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TOMBSTONE MINING DISTRICT

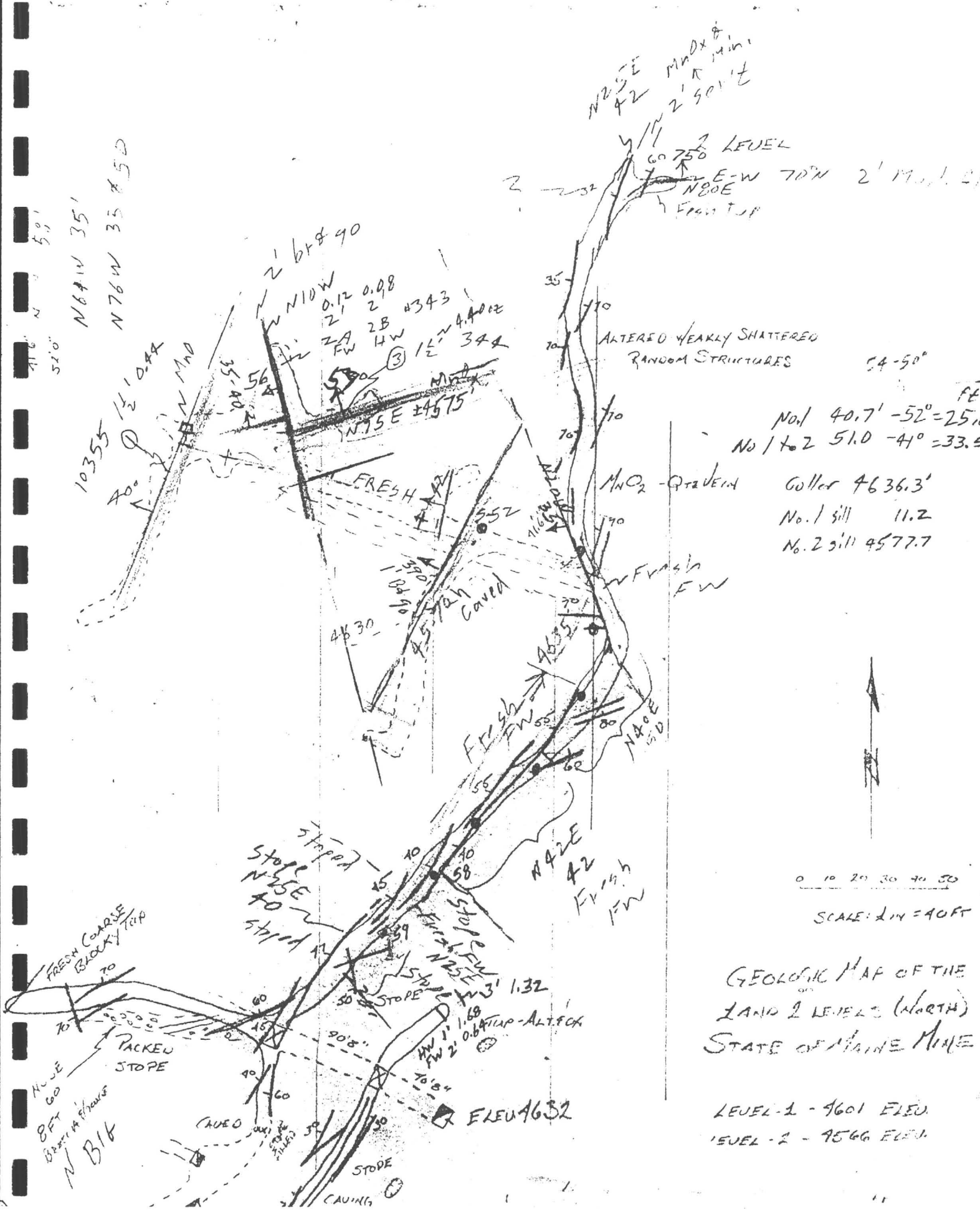
Cochise County, Arizona

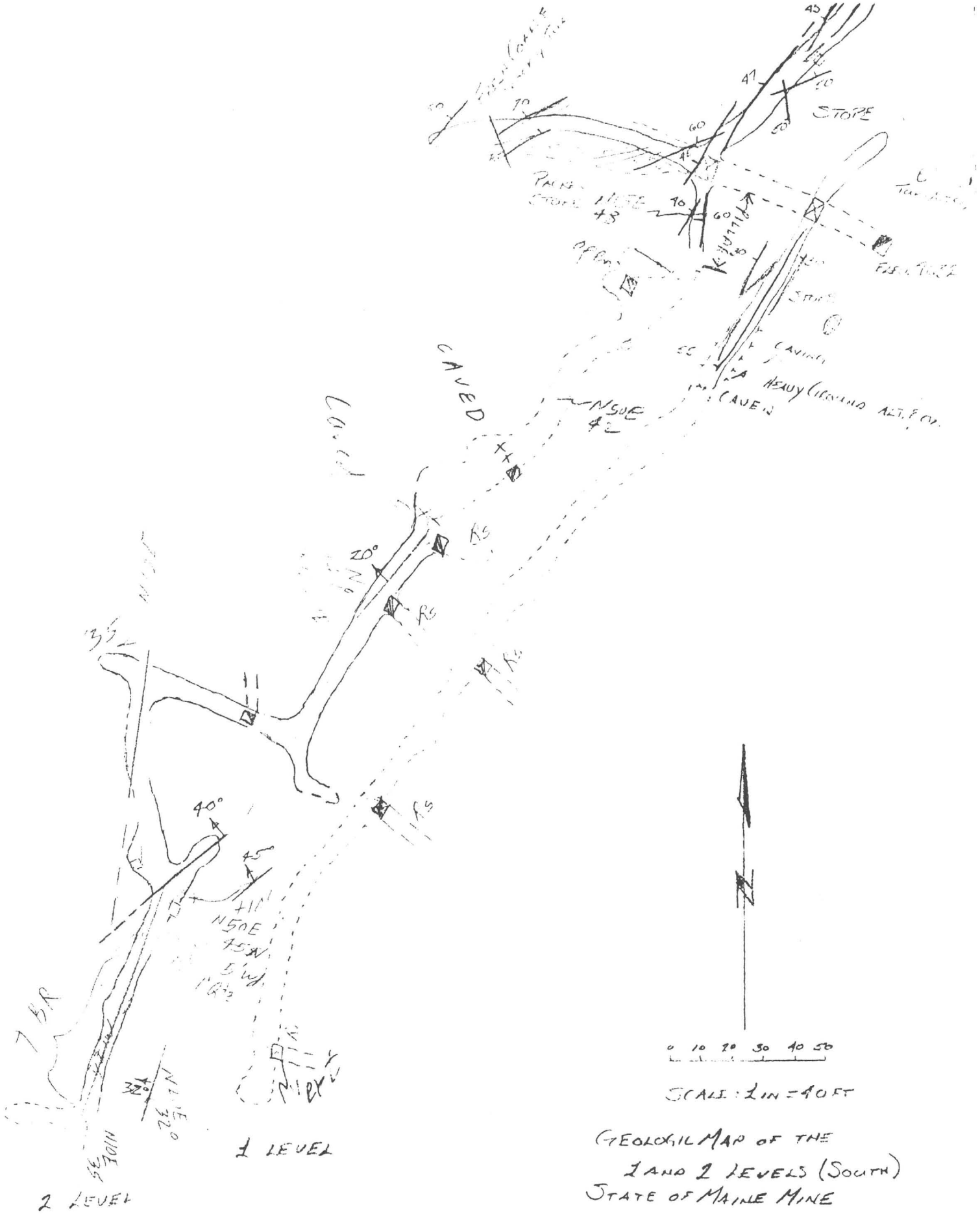
State of Maine

Reports - Ore Reserves
Drill Logs & Assays

STATE OF MAINE
UNDERGROUND WORK

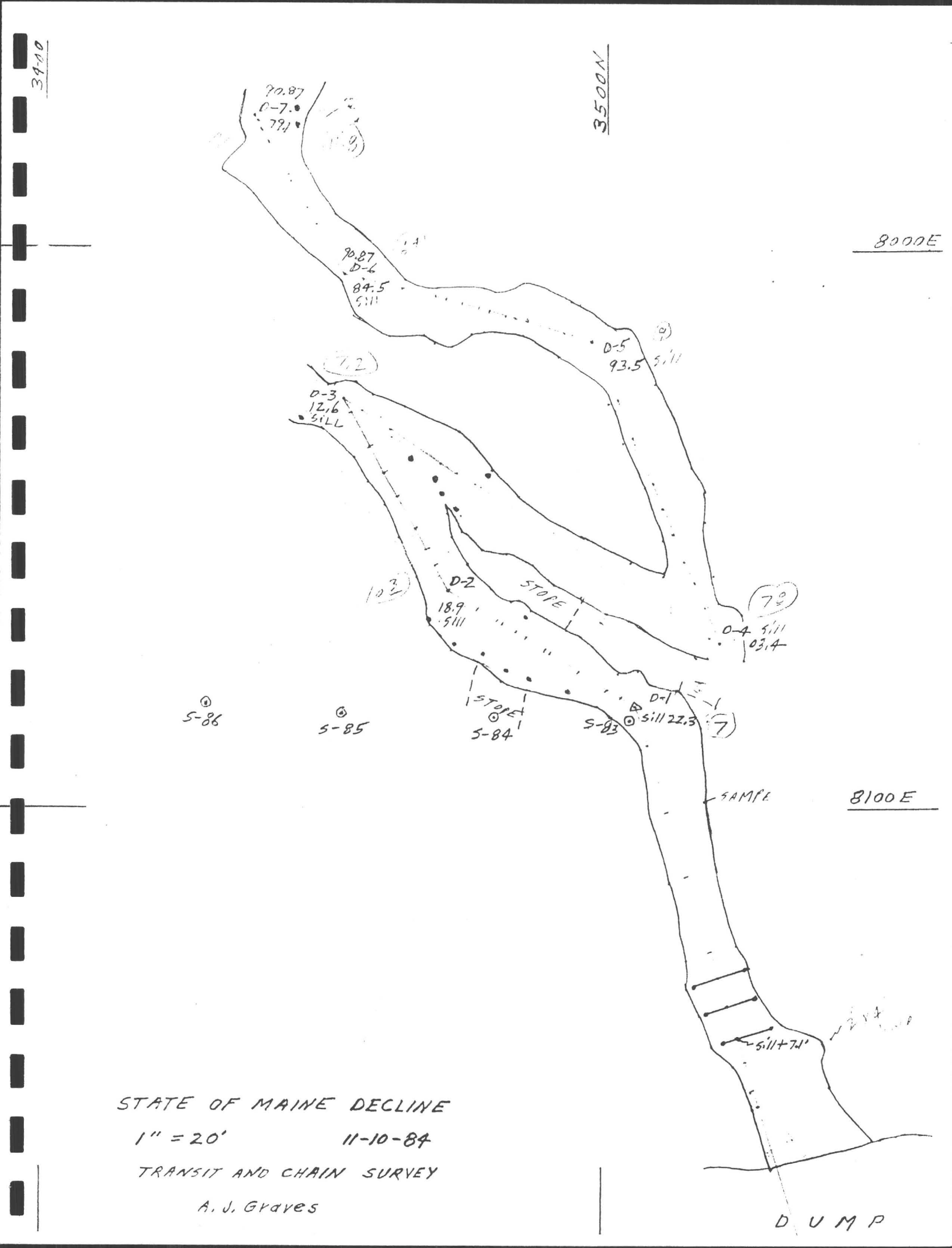
State of Maine
underground


LEVEL
E-W 70°N
N80E
ALTERED WEAKLY SHATTERED
RANDOM STRUCTURES
54-50°
No.1 40.7' -52° = 25.0 FT
No 1 to 2 51.0 -41° = 33.5'
MnO2 - QTZ VEIN
Collar 4636.3'
No. 1 sill 11.2
No. 2 sill 4577.7
N75E ±4575
FRESH
Fresh FW
Caved
N42E
42
Stope
N25E
40
Stope
Fresh FW
N25E
STOPE
HW 1' 1.68
FW 2' 0.64 TRAP - ALTERED
ELEV 4632
PACKED STOPE
CAVED
STOPE
CAVING
FRESH COARSE BLOCKY TOP
N 81
0 10 20 30 40 50
SCALE: 1 IN = 40 FT
GEOLOGIC MAP OF THE
1 AND 2 LEVELS (NORTH)
STATE OF MAINE MINE
LEVEL-1 - 4601 ELEV.
LEVEL-2 - 4566 ELEV.



GEOLOGIC MAP OF THE
1 AND 2 LEVELS (SOUTH)
STATE OF MAINE MINE

LEVEL 1 - 1601 ELEV.
LEVEL 2 - 1566 ELEV.



STATE OF MAINE DECLINE

1" = 20' 11-10-84

TRANSIT AND CHAIN SURVEY

A. J. Graves

Samples

No. 1 1 3' Sh + 34' N

Level 2A 0-2 FW

3 26'

2B 2-3 HW

		#	L	from Sh
4 59	+12'	0	6	51'
58	-6.5			+
57	-4.5	4½	1½	+23.5
55	-10.0	5	10	+56.0 Fw +2'
X-Cut				+42 Sod edge X-cut
53	-7.0	2	3	+58.0 (over Cut)

#59 48.4
63
4585.4
12
73.3

#55 33.2
70
63.2
63.2 10
53.2 53.2

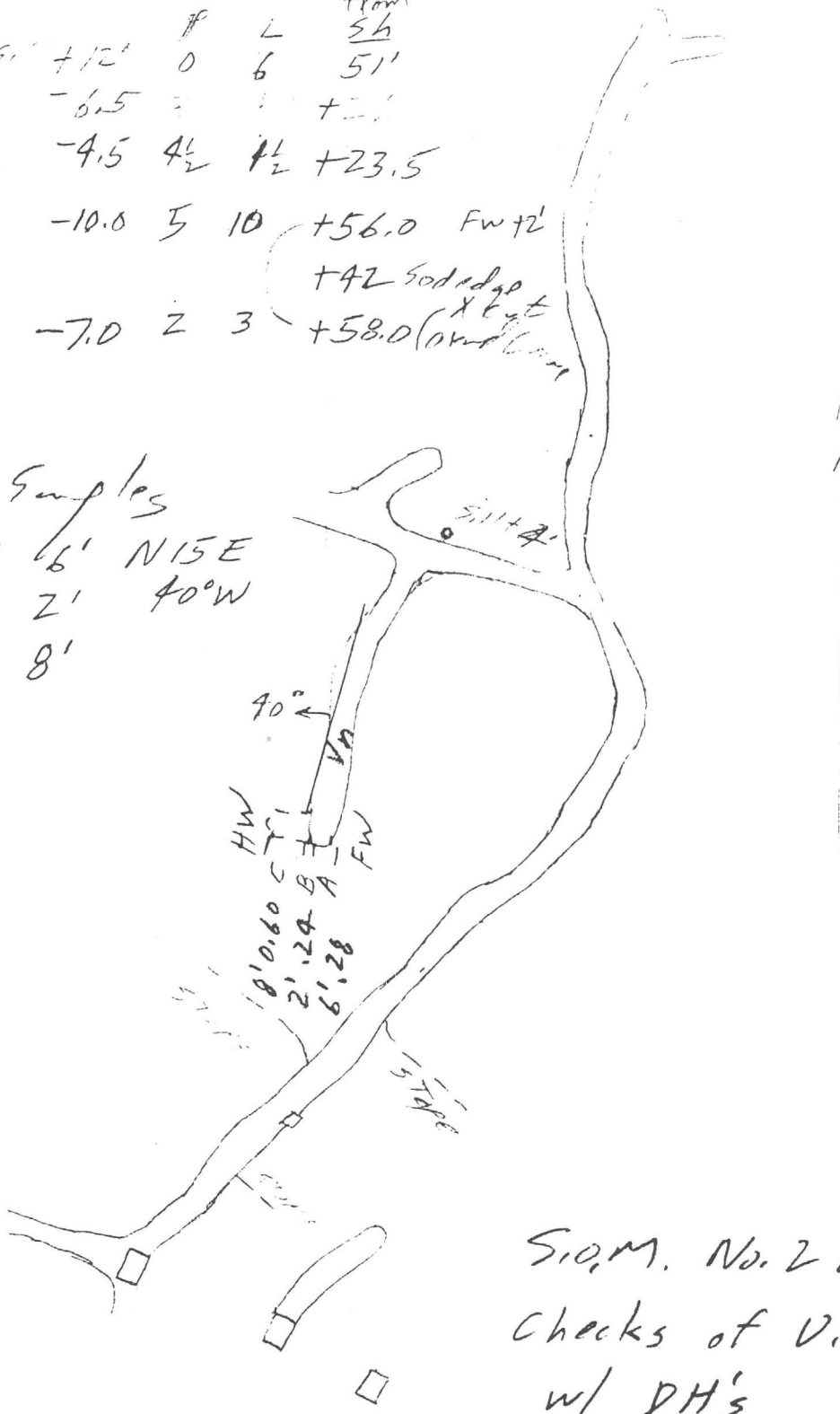
#52 43.0
-6.6
77.0
7
70.0

No. 2 Level Samples

4 A FW 6' N15E

B Vn 2' 40°W

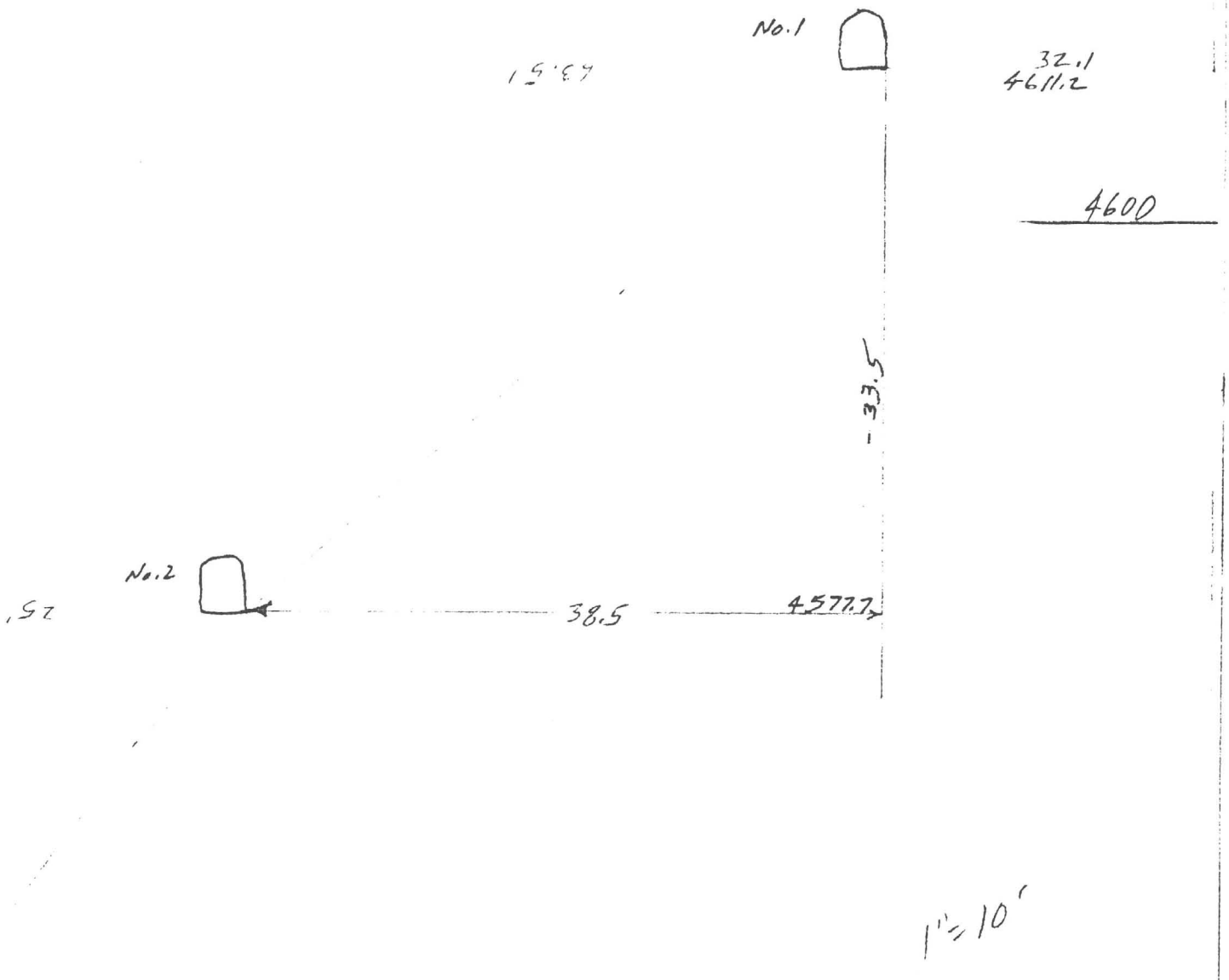
C HW 8'



S.O.M. No. 2 Level
Checks of V.G. holing
w/ DH's
Oct 1984
AW

FW Sio. No. 54
Collar

2.



1" = 10'

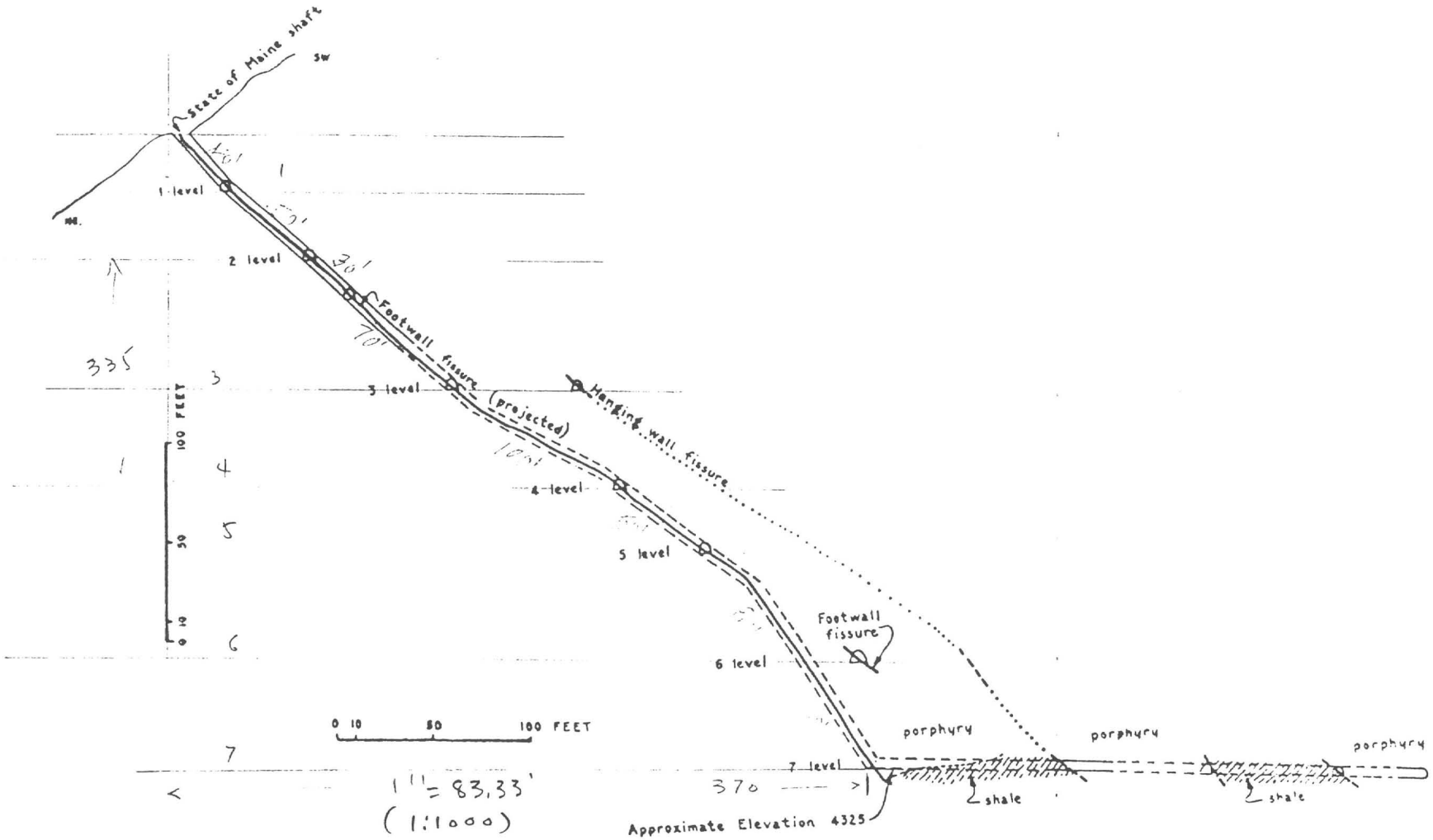


Plate XXVI.—Cross section through State of Maine Mine, looking southwest.

A-A'

LINDROOS LABORATORIES
GARY A. & NAOMI R. LINDROOS
P.O.BOX 52
TOMBSTONE, AZ 85638
Phone: 457-3132

October 29, 1984

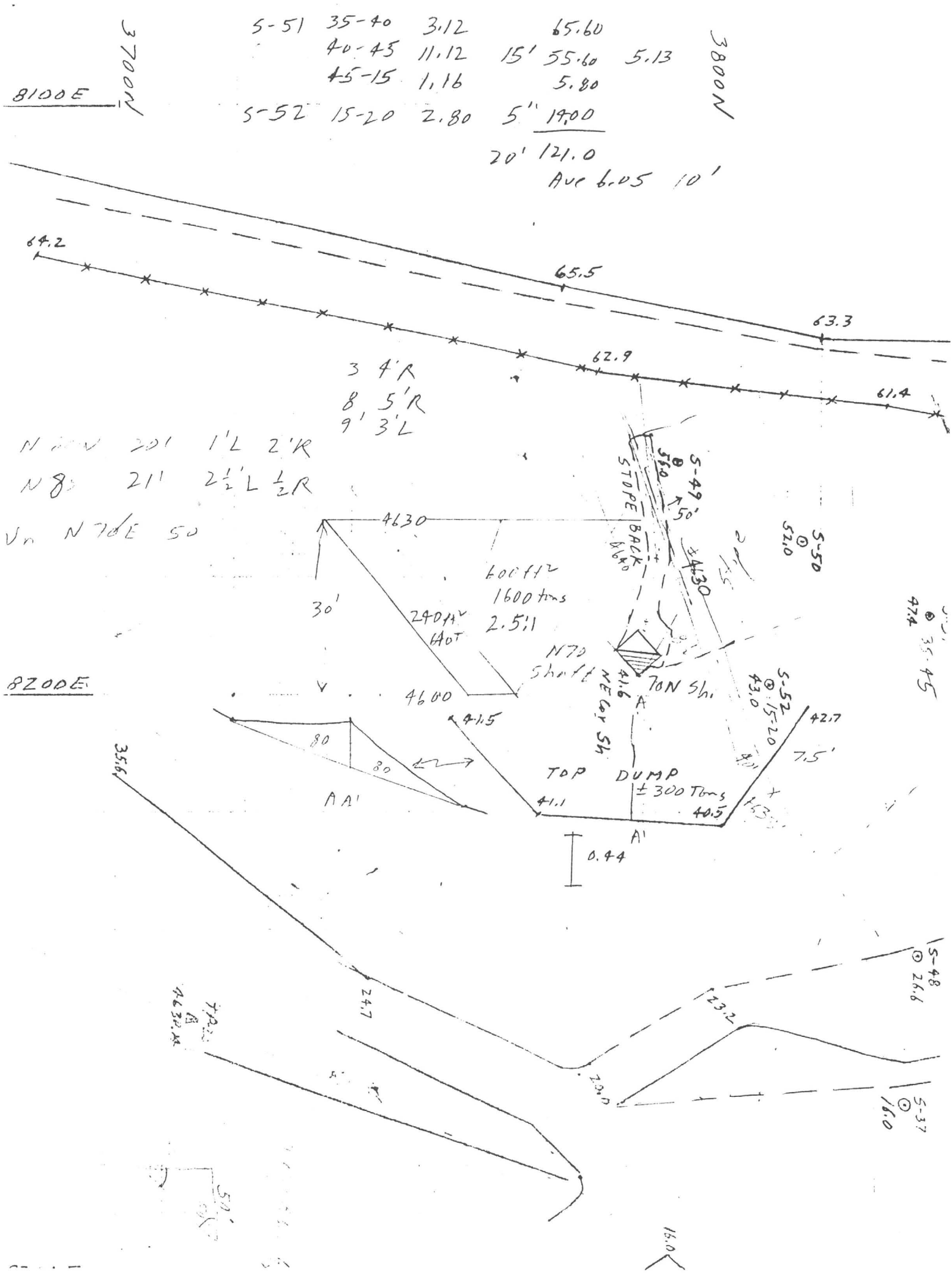
Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

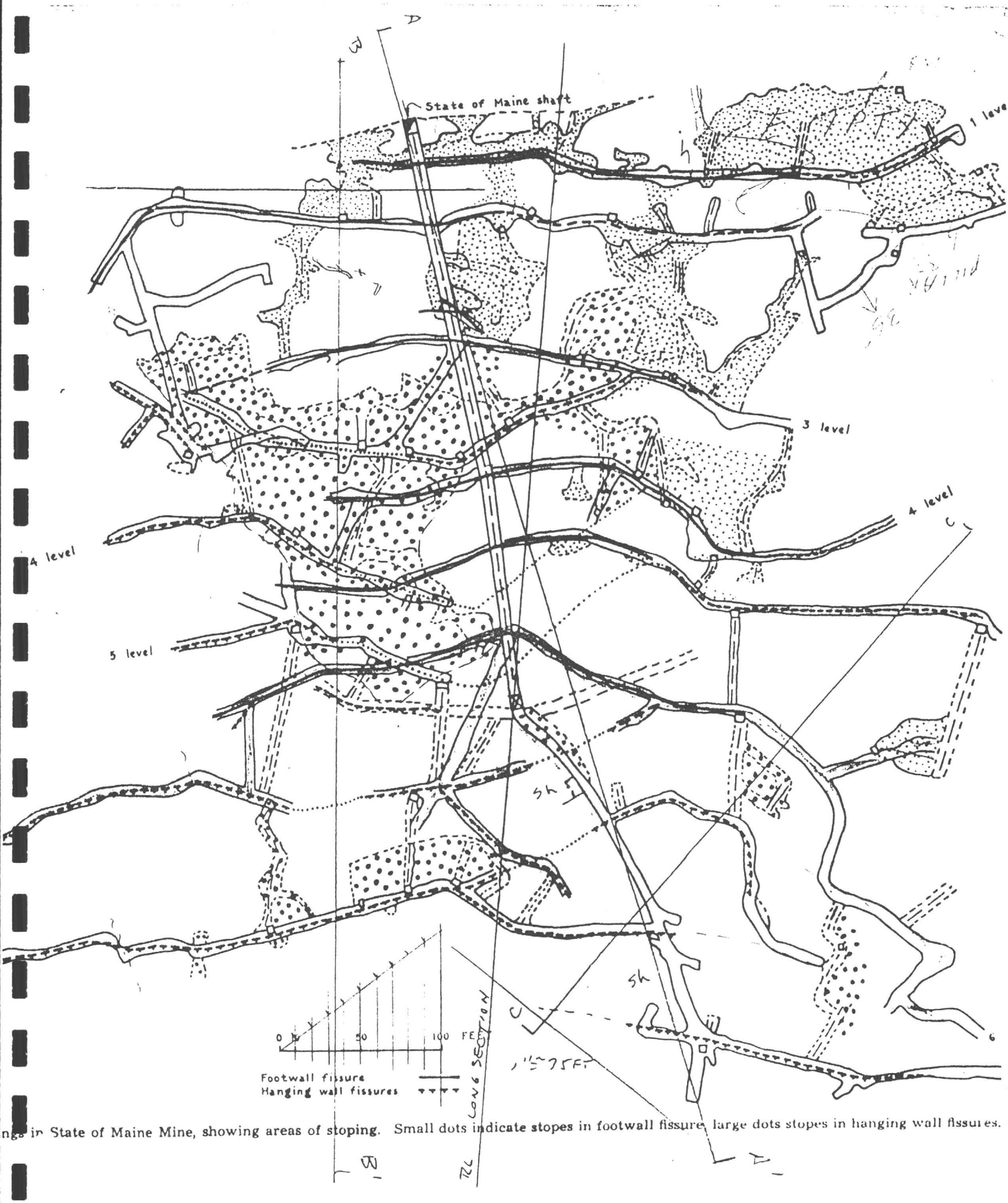
CERTIFICATE OF ANALYSIS

Sample Identification	Ag Oz/T	Au Oz/T				
SV 1 Pit 0-3'	1.16	0.008	0.22			
SV 3 Pit 0-3'	0.04	trace	0.10			
#1 Lev #1 0-3'	1.32	0.008	0.60			
#1 Lev #2A 0-2'	0.64	0.004	0.20			
#1 Lev #2B 2'-3'	1.68	0.016	0.64			
#2 4A 0-6'	0.28	0.004	0.10			
#2 4B 6-8'	0.24	0.004	0.08			
#2 4C 8-16'	0.60	0.008	0.08			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE NO. 14160
GARY ALVIN LINDROOS
Date Issued 10-29-81
ARIZONA, U.S.A.


3700N
3800N
8100E
8200E
S-51 35-40 3.12 65.60
40-45 11.12 15' 55.60 5.13
45-15 1.16 5.80
S-52 15-20 2.80 5' 14.00
20' 121.0
Ave 6.05 10'
64.2
65.5
63.3
62.9
61.4
3 4'R
8 5'R
9' 3'L
N 21' 1'L 2'R
N 8 21' 2½'L ½R
Vn N 70E 50
4630
30'
240 AV
HOT
600 HV
1600 tons
2.5:1
N70 Shaft
NEGr Sh
70N Sh.
4600
41.5
41.6
STOPE
BACK
4640
S-49
50'
S-50
52.0
4430
S-52
43.0
15-20
42.7
7.5'
TOP DUMP
± 300 Tons
41.1
40.5
A
A'
0.44
80
80
AA'
35.6
24.7
23.2
S-48
26.6
S-37
16.0
7.0
16.0



ngs in State of Maine Mine, showing areas of stoping. Small dots indicate stopes in footwall fissure, large dots stopes in hanging wall fissures.

AUSTRAL OIL COMPANY INC.
TOMBSTONE AREA
COCHISE COUNTY, ARIZONA

COMPOSITE LEVEL MAP OF THE
STATE OF MAINE MINE

Scale: 1" = 40'

0 10 50 Feet

W.L July, 1968

STATE OF MAINE
MINE PLAN CK

State of Maine

ORE: 53X7 370 1665

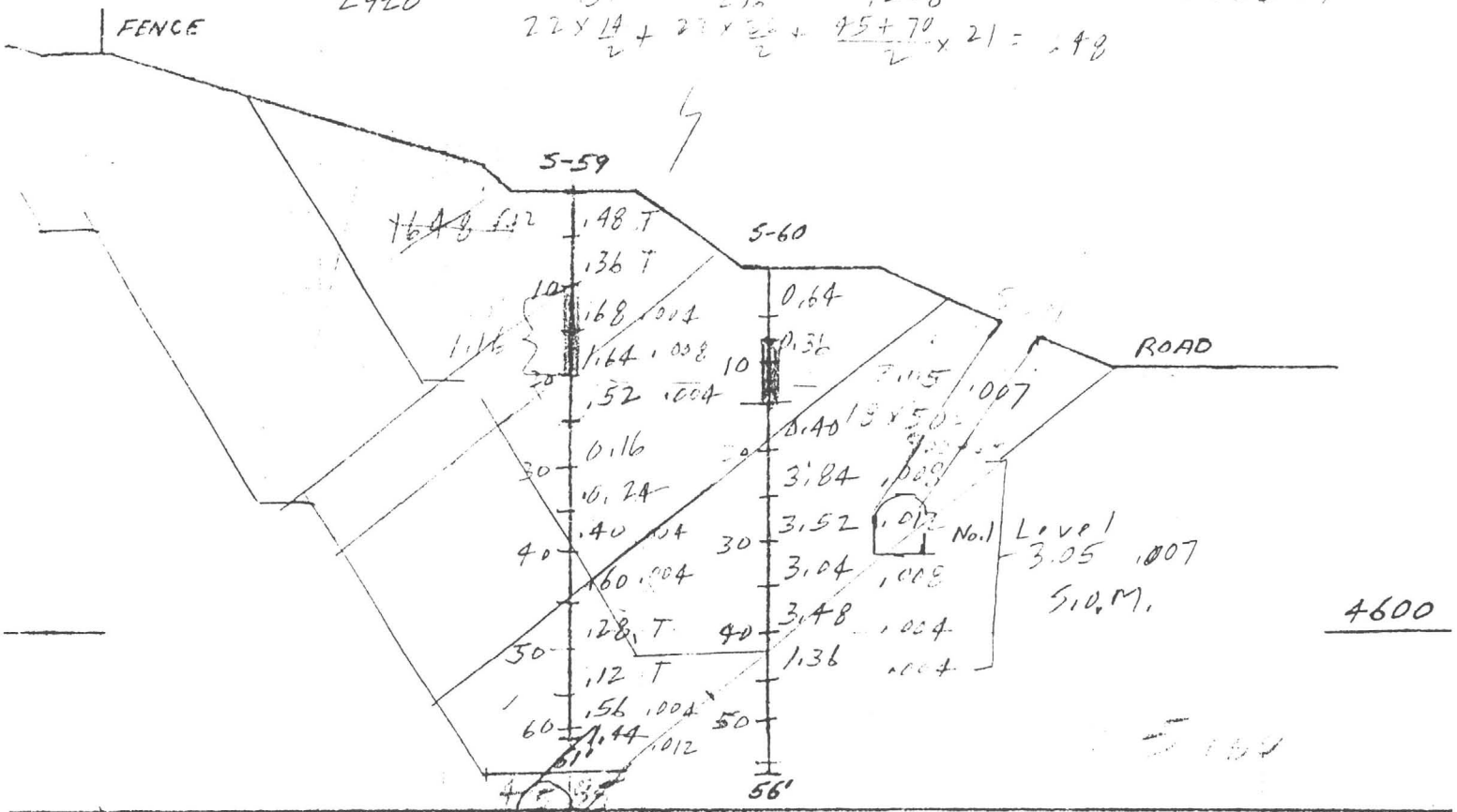
Waste: 20X60 1200
47/2 X 80 1720
2920

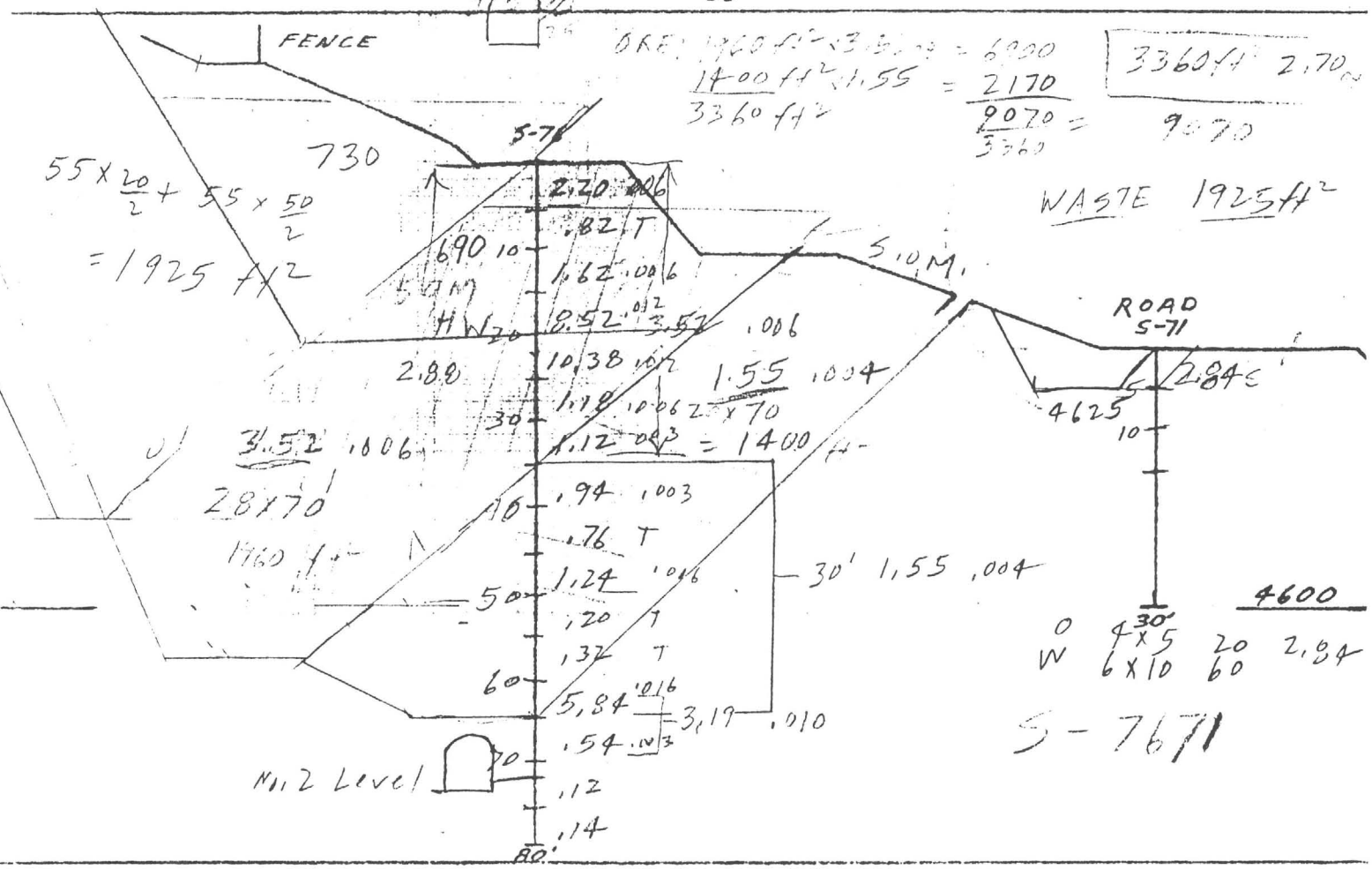
1720

1665 ft² = .03 oz
(.03)
4.80

Waste: 2920 ft²

22 X 14/2 + 27 X 22/2 + (45+70)/2 X 21 = .48





ORE: 1960 ft² X 3.60 = 6930
1400 ft² X 1.55 = 2170
3360 ft²
9070 / 3360 = 2.70 oz

