.I.-1
GILA COUNTY, ARIZONA
SCALE 1" = 40' 11-20-73



JDS

ASARCO

Southwestern Exploration Division

August 23, 1991

W.L. Kurtz

Best Fit Claims
Superior East Project
Pinal County, Arizona

As a follow-up of your verbal comment this past week, I have resurrected the "best fit" claim map of the Superior East project drawn up in 1984 by Stringham/Gay. On this map, shown to you, was the best fit of claims which could be held by "discovery" of a mineral intercept in the drill holes.

At that time, 21 claims, from full to wedges, were indicated.

Since 1984, only hole A-16 has been completed to add another intercept and perhaps change the overall outline. Also, since that time, both holes AI-1 and AI-2 have been removed from the Asarco control and four claims "discovered" by them are no longer valid. I believe Asarco could recapture holes AI-1 and AI-2 by restaking and W.D. Gay has been asked to research the property.

Table 1 lists the drill holes and their intercepts of 0.20% copper, or better. Also listed are the holes drilled by Asarco but no longer within the present claim outline.

Attachment A is the present thoughts on the claim distribution, on the present Asarco block.

Should Asarco become serious in restaking for best fit of the mineral intercepts, then a careful survey to assure of not leaving any gaps will be necessary.

I would also survey in the claims around the individual drill holes A-4 and A-7 which would provide two claims each, but isolated from the other package and each other.

Attachment A is the reevaluated best fit claim block as of this date.

As noted in Table 1, the 10 foot intercept of 0.75% copper in DCA-3A may not qualify as a valid discovery, nor the 26 feet of 0.21% copper in AI-1. Both of these holes are comfortably outside the known zone of mineralization, but should be included if feasible.

The area "protected" under this scheme is some 3000' wide by 4000' long.

James D. Sell

James D. Sell

JDS:mek
Att.