3360 ft² 2.70 oz
9070

730

55 X 20/2 + 55 X 50/2
= 1925 ft²

WASTE 1925 ft²

28 X 70
1960 ft²

1.55 .004 28 X 70 = 1400 ft²

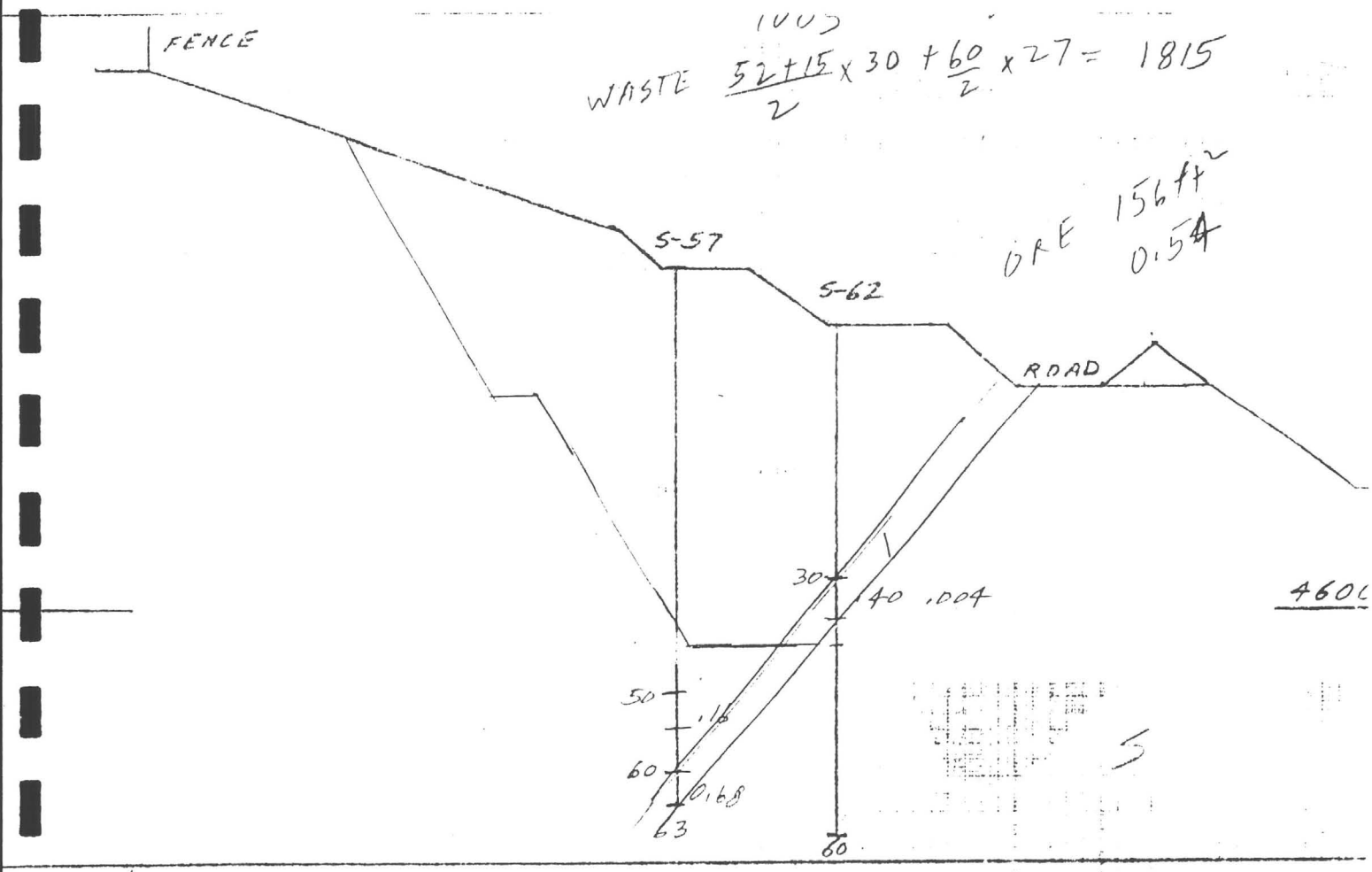
30' 1.55 .004

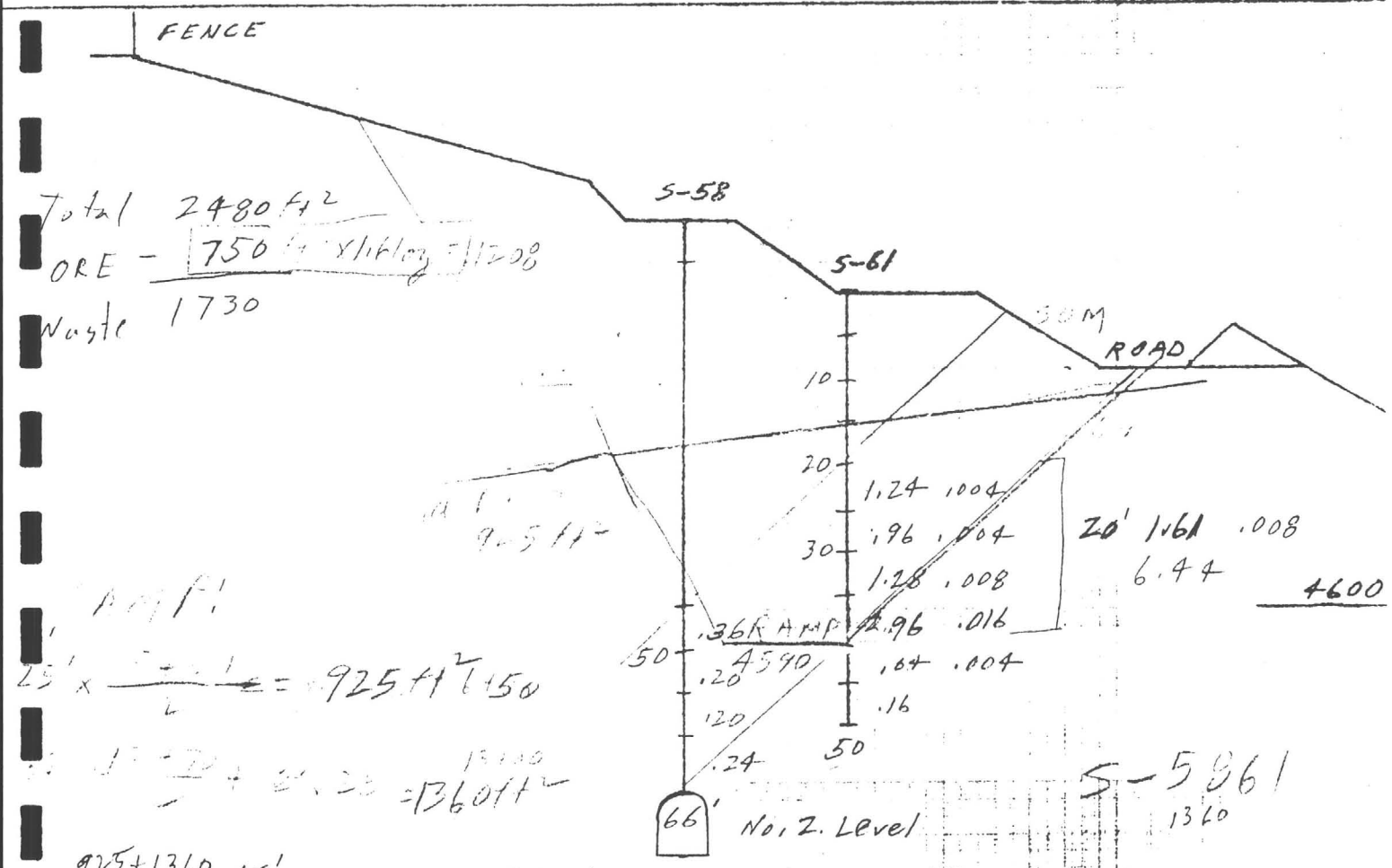
30' X 5
6 X 10 20 60 2.84

S-7671

WASTE $\frac{52+15}{2} \times 30 + \frac{60}{2} \times 27 = 1815$

ORE 156 ft² 0.54





Total 2480 ft²
ORE - 750 ft² x 1.61 = 1208
Waste 1730

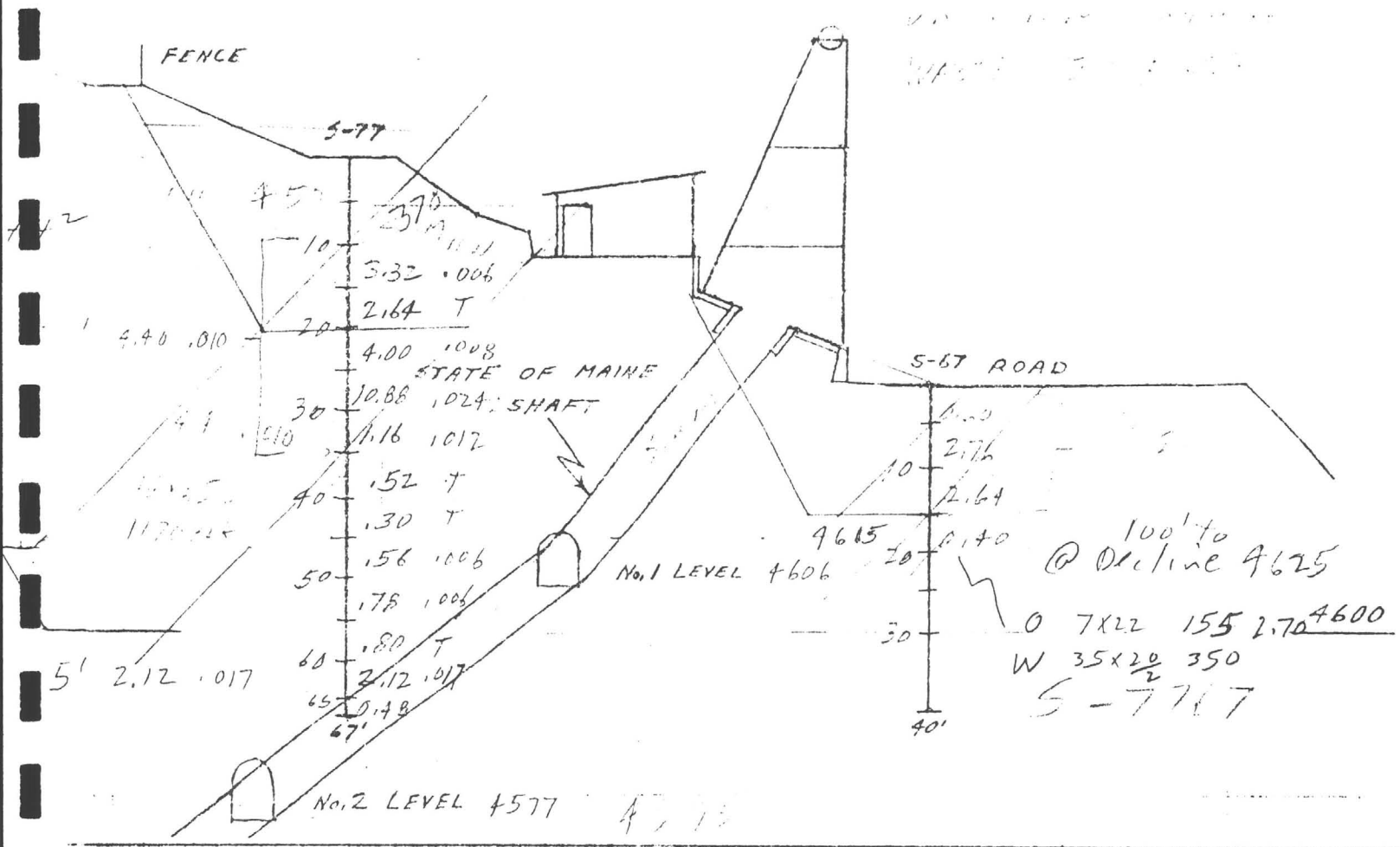
$25' \times \frac{\quad}{2} = 925 \text{ ft}^2$ (50)

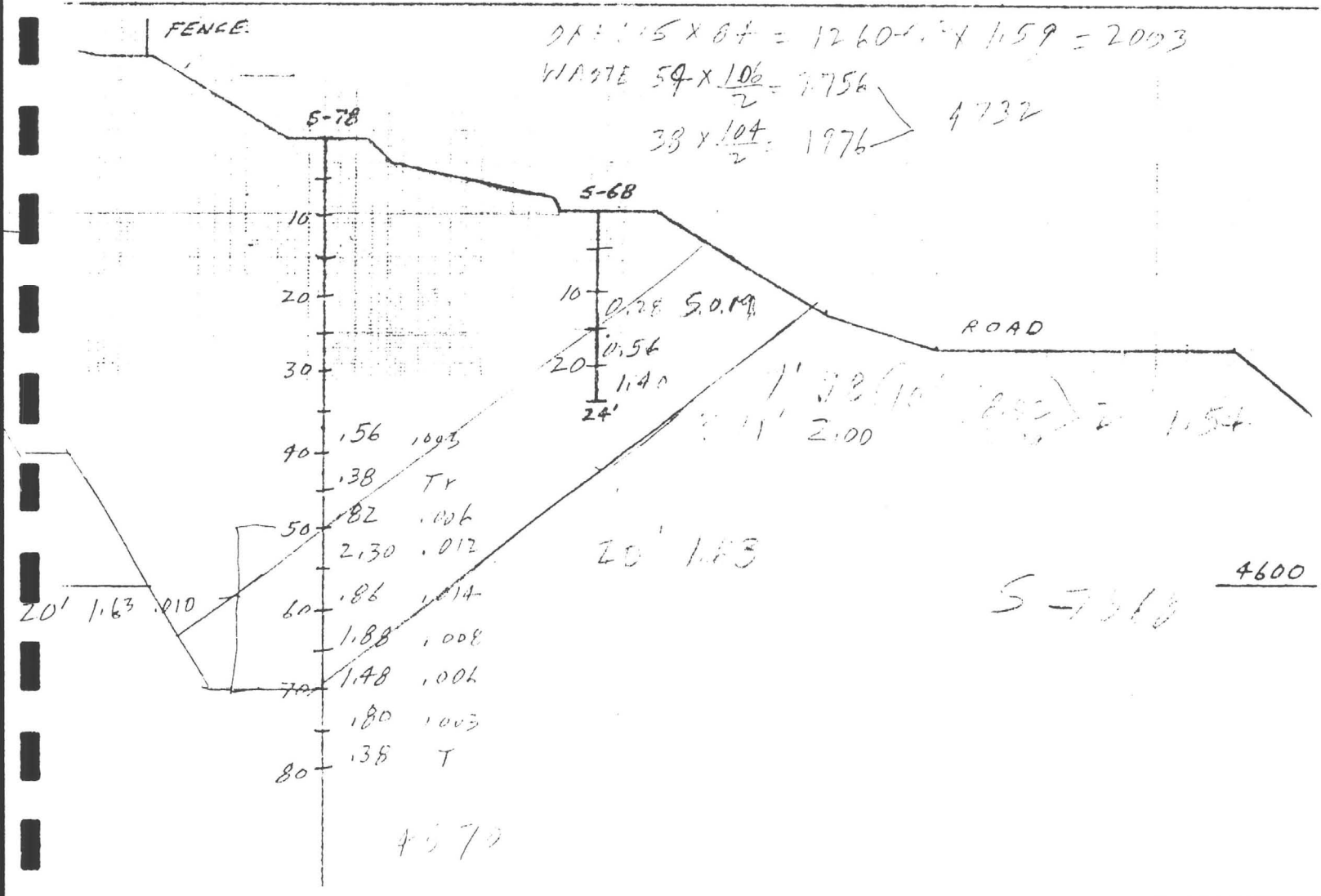
$\frac{\quad}{2} + 24 \times 25 = 1360 \text{ ft}^2$

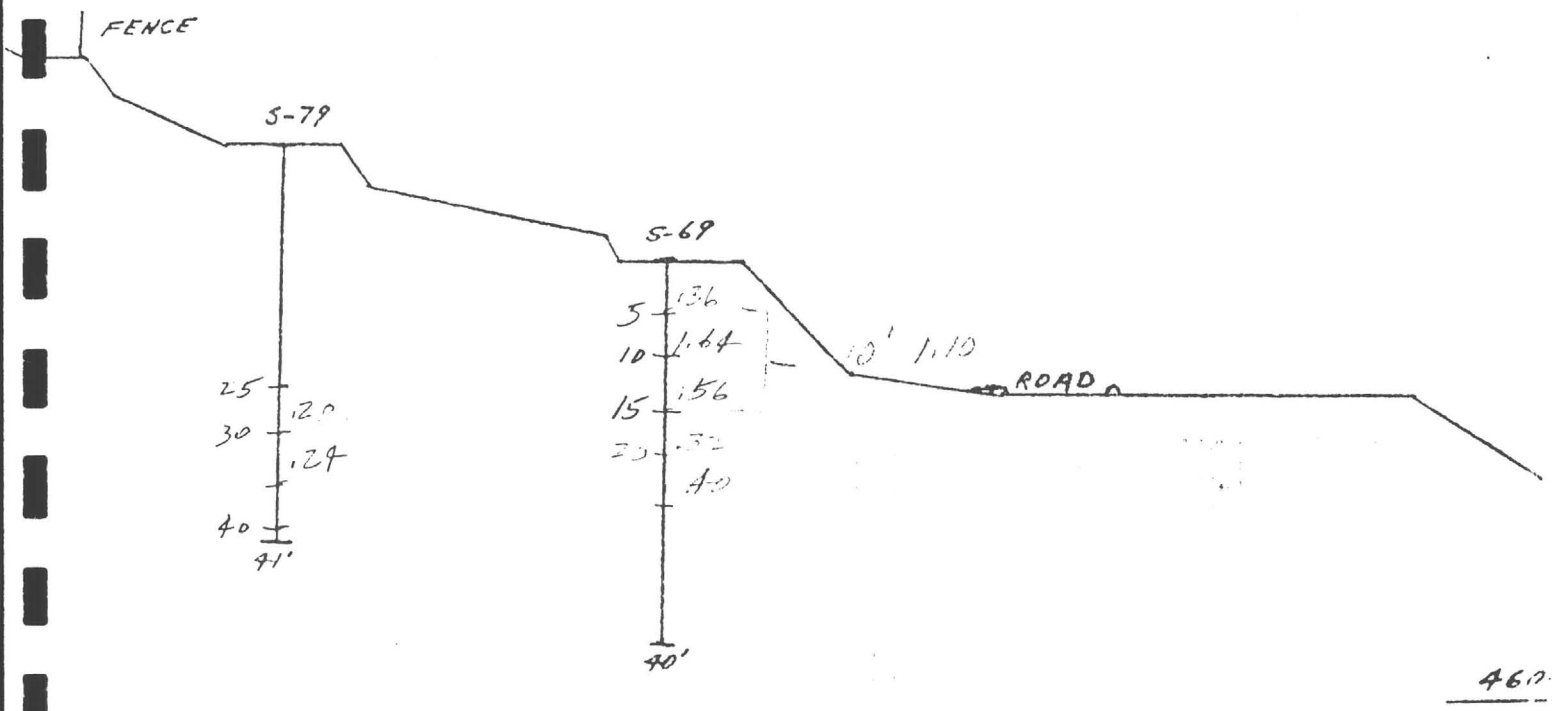
$\frac{925+1360}{2} \times 65' = \frac{\quad}{13.5} = 5500$ tons

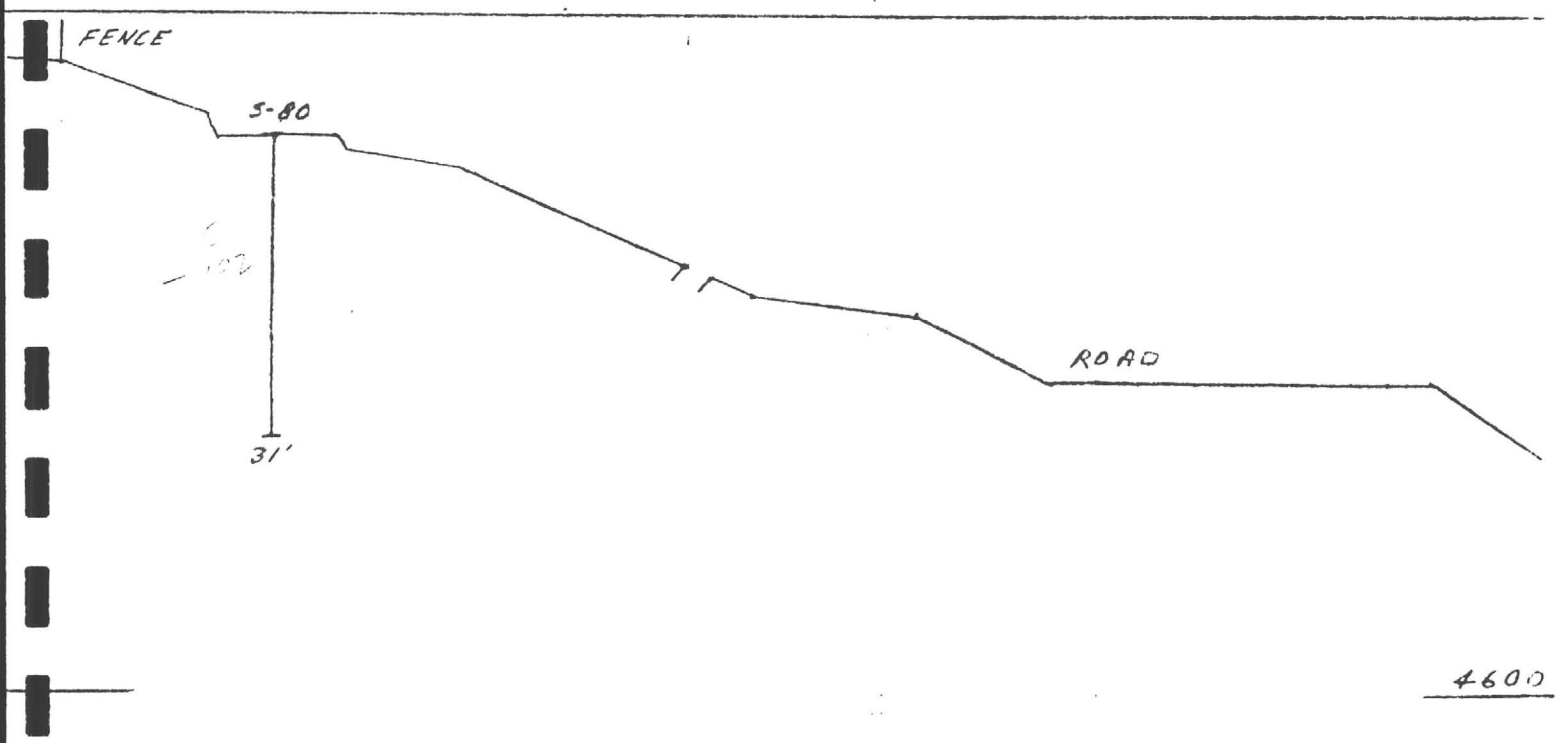
$\frac{925+0}{2} \times 65 = \quad$ 2230

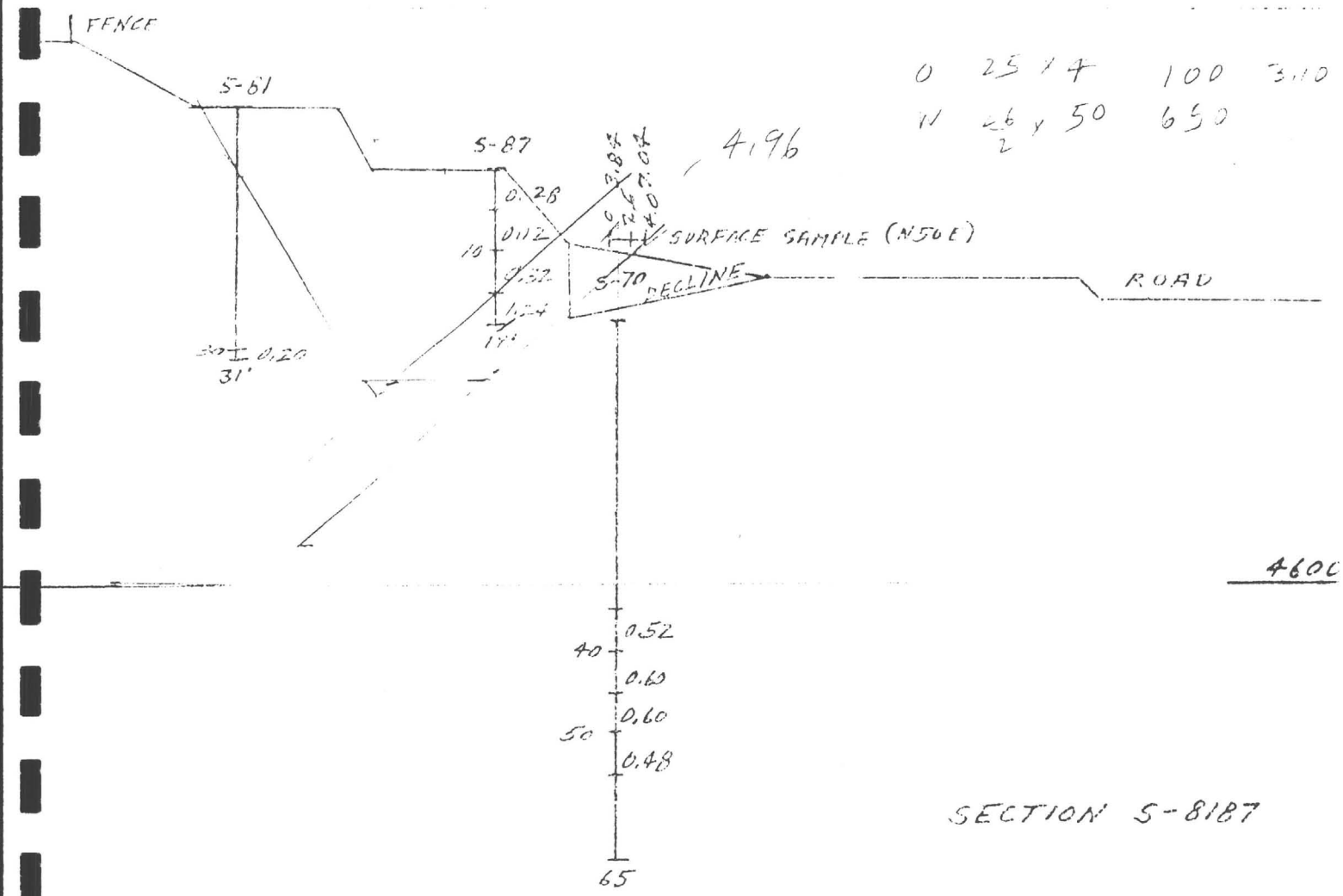
RAMP = 7730 Tons waste

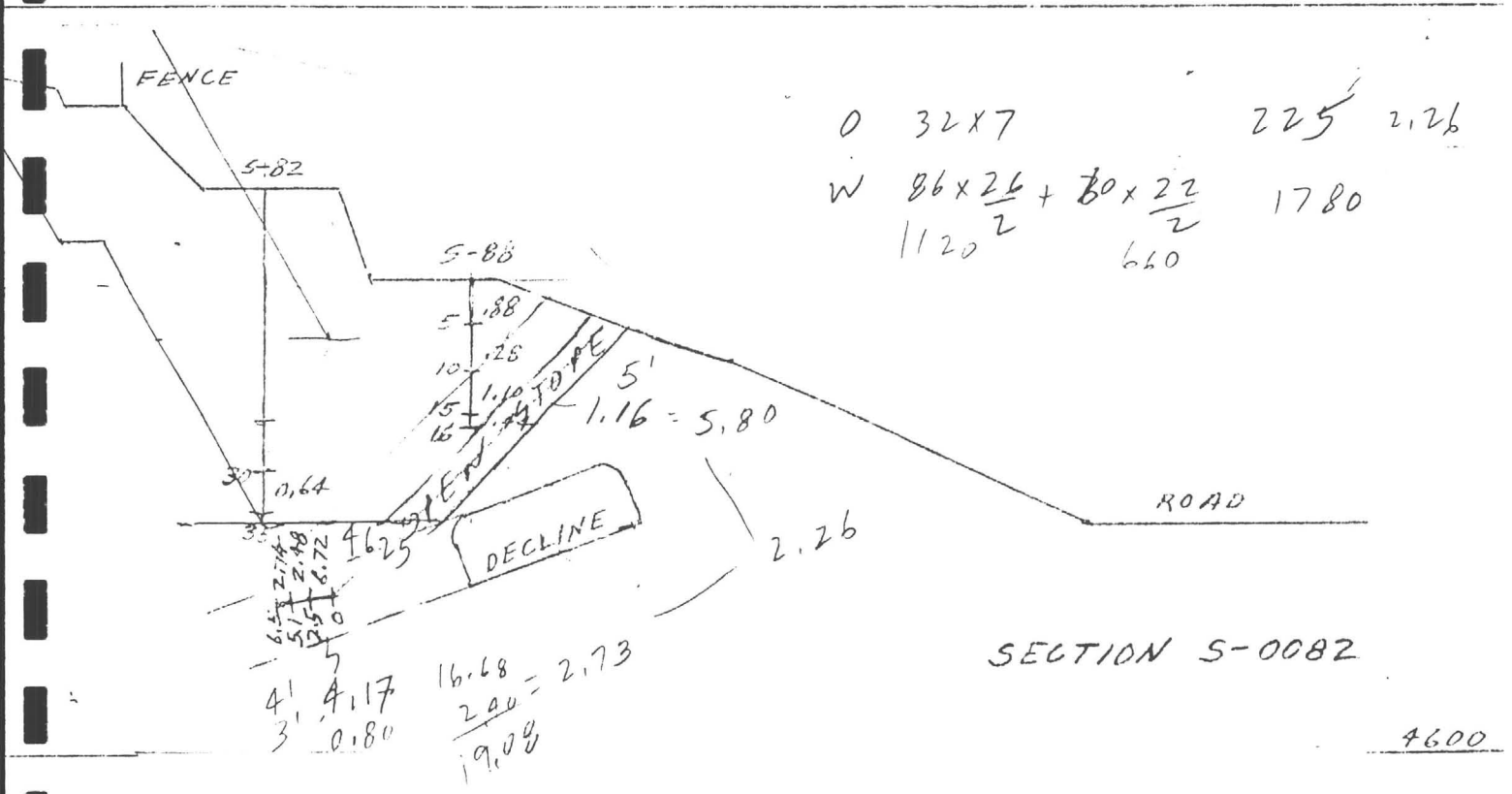

FENCE
S-77
10
3.32 .006
2.64 T
20
4.40 .010
4.00 .008
STATE OF MAINE
30
10.86 .024 SHAFT
1.16 .012
40
.52 T
.30 T
50
.56 .006
.78 .006
60
.80 T
5' 2.12 .017
2.12 .017
65
0.48
67'
No. 1 LEVEL 4606
No. 2 LEVEL 4577
S-67 ROAD
2.76
10
2.64
4615
20
0.40
100' to
@ Dip line 4625
30
O 7X22 155 2.70 4600
W 35X20/2 350
S-77 T
40'

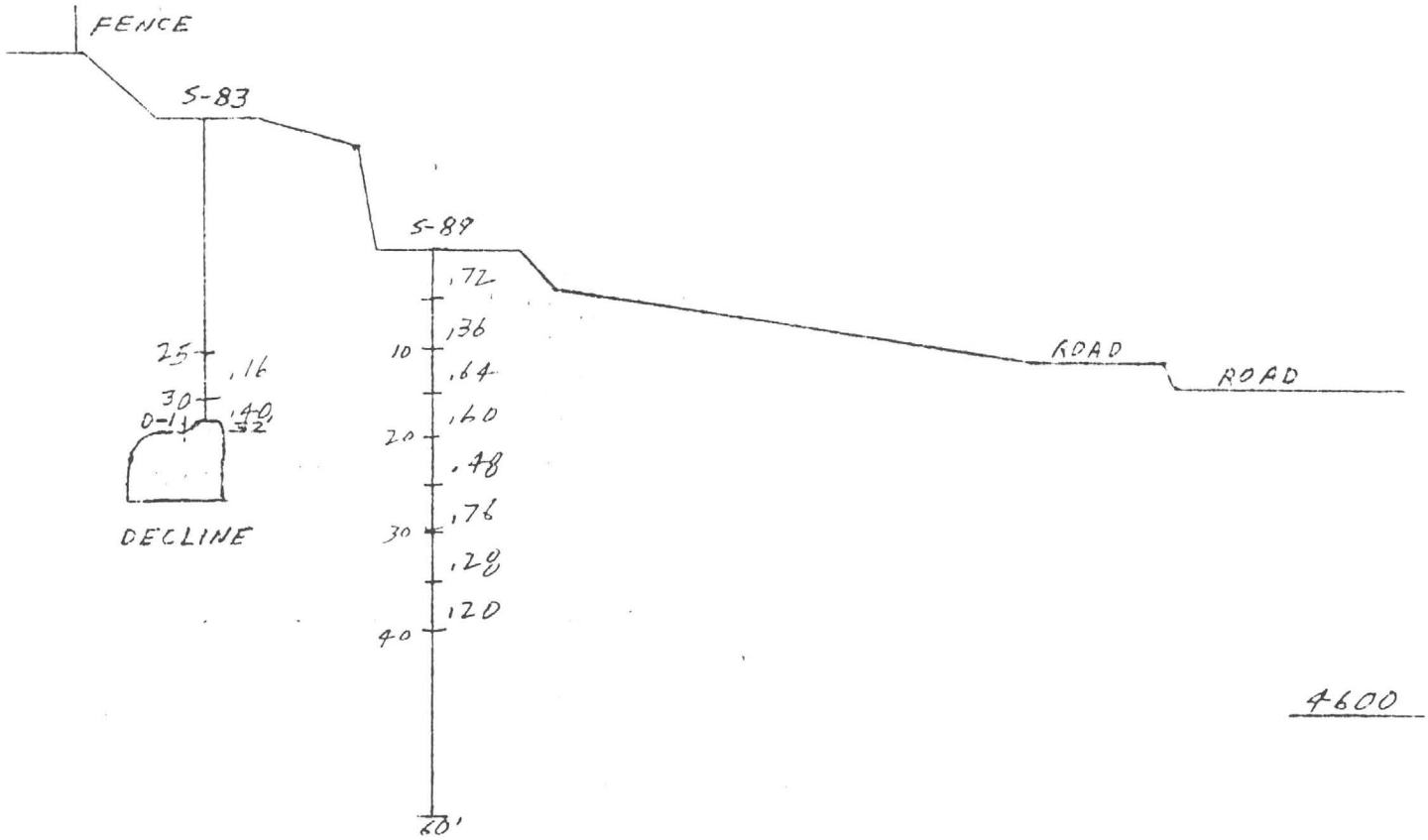

FENCE
S-78
10
20
30
40
.56 .003
.38 Tr
50
.82 .006
2.30 .012
60
.86 .014
20' 1.63 .010
1.88 .008
70
1.48 .006
.80 .003
80
.38 T
S-68
10
0.28
0.56
20
1.40
24'
ROAD
2.00
20' 1.63
4600
S-78


FENCE
S-79
S-69
5
10
15
20
40
1.36
1.64
1.56
1.10
ROAD
25
30
40
41'
40'
4600

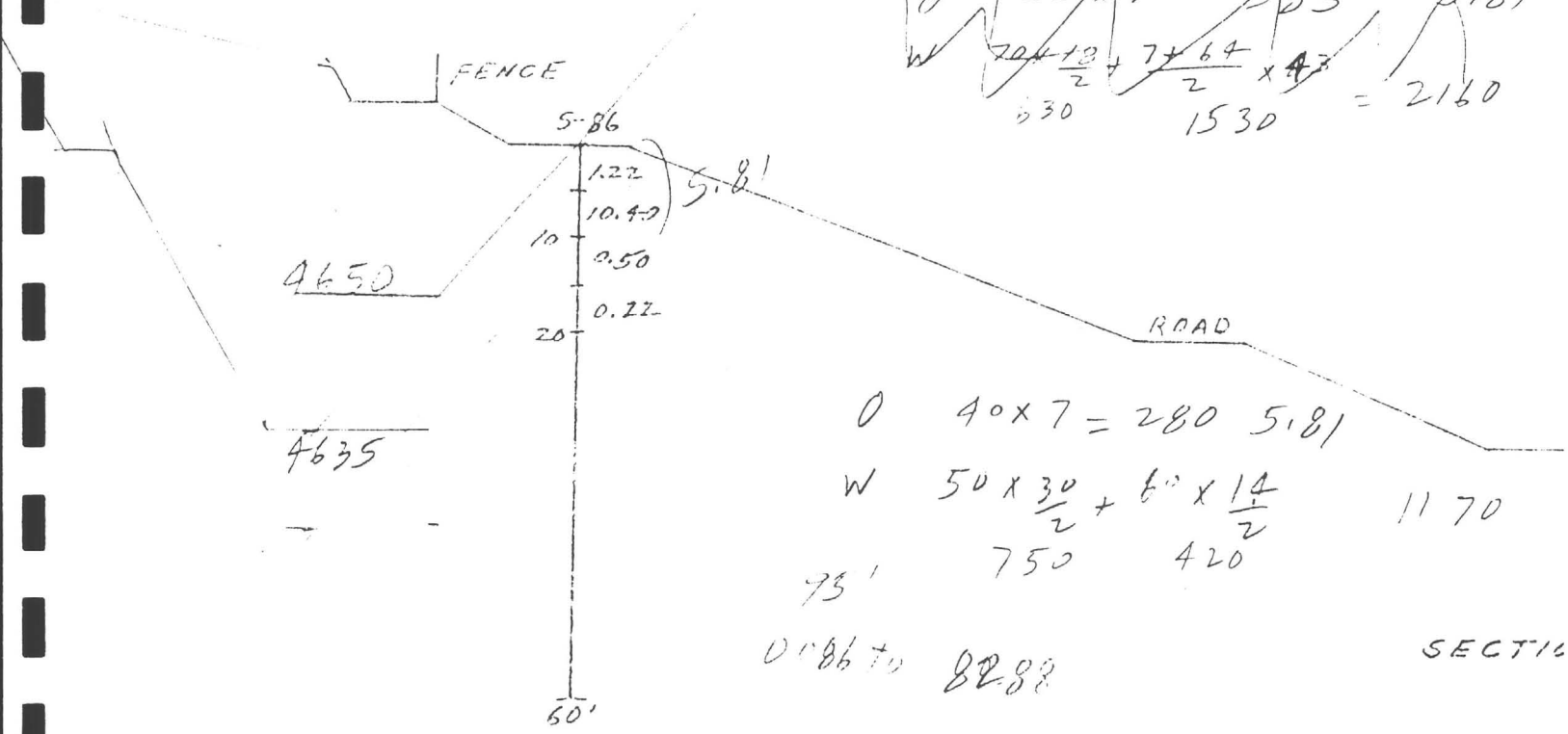

FENCE
S-80
ROAD
31'
4600


FENCE
S-81
S-87
4.96
0 25 x 4 100 3.10
W 26/2 x 50 650
0.28
0.12
10
0.32
1.24
SURFACE SAMPLE (N50E)
S-70
DECLINE
ROAD
30
0.20
31'
4600
0.52
40
0.60
0.60
50
0.48
65
SECTION S-8187


FENCE
S-82
S-88
0 32x7 225 2.26
W 86x26/2 + 80x22/2 1780
1120 660
5
.88
10
.28
15
1.10
16
1.16
5'
1.16 = 5.80
30
0.64
35
4625
DECLINE
2.26
ROAD
4' 4.17 16.68
3' 0.80 240 = 2.73
19.08
SECTION S-0082
4600


FENCE
S-83
S-89
25
.16
30
.40
0-1
.32
DECLINE
.72
10
.136
.64
.160
20
.48
.176
30
.128
.120
40
60'
ROAD
ROAD
4600

SECTIO



O 55 x 7 385 T 5.81

W ~~70 + 18/2 + 7 + 64/2 x 47~~ = 2160

630 1530

O 40 x 7 = 280 5.81

W 50 x 30/2 + 60 x 14/2 1170

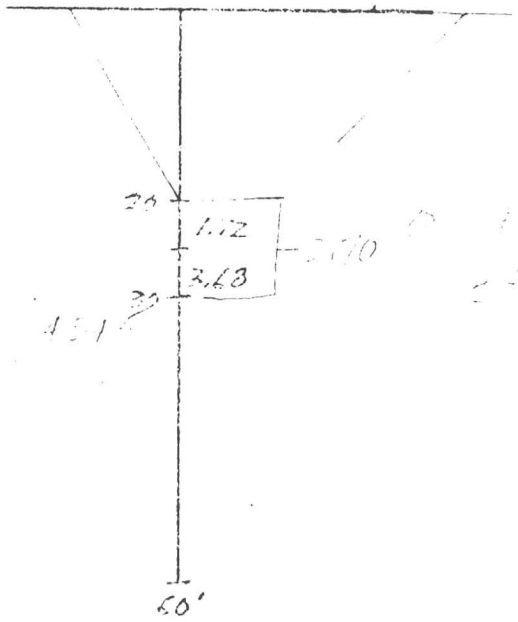
75' 750 420

0'86 to 82.88

SECTIO

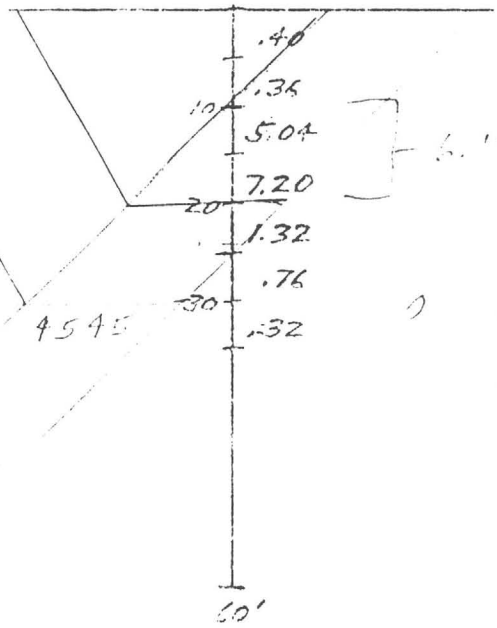
V 12

S-44



4550

S-45



4550

4545

Ove 16x20' 320 ft²

Depth $\frac{20}{2} \times 32 = 320$ ft³

45 x 11 = 495 4.52

$45 \times \frac{30}{2} = 720$

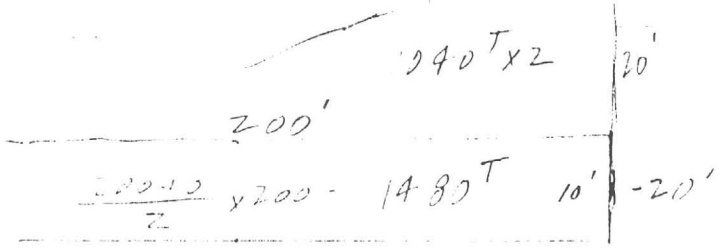
120' Ramp 0 4.2 1190

FRAP To 20' depth

3560 Tons

200' X 10' wd @ bot

X 10% grade



LINDROOS LABORATORIES

GARY A. & NAOMI B. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 29, 1984

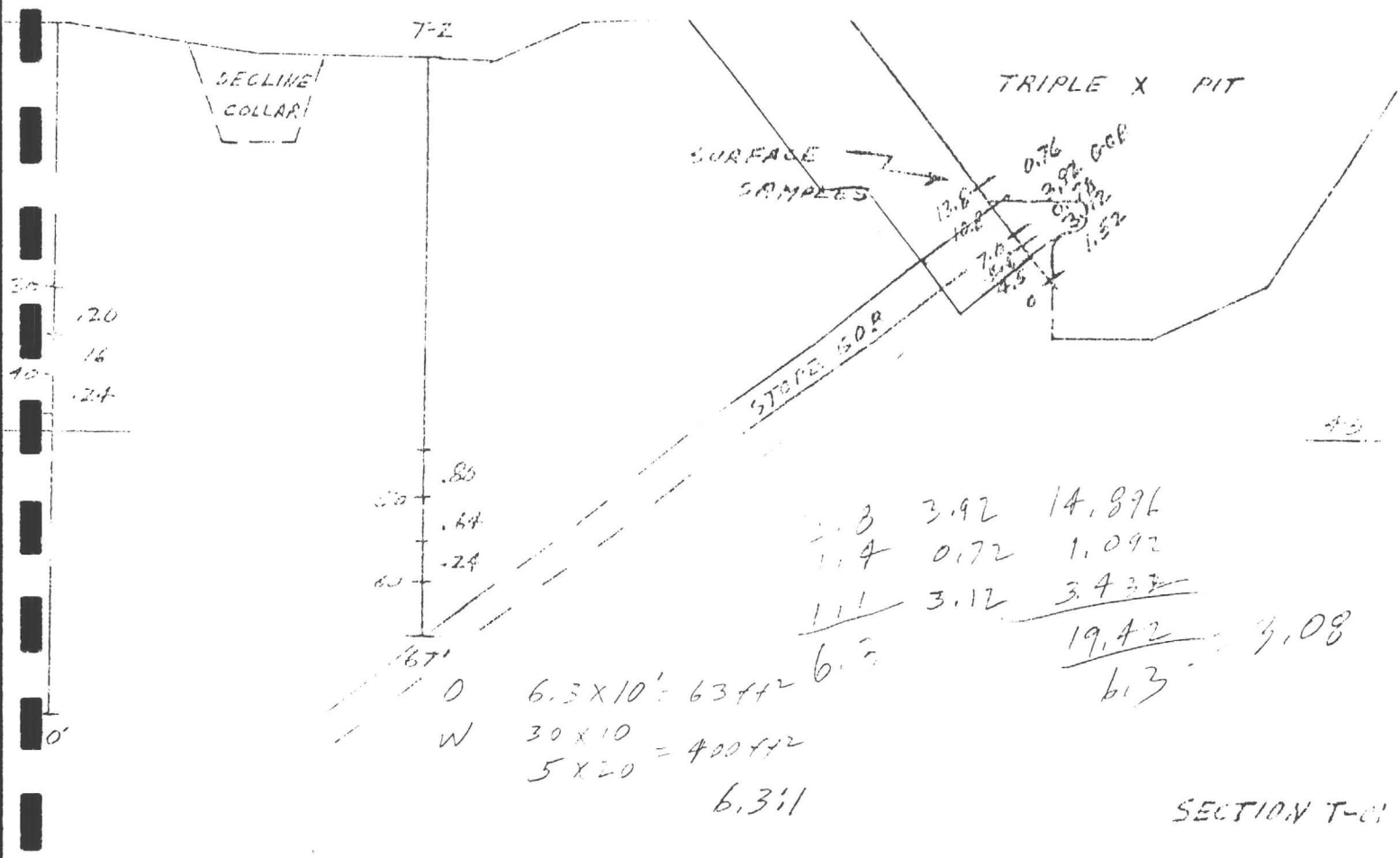
Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

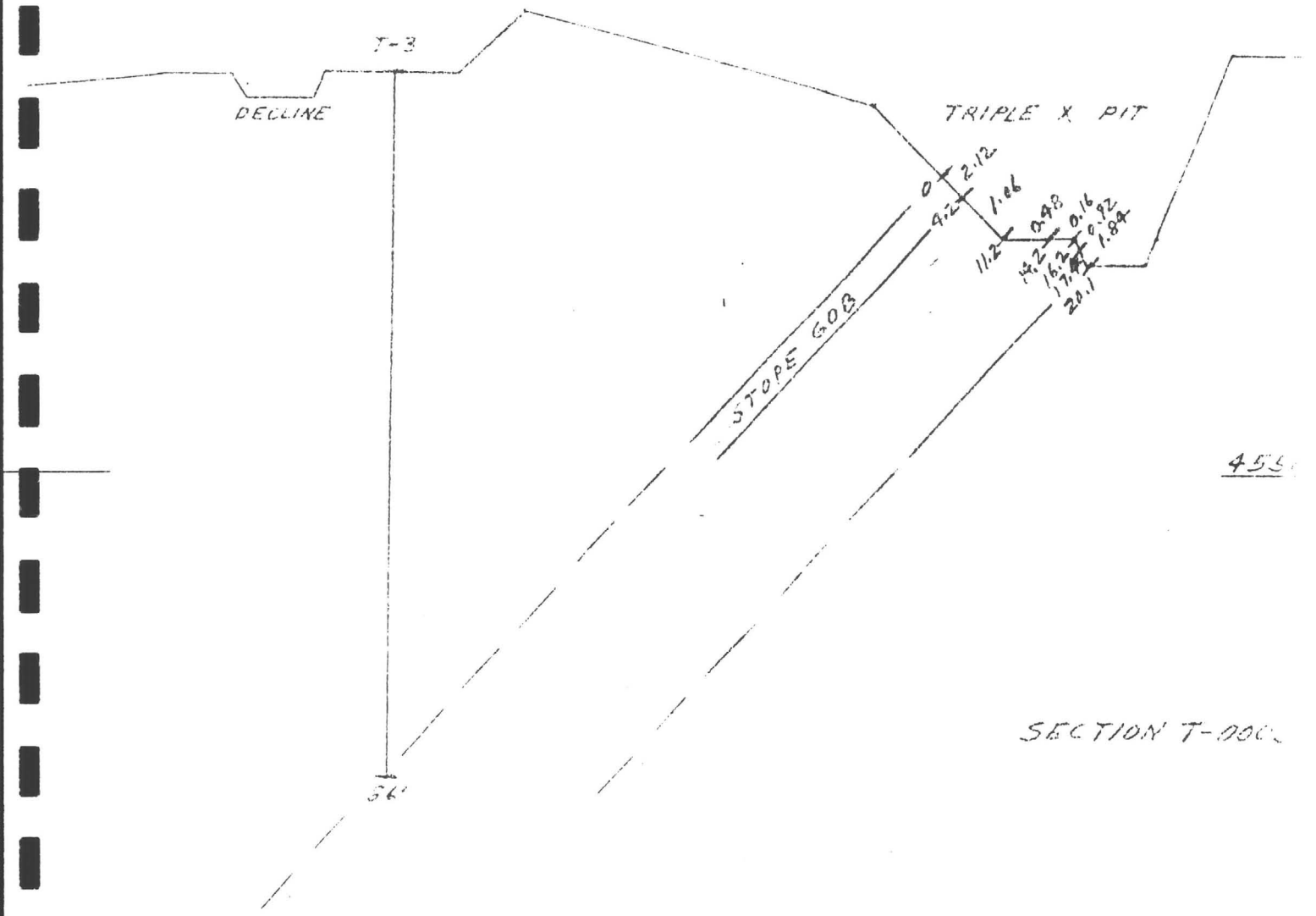
CERTIFICATE OF ANALYSIS

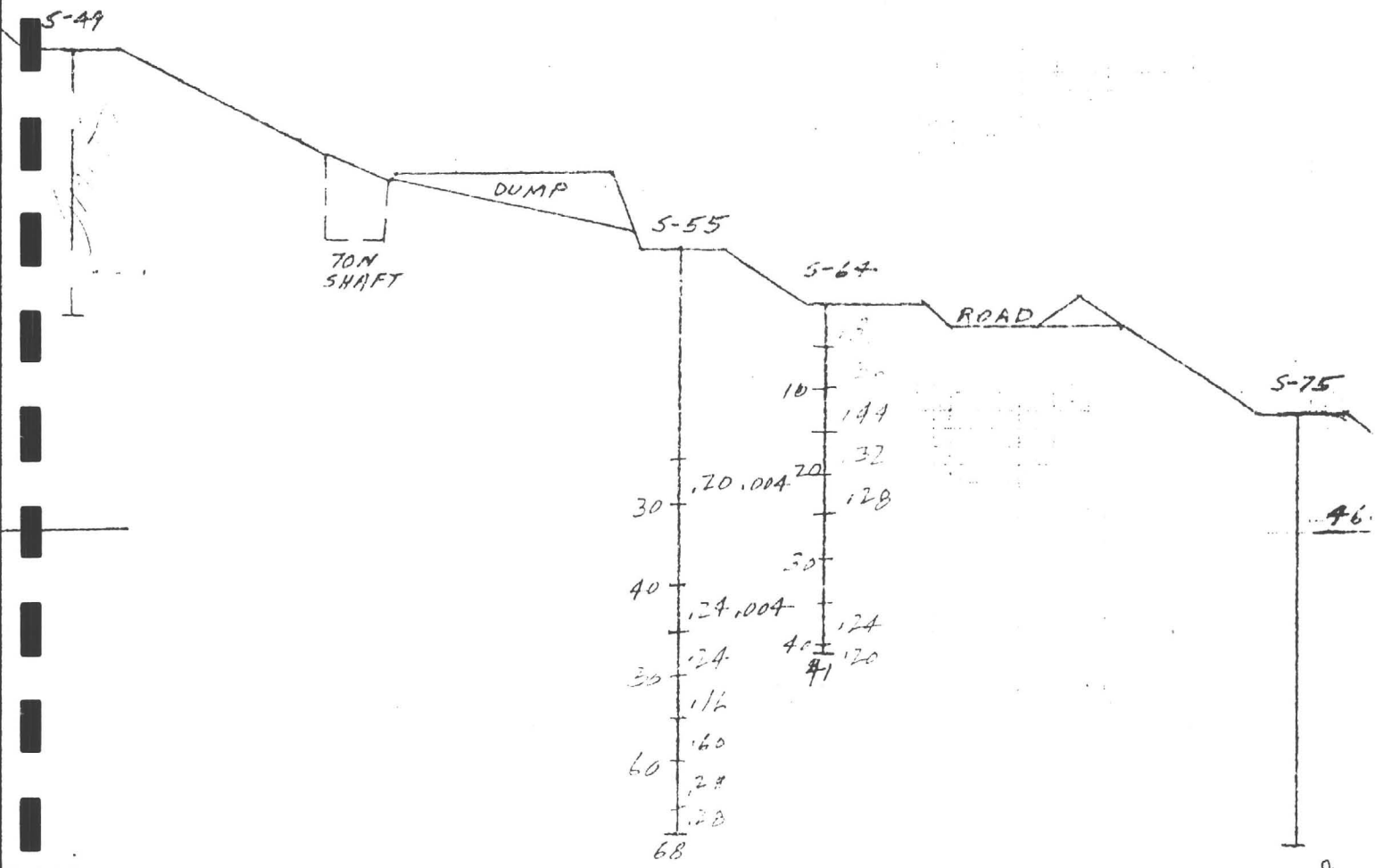
Sample Identification	Ag Oz/T	Au Oz/T				
SV 1 Pit 0-3'	1.16	0.008	0.22			
SV 3 Pit 0-3'	0.04	trace	0.10			
#1 Lev #1 0-3'	1.32	0.008	0.60			
#1 Lev #2A 0-2'	0.64	0.004	0.20			
#1 Lev #2B 2'-3'	1.68	0.016	0.64			
#2 4A 0-6'	0.28	0.004	0.10			
#2 4B 6-8'	0.24	0.004	0.08			
#2 4C 8-16'	0.60	0.008	0.08			

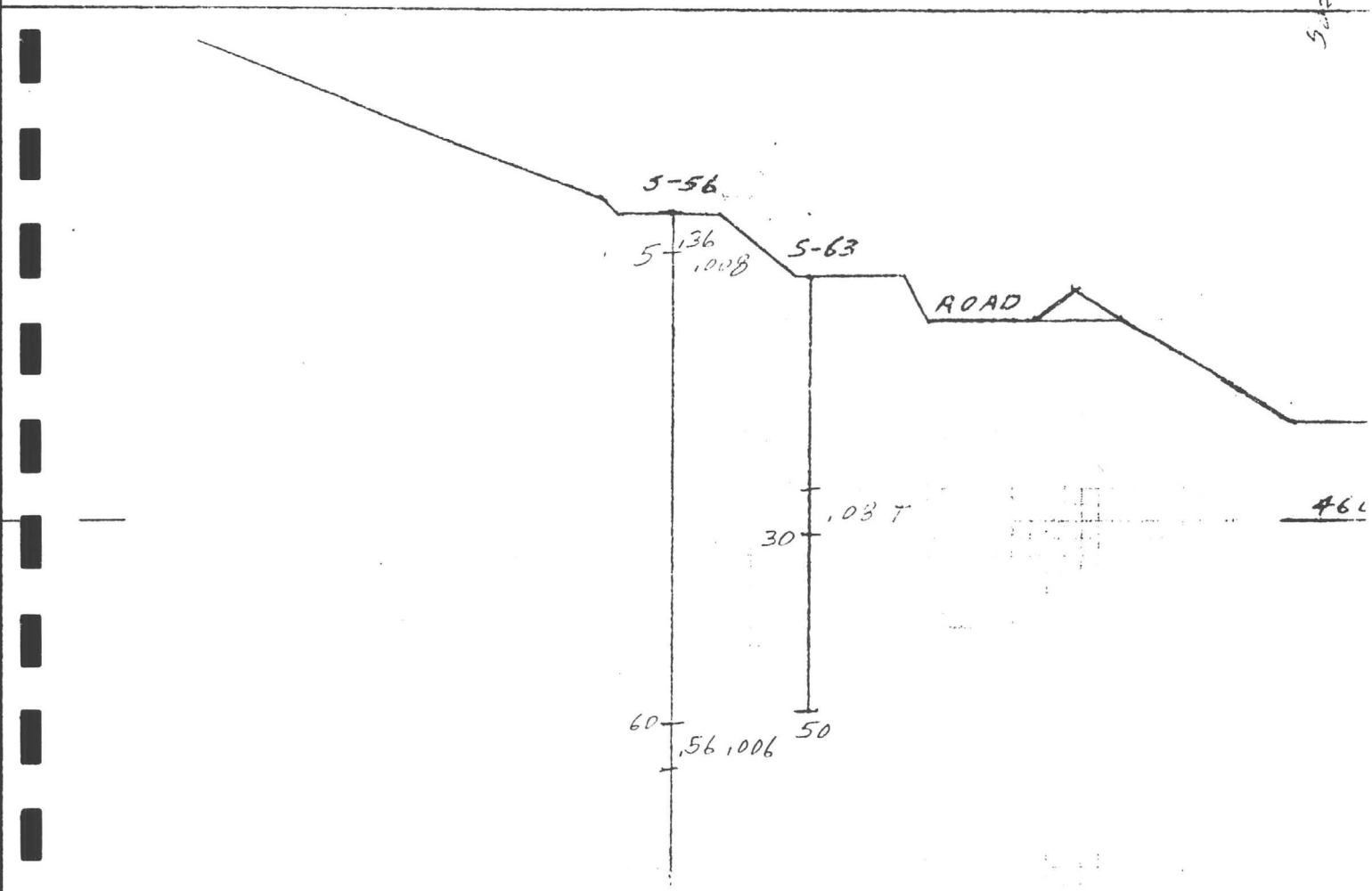
Method of Analysis: Geochemical

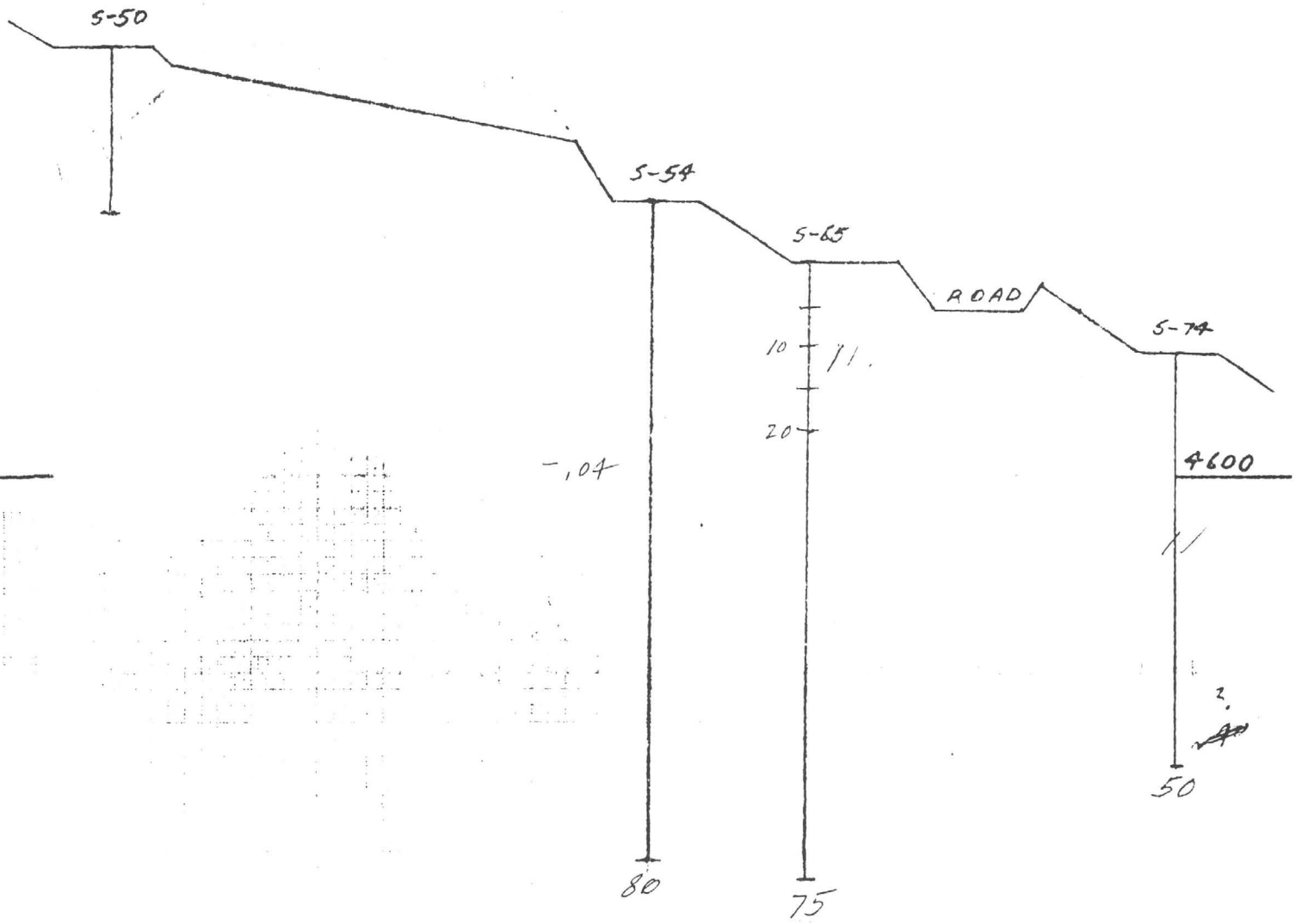
REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-29-84
ARIZONA, U.S.A.

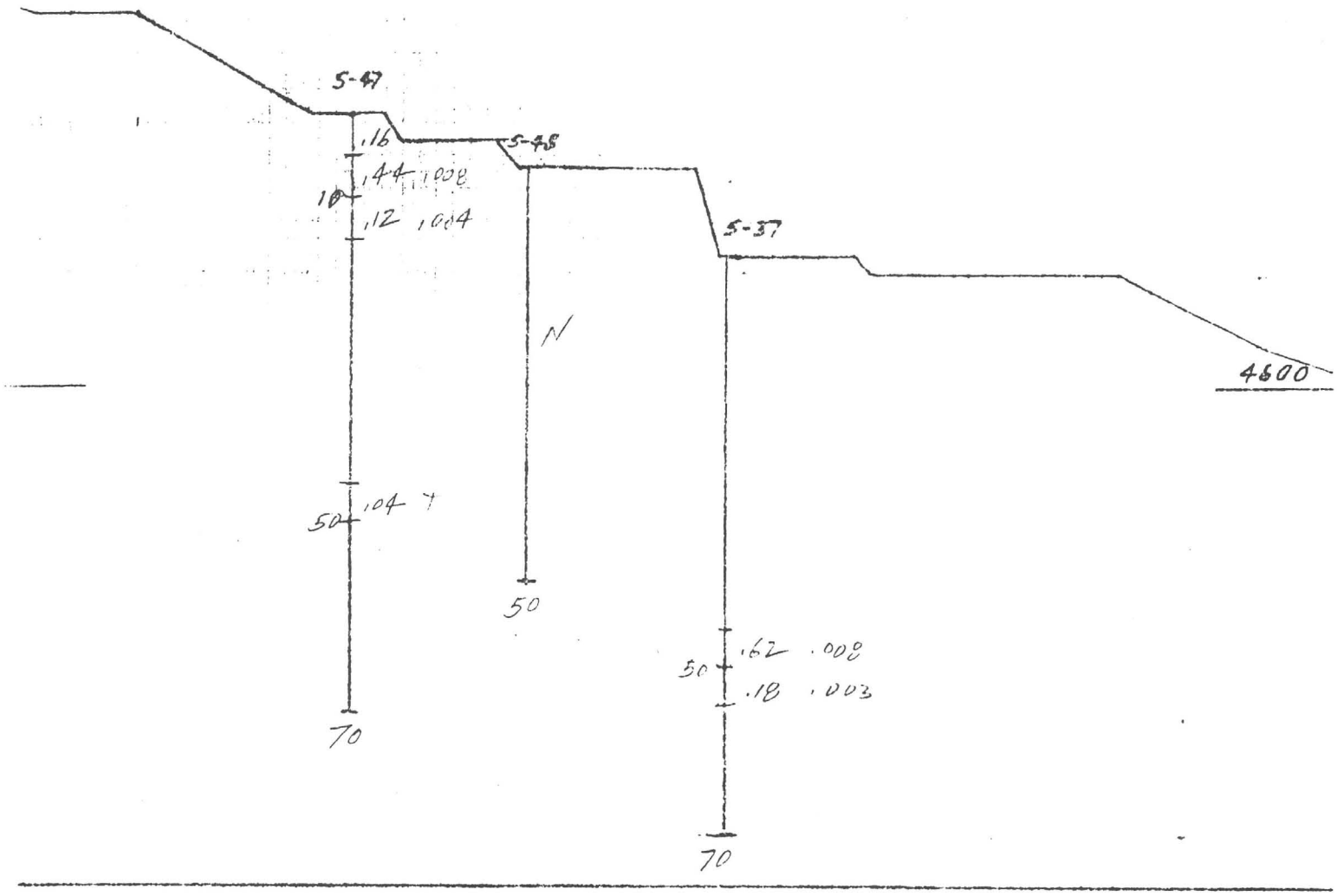

T-2
DECLINE COLLAR
TRIPLE X PIT
SURFACE SAMPLES
STOPE GOB
.20
.16
.24
.80
.64
.24
87'
0'
3.92 14.896
0.72 1.092
3.12 3.432
19.42 = 3.08
6.3
O 6.3 X 10' = 63 ft²
W 30 X 10
5 X 20 = 400 ft²
6.311
SECTION T-C

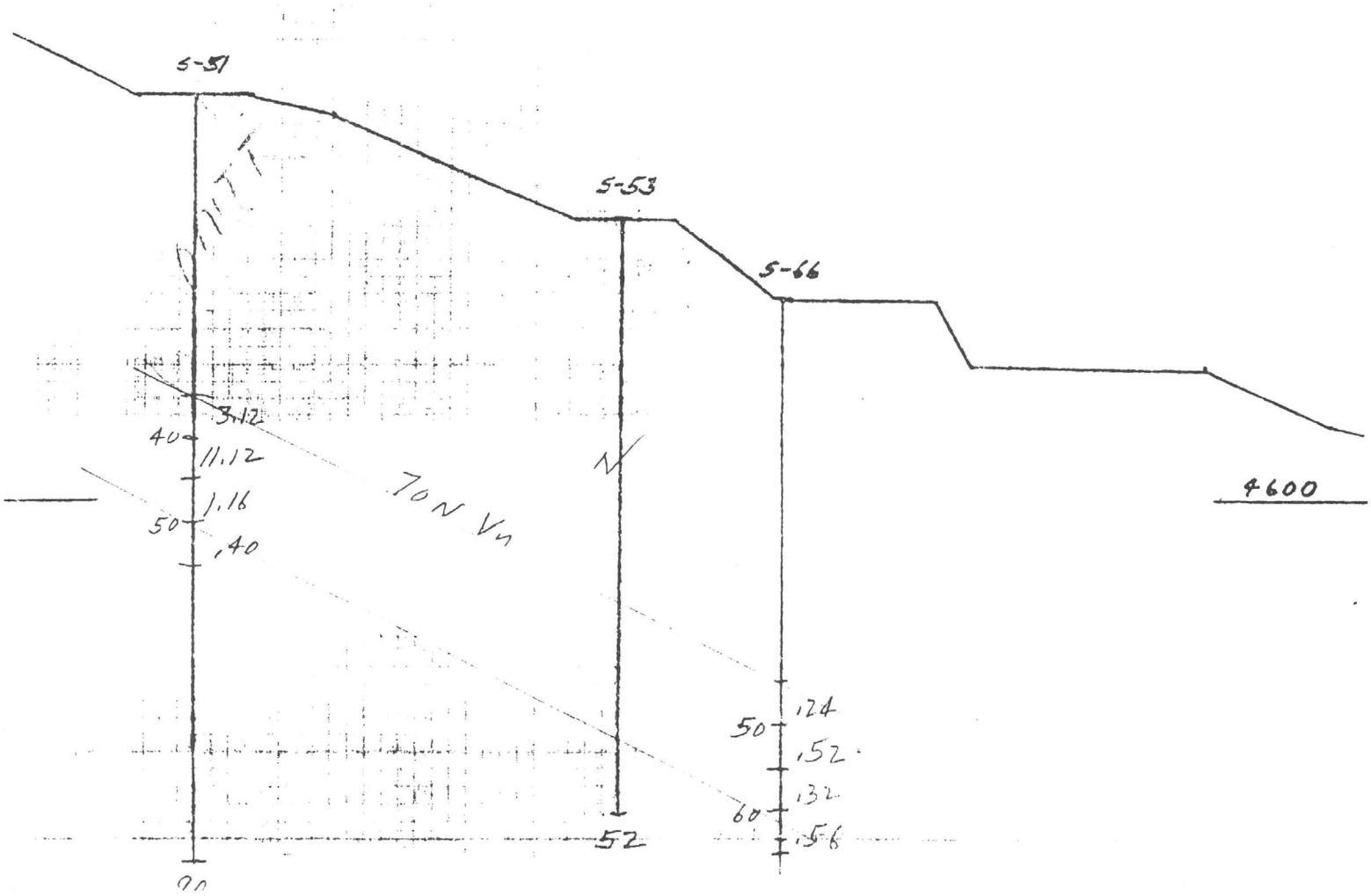

T-3
DECLINE
TRIPLE X PIT
STOPE GOB
2.12
1.06
0.48
0.16
0.92
1.84
SECTION T-DDC
56'

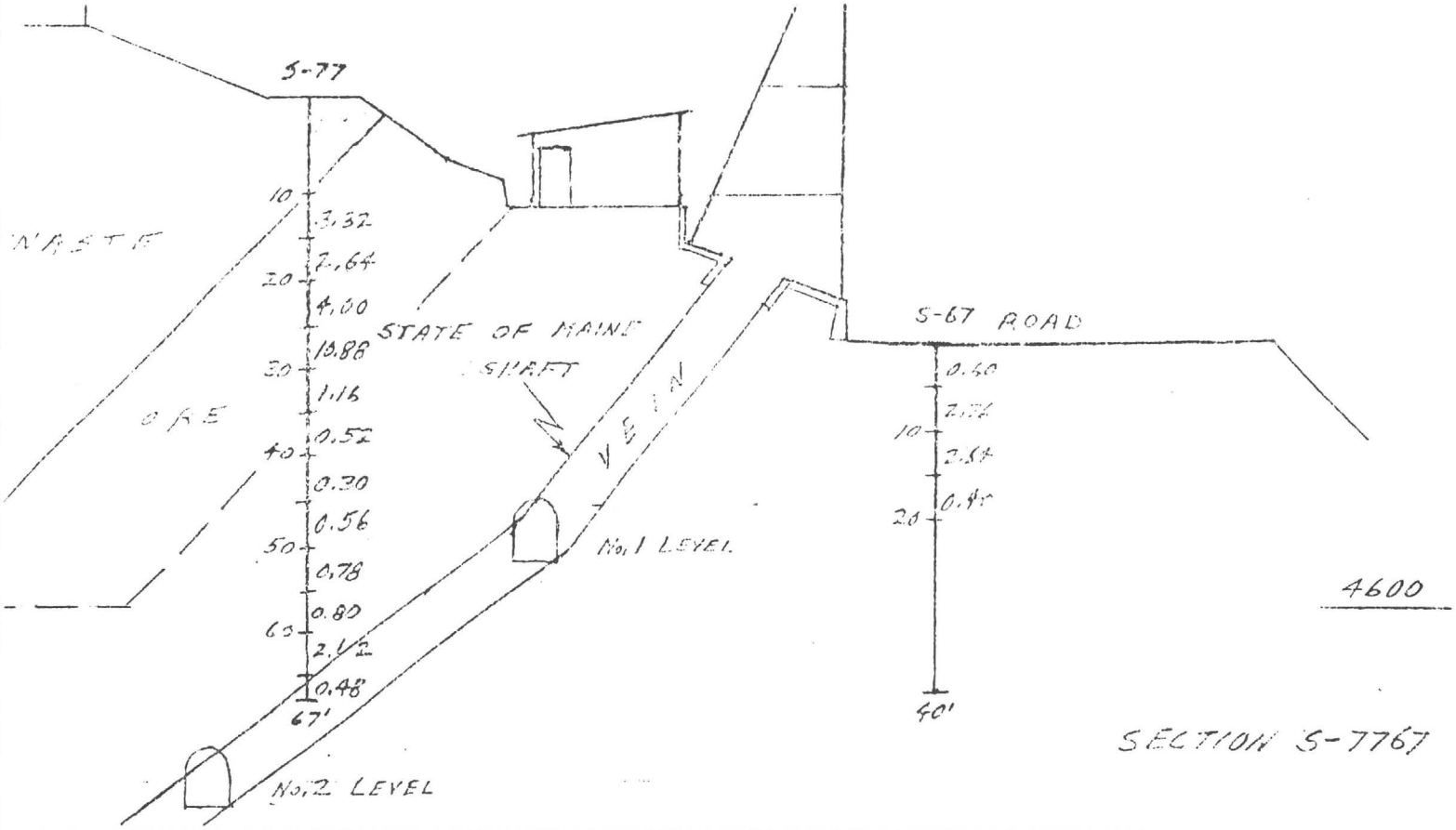

S-49
DUMP
70N SHAFT
S-55
S-64
ROAD
S-75
10
.144
.32
20
.128
30
.20 .004
40
.24 .004
.24
.160
60
68
.24
.120
41
46


S-56
5
.136
.008
S-63
ROAD
30
.03 T
60
.56 .006
50
46

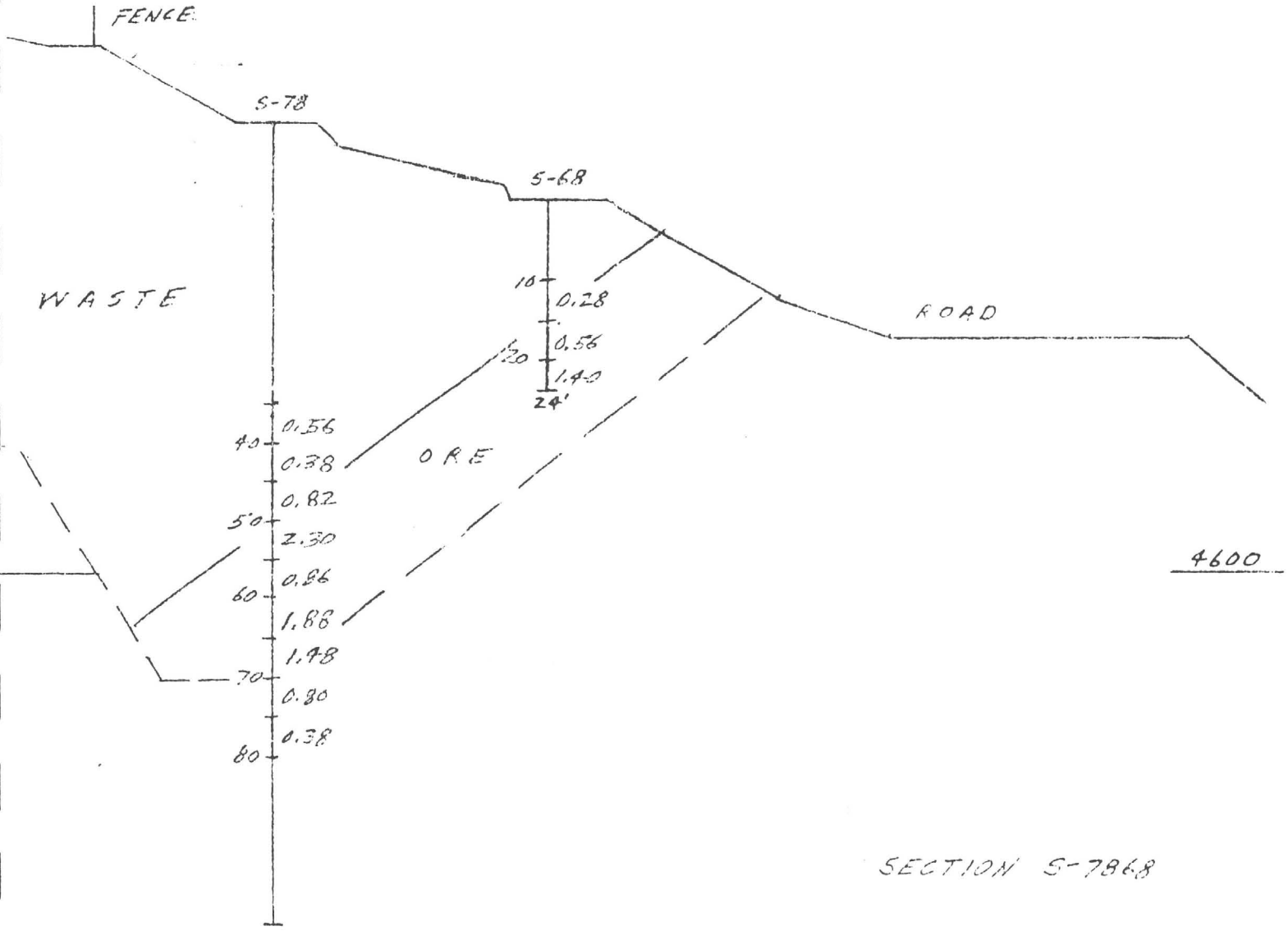

S-50
S-54
S-65
ROAD
S-74
10
20
4600
80
75
50


5-47
.16
.14
.008
10
.12
.004
5-48
5-37
N
4600
50
.04
50
.62
.008
.18
.003
70
70

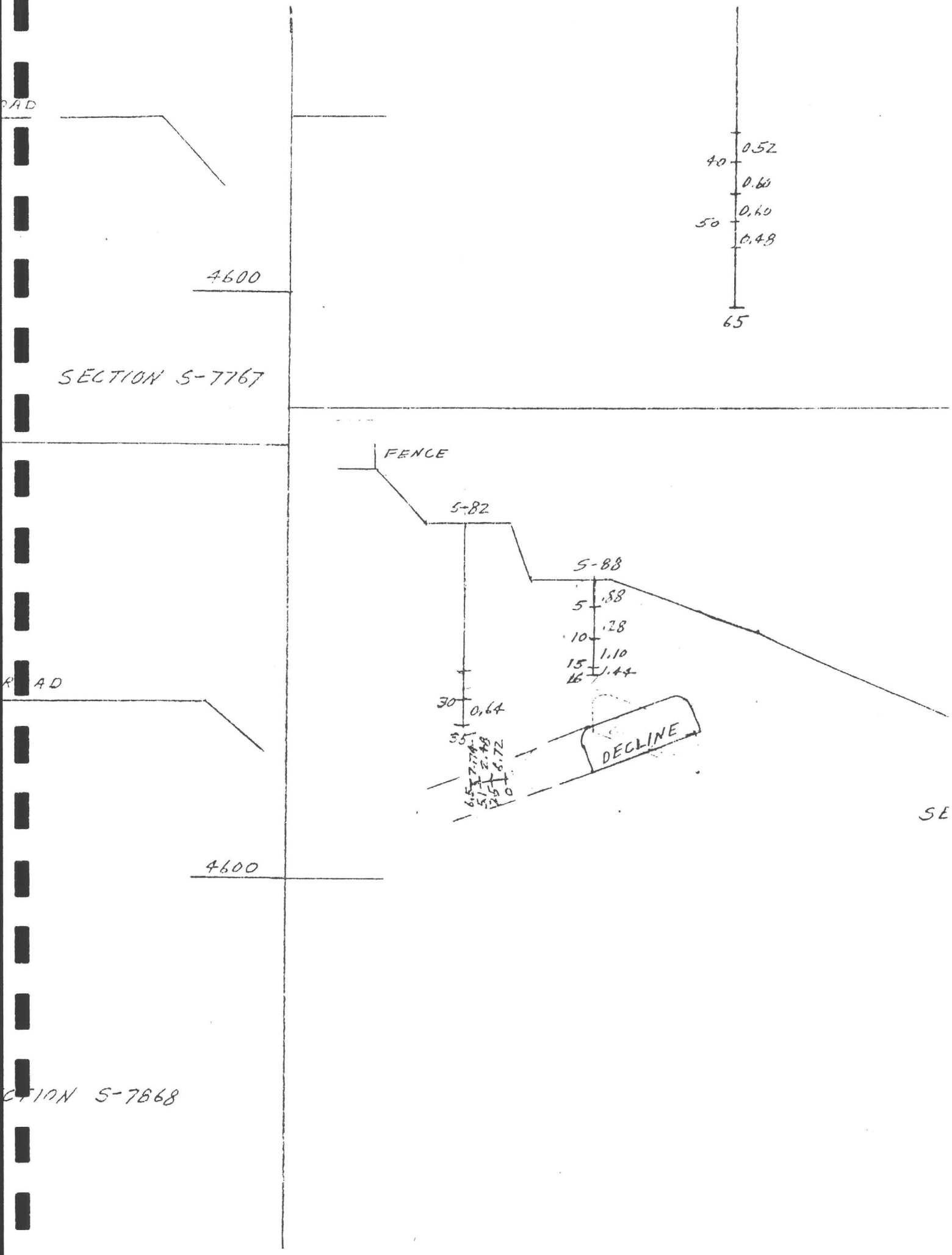

5-51
5-53
5-66
3.12
40
11.12
1.16
50
.40
70 N Vn
N
4600
50
.24
.52
60
.32
.56
52
70