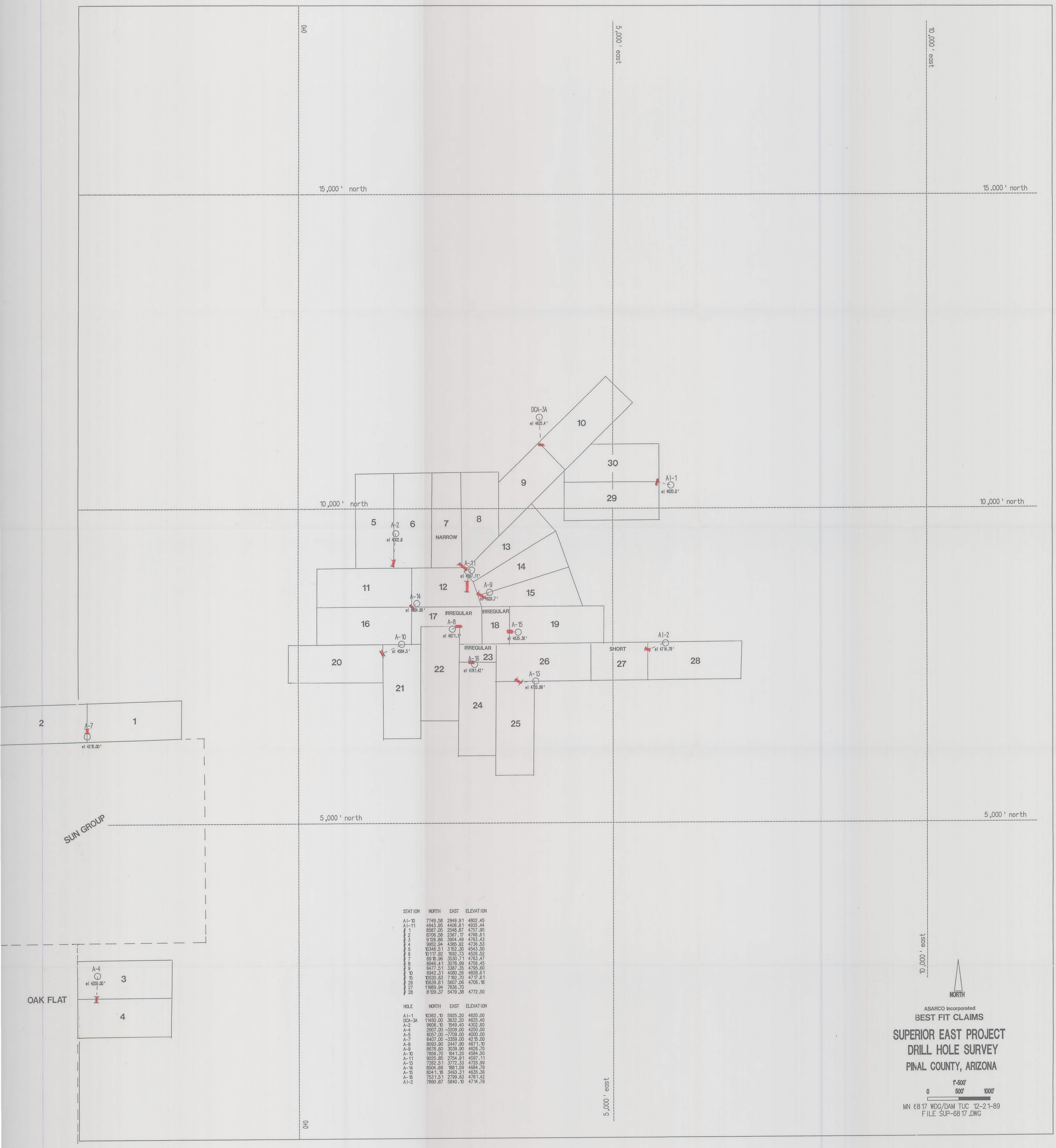
cc: W.D.Gay

Table 1. Asarco Drill Holes and Intercepts, above 0.20% Cu

Hole No.	Depth, Feet Intercept		Feet Length		% Cu Assay	Unit	Note
A-2	4317-4940	=	623'	at	0.30%	in PЄ sch & Tqm	
A-4	5080-6580	=	1500'	at	0.75%	in Lm sb, Lmbx, & Tw	
A-5	No assays of Tw rotary cuttings						
A-7	4695-5610	=	915'	at	0.43%	in Tw	
A-8	3879-4660	=	781'	at	1.34%	in PЄ sch & Tbfp	
A-9	4044-4903	=	859'	at	0.66%	in PЄ sch, Tbfp, & Tqm	
A-10	3953-4249	=	296'	at	0.29%	in PЄ sch, & Tbfp	
A-11	4262-5175	=	913'	at	0.81%	in PЄ sch, & Tbfp	
A-12	4171-5257	=	1086'	at	0.62%	in PЄ sch, & Tbfp	
A-13	3499-4062	=	563'	at	0.56%	in PЄ sch, & Tqmp	
A-14	4096-4269	=	173'	at	0.47%	in PЄ sch, & Tqmp	
A-15	3650-4481	=	831'	at	0.60%	in PЄ sch	
A-16	3860-4320	=	460'	at	0.29%	in PЄ sch, Tbfp, & Tqmp	
DCA-3A	4530-4540	=	10'	at	0.75%	in Tsg	
A-1	No assays above 0.19% in PЄ sch						*
A-3	5900-5910	=	10'	at	0.20%	in PЄdb sb	*
A-6	No assays above 60 ppm in rotary cuttings in Tw						*
AI-1	3461-3487	=	26'	at	0.21%	in PЄ sch	**
AI-2	2850-3160	=	310'	at	0.37%	in PЄ sch	**
DCA-1A	No assays above 84 ppm in Tw						*
DCA-2A	1910-1920	=	10'	at	0.20%	in PЄ sch	*
M-1A	3370-3420	=	50'	at	0.21%	in Tw	*
	3480-3500	=	20'	at	0.22%	in Tw	*

* Outside present claim block

** Outside present claim block, but possible to restake.



STATION	NORTH	EAST	ELEVATION
AI-10	7749.58	2949.91	4802.45
AI-11	4643.95	4406.61	4935.44
# 1	8587.05	2548.87	4757.90
# 2	8706.58	2367.17	4768.61
# 3	9126.86	3904.49	4763.43
# 4	9952.94	4385.92	4736.53
# 5	10348.51	3152.30	4543.50
# 6	10117.92	1692.73	4526.52
# 7	6918.96	3530.71	4763.47
# 8	6946.41	3078.99	4756.45
# 9	6477.51	3387.35	4795.60
# 10	6942.31	4080.26	4828.61
# 15	10520.63	7192.70	4717.61
# 26	10639.81	5607.06	4706.18
# 27	11989.94	7836.70	
# 28	8129.37	5479.38	4772.50

HOLE	NORTH	EAST	ELEVATION
AI-1	10362.10	5925.20	4620.00
DCA-3A	11450.00	3832.20	4625.40
A-2	9606.10	1549.40	4302.60
A-4	2607.00	-3209.00	4250.00
A-5	6057.00	-7709.00	4000.00
A-7	6407.00	-3359.00	4215.00
A-8	8093.90	2447.90	4671.10
A-9	8678.60	3039.90	4626.70
A-10	7856.70	1641.20	4584.50
A-11	9025.85	2754.91	4597.11
A-13	7262.51	3772.33	4725.99
A-14	8504.66	1881.59	4684.79
A-15	8041.18	3493.31	4635.36
A-16	7531.51	2799.63	4781.42
AI-2	7860.87	5840.10	4714.79