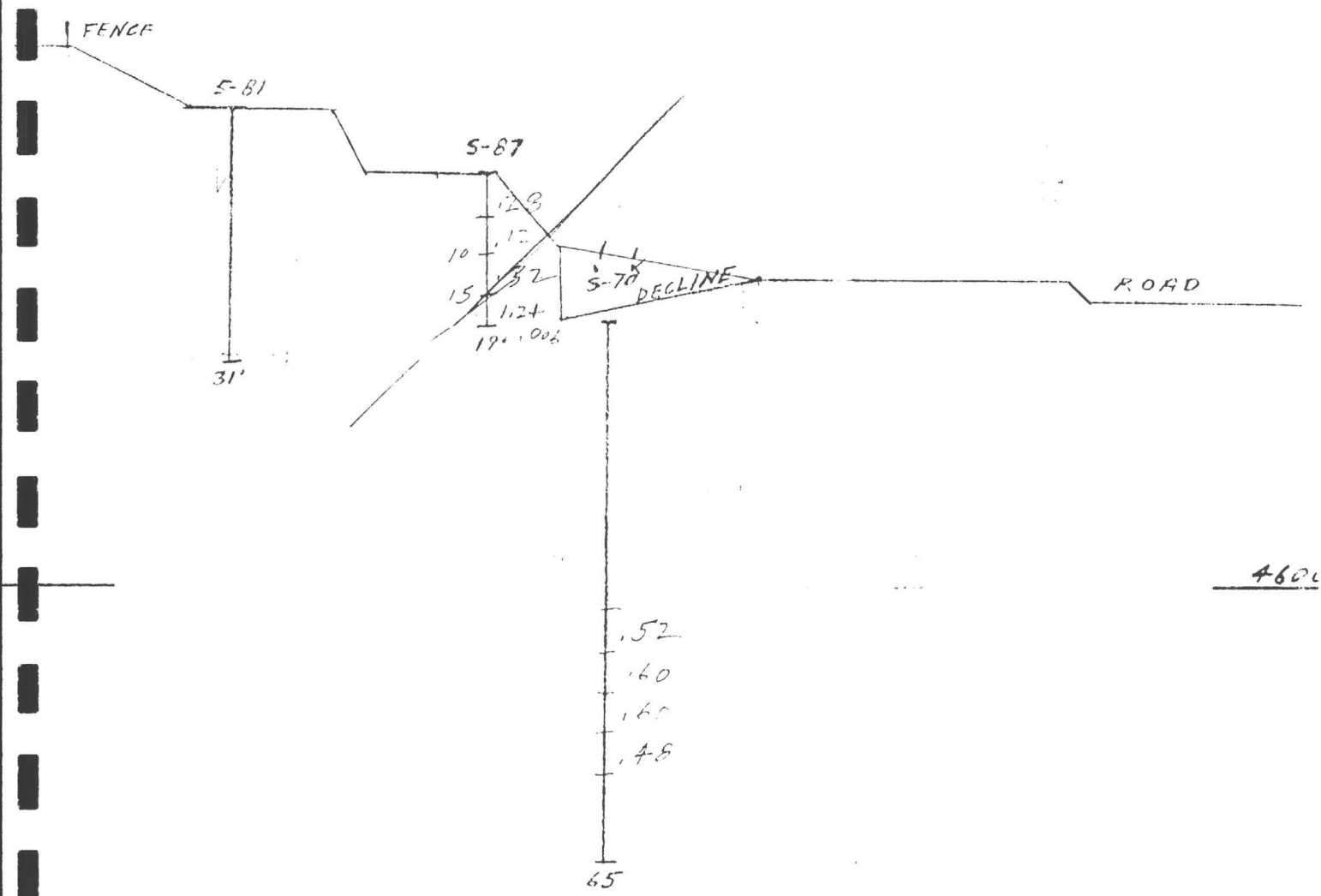


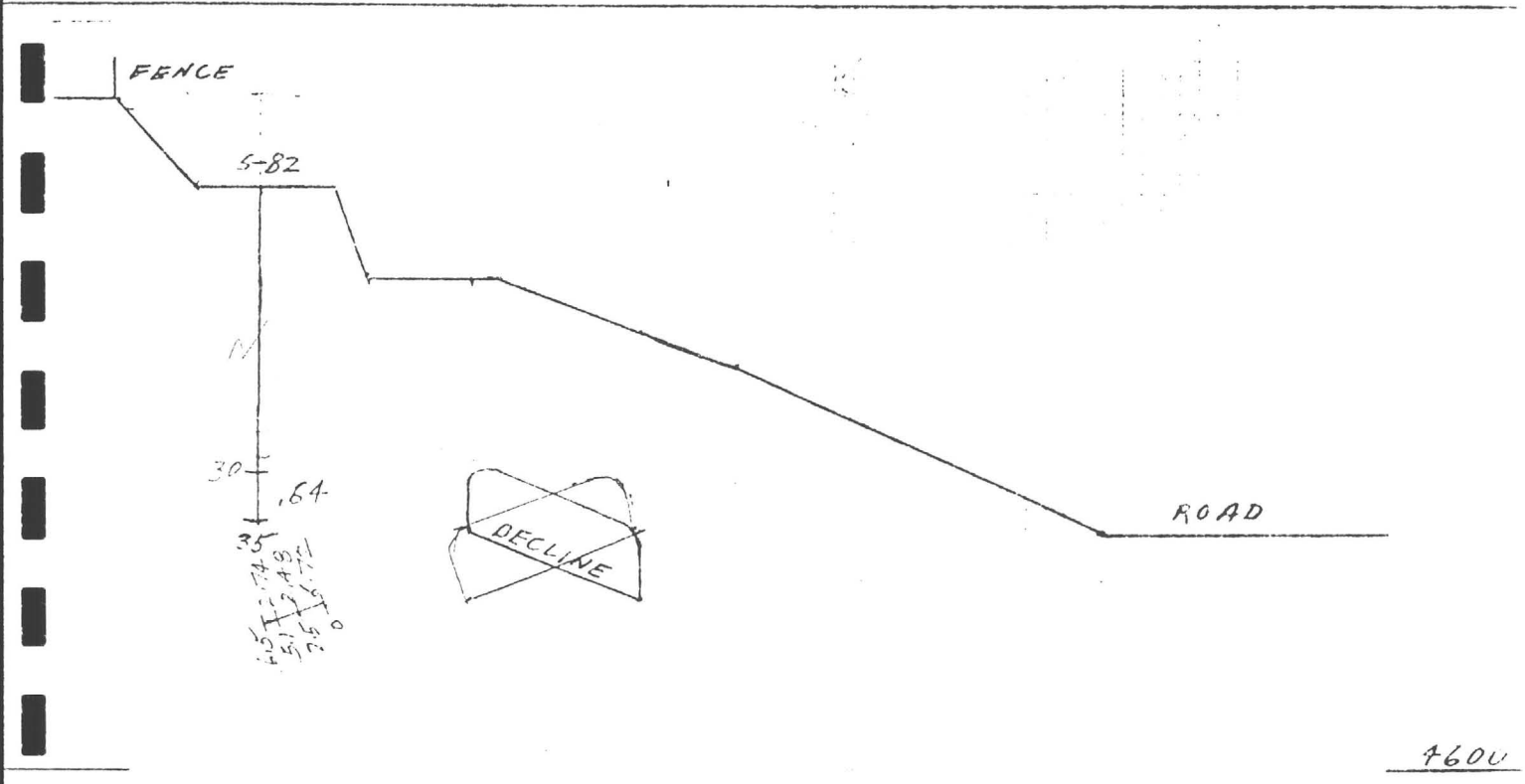
SECTION S-77-67

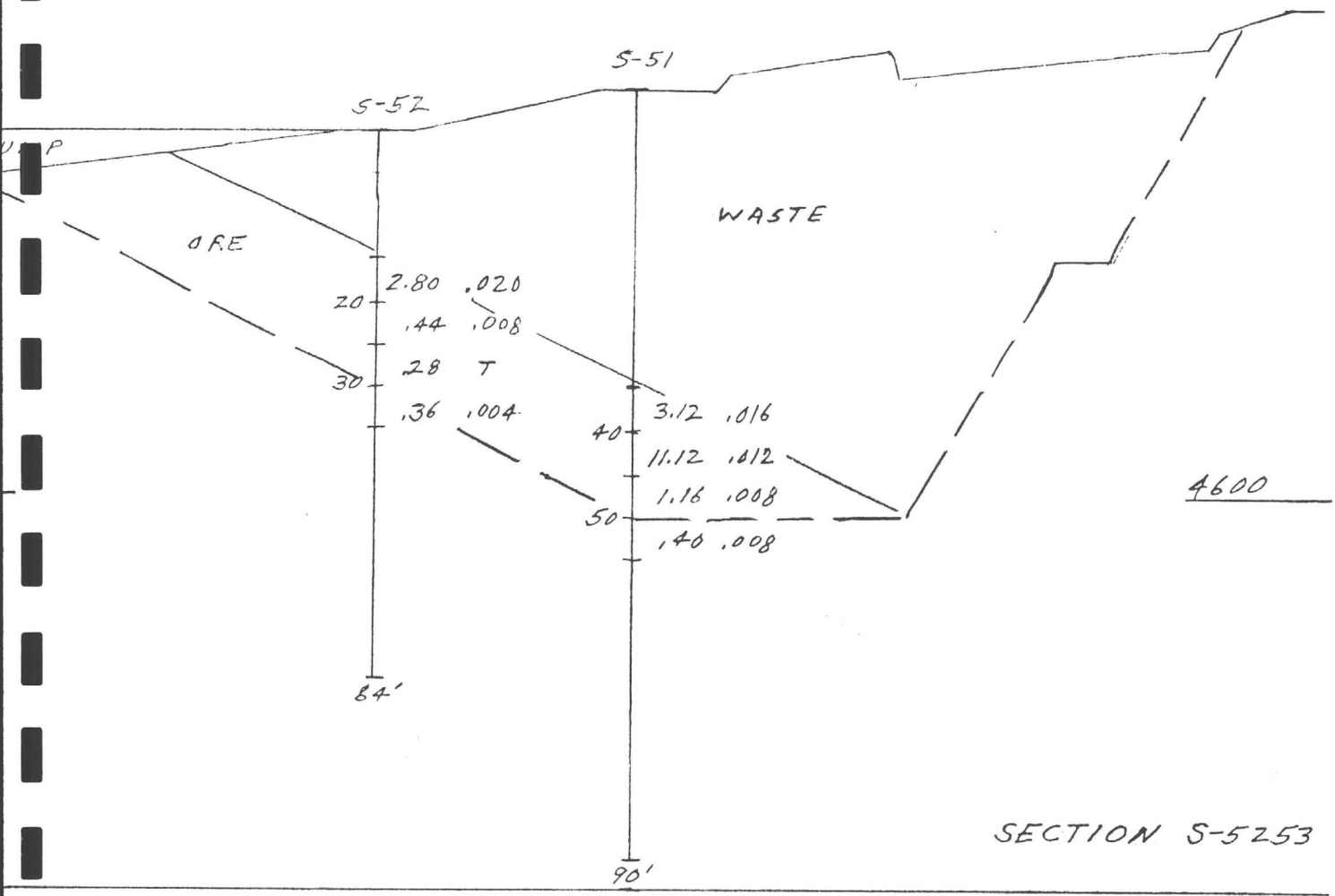


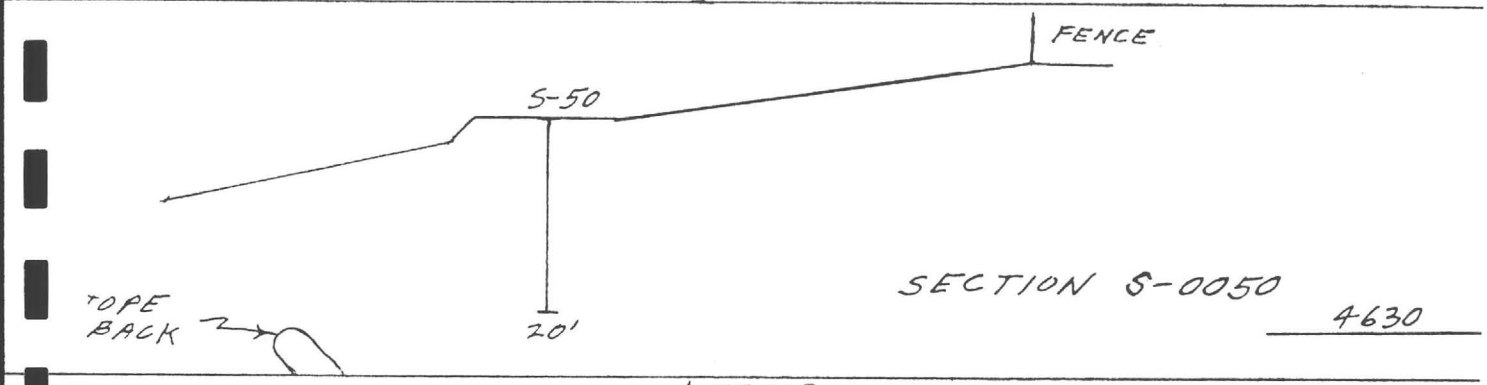
SECTION S-78-68

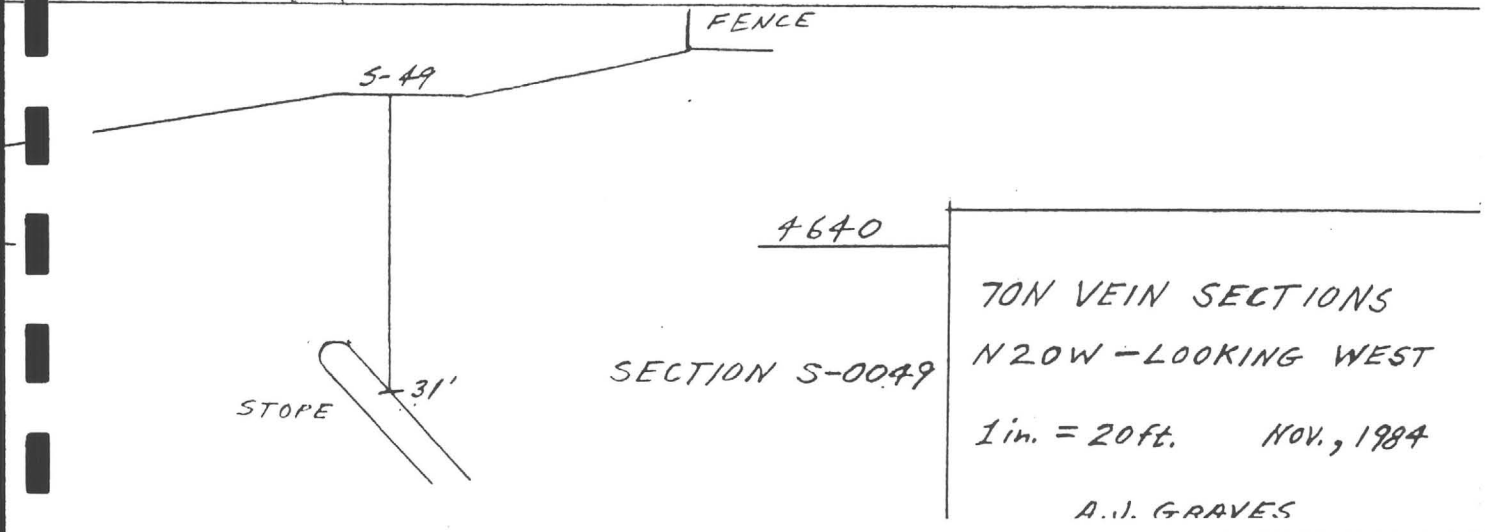

AD
4600
SECTION S-7767
0.52
40
0.60
0.60
50
0.48
65
FENCE
S-82
S-88
5
.88
10
.28
15
1.10
16
1.44
30
0.64
35
DECLINE
R AD
4600
SE
CTION S-7668


FENCE
5-81
5-87
10
15
19
31'
5-70
DECLINE
ROAD
.52
.60
.46
65
4600


FENCE
5-82
30
.64
35
DECLINE
ROAD
4600







70N VEIN SECTIONS

N20W – LOOKING WEST

1 in. = 20 ft. NOV., 1984

A.J. GRAVES

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 29, 1984

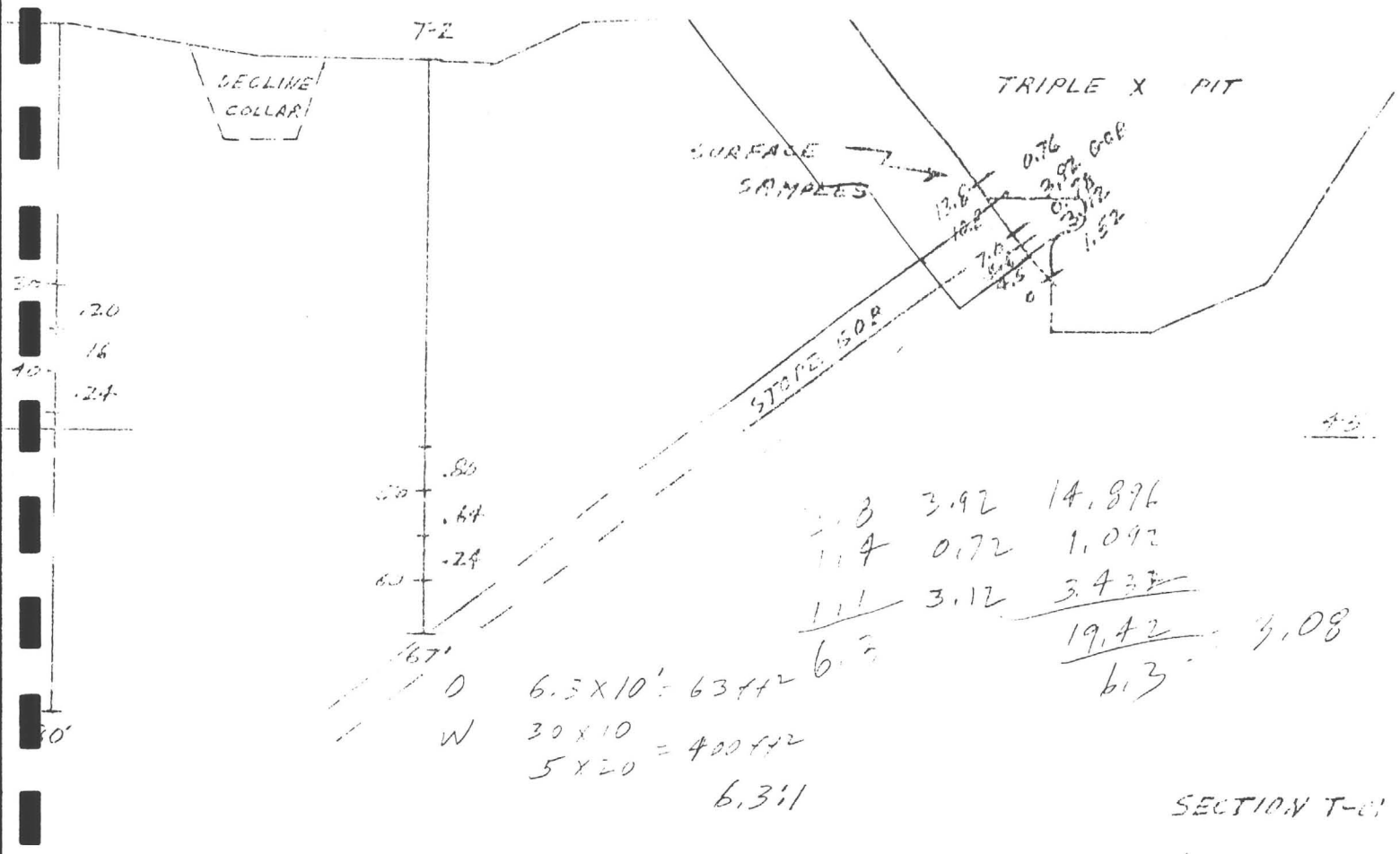
Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

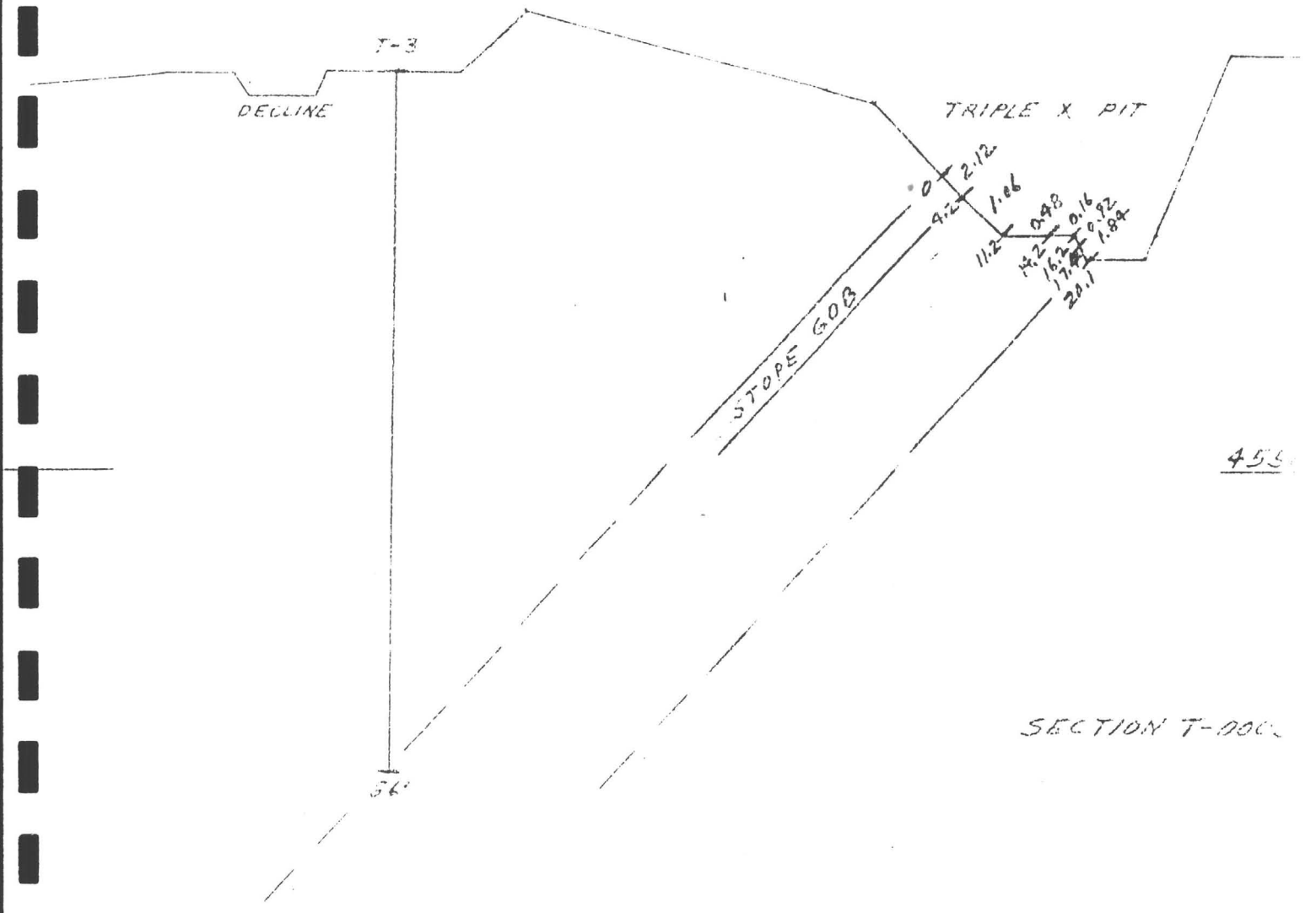
CERTIFICATE OF ANALYSIS

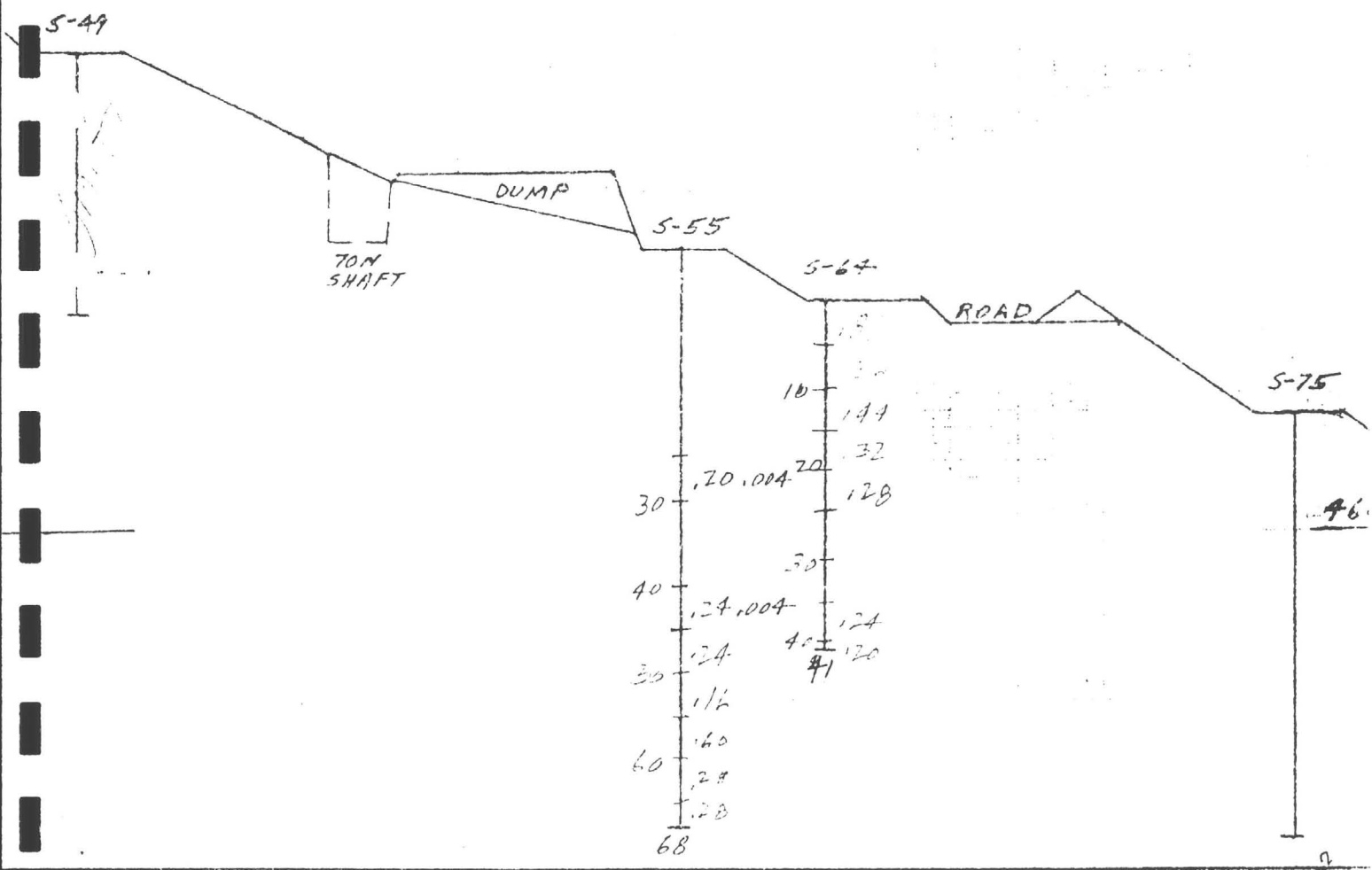
Sample Identification	Ag Oz/T	Au Oz/T				
SV 1 Pit 0-3'	1.16	0.008	0.22			
SV 3 Pit 0-3'	0.04	trace	0.10			
#1 Lev #1 0-3'	1.32	0.008	0.60			
#1 Lev #2A 0-2'	0.64	0.004	0.20			
#1 Lev #2B 2'-3'	1.68	0.016	0.64			
#2 4A 0-6'	0.28	0.004	0.10			
#2 4B 6-8'	0.24	0.004	0.08			
#2 4C 8-16'	0.60	0.008	0.08			

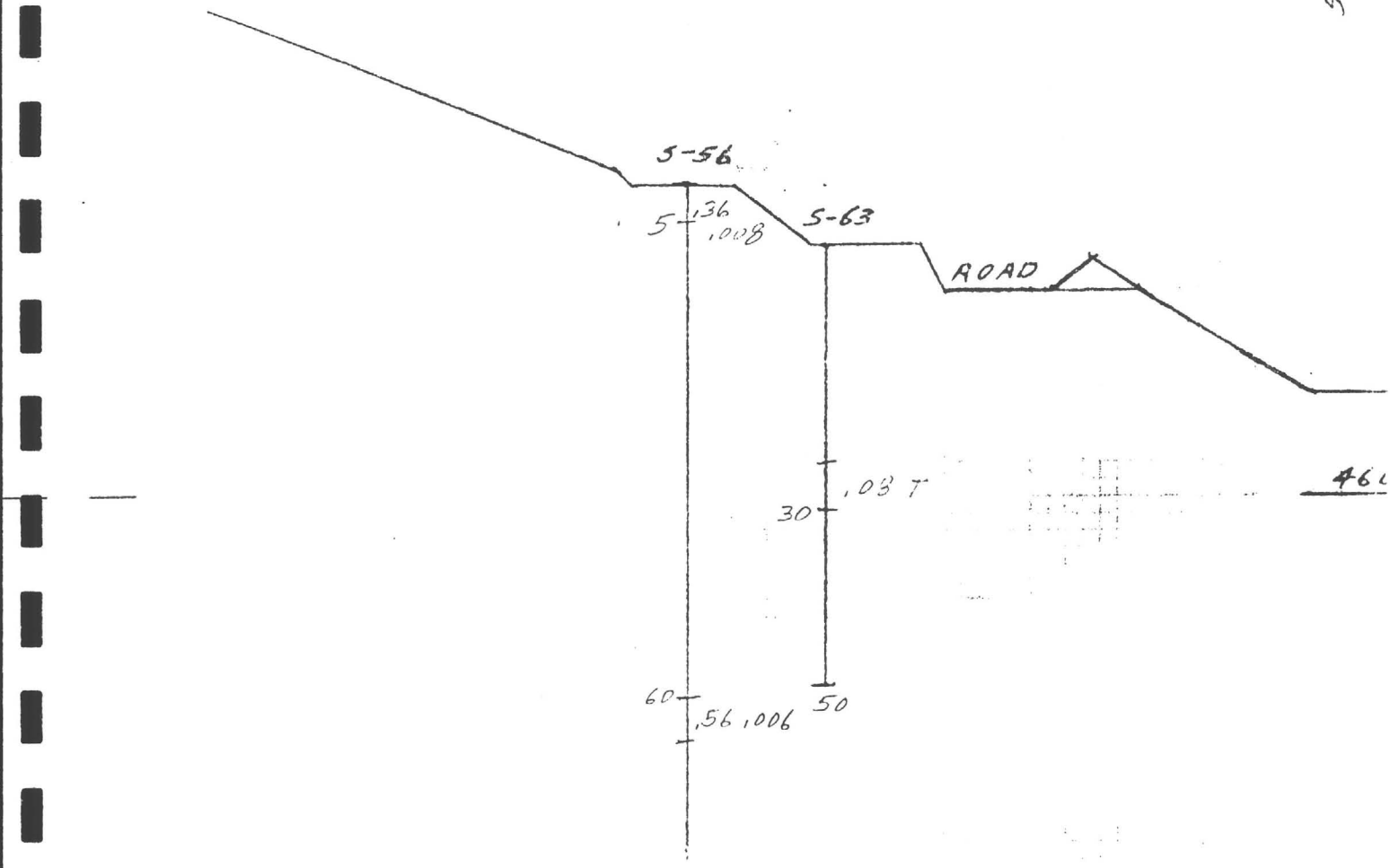
Method of Analysis: Geochemical

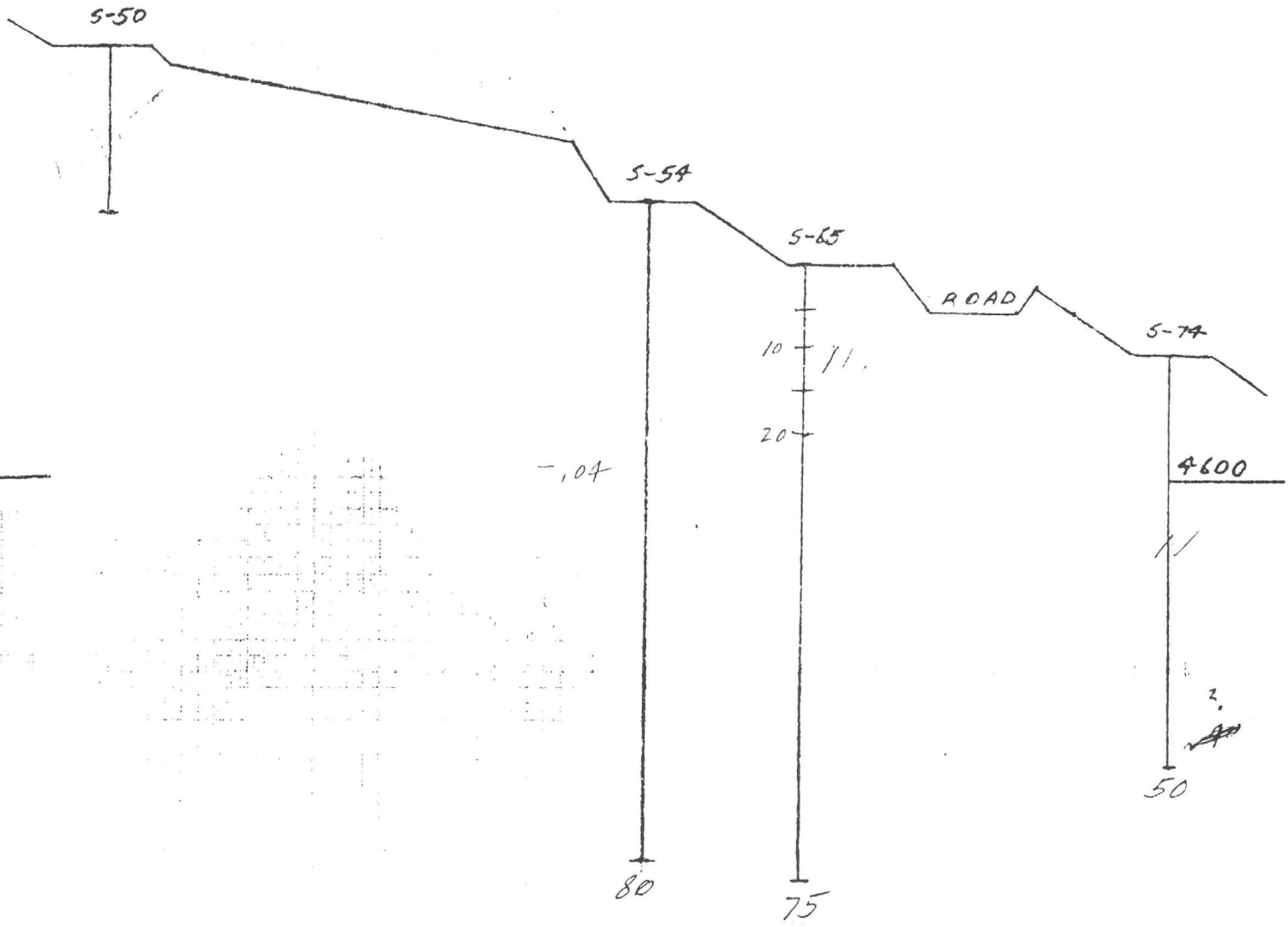
REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-29-84
ARIZONA, U.S.A.

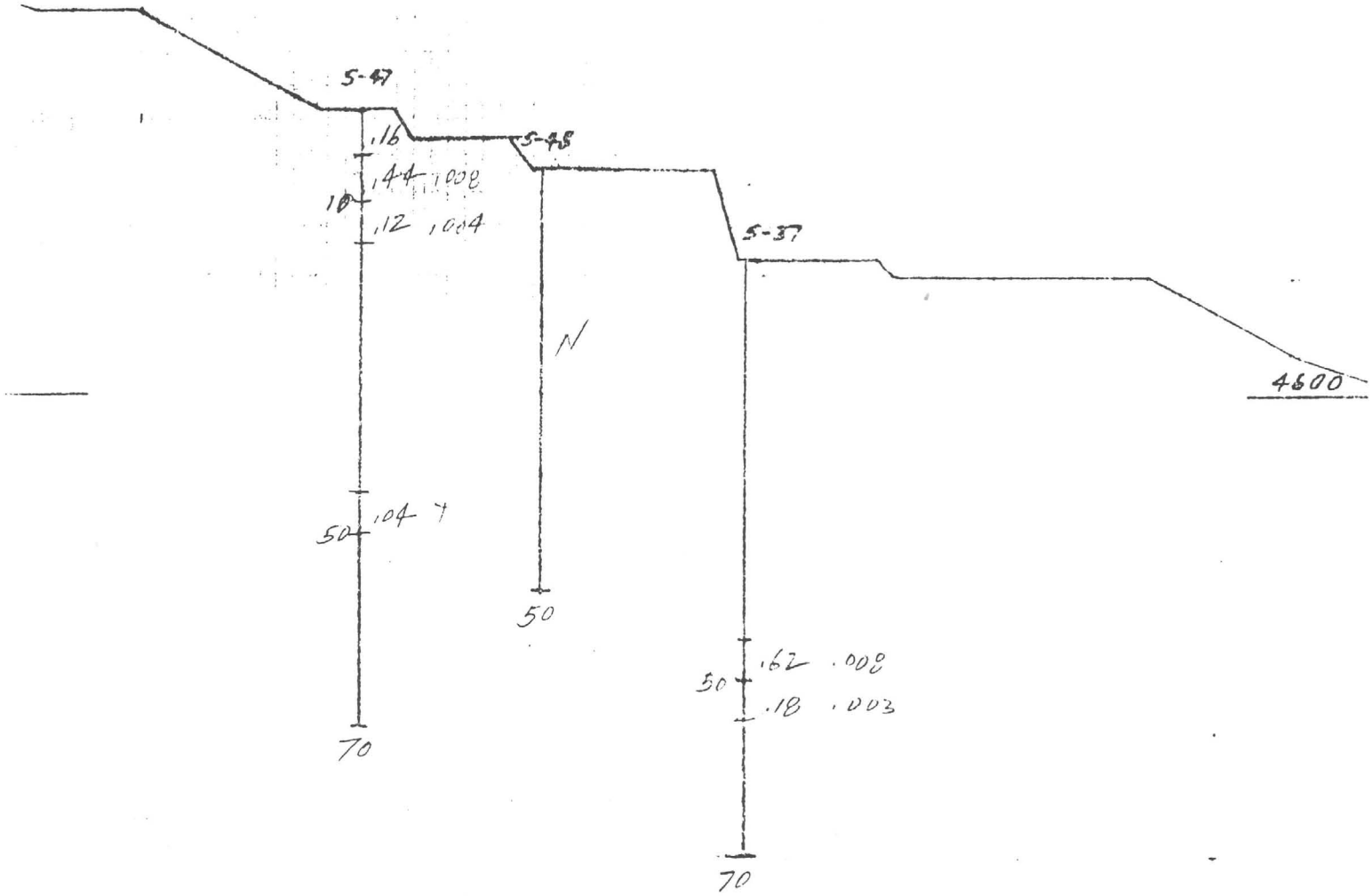

T-2
DECLINE COLLAR
TRIPLE X PIT
SURFACE SAMPLES
STOPE GOB
.20
16
.24
.80
.64
.24
87'
20'
0 6.5X10' = 63 ft²
W 30X10
5X20 = 400 ft²
6.311
3.92 14,896
0.72 1,072
3.12 3,432
19,42
3.08
6.3
SECTION T-0

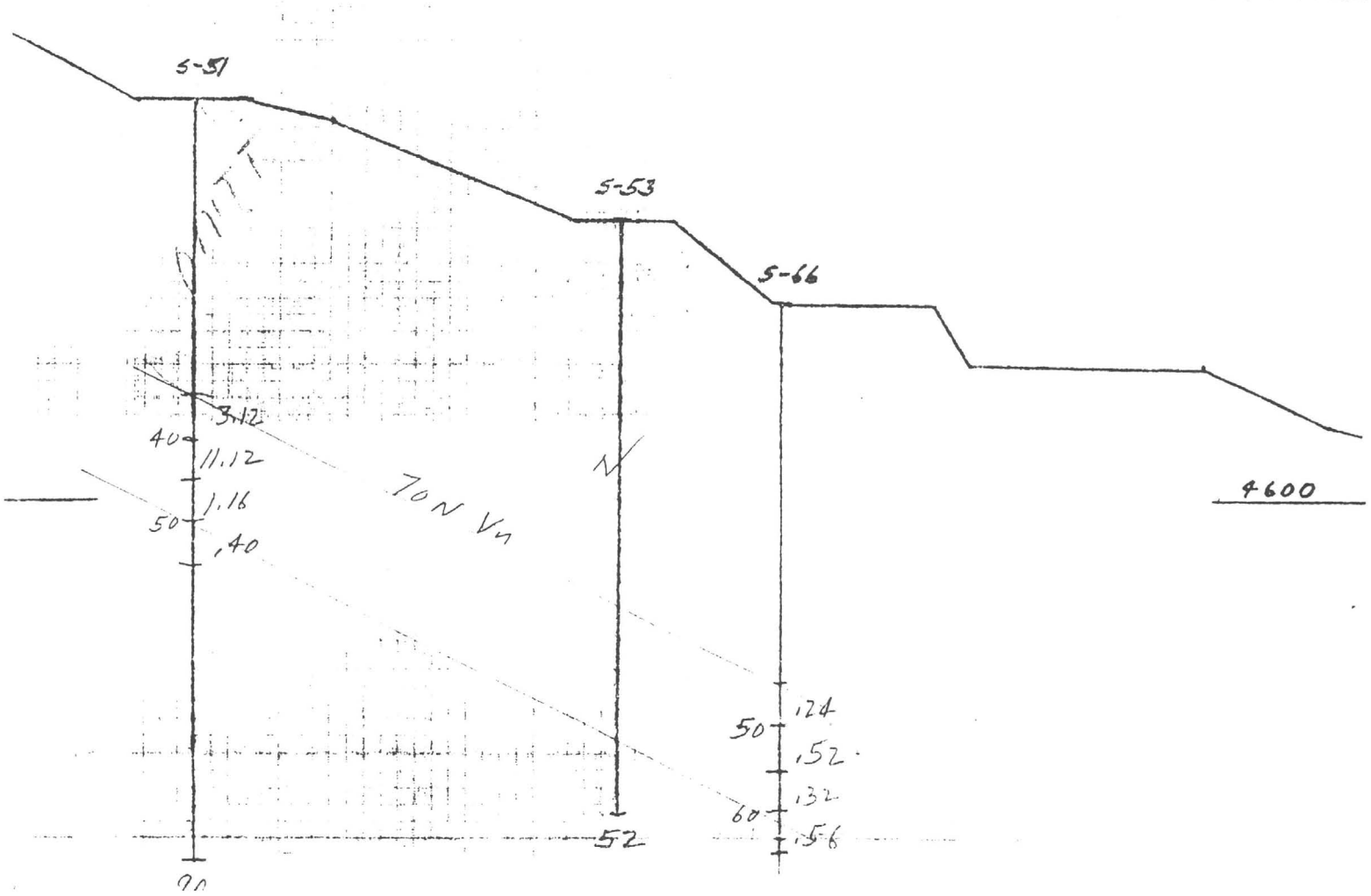

T-3
DECLINE
TRIPLE X PIT
STOPE GOB
2.12
1.06
0.48
0.16
0.32
1.84
56'
SECTION T-00

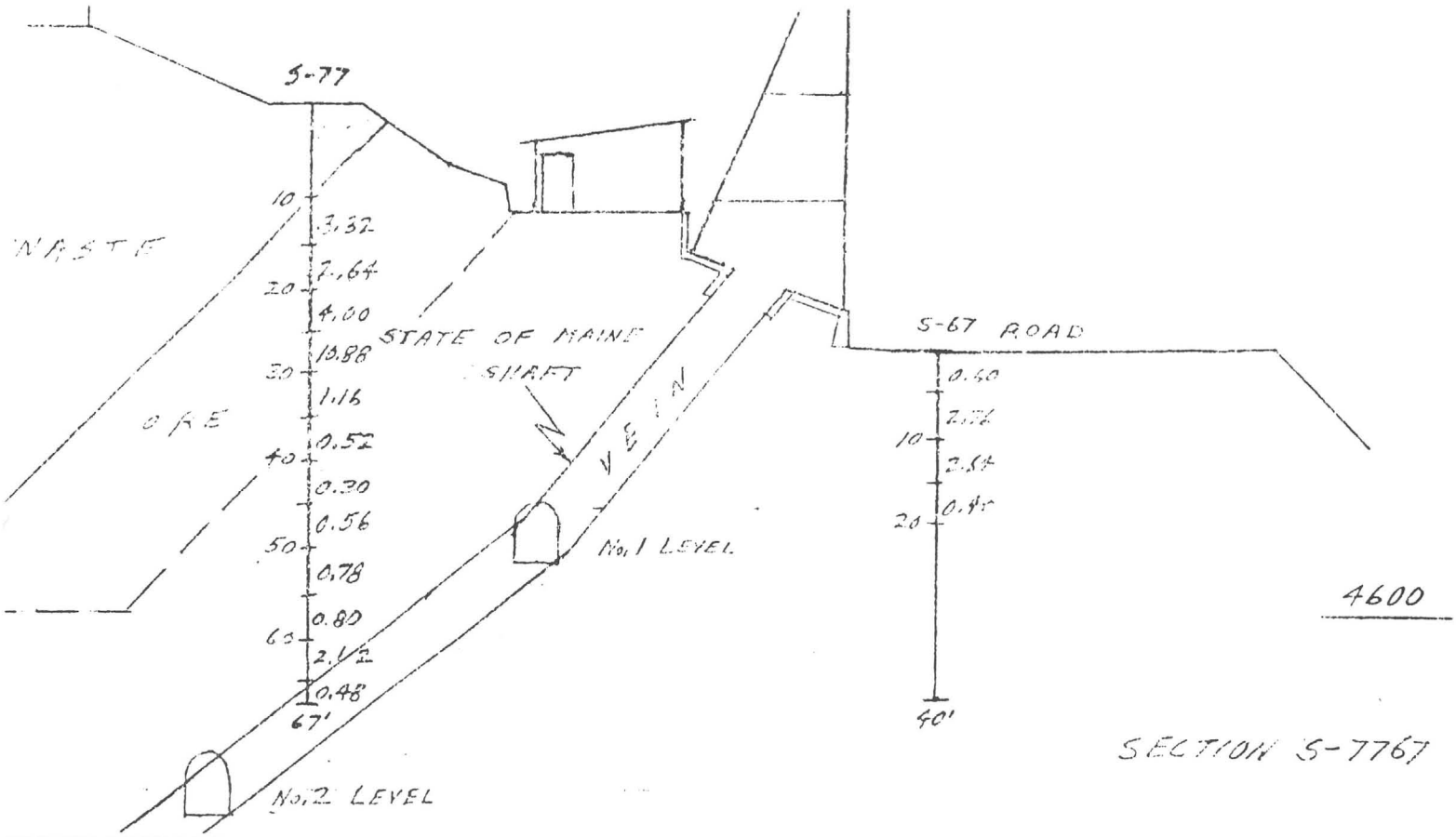

S-49
DUMP
70N
SHAFT
S-55
S-64
ROAD
S-75
10
.144
.32
20
.128
30
.20 .004
40
.24 .004
.24
.16
.40
60
.28
.28
68
.24
.120
41
46

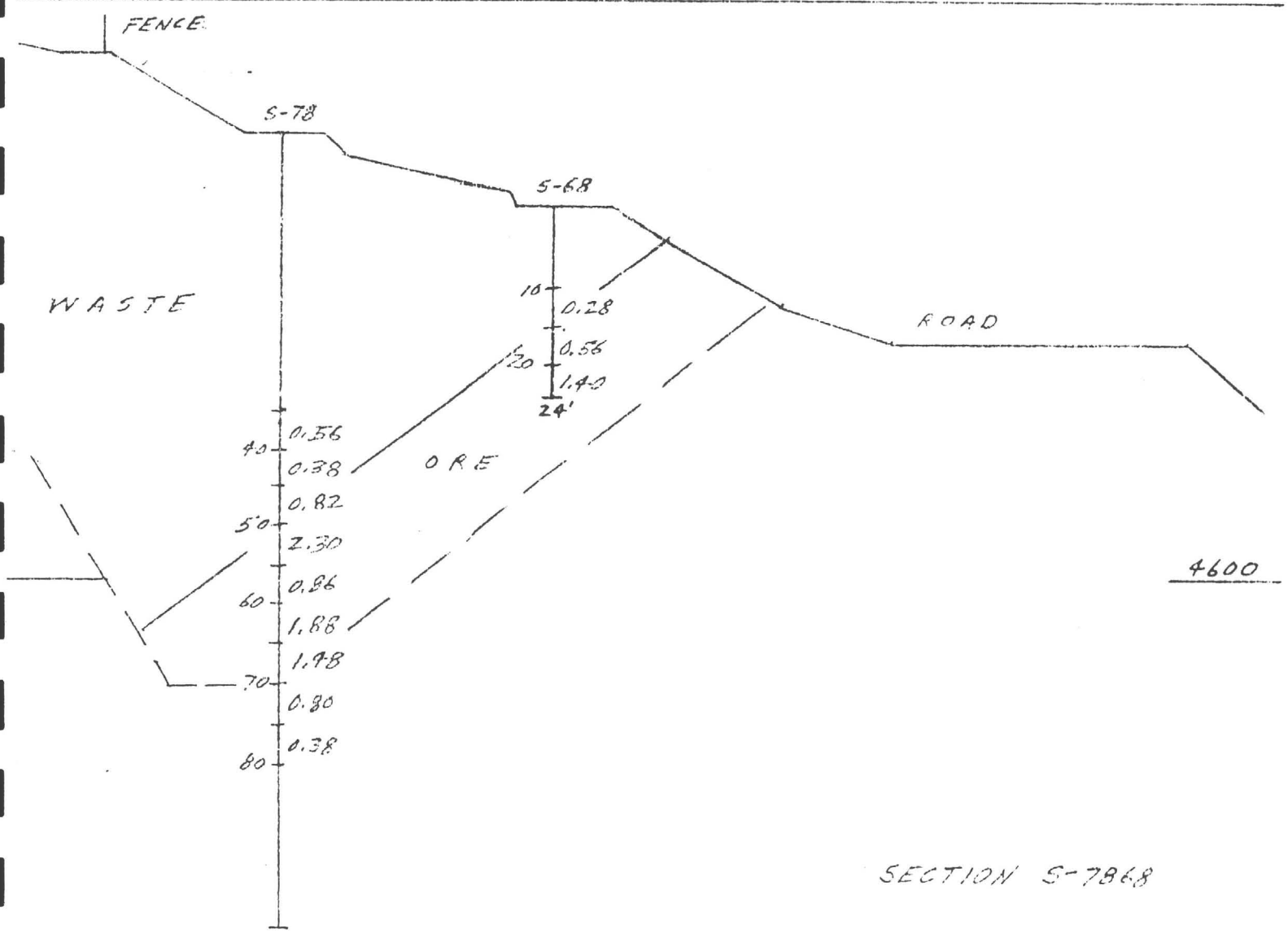

S-56
5
.136
.008
S-63
ROAD
30
.03 T
50
60
.56 .006
46

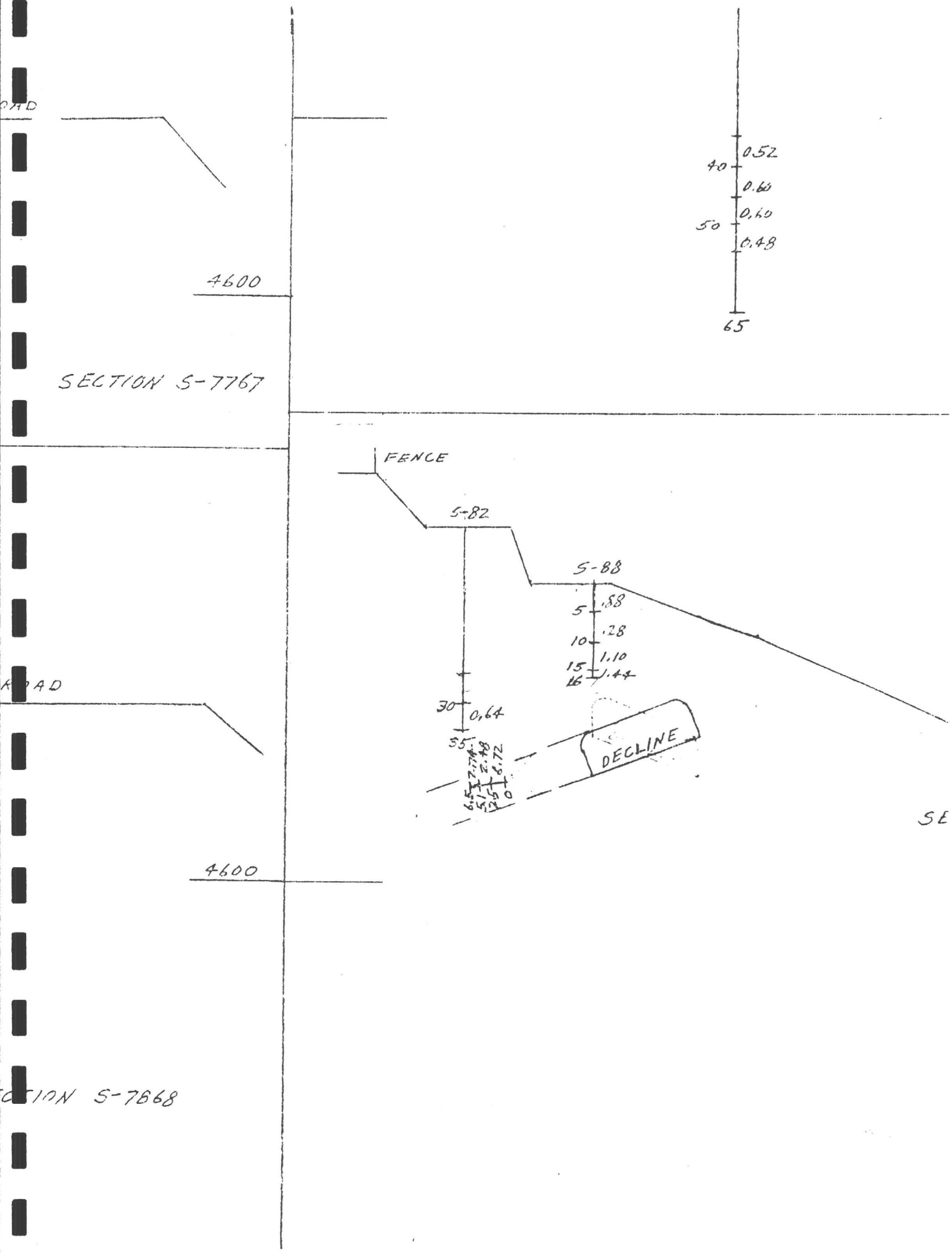

S-50
S-54
S-65
ROAD
S-74
10
20
4600
80
75
50

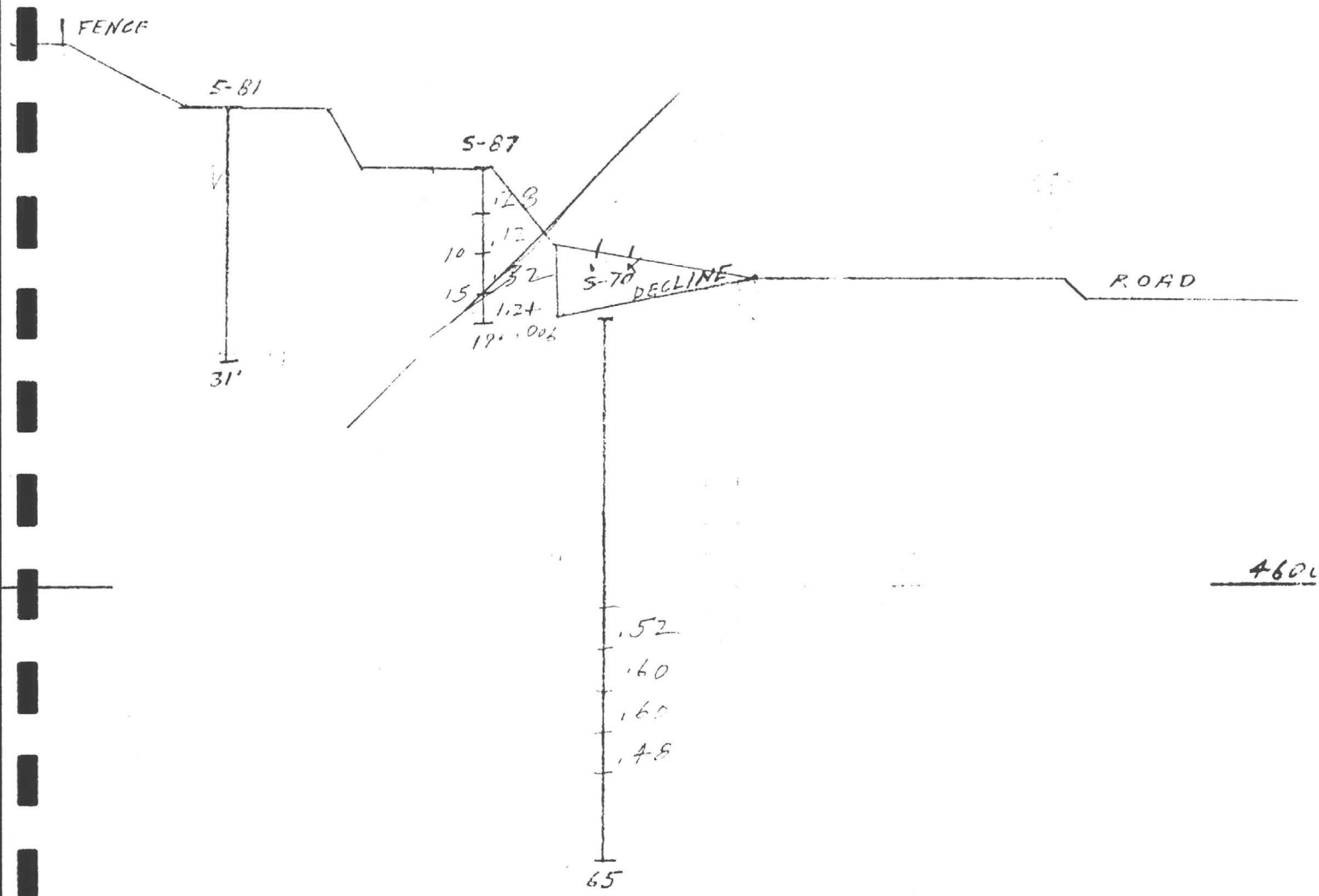

5-47
.16
.14 .008
10
.12 .004
5-48
5-37
N
4600
.04
50
50
70
.62 .008
50
.18 .003
70

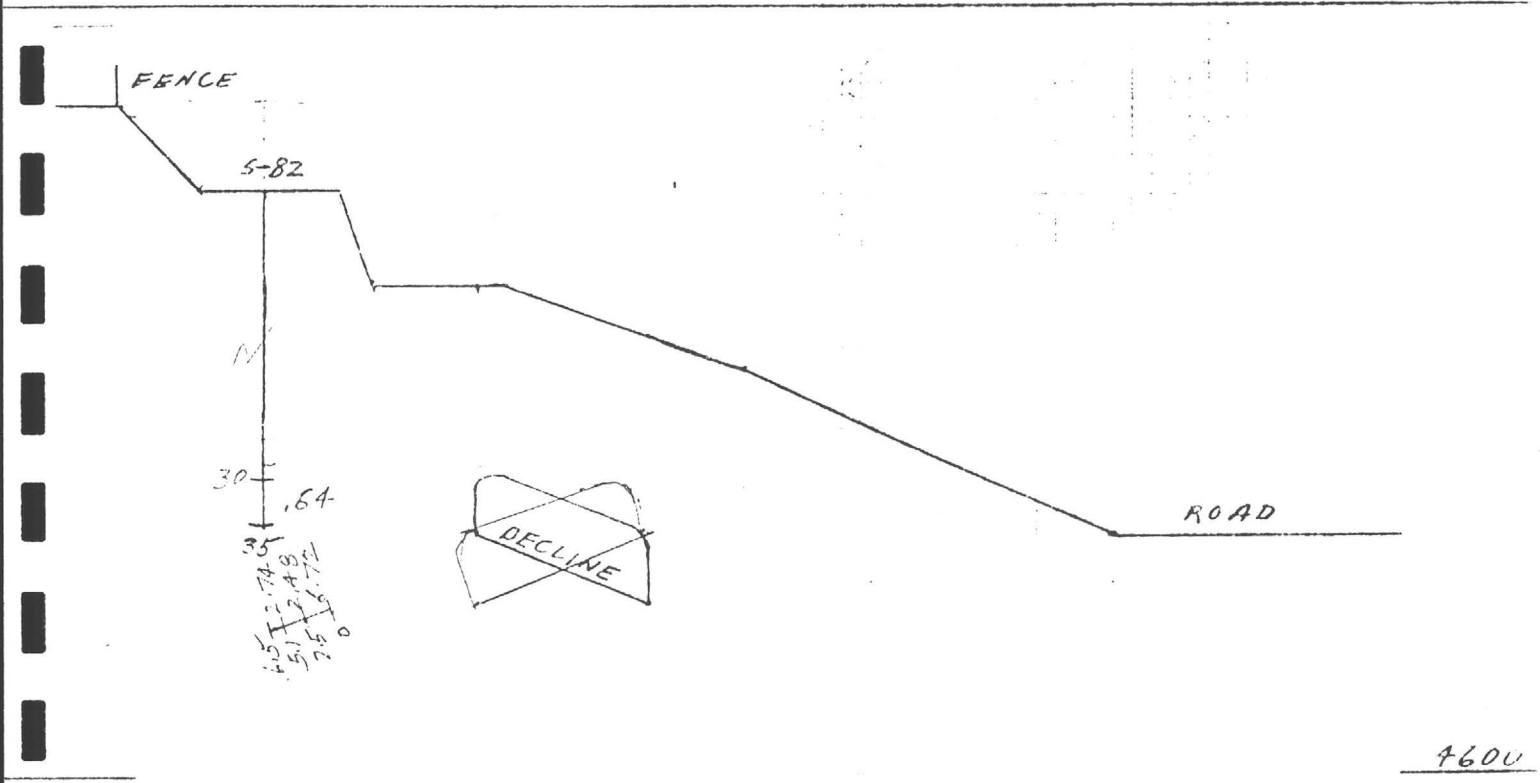

5-51
5-53
5-66
3.12
40
11.12
1.16
50
.40
70 N Vn
N
4600
.24
50
.52
.32
60
.56
52
70

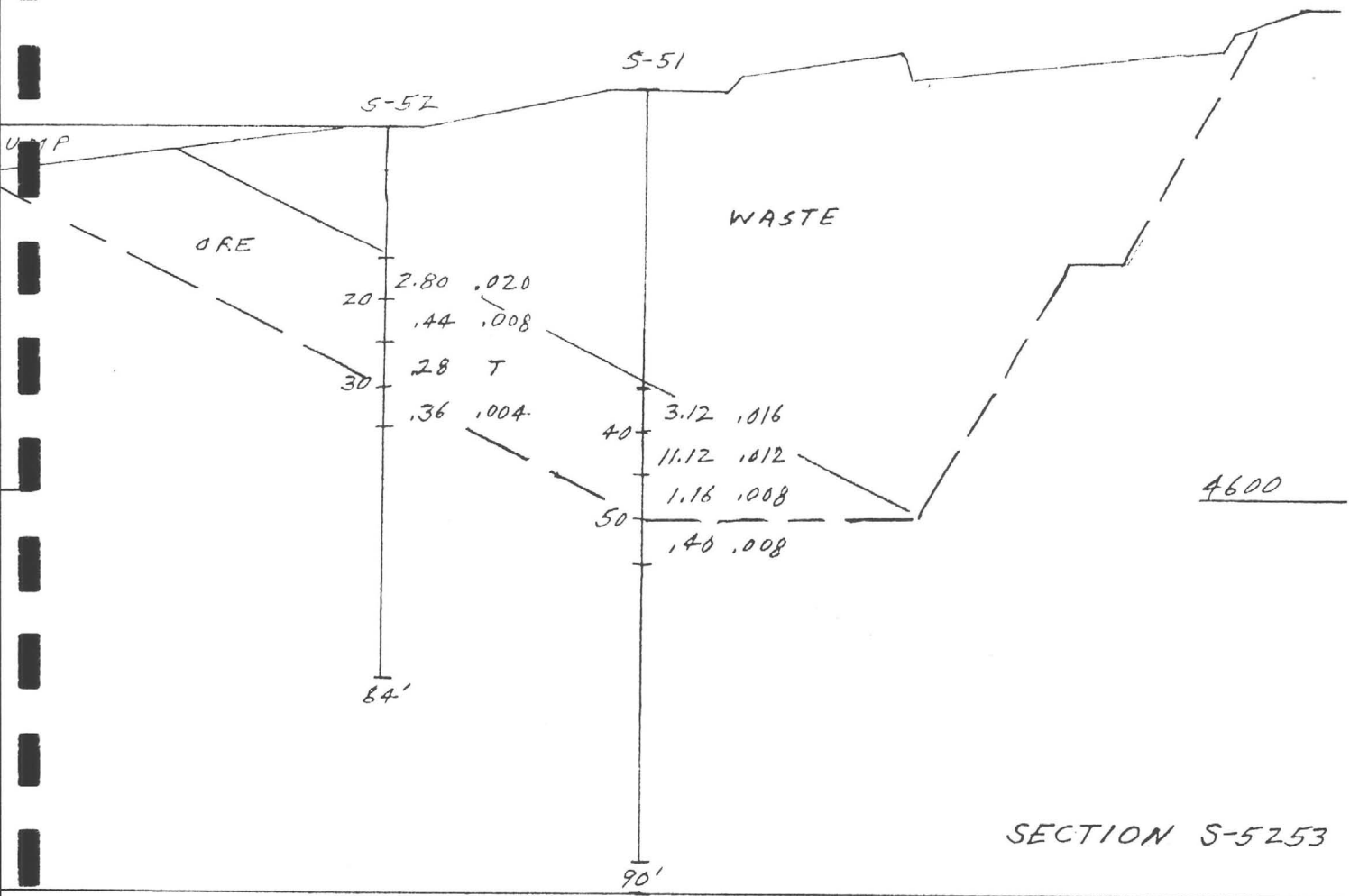

S-77
WASTE
ORE
10
3.32
20
7.64
4.00
30
10.88
1.16
40
0.52
0.30
0.56
50
0.78
0.80
60
2.12
0.48
67'
STATE OF MAINE
SHAFT
VEIN
No. 1 LEVEL
No. 2 LEVEL
S-67 ROAD
0.40
10
2.54
20
0.45
40'
4600
SECTION S-7767

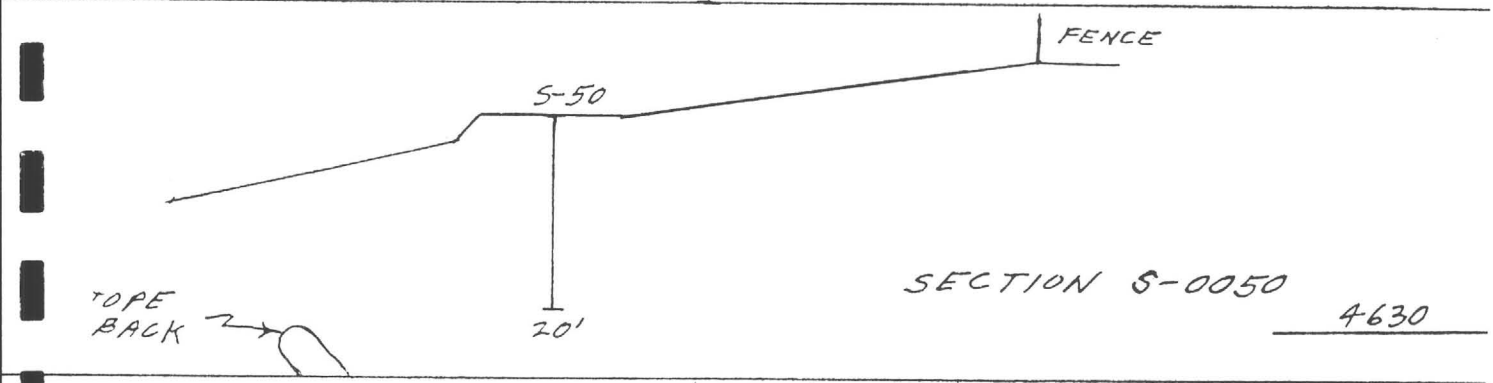

FENCE
S-78
S-68
WASTE
10
0.28
0.56
20
1.40
24'
ROAD
40
0.56
0.38
ORE
0.82
50
2.30
0.86
60
1.88
1.98
70
0.80
0.38
80
4600
SECTION S-7868

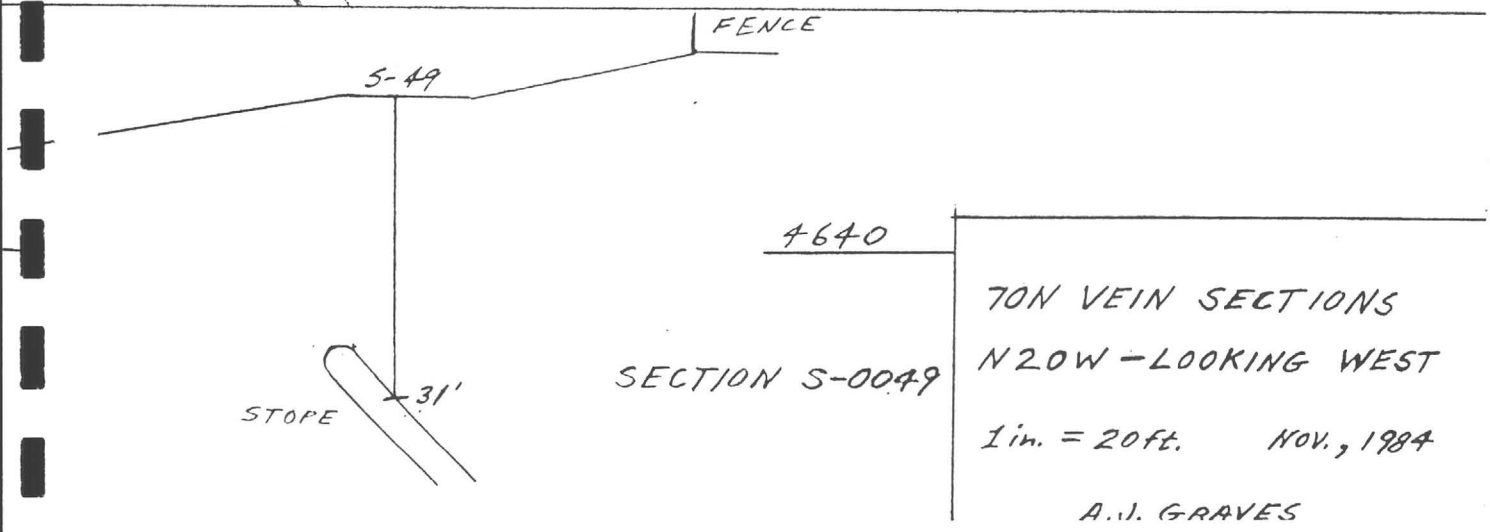

ROAD
4600
SECTION S-7767
0.52
40
0.60
0.60
50
0.48
65
FENCE
S-82
S-88
5
.88
10
.28
15
1.10
16
1.44
30
0.64
35
7.74
2.48
6.72
DECLINE
ROAD
4600
SECTION S-7668
SE


FENCE
S-81
S-87
S-70
DECLINE
ROAD
31'
10
15
19
1.24
.52
.60
.48
65
4600


FENCE
S-82
30
.64
35
DECLINE
ROAD
4600





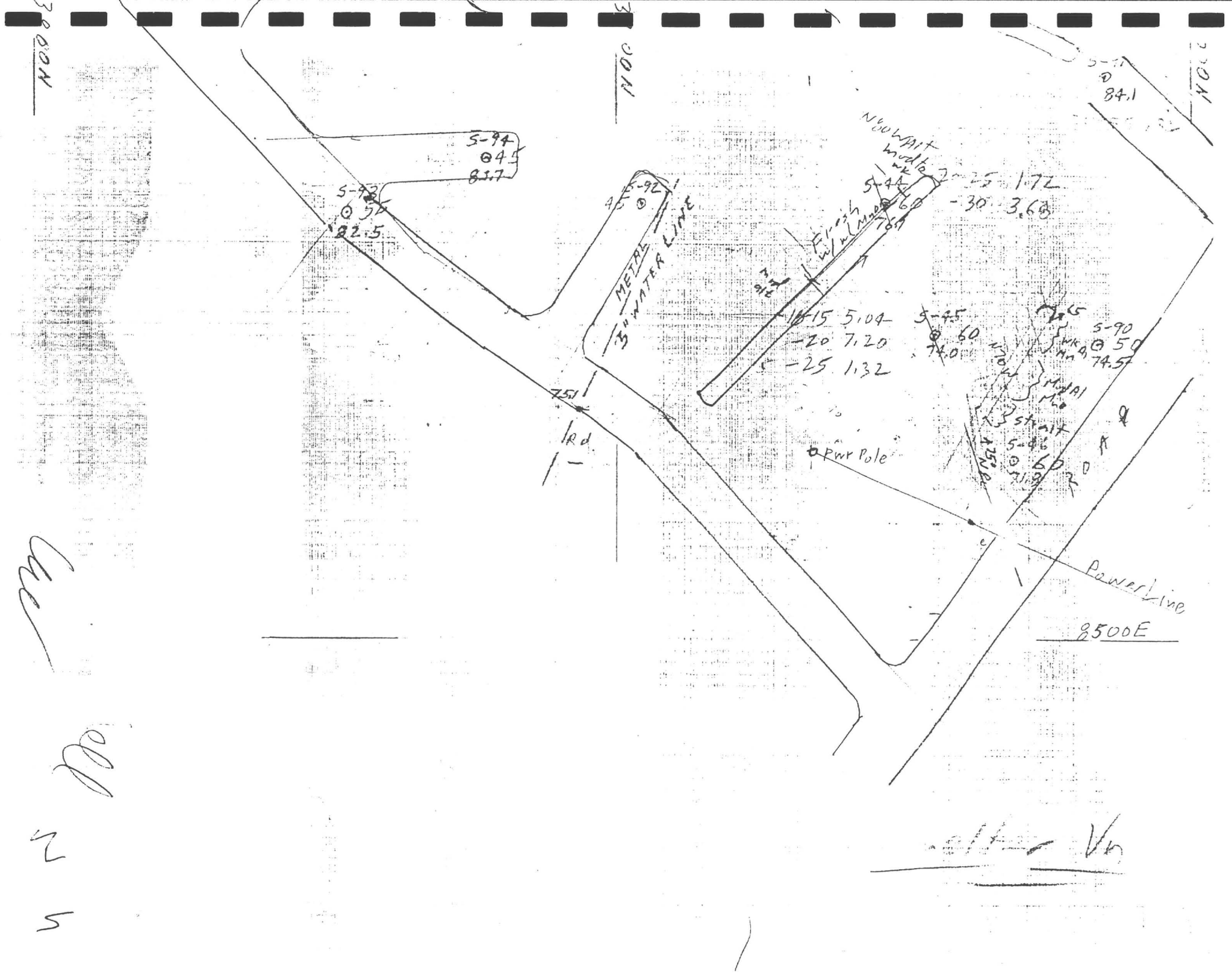


70N VEIN SECTIONS

N20W - LOOKING WEST

1 in. = 20 ft. NOV., 1984

A.J. GRAVES


5-94
@45
83.7
5-93
@57
82.5
5-92
METAL
3" WATER LINE
Rd.
75.1
Finish
w/ wire mesh
-15 5.04
-20 7.20
-25 1.32
5-45
@60
74.0
5-44
@60
75.1
-25 1.72
-30 3.68
5-90
@50
74.5
Pwr Pole
Powerline
8500E
84.1

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 18, 1984

Tombstone Silver Mines
P. O. Box 715
Tombston, Arizona 85638

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S-44	20-25	1.72	0.024	0.24			
	25-30	3.68	0.036	0.18			
S-45	0-5	0.40	0.010	0.18			
	5-10	0.36	0.006	0.10			
	10-15	5.04	0.020	9.92			
	15-20	7.20	0.020	6.00			
	20-25	1.32	0.012	0.70			
	25-30	0.76	0.008	0.40			
	30-35	0.32	0.004	0.12			
	35-40	0.12	0.004	0.08			
	40-45	0.12	0.004	0.10			
	50-55	0.16	0.004	0.06			
S-46	15-20	0.20	0.008	0.02			
	20-25	0.08	0.004	0.02			
S-47	0-5	0.16	0.004	0.06			
	5-10	0.44	0.008	0.16			

Method of Analysis: Acid Digestion

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-18-84
ARIZONA, U.S.A.

Gary A. Lindroos

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 18, 1984

Mill Vn

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

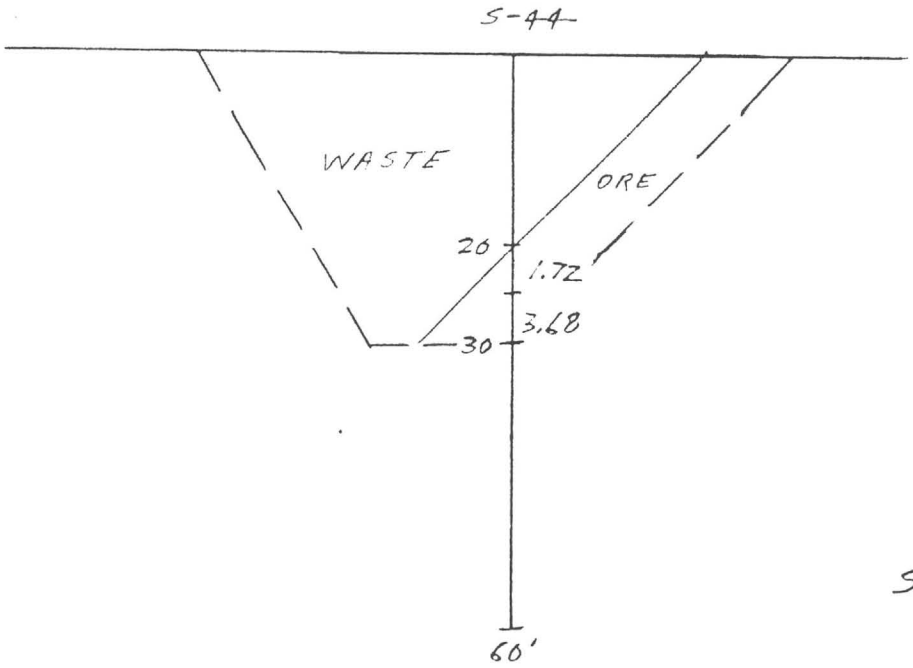
CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S-44	20-25	1.72	0.024	0.24	10' 2.70		27.00
	25-30	3.68	0.036	0.18			
S-45	0-5	0.40	0.010	0.18			
	5-10	0.36	0.006	0.10			
	10-15	5.04	0.020	9.92	67.80		
	15-20	7.20	0.020	6.00	15' 4.52	20' 3.58	71.60
	20-25	1.32	0.012	0.70		30'	98.60
	25-30	0.76	0.008	0.40		Ave 15'	3.29
	30-35	0.32	0.004	0.12		Ave 12.5'	3.79
	35-40	0.12	0.004	0.08			
	40-45	0.12	0.004	0.10			
	50-55	0.16	0.004	0.06			
S-46	15-20	0.20	0.008	0.02			
	20-25	0.08	0.004	0.02			
~~S-47~~	~~0-5~~	~~0.16~~	~~0.004~~	~~0.06~~			

Method of Analysis: Acid Digestion

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-18-84
ARIZONA, U.S.A.

Gary A. Lindroos



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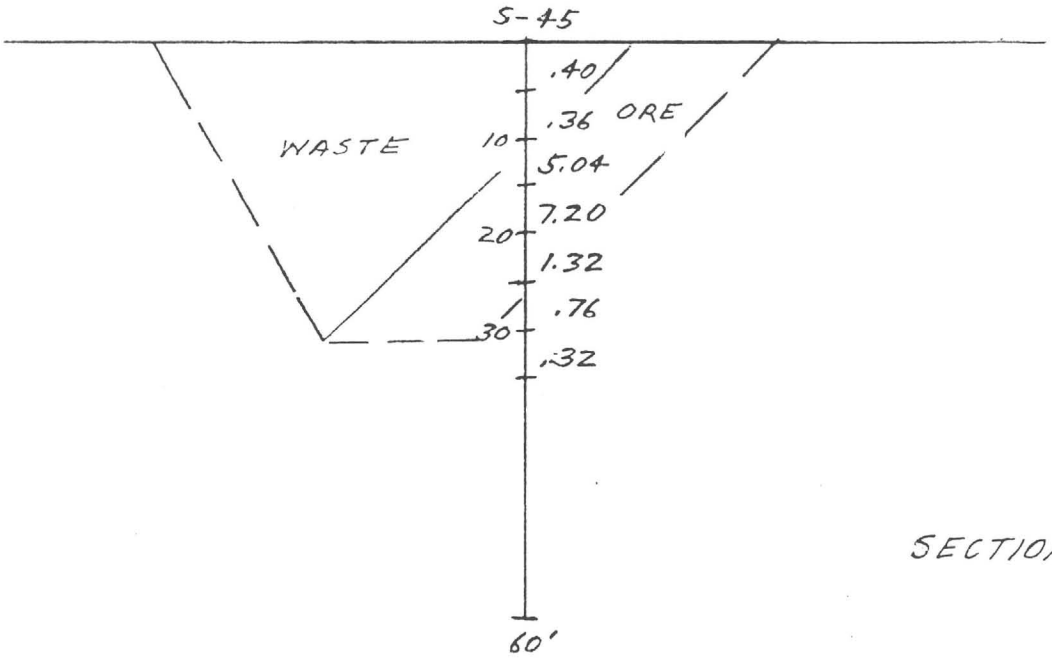
SECTION S-4490



4550

SECTION S-0045

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O. BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 18, 1984

Tombstone Silver Mines
Page 2

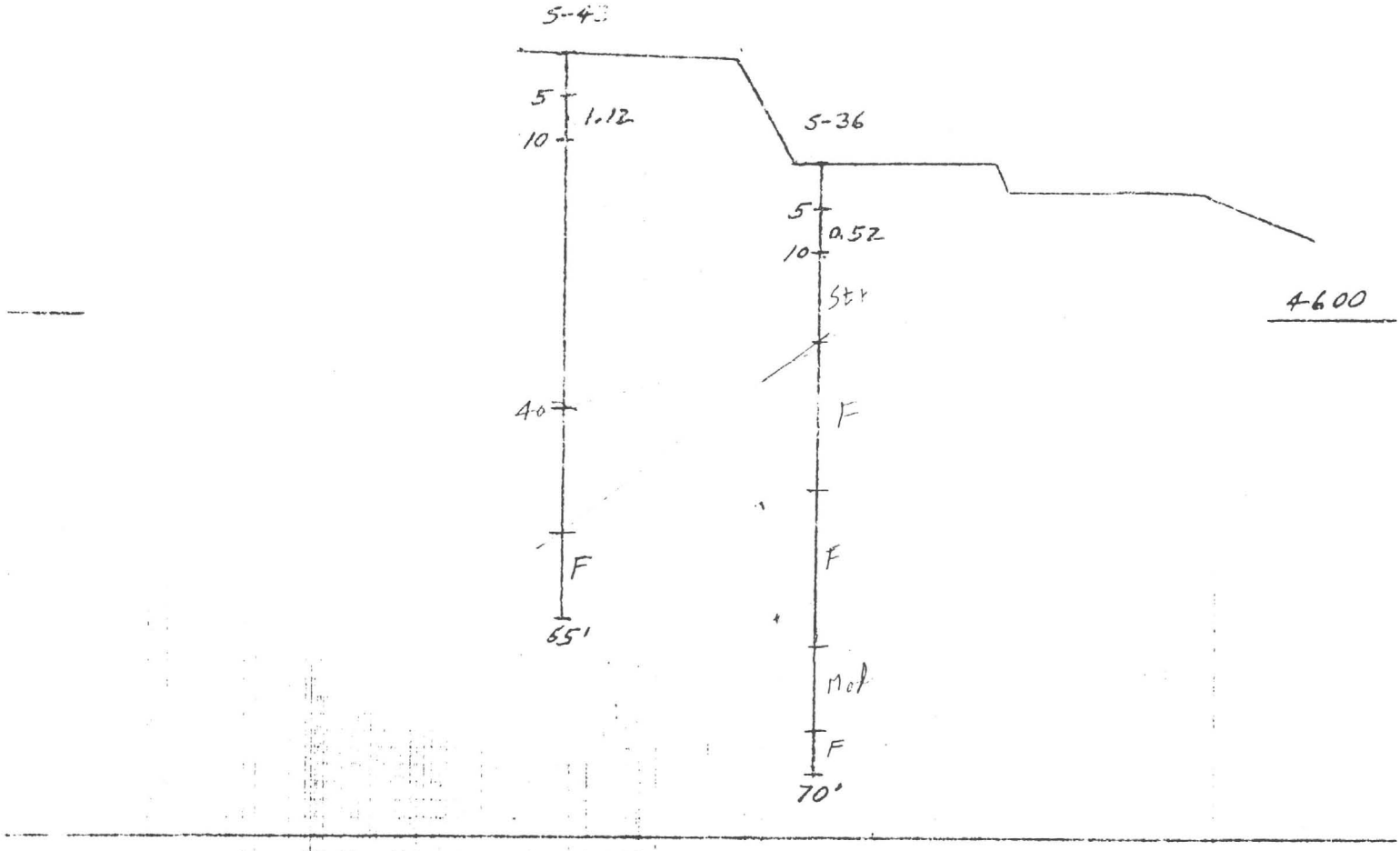
CERTIFICATE OF ANALYSIS

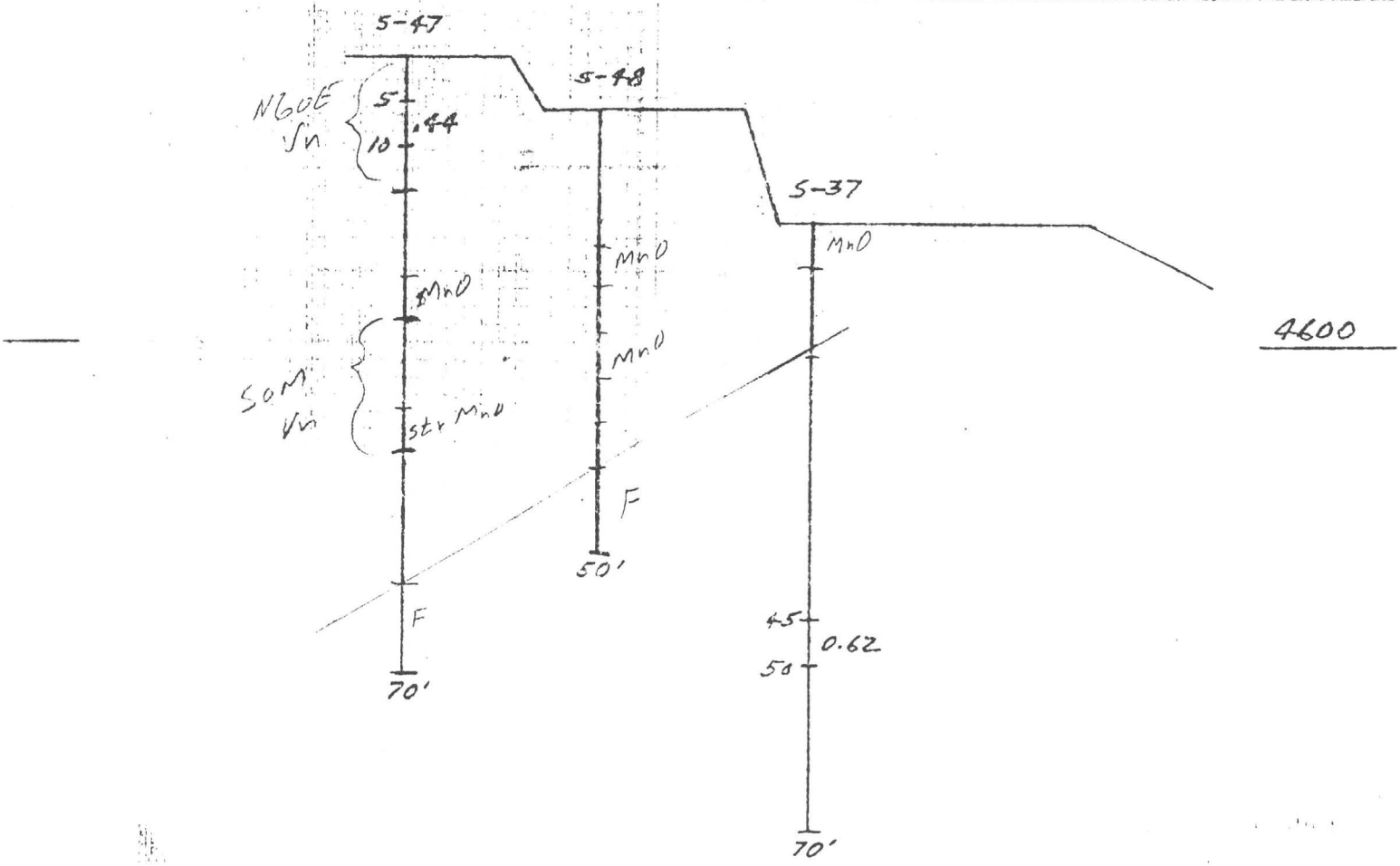
Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S-47	5-10	0.44	0.008	0.16			
	10-15	0.12	0.004	0.04			
	45-50	0.04	trace	Nil			
SV-16	0-5	0.68	0.012	0.14			
	5-10	0.48	0.008	0.06			
	25-30	0.12	0.004	0.06			
	30-35	0.32	0.004	0.10			
SV-17	0-5	0.44	0.008	0.06			
	10-15	0.72	0.016	0.24			
	15-20	4.72	0.016	0.64			
	20-25	2.24	0.020	0.30			
	35-40	3.20	0.012	0.44			

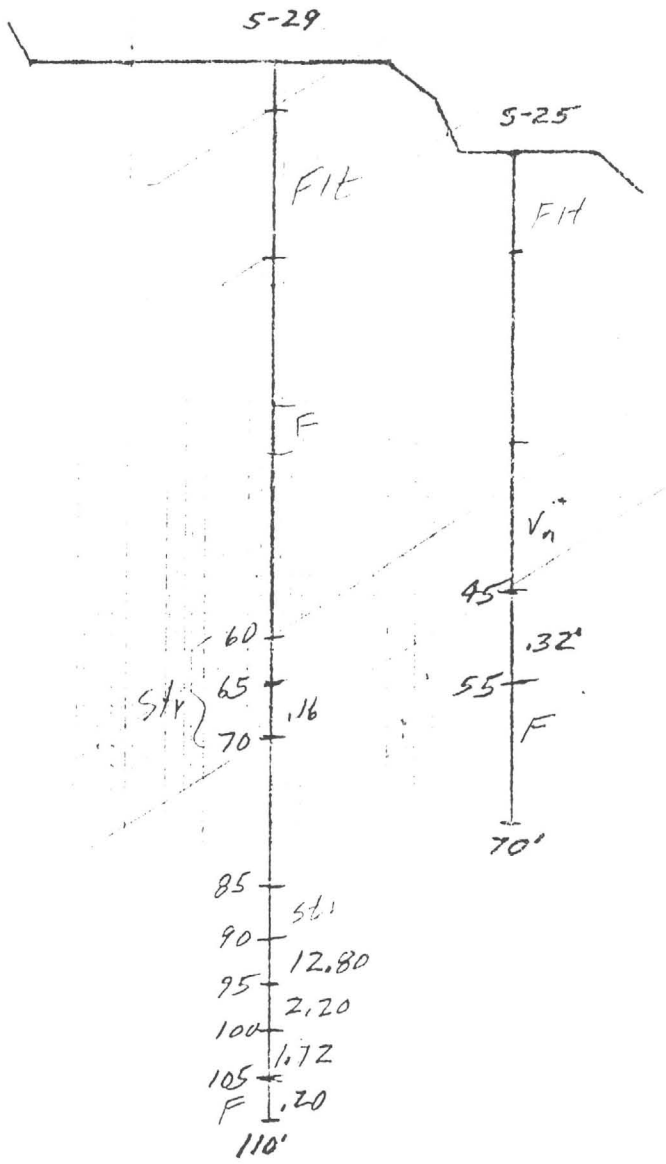
Method of Analysis: _____

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-18-84
ARIZONA, U.S.A.

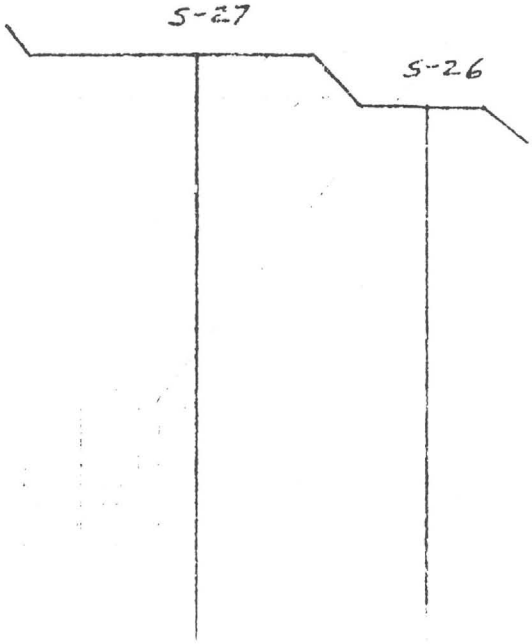
Gary A. Lindroos


5-43
5
10
1.12
40
F
65'
5-36
5
10
0.52
Str
F
F
Mod
F
70'
4600

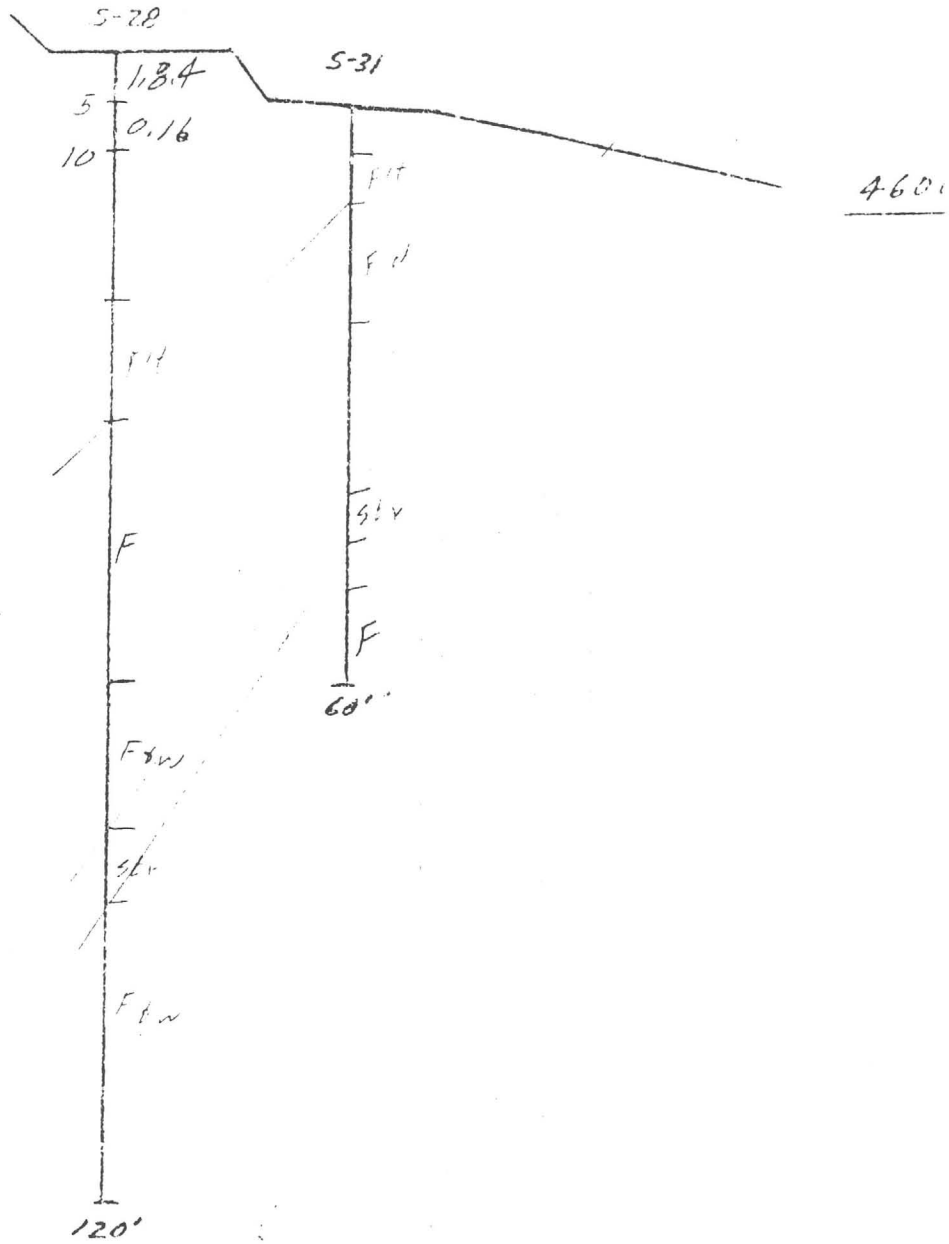

5-47
NGOE
Sn
5
10
.44
MnO
SOM
Sn
str MnO
F
70'
5-48
MnO
MnO
F
50'
5-37
MnO
45
50
0.62
70'
4600

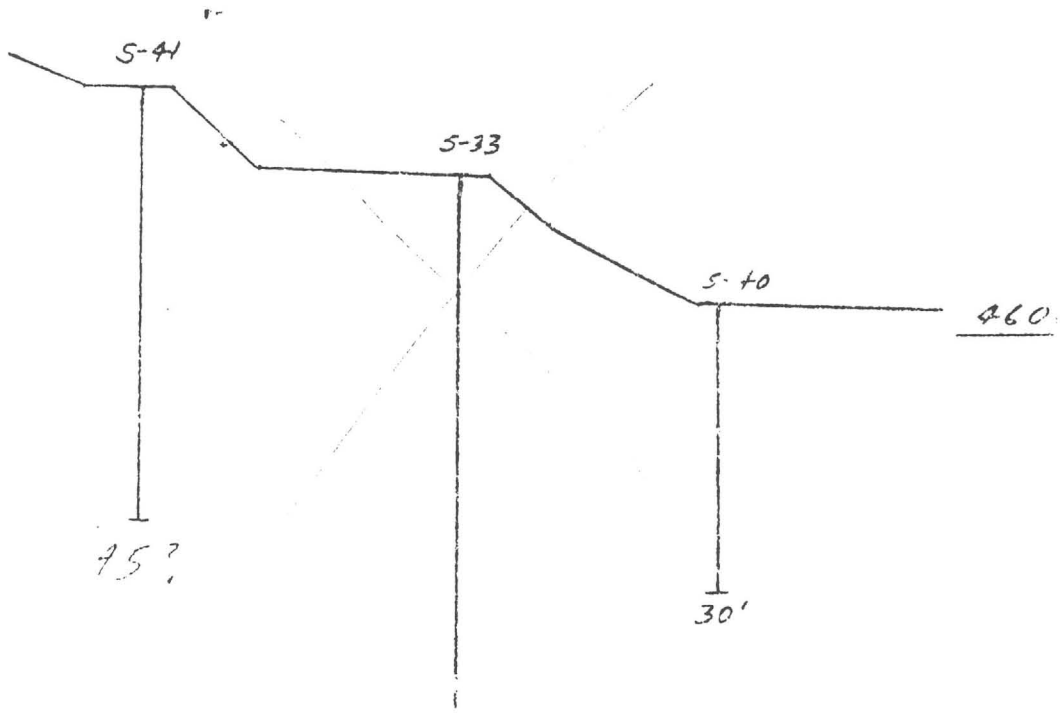

5-29
5-25
Flt
Flt
F
Vn
45
.32'
60
65
.16
Str
70
55
F
70'
85
Str
90
12.80
95
2.20
100
1.72
105
F
.20
110'

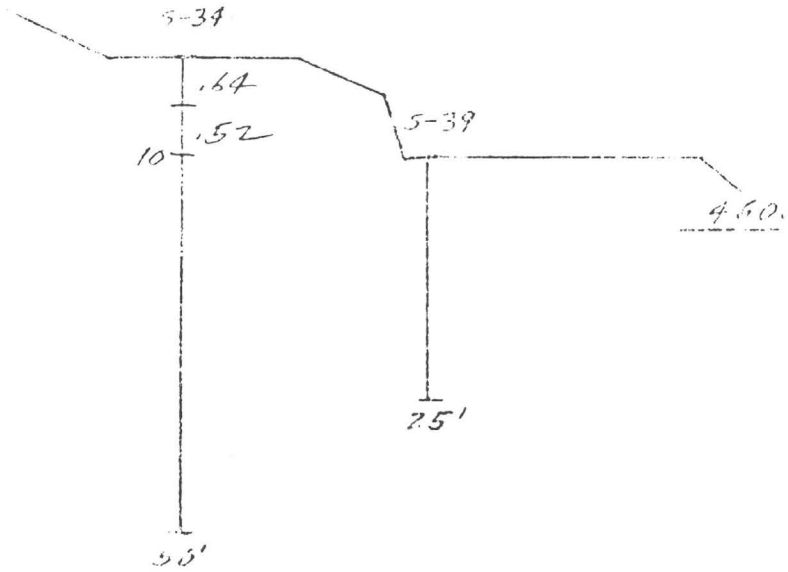
4600

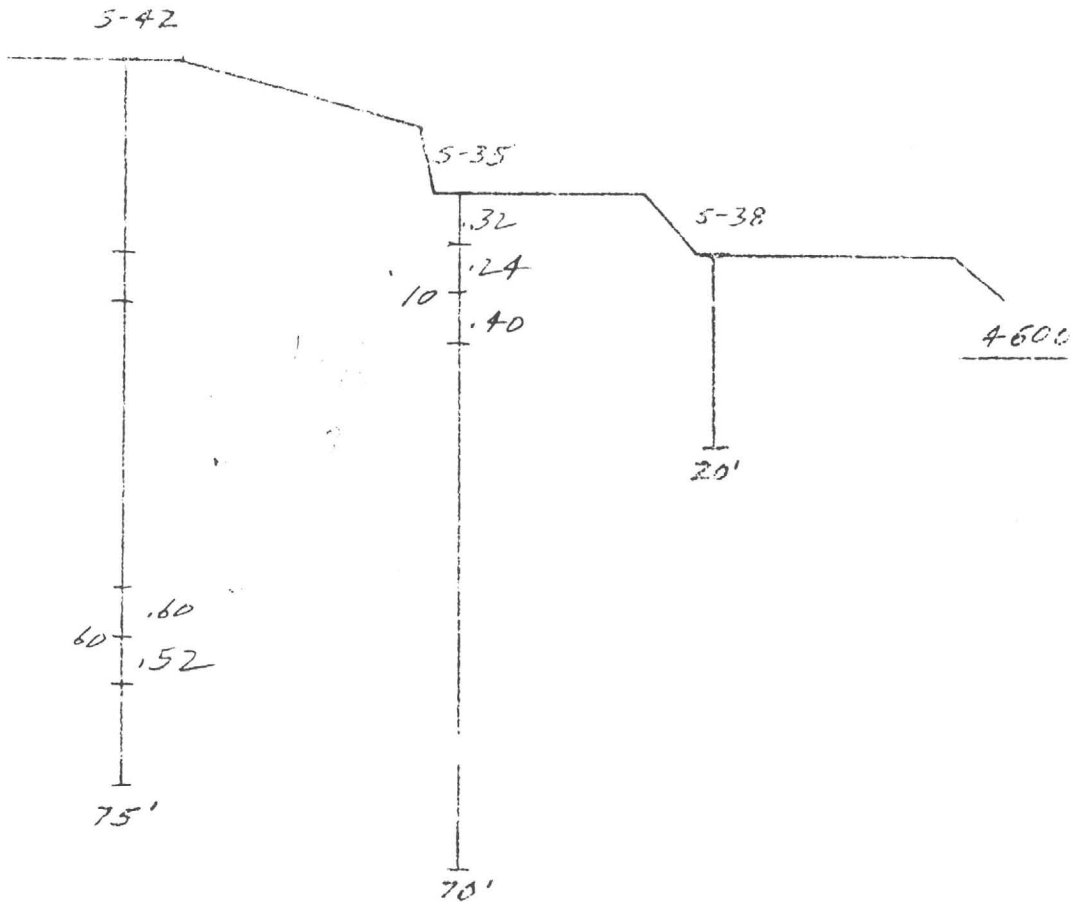

5-27
5-26

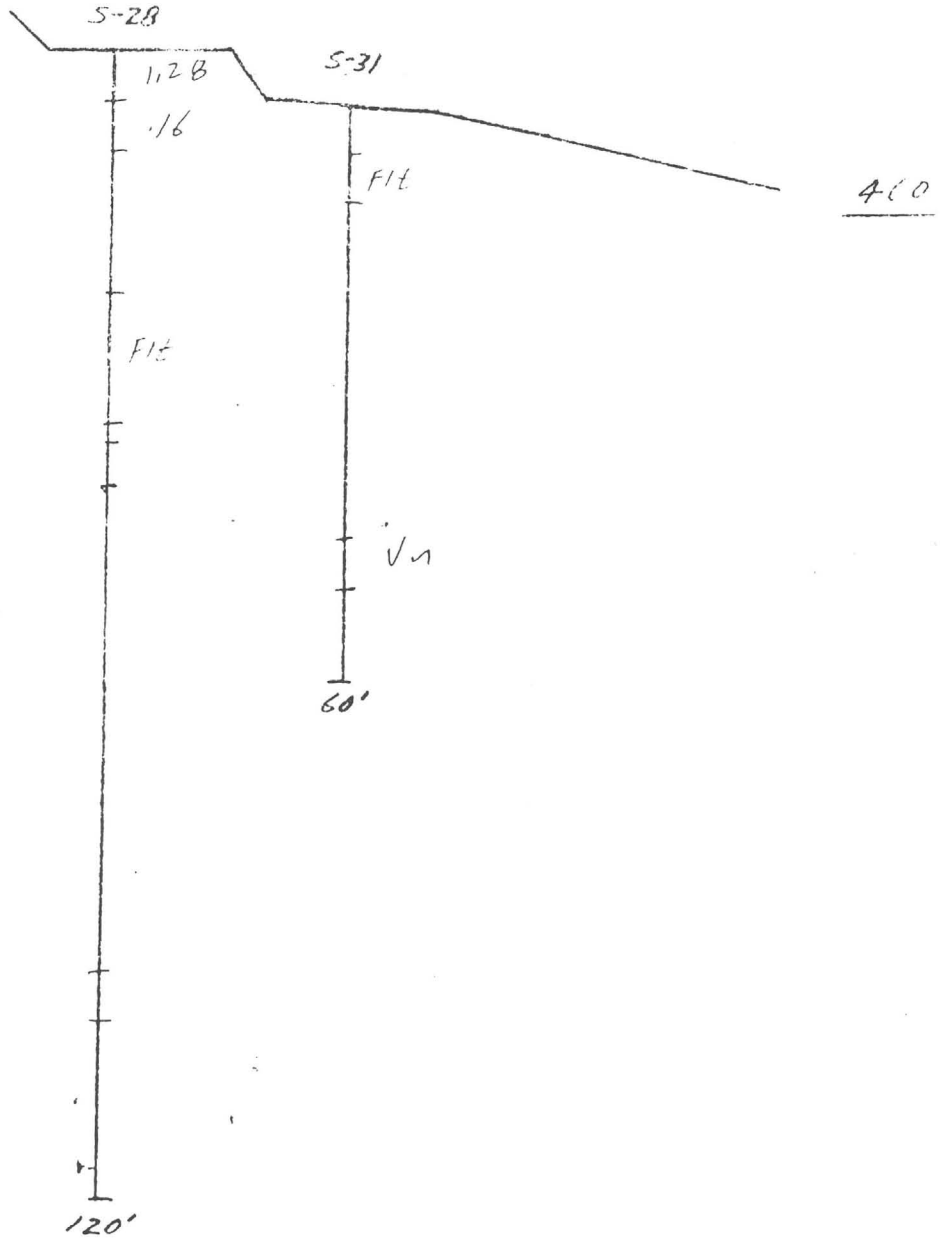
4600

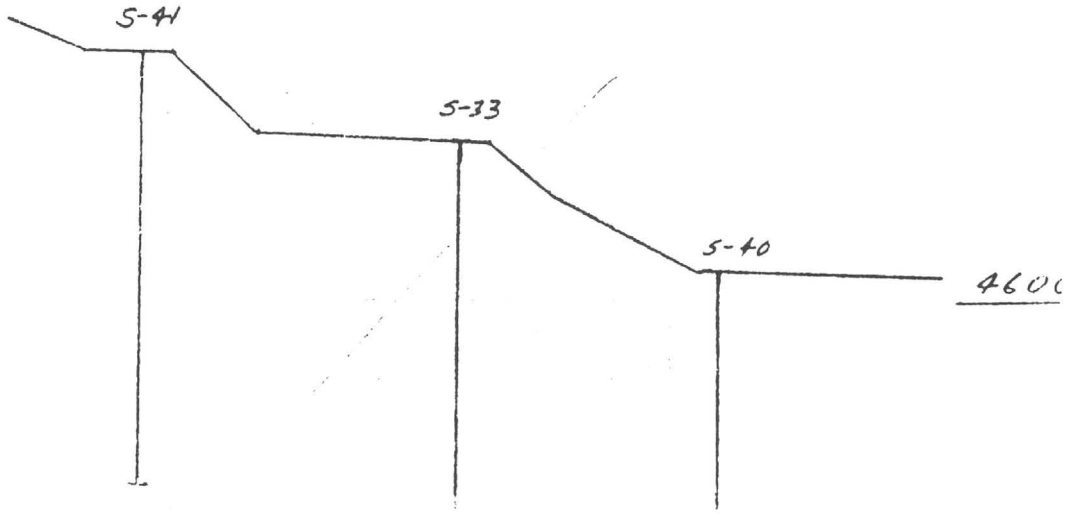

S-28
1.84
5
0.16
10
S-31
460
F
F
60'
120'

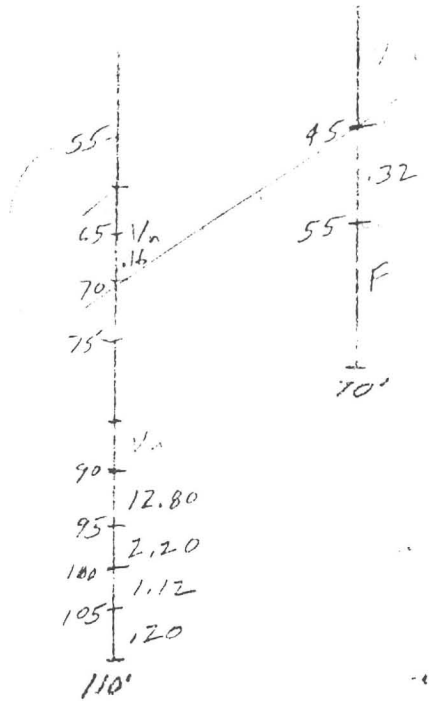

S-41
S-33
S-40
460
45?
30'

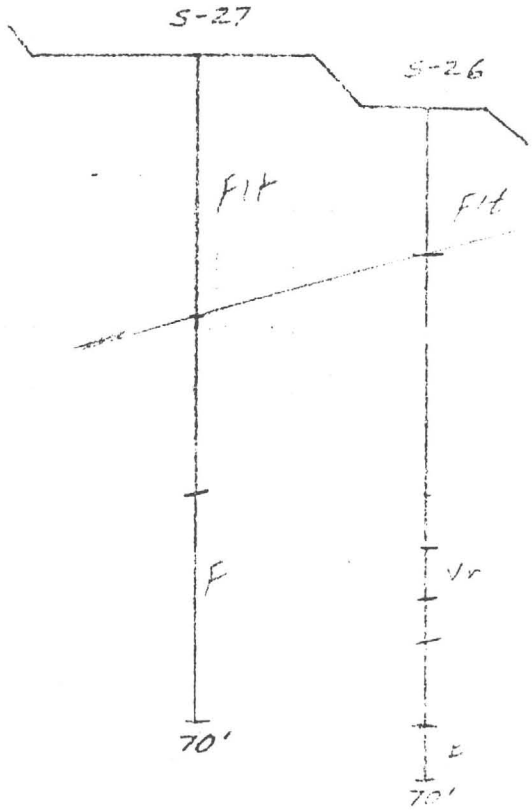

5-34
.64
.52
10
5-39
4.60.
25'
50'


5-42
5-35
.32
.24
10
.40
5-38
4-60.
20'
.60
60
.52
75'
70'

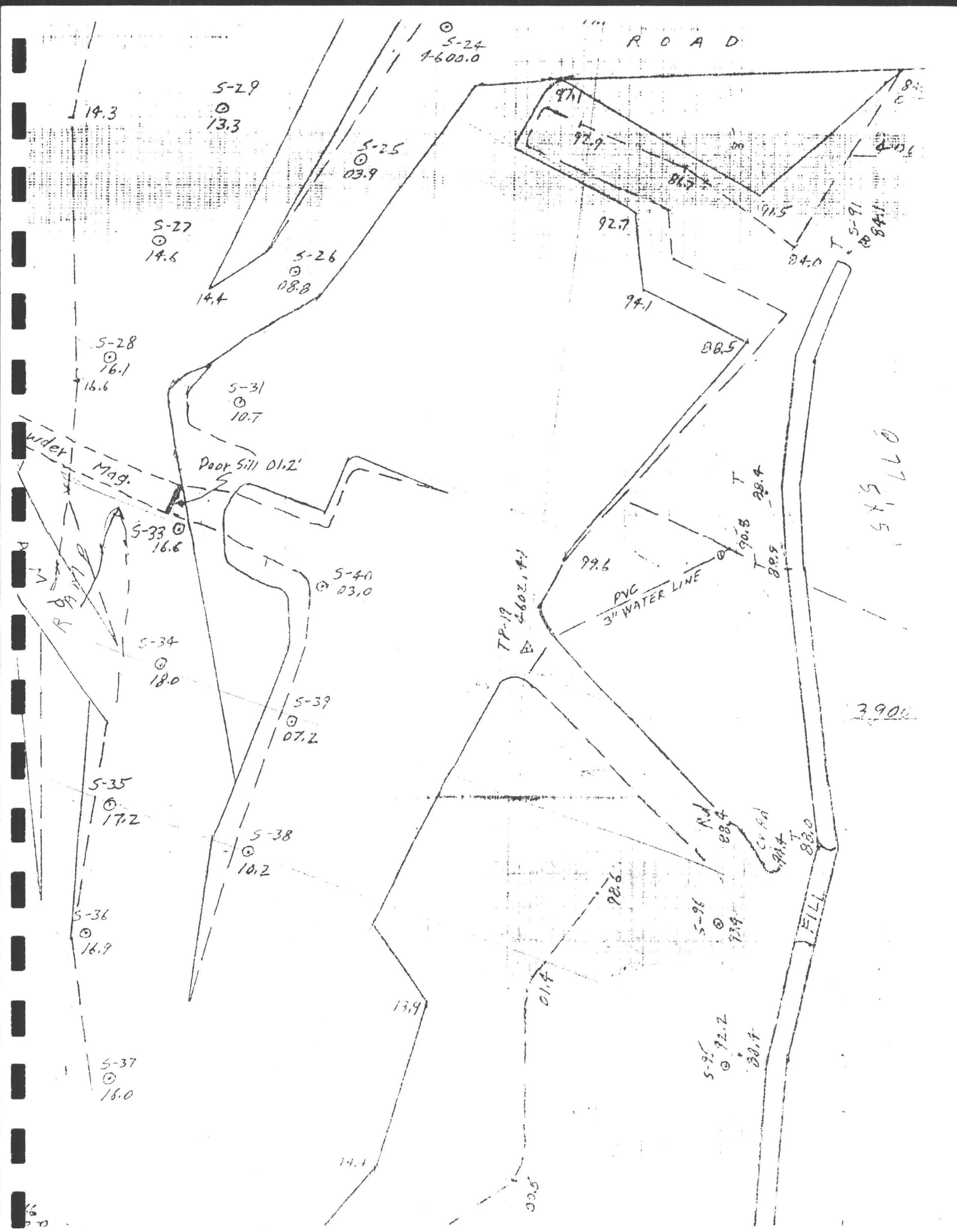

S-28
1,2B
.16
S-31
Flt
460
Flt
Vn
60'
120'

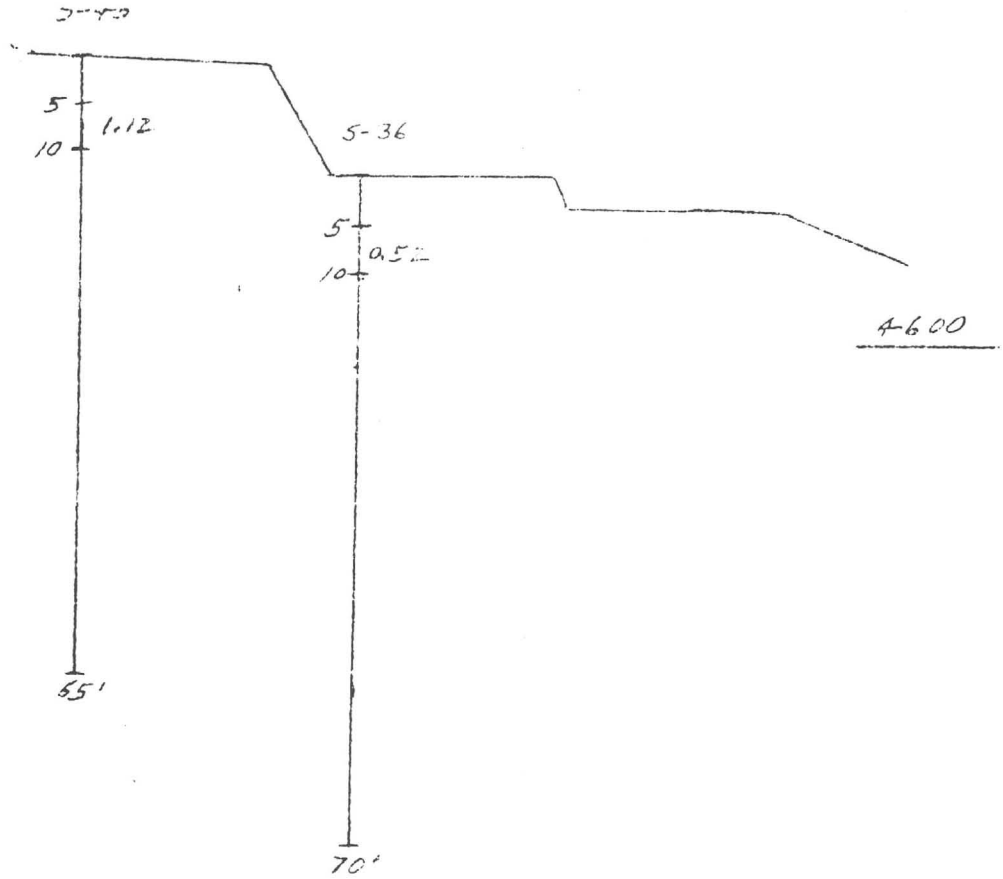

S-41
S-33
S-40
4600

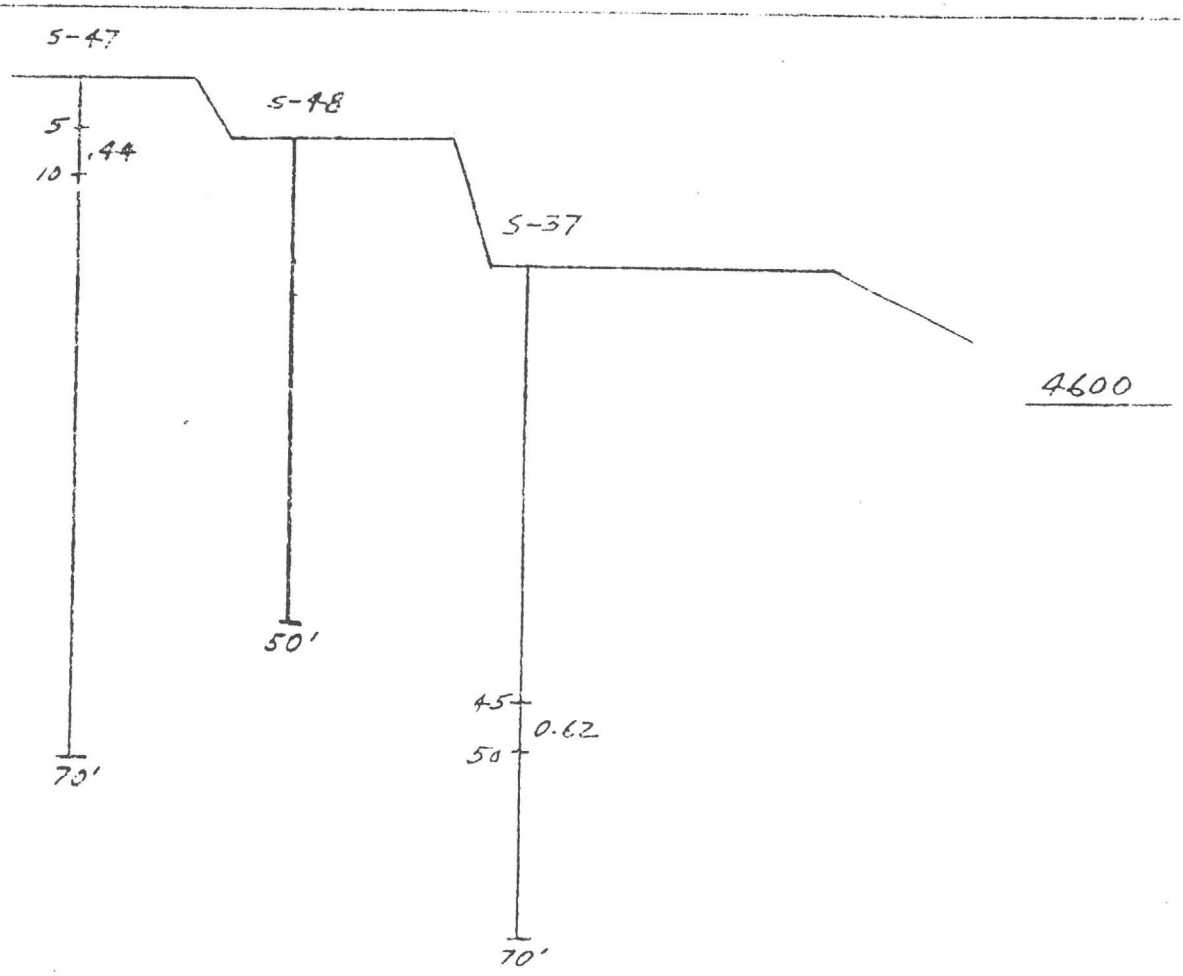

55
65
Vn
.14
70
75
Vn
90
12.80
95
2.20
100
1.12
105
.20
110'
45
.32
55
F
70'

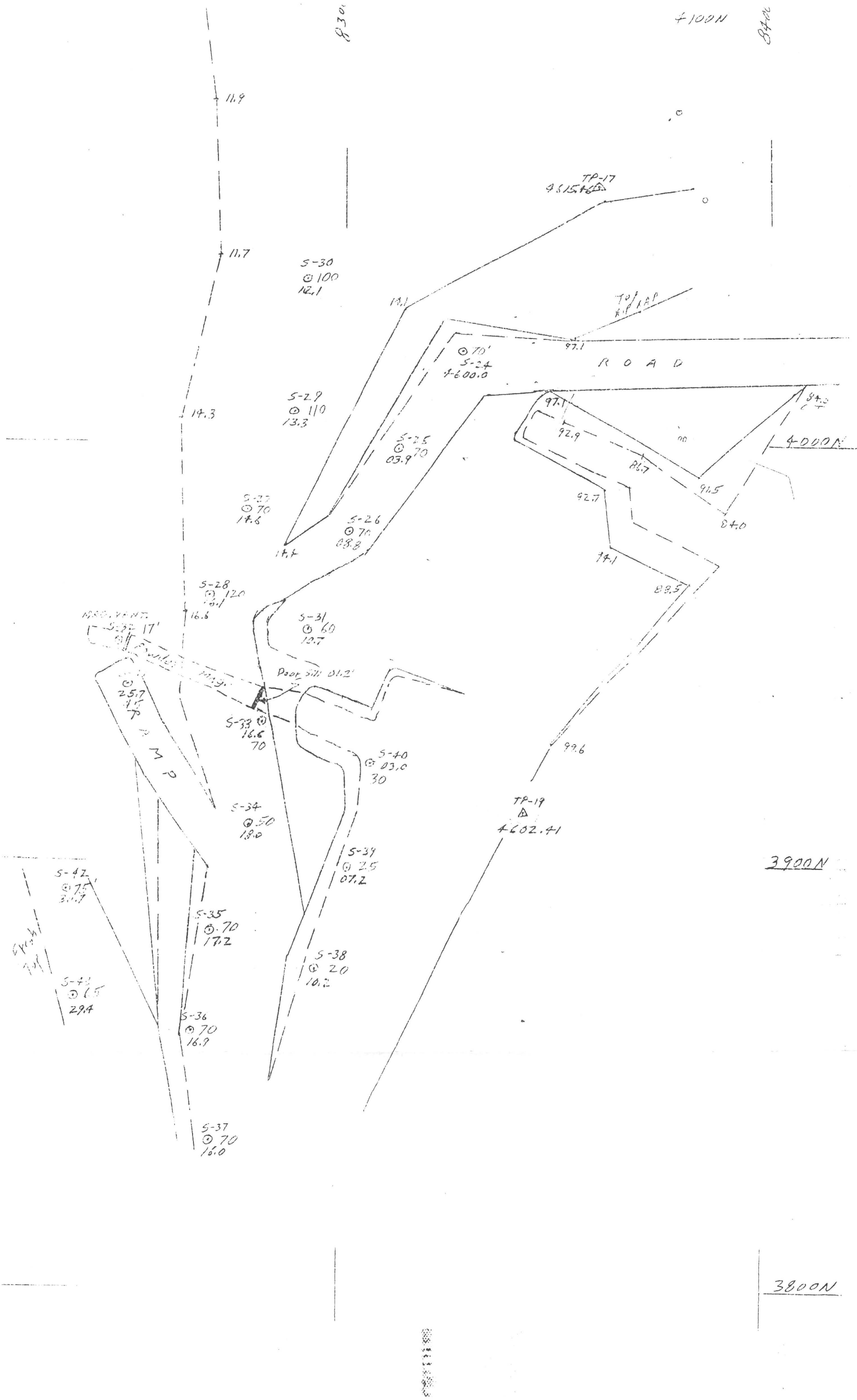

S-27
S-26
Fit
Fit
F
Vr
70'
70'

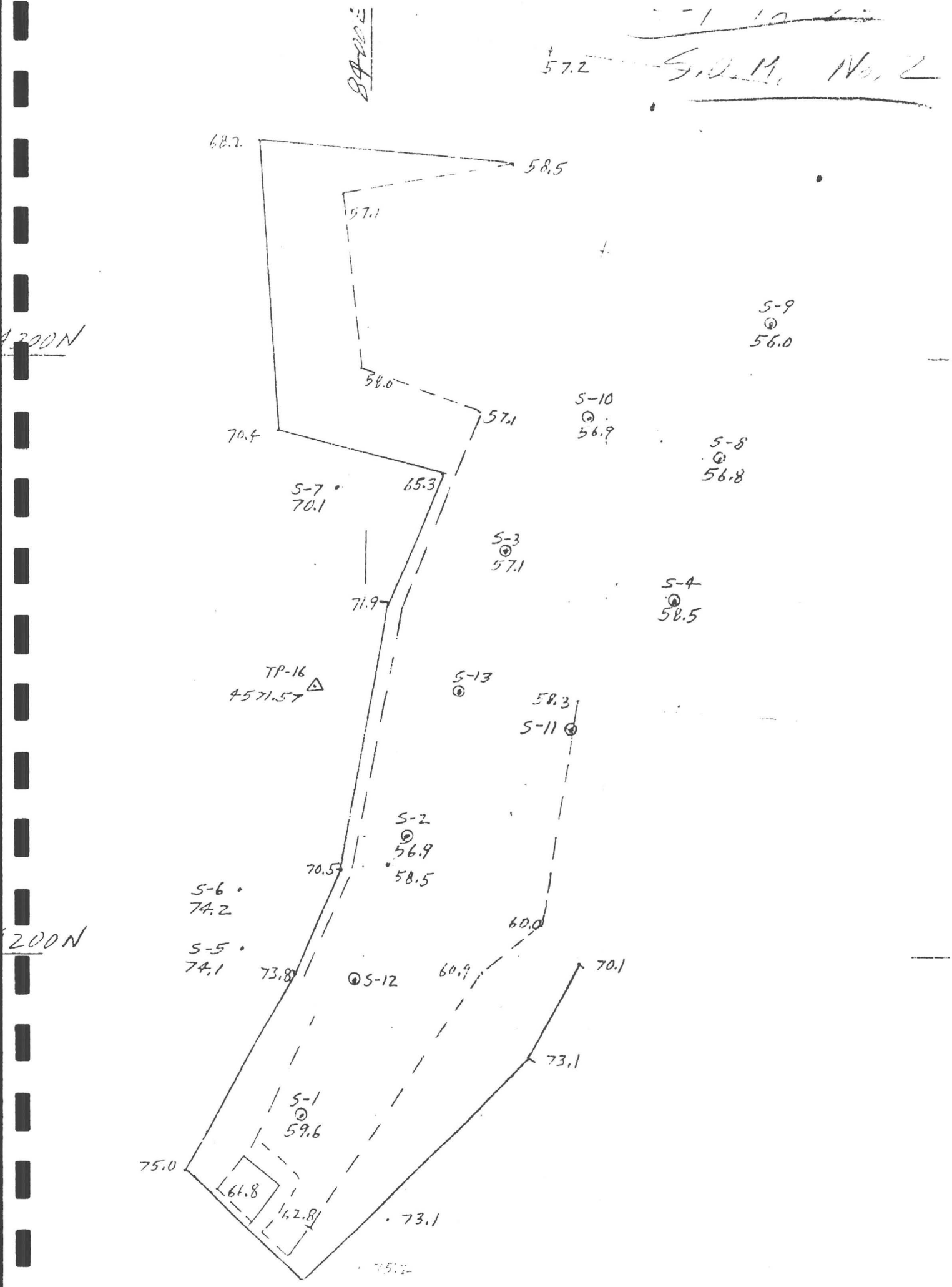
4600

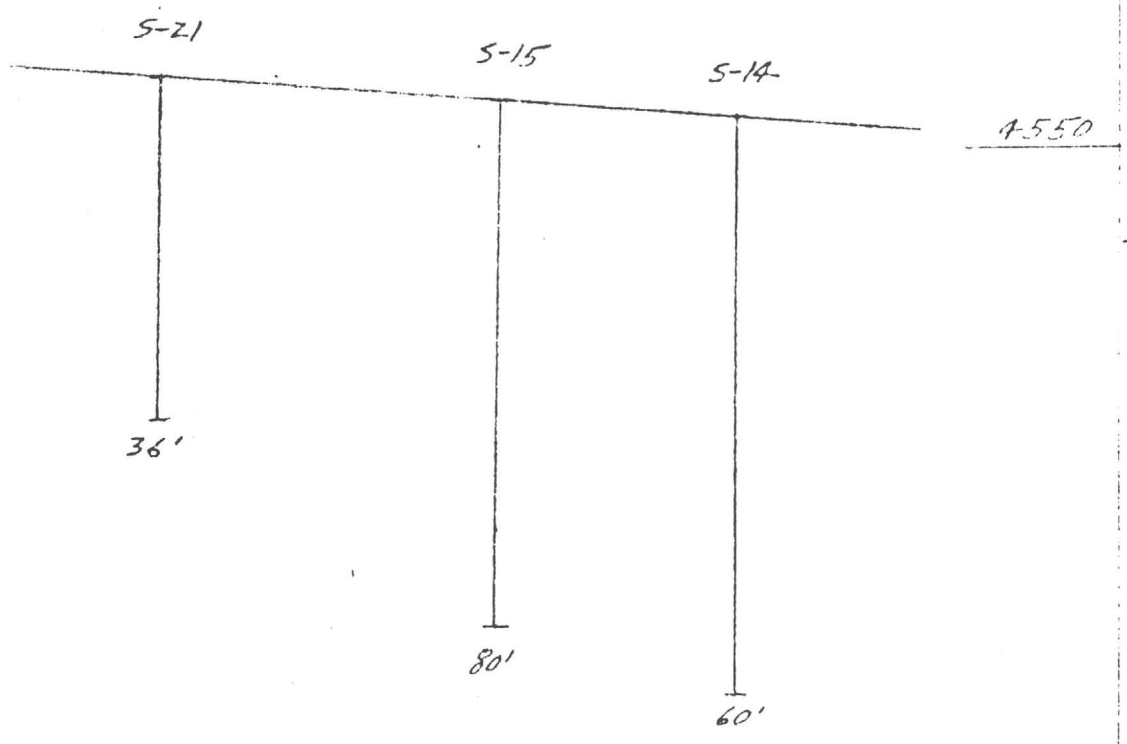

ROAD
S-24
1-600.0
S-29
13.3
14.3
S-25
03.9
S-27
14.6
S-26
08.8
14.4
S-28
16.1
16.6
S-31
10.7
Wider Mag.
Door Sill 01.2'
S-33
16.6
S-40
03.0
S-34
18.0
S-39
07.2
S-35
17.2
S-38
10.2
S-36
16.9
S-37
16.0
97.1
92.9
86.7
91.5
92.7
S-91
84.1
84.0
94.1
88.5
99.6
PVC
3" WATER LINE
TP-19
90.8
89.9
88.4
88.0
FILL
3900

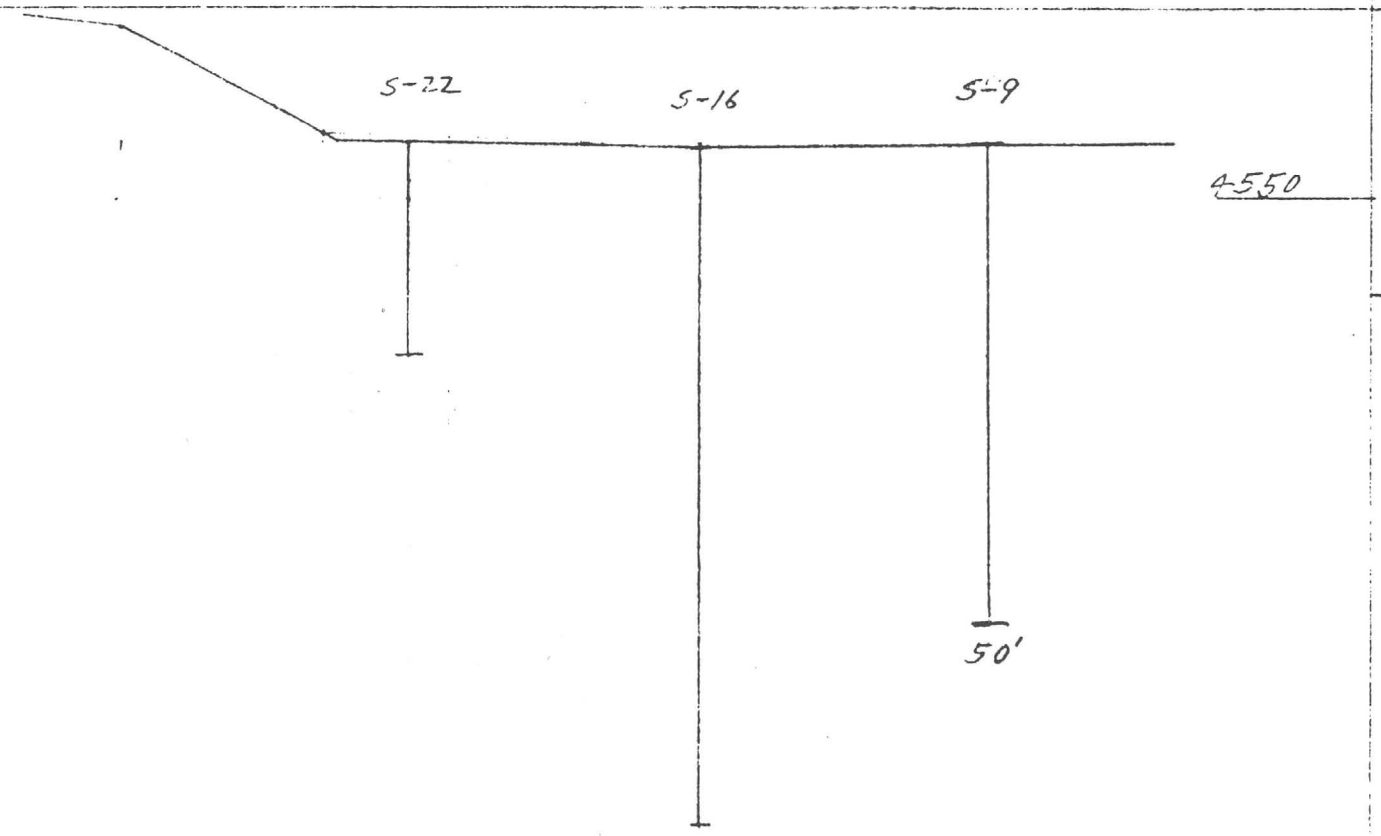

5-36
5
1.12
10
5
0.52
10
4600
55'
70'

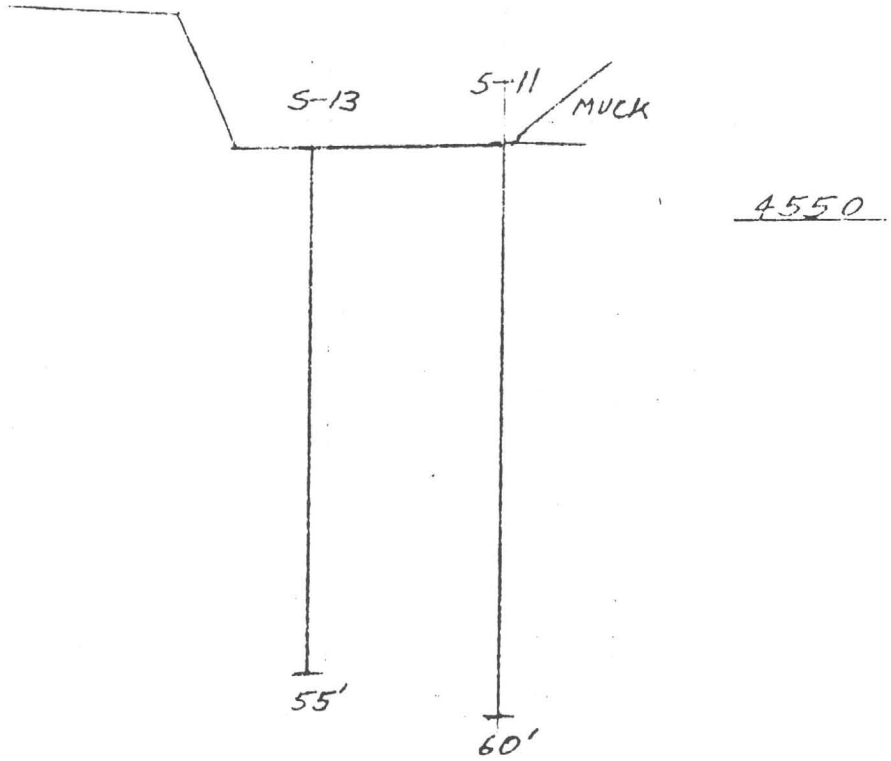

5-47
5-48
5-37
5
.44
10
4600
50'
45
0.62
50
70'
70'

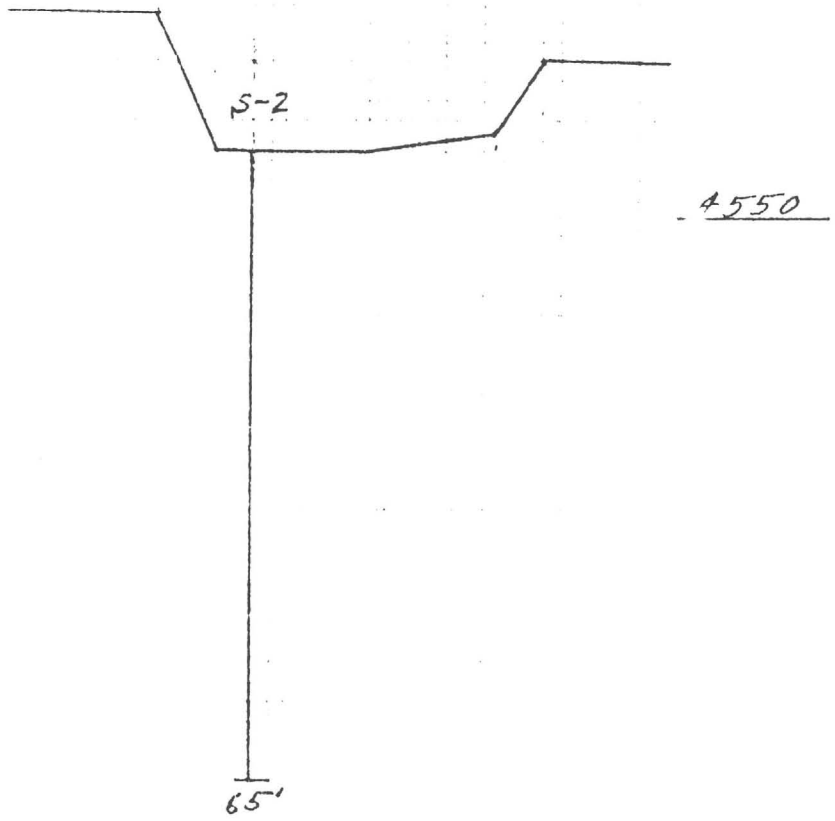

+100N
TP-17
4815.40
11.9
11.7
S-30
100
12.1
TP-18
97.1
ROAD
70'
S-24
4600.0
S-29
110
13.3
14.3
S-25
70
03.9
97.1
92.9
85.7
91.5
84.0
4000N
S-27
70
14.6
S-26
70
08.8
14.4
92.7
84.1
88.5
S-28
120
16.1
16.6
S-31
60
10.7
Door Sill 01.2'
25.7
S-33
16.6
70
99.6
S-40
03.0
30
TP-19
4602.41
S-34
50
18.0
S-39
25
07.2
3900N
S-42
75
31.7
S-35
70
17.2
S-38
20
10.2
S-41
15
29.4
S-36
70
16.9
S-37
70
16.0
3800N

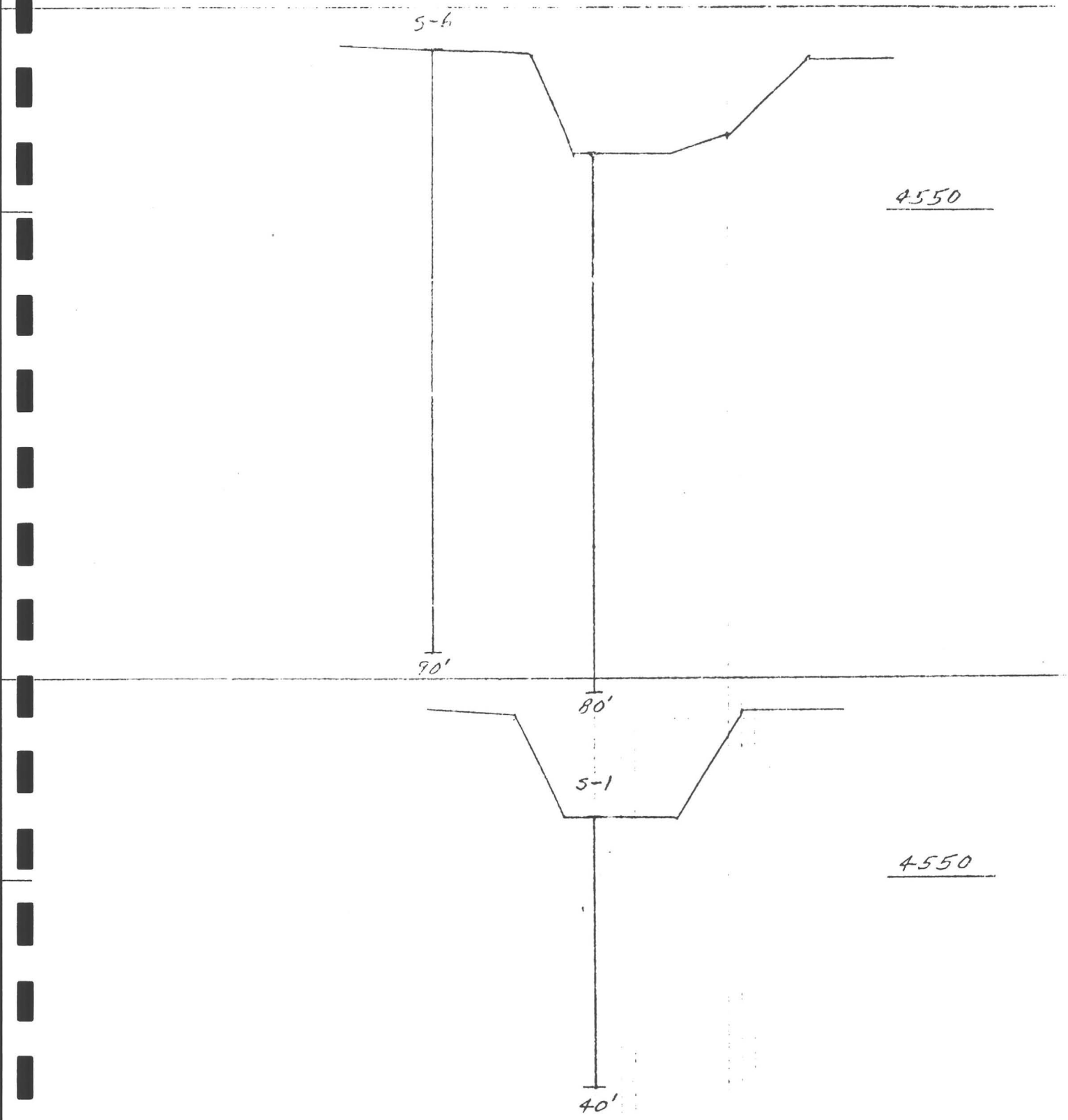

57.2
S.D.M. No. 2
68.2
58.5
57.1
S-9
56.0
1300N
58.0
S-10
56.9
57.1
70.4
S-8
56.8
S-7
70.1
65.3
S-3
57.1
S-4
58.5
71.9
TP-16
4571.57
S-13
58.3
S-11
S-2
56.9
58.5
70.5
S-6
74.2
60.0
1200N
S-5
74.1
73.8
S-12
60.9
70.1
73.1
S-1
59.6
75.0
64.8
62.8
73.1

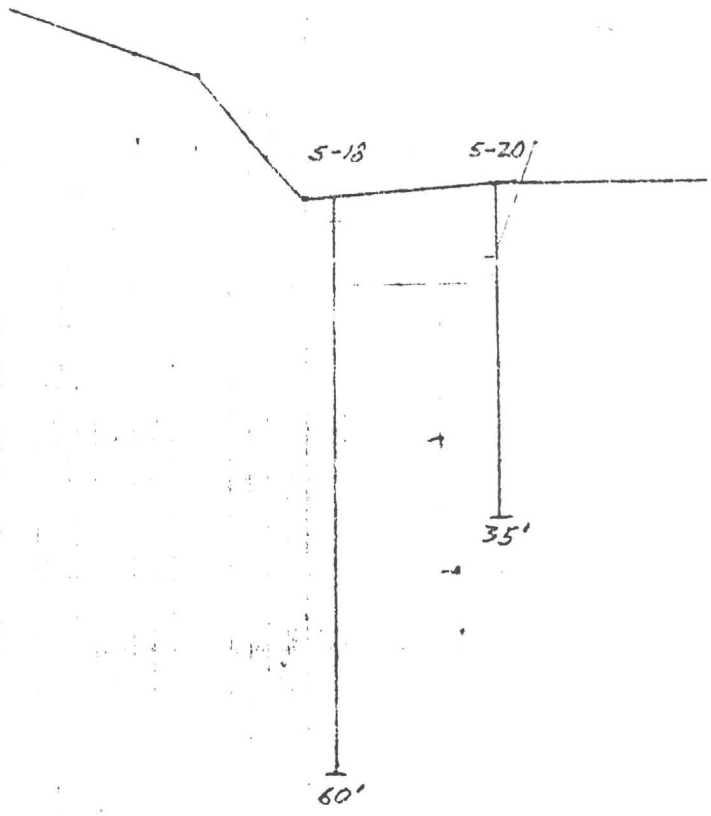

S-21
S-15
S-14
4550
36'
80'
60'


S-22
S-16
S-9
4550
50'

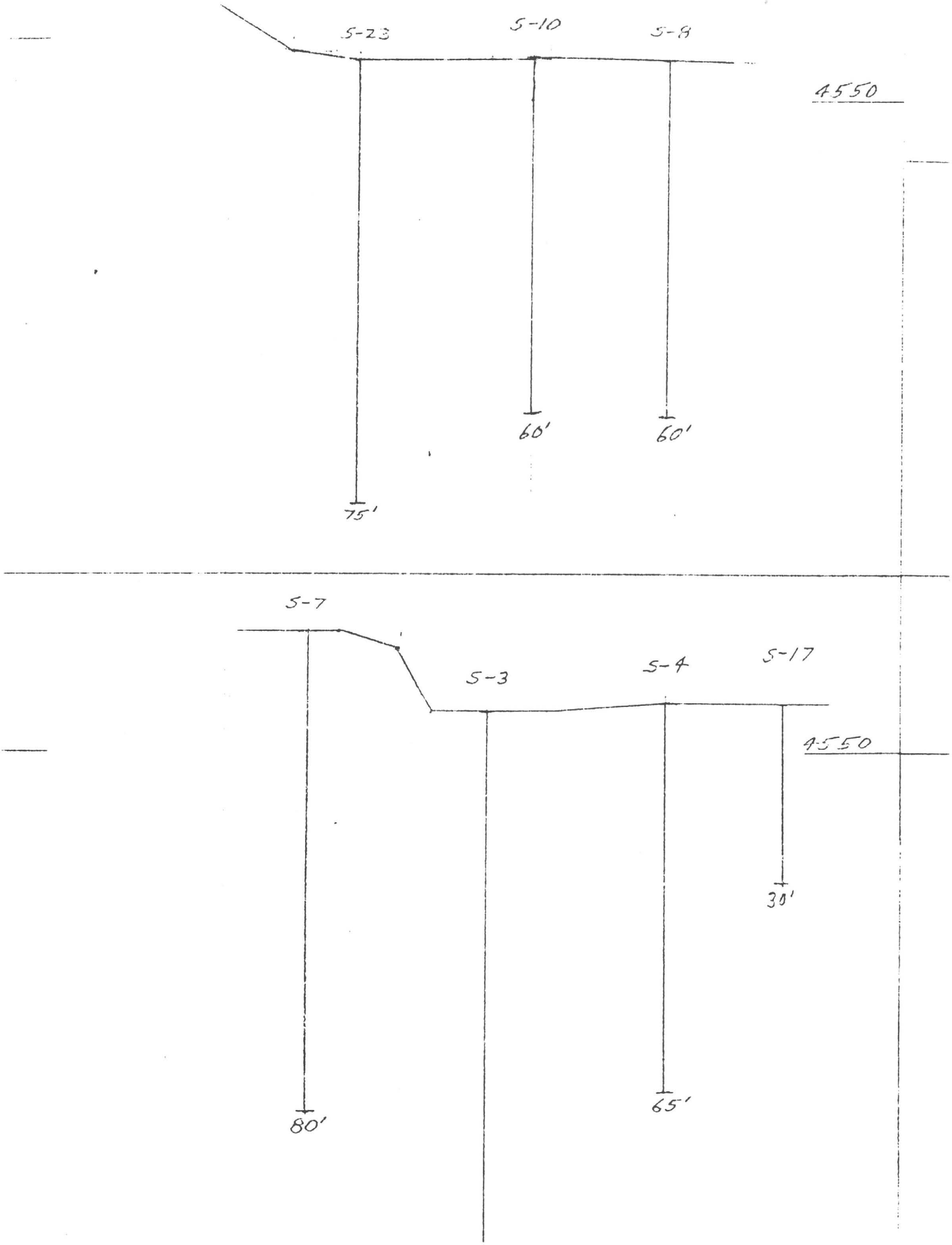

S-13
S-11
MUCK
4550
55'
60'

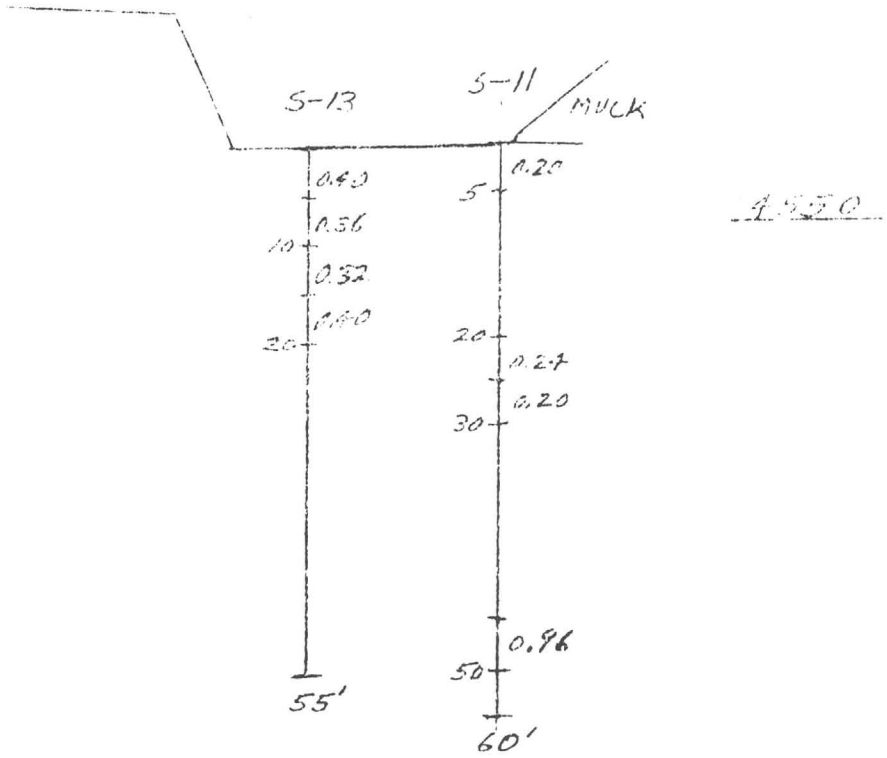

S-2
4550
65'


5-6
4550
90'
80'
5-1
4550
40'

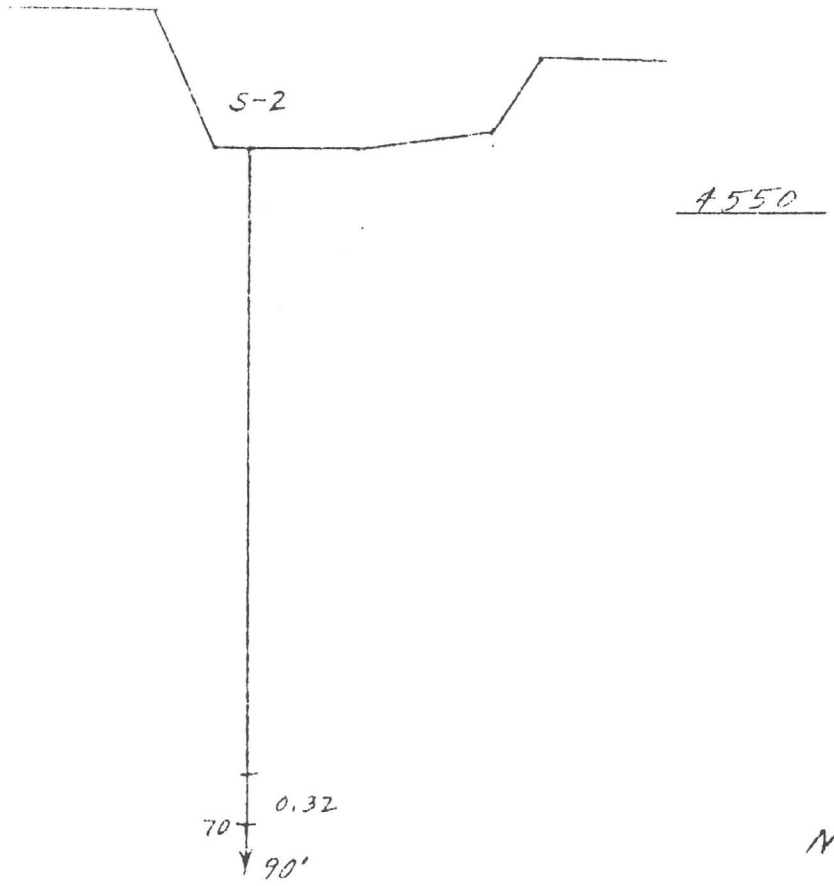


4550

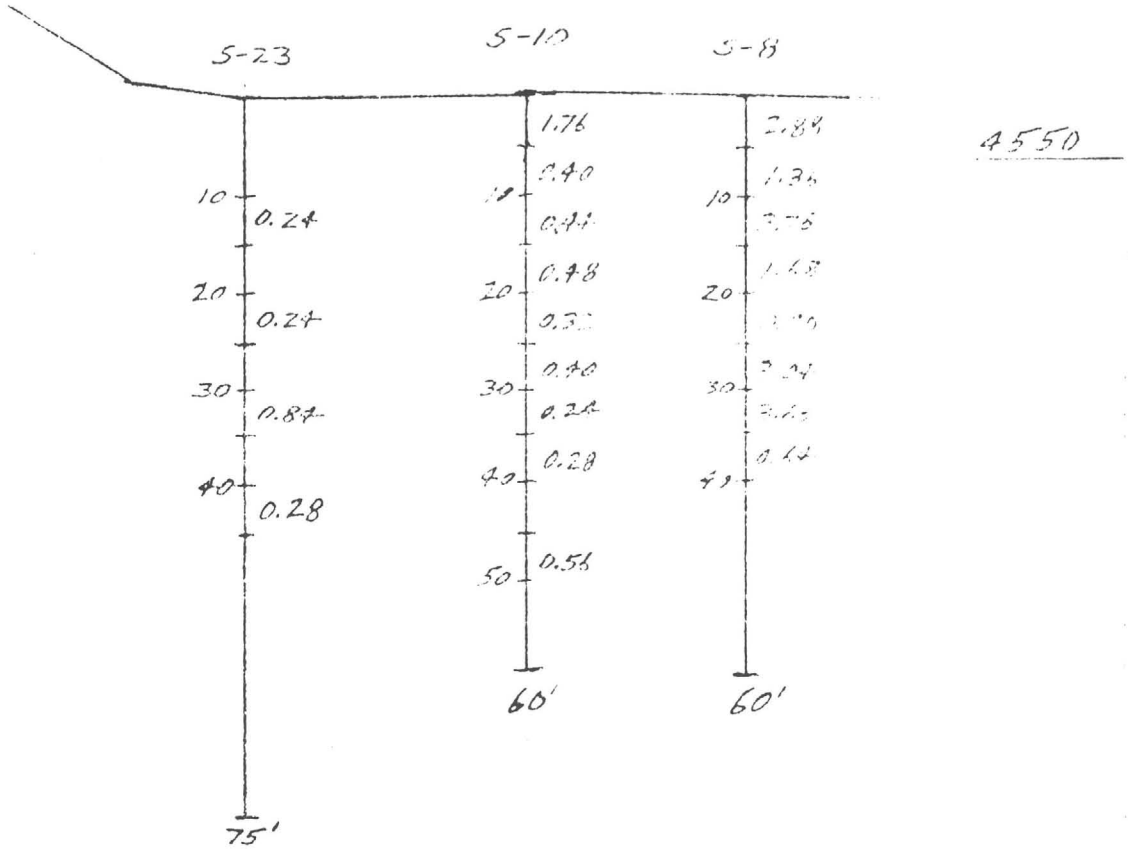

5-23
5-10
5-9
4550
60'
60'
75'
5-7
5-3
5-4
5-17
4550
30'
65'
80'


S-13
S-11
MUCK
0.40
0.56
10
0.32
0.40
20
55'
0.20
5
20
0.27
0.20
30
0.96
50
60'
4550

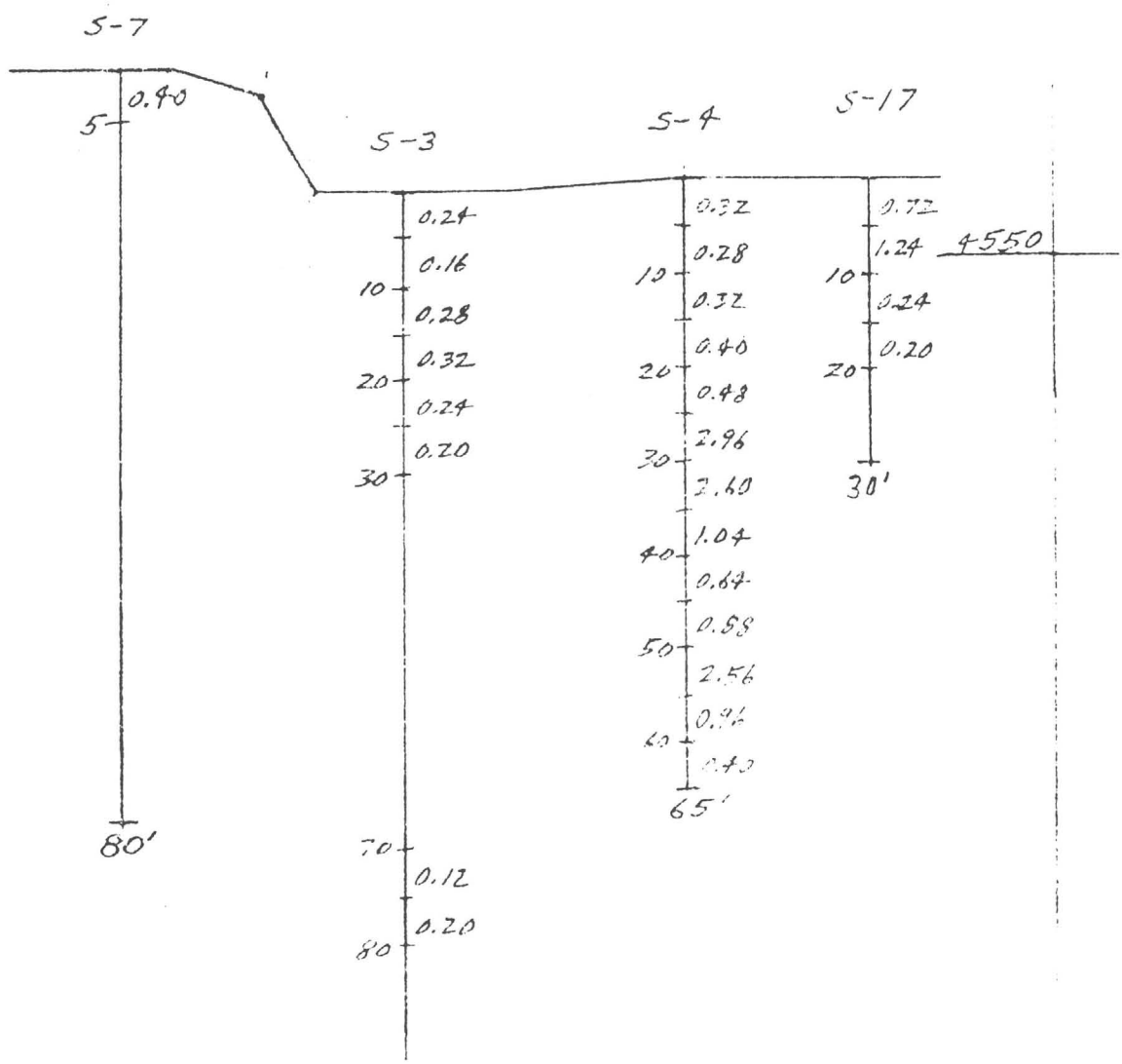
No. 13

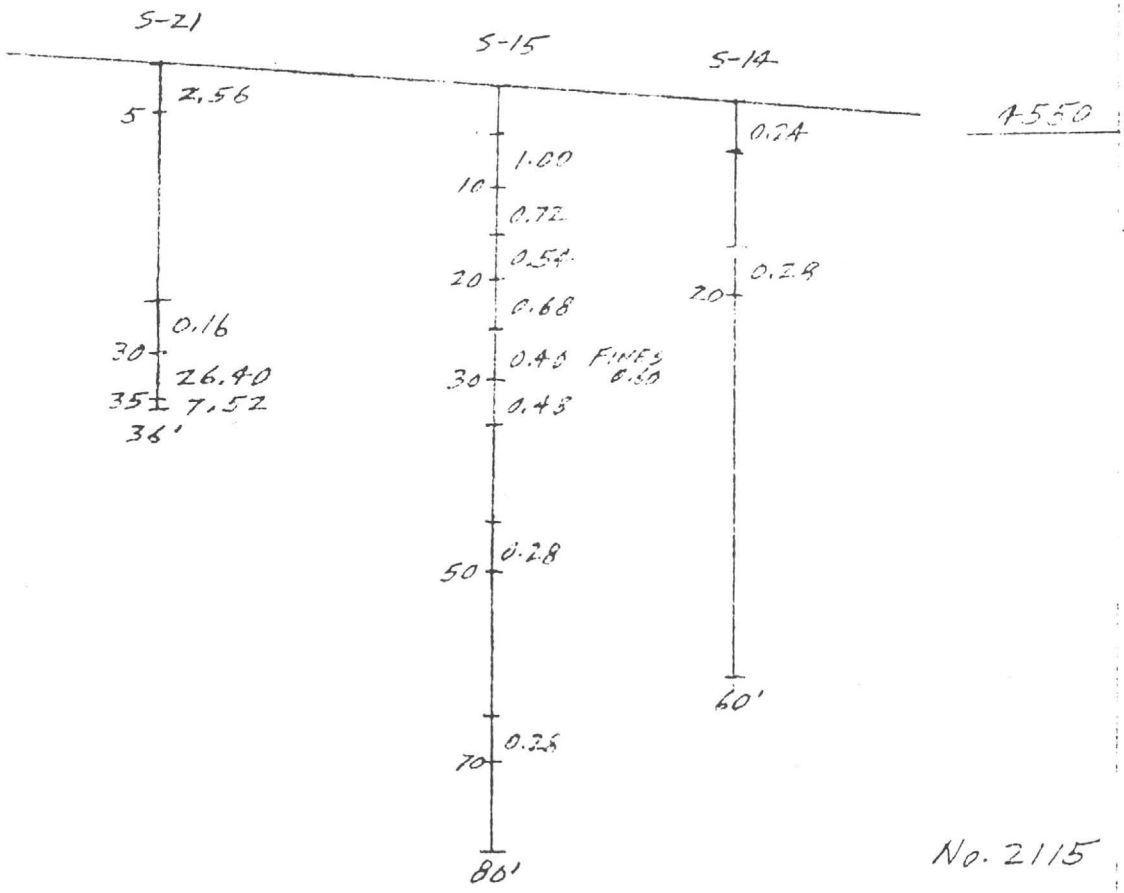

S-2
4550
0.32
70
90'

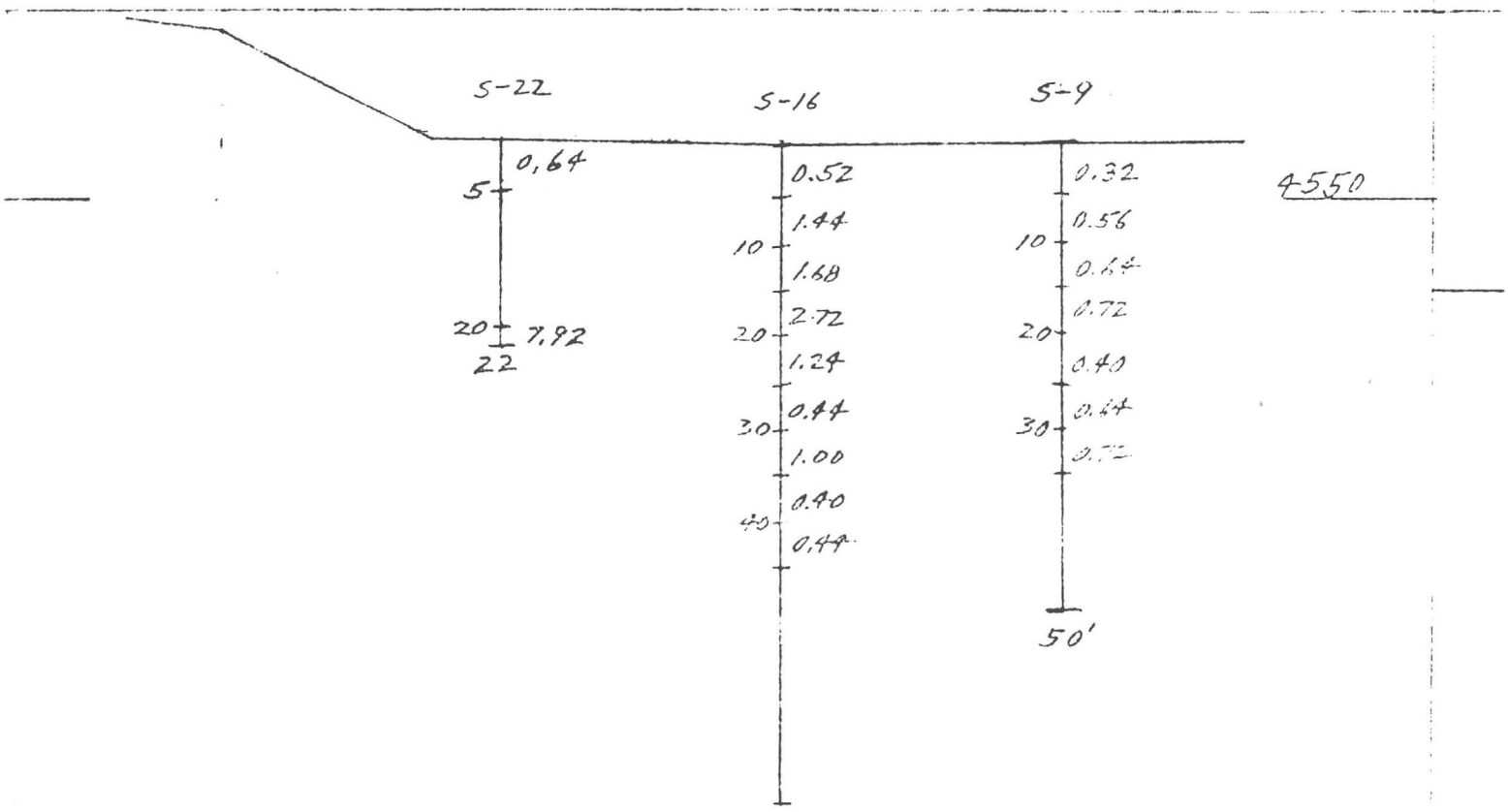
No. 00

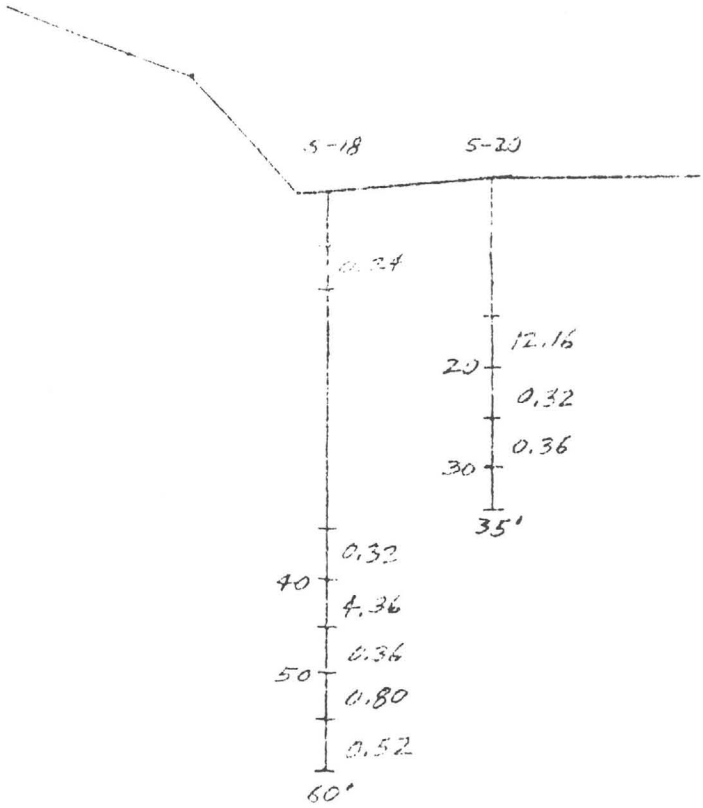

5-23
5-10
5-8
4550
10
0.24
20
0.24
30
0.84
40
0.28
75'
1.76
0.40
0.44
0.48
0.40
0.24
0.28
0.56
60'
60'

No. 2310


5-7
0.40
5
80'
5-3
0.24
0.16
10
0.28
0.32
20
0.24
0.20
30
70
0.12
0.20
80
5-4
0.32
0.28
10
0.32
0.40
20
0.48
2.96
30
2.60
1.04
40
0.64
0.88
50
2.56
60
65'
5-17
0.72
1.24
4550
10
0.24
0.20
20
30'

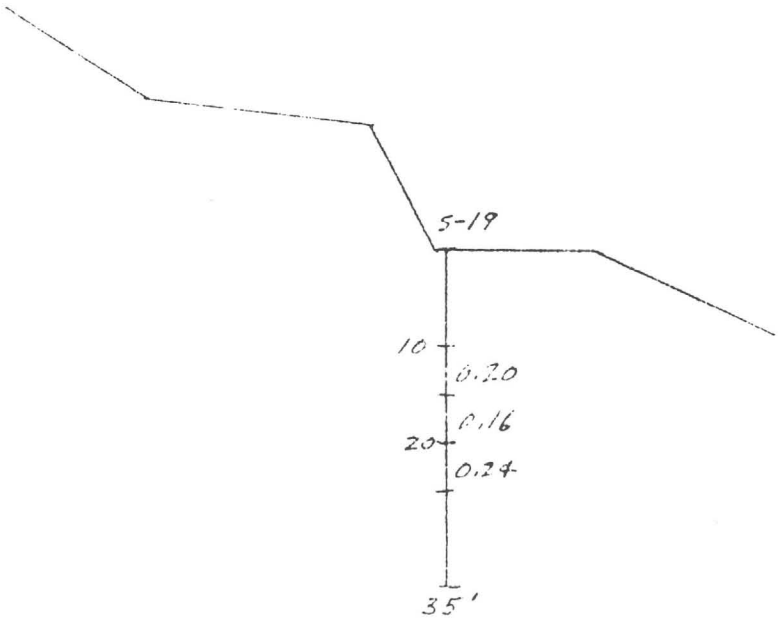

S-21
S-15
S-14
4550
5
2.56
0.16
30
26.40
35
7.52
36'
10
1.00
0.72
20
0.54
0.68
30
0.48
FINES 6.60
0.43
50
0.28
70
0.26
80'
0.24
20
0.28
60'
No. 2115


S-22
S-16
S-9
4550
5
0.64
20
7.92
22
0.52
10
1.44
1.68
20
2.72
1.24
30
0.44
1.00
40
0.40
0.44
0.32
10
0.56
0.64
20
0.72
0.40
30
0.44
0.72
50'

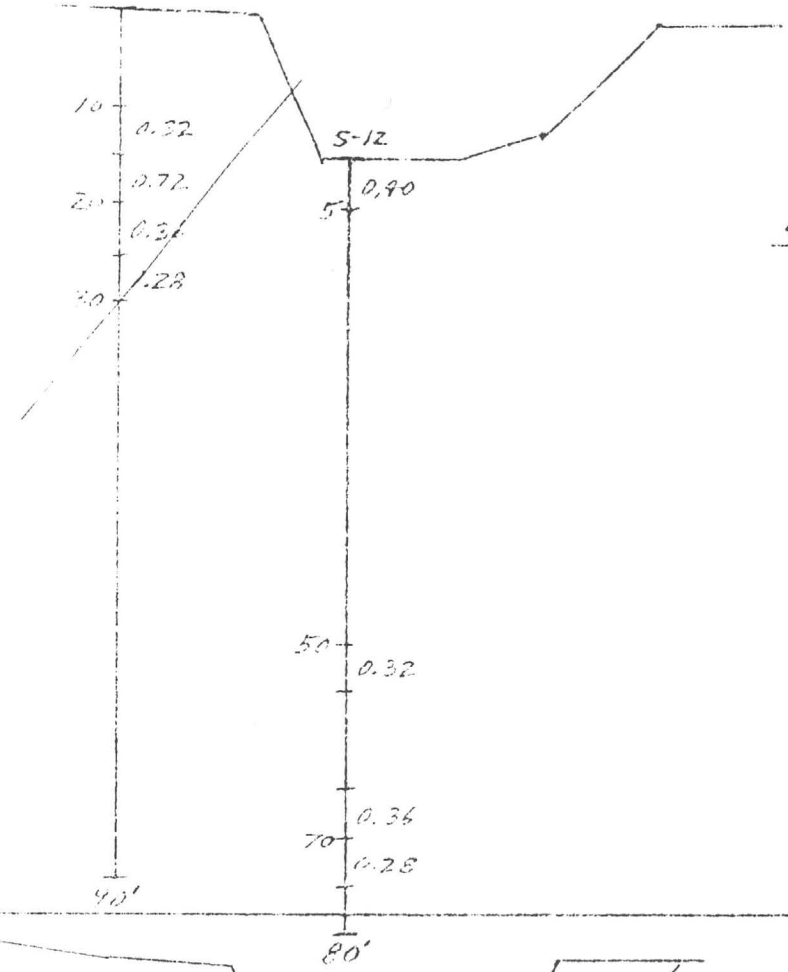


45

No. 1820

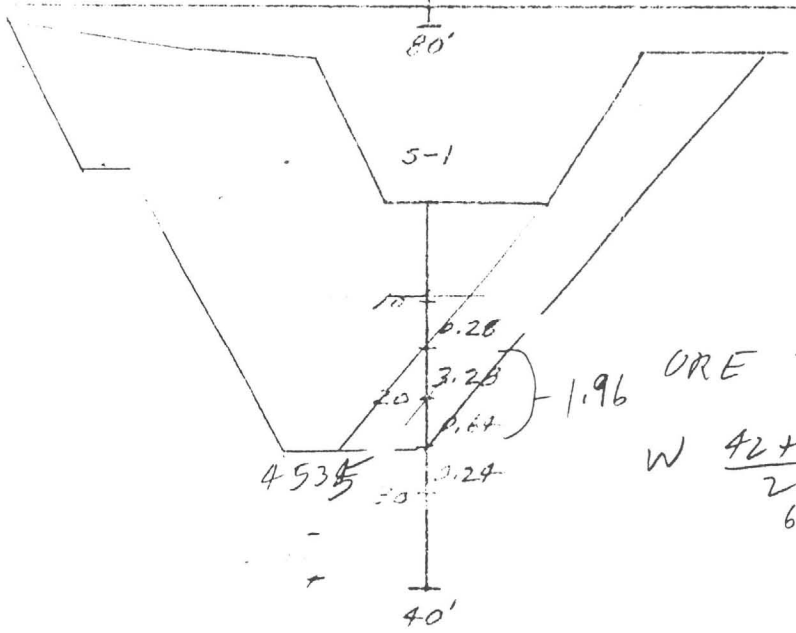


No. 0019



4550

No. 0612



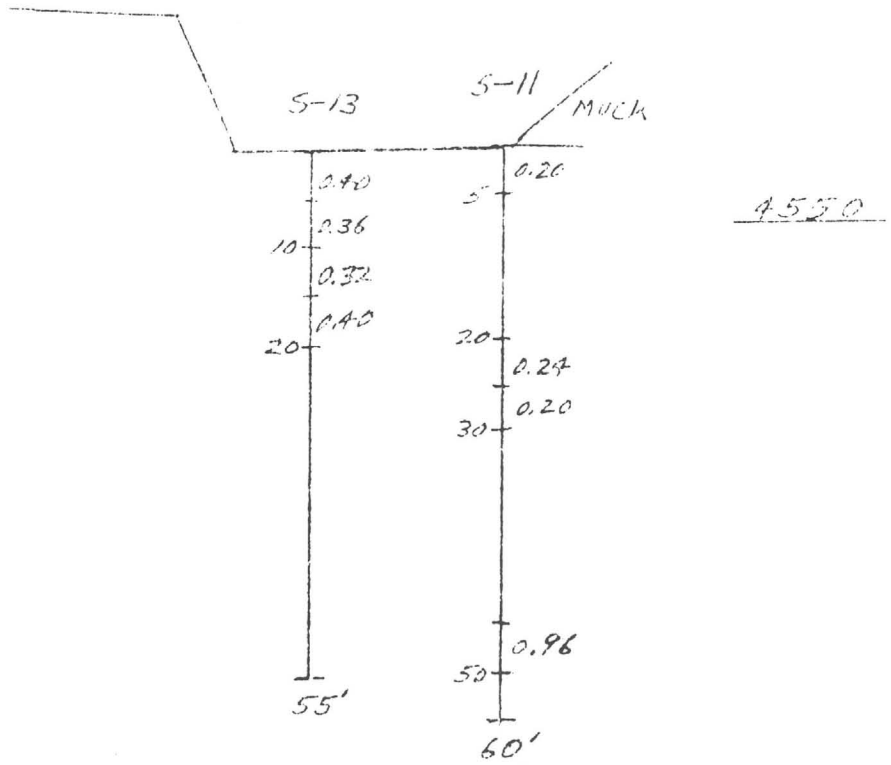
4550

ORE 7x54 = 378 ft² 1.96

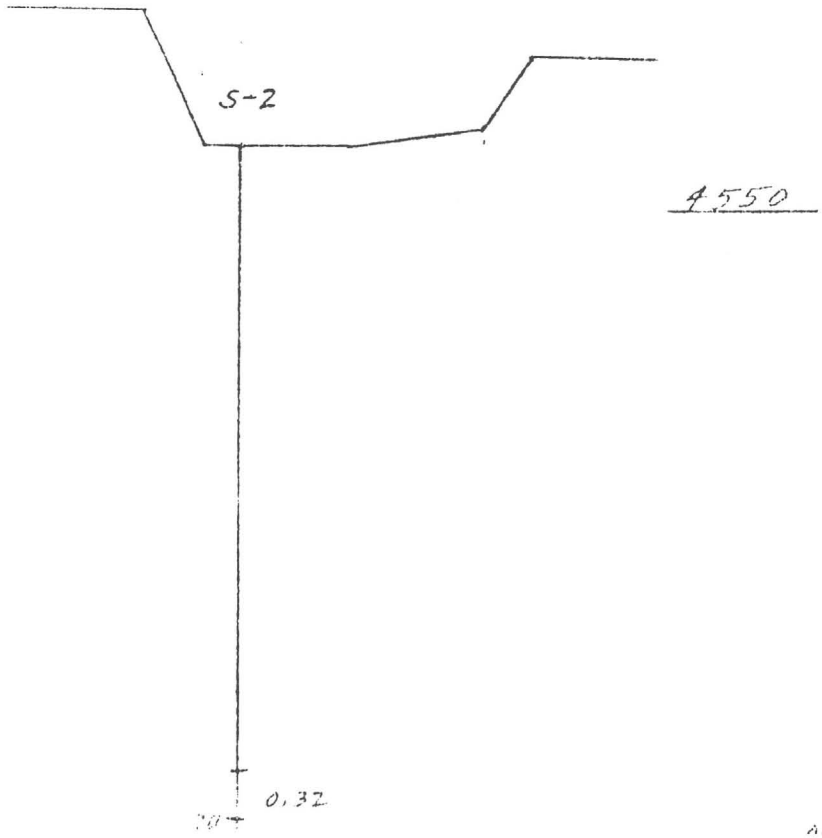
W $\frac{42+6}{2}$ x 25 + 28x15 1020
600 420

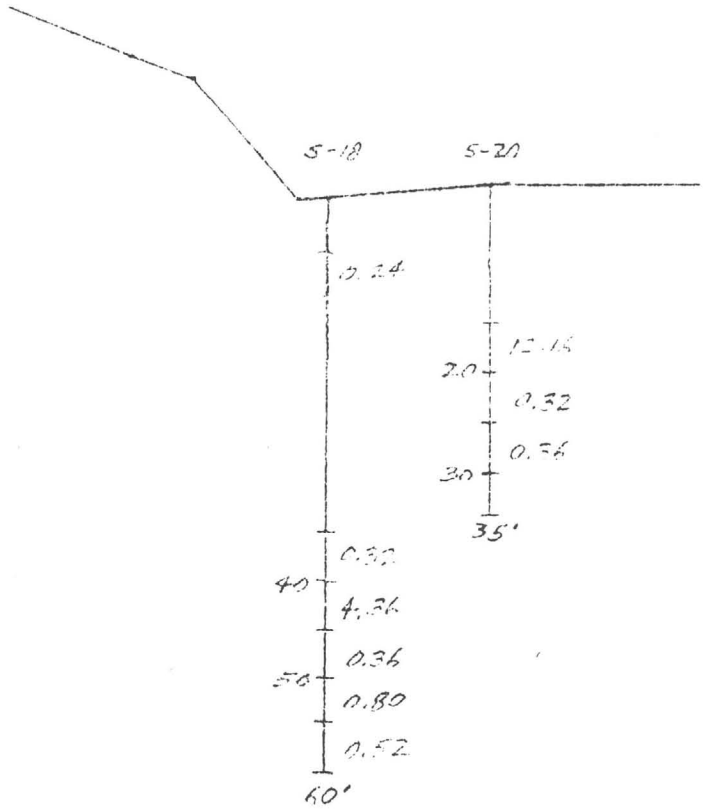
No. 0001

16.380
2.3 0.136 Fw 0.828
6.8 17.208
2.53


S-13
S-11
Muck
0.40
0.36
0.32
0.40
10
20
55'
0.20
5
20
0.24
0.20
30
0.96
50
60'
4550

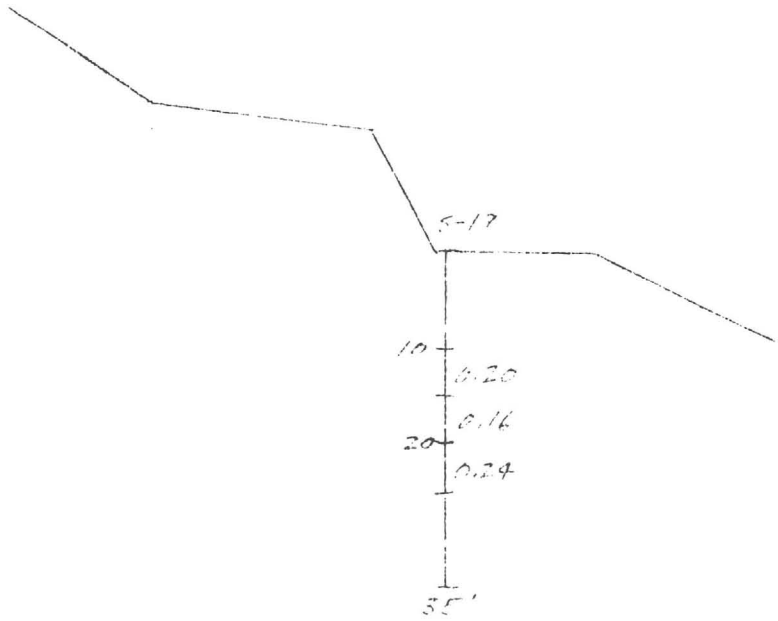
No. 13


S-2
4550
0.32



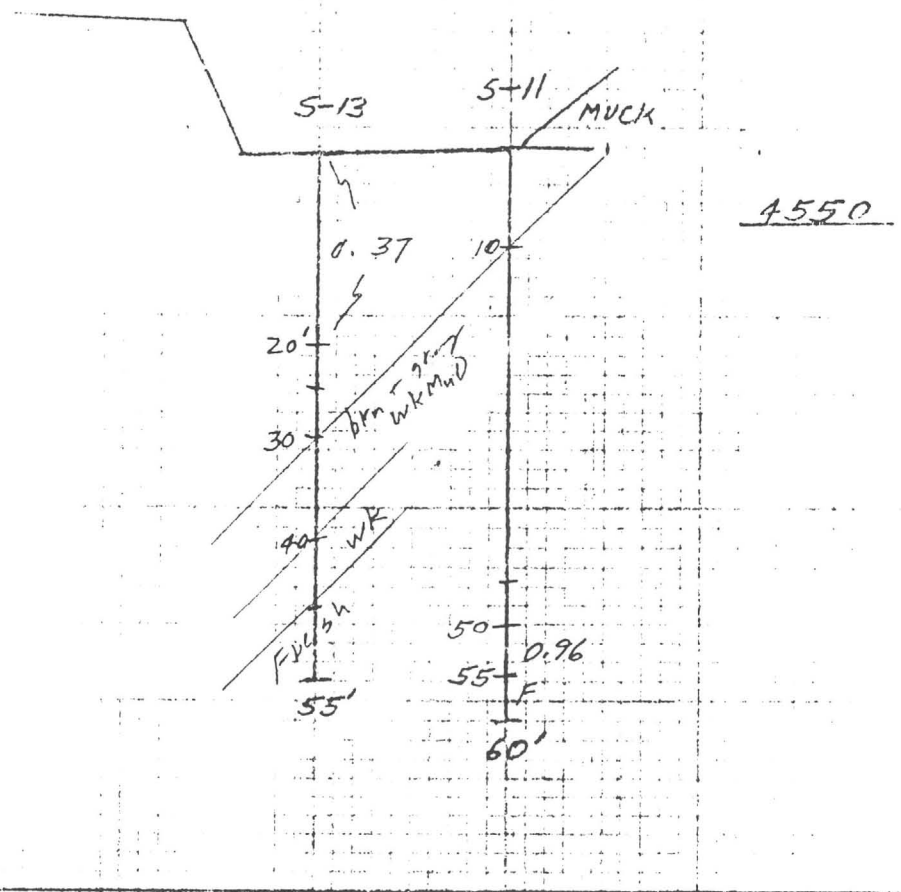
4550

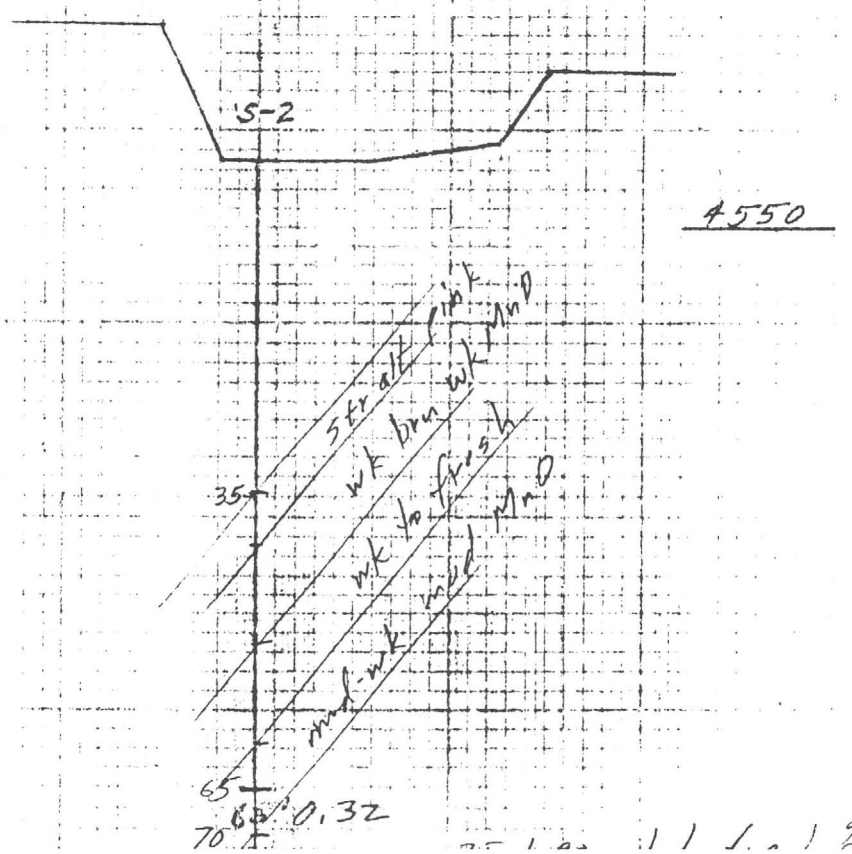
No. 1820

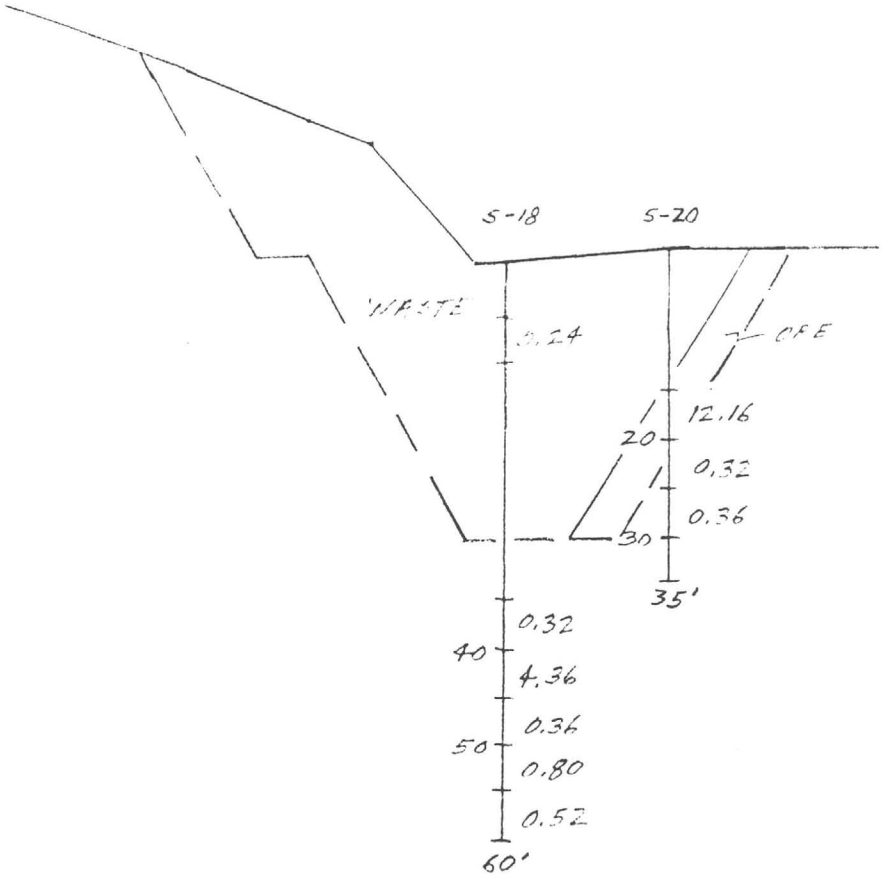


4550

No. 0019

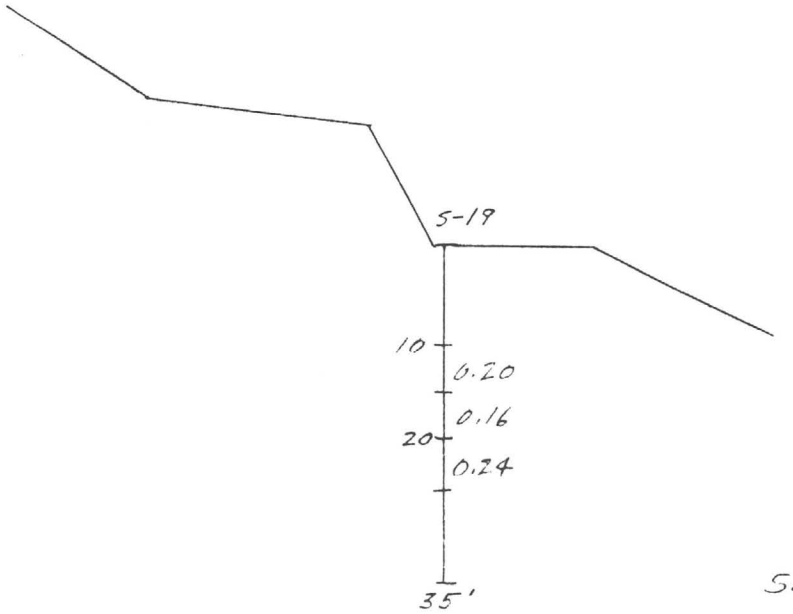

5-13
5+11
MUCK
4550
0.37
10
20'
brn
wk Mud
30
40
wk
fish
50
0.96
55
F
55'
60'


5-2
4550
35
wk brn
wk fish
mud
mud-wk
65
0.32
70



4550

SECTION S-1820



4550

SECTION S-0019

5-1 40'

0-10 Top Mod Alt Tan & Brn
10-15 " Str " lt gray
15-20 " " pink & lav
20-25 " wk " Brn wk MnO
25-33 " " " " Mod. MnO
33-40 " Fresh gray-grn

5-2 90'

0-10 Top wk alt Tan & Brn
10-25 " " " Brn & gray str MnO
25-35 " mod " " "
35-40 " str " lt gray wk pink
40-50 " weak " Brn wk MnO (? traces)
50-60 " v. wk to fresh gray & Brn
60-70 " mod. ~~weak alt~~ " " mod to str MnO
70-75 " ~~mod~~ alt Brn ~~mod to str MnO~~
75-85 " wk alt Brn & lt gray (5-3 ? 77-80)
85-90 " wk to fresh gray green

5-3

0-5 Top str alt pink-lav
5-10 " " lt gray
10-30 " mod to str gray & tan
30-35 " " alt tan
35-40 " " " tan & gray mod MnO
40-45 " wk " [illegible]

45-50	Tuf	mod alt	brn w/ wk Mn O
50-65	Tuf	wk & fresh	gray-gn w/ minor brn
65-77	"	Fresh	gray gn
77-80	"	Mod alt	brn
80-85		wk "	gray
85-90		wk "	Brn & gray
90-95		wk "	lt gray
95-100		mod "	lt gray & pink

5-4 (65')

0-5	Tvp	str alt	lav
5-10		"	tan & pink
10-15		"	pin & brn
15-20		"	brn
20-27		"	tan & gray
27-29			black intense MnO
29-30			qtzite (or qtz vn)
30-35	Tvp	" silicified	pink minor brn
35-40	"	" "	" & light gray
40-45	"	str alt	~~tan & pink & tan~~
45-50	"	"	dk gray Mod MnO (47-48 blk MnO)
50-55	"	mod "	tan & gray
55-60	"	wk "	tan
60-65	"	Fresh	dark gray

~~5-7 Fresh to brn 052'~~

5-5

0-5	Tvp	mostly fresh	
5-10		mod alt	brn wk MnO
10-15		str "	lav & lt. gray (30° Flt)
15-20		mod "	tan
-25		wk	gray & brn Mod MnOx
-30		wk & fresh	gray gn & some brn

5-6 (90')

0-5	Tup	mostly fresh	dk gray
5-10	mod alt	lt gray & tan	mod MnO
10-20	str "	lava w/ lt gray	See DH 5-5 10-15 (30° Flt)
20-25	"	tan & lt gray	
25-35	mod "	tan & gray	str MnO
35-40	"	tan	
40-~~45~~50	Fresh & wk	gray & ~~tan~~ minor tan	
50-55	Fresh	gray	
55-75	Fresh & wk	gray w/ minor tan	
75-80	mod to wk	~~ta~~ tan	
80-90	Same	tan wk MnO	

5-7 (80')

0-15	Tup	weak alt	brn & tan
15-20	Same		wk MnO
20-30	"	str alt	pink-lavo (30° Flt) S-3 0-5!
30-35	"	"	lt. gray
35-40	mod	"	tan mod MnO
40-45	wk	"	tan & gray
45-52	Fresh		gray S-3 65-77 ??
52-55	wk	alt	gray & tan
55-75	mod	"	tan minor lt gray
75-80	"	"	tan & ~~gray~~ minor fresh gray

5-8 60'

0-10	Tvp str alt	tan & pink	5-4 0-15'
10-30	"	pink & lt gray	
30-35	" "	lt gray intense MnOx	
35-45	mod "	" " " str "	
45-55	wk "	tan & gray	
55-60	Fresh & wk	mostly gray minor tan	

5-9 (50)

0-5	Tvp mod alt	tan
5-10	mod-wk	tan & lt gray minor pink
10-20	" "	lt gray minor pink
20-25	mod alt	tan lt gray minor pink
25-30	str "	lt gray minor pink
30-35	mod "	" " & tan wk MnO
35-40	str alt	" " str MnO
40-45	wk "	gray & tan
45-50	Mostly fresh w/wk	gray grn

5-10 60'

0-10 Top Str Alt Lav & pink
10-25 " " Brn-light gray-minor pink
25-35 mod " " " "
35-40 Same Same wk MnO
40-50 mod alt gray & brn wk MnO
50-55 wk " " " mod "
55-60 Fresh & wk " " Str "

5-11

0-5 Top Str alt lav & pink
5-10 " " lt gray & pink 5-12 25-30?
10-18 mod " brn minor pink
18-25 " " ~~[illegible]~~ pink minor brn
25-35 " " lt gray
35-45 " " gray
45-55 wk " brn & gray wk MnO
55-60 Fresh gray

S-13 55'

0-5	Typ str alt.	lt gray & pink
5-10	mod "	" " & brn
-15	" "	"
-20	" "	brn
-25	" "	gray minor pink
-30	str "	lt gray " " (5-11. 5-10?)
30-40	mod "	brn & light gray wk MnO
40-47	wk "	brn & minor gray
47-55	Fresh	gray

S-12 80'

0-10	Typ wk A17	Brn mod MnO (S-20-25) S-2
10-25	mod "	" mtlm lt gray ~~(S-20-25)~~ S-5-30
25-30	str "	" lt pink ~~(S-20-25)~~
30-50	mod	lt gray minor tan
50-60	"	lt gray & brn
60-70	mod to str	" "
70-75	wk	brn & gray mod MnO
75-80	fresh	gray

S-21 Fwd 2' No Hold Stope @ 36' Gob 36-37
S-22 " " 22'

-14

0-10	Top	strait	brn & tan - minor pink
10-25	"	"	pink & lav - minor tan
25-35		mod	lt gray
35-45		"	" " & ~~tan~~ brn
45-50		"	~~brn~~ " " " str MnOx
50-55		"	" " "
55-60	Fresh	hwk	Gray

-15 80'

0-5	Top	strait	ltgray ~~brn~~ pink brn clay (go)
-10		"	lav
-15		"	pink-orange (+lt ??)
-20		"	pink & lt gray
20-30		mod	brn " " wk MnO
30-35		wk	" " mod "
-45		mod	" "
-55		"	tan "
55-65		strait	lt gray (gouda) w/ minor tan
65-75		wk	brn w/ gray wk MnO
75-80		wk to fresh	~~brn~~ gray w/ brn

5-21

0-10 Pvl mod alt tan & lt gray

10-15 " " brn mod MnO

15-25 " " lt gray minor pink

25-30 str alt lavo & pink & lt gray

30-36 " " " " Holed U.G. @ 36

5-22

0-5 Pvl mod brn mod MnO

5-10 " tan

10-15 str tan & pink

15-22 " lavo & pink Holed U.G. @ 22

5-23

0-5 Pfresh gray grn mod MnO

5-10 str alt pink orange

10-20 " " lt gray & pink

20-30 mod " " " " & brn

30-40 " " tan & lt gray

40-45 " " " mod MnO

45-60 " lt gray & tan

60-65 " tan

65-75 wk to fresh Brn to gray grn wk MnO

5-16 70

0-5 Tup str alt opink-orange
5-20 " " pink & lt gray
20-40 mod " ~~Lo~~ brn & lt gray
40-45 str " " " Mod MnO
45-50 str pink & lt gray
50-55 " brn minor lt gray
55-60 mod wk MnO
60-70 wk to fresh gray & brn

5-17 30'

0-5 Tup mod alt brn
-10 fresh gray
-15 mod brn
15-25 wk gray & brn
25-30 fresh gray minor brn

2-18

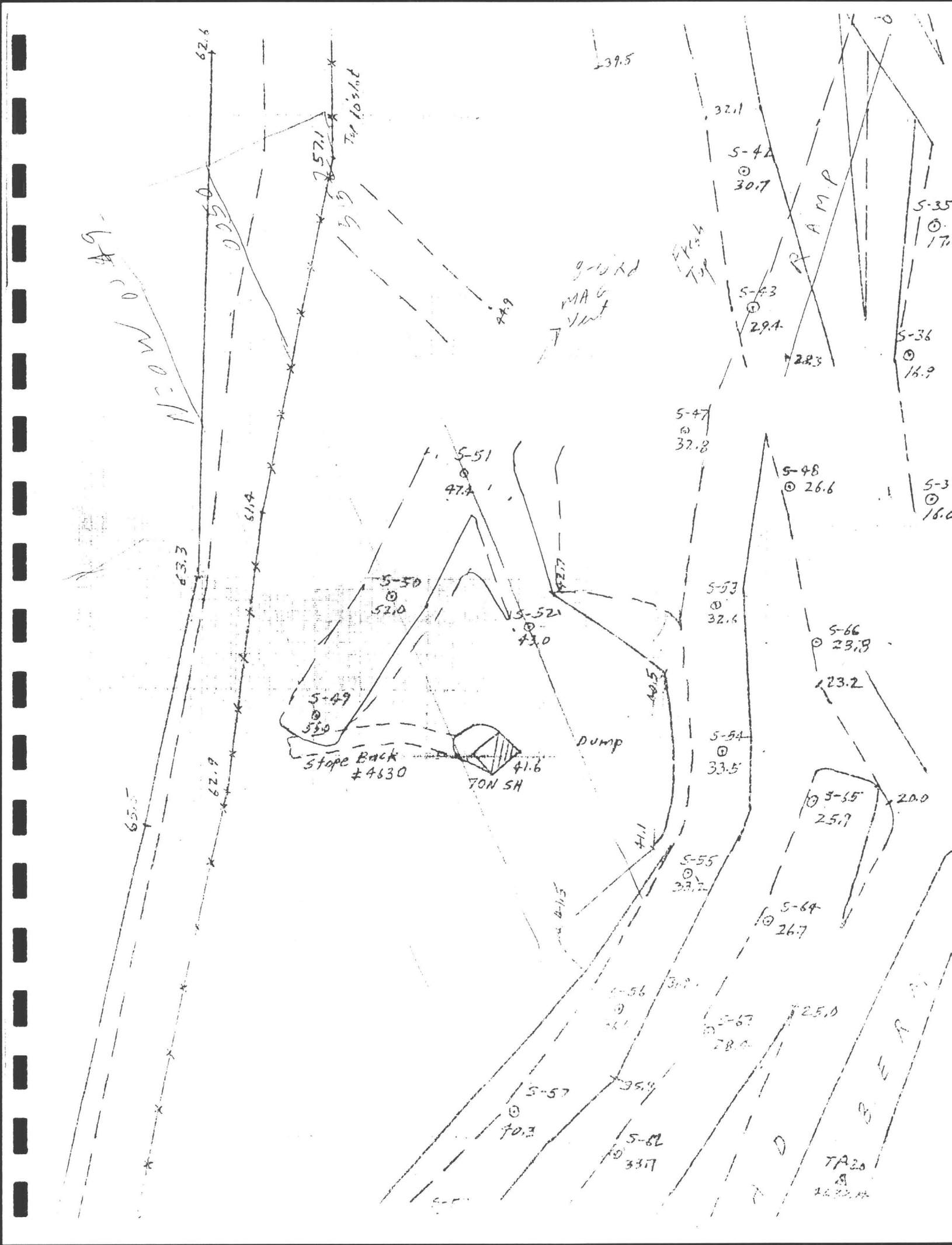
0-5	Tup str a/t	pink & lav (Hot & cold)
5-15	mod	lt gray & tan
15-25	"	lt " & tan, minor pink
25-40	"	tan
40-45	str	lav & pink
45-55		~~tan~~, lt gray & ~~[illegible]~~ wk Mud
55-60	fresh	gray grn

5-19

0-5	Tup mod	lt gray
5-15	"	~~[illegible]~~ tan & lt gray
15-20	str	gray
20-30	mod	~~tan~~ tan minor gray mod Mud
30-35	fresh	gray grn

5-20

0-10	Tup mod	lt gray some pink
10-15	str	tan & pink
15-20	"	pink minor lt gray
20-25	mod	lt gray & tan
25-30	wk	tan, mod Mud
30-35	wk & fresh	~~tan~~ lt gray grn wk Mud


62.6
57.1
Top 10'S.N.E
39.5
32.1
S-42
30.7
RAMP
S-35
17.
Fresh Air
S-43
29.4
28.3
S-36
16.9
MAG Vent
44.9
S-47
32.8
S-48
26.6
S-3
16.0
S-51
47.7
61.4
63.3
S-50
52.0
42.7
S-52
43.0
S-53
32.6
S-66
23.8
23.2
40.5
S-49
55.0
Stope Back
≠4630
41.6
TON SH
Dump
S-54
33.5
S-65
25.7
20.0
62.9
65.5
41.1
S-55
33.2
S-64
26.7
S-56
S-67
25.0
S-57
40.3
35.9
S-62
33.7
TP 2.0

No Receipt

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 26, 1984

Tombstone Silver Mines
Page 2

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S 27	5-10	0.12	trace	0.02			
	10-15	0.16	trace	0.04			
	15-20	0.12	trace	0.04			
	20-25	0.12	trace	~~0.04~~	N.I		
	25-30	0.08	trace	N.I			

Method of Analysis: Acid Digestion & MIBK Au

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
9-26-84
Date Signed
ARIZONA U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
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September 26, 1984

Tombstone Silver Mines
Page 2

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S 27	5-10	0.12	trace	0.02			
	10-15	0.16	trace	0.04			
	15-20	0.12	trace	0.04			
	20-25	0.12	trace	~~0.04~~ Nil			
	25-30	0.08	trace	Nil			

Method of Analysis: Acid Digestion & MIBK Au

REGISTERED ASSAYER
CERTIFICATE No.
14160
GARY ALVIN
LINDROOS
Date 9-26-84
Signed
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 1, 1984

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

W6

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER	FIRE		
S 27	30-35	16.40	0.005	0.02	14.60	0.005	
S 28	0-5	1.84	0.003	0.06			
	5-10	0.16	trace	0.02			
	40-45	0.08	trace	0.02			
	95-100	0.12	trace	0.02			
S 29	0-5	0.40	0.003	0.14			
	5-10	0.08	trace	0.04			
	65-70	0.16	trace	0.02			
	90-95	12.80	0.015	8.80			
	95-100	2.20	0.003	1.70			
	100-105	1.12	0.003	0.42			
	105-110	0.20	0.005	0.06			
S 30	0-5	0.48	0.003	0.36			
	25-30	0.28	0.003	0.04			
	30-35	0.64	0.005	0.12			

Method of Analysis: Acid Digestion (MIBK Au)

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-1-84
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 1, 1984

Tombstone Silver Mines
Page 2

CERTIFICATE OF ANALYSIS

Sample Identification	Ag Oz/T	Au Oz/T				
S 30 ✓35-40	0.36	0.003	0.20			
✓40-45	0.24	0.003	0.06			
✓ 45-50	0.32	0.008	0.08			
2 Level #1	0.44	0.011				
2 Level #2A	0.12	0.005				
2 Level #2B	0.08	trace				
2 Level #3	4.40	0.008				
2 Level #4	0.32	0.005		BEFORE PULV.		
Special (9-28-84) STANDARD	2.12	0.018		1.68	0.008	

Method of Analysis: Acid Digestion (MIBK Au)

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-1-84
ARIZONA, U.S.A.

LINDROOS LABORATORIES

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Phone: 457-3132

October 3, 1984

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

CERTIFICATE OF ANALYSIS

Sample Identification	Ag Oz/T	Au Oz/T	SHAKER			
S 31 45-50	0.04	trace	0.02			
S 32 0-5	0.60	0.012	0.34			
5-10	0.08	0.004	0.04			
S 33 0-5	0.20	0.016	0.04			
5-10	0.32	0.016	0.02			
S 34 0-5	0.64	0.012	0.16			
5-10	0.52	0.008	0.08			
10-15	0.08	trace	0.02			
25-30	0.24	trace	0.02			
S 35 0-5	0.32	trace	0.08			
5-10	0.24	0.004	0.02			
10-15	0.40	0.012	0.06			
S 36 0-5	0.08	trace	0.02			
5-10	0.52	0.008	Nil	FIRE		
S 27 30-35 (Rerun)	16.04	0.005	0.04	14.60	0.005	

Method of Analysis: Acid Digestion (MIBK Au)

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed
ARIZONA, U.S.A.

LINDROOS LABORATORIES

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Phone: 457-3132

October 7, 1984

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S 37	✓45-50	0.62	0.008	0.20			
	50-55	0.18	0.003	0.10			
S 39	0-5	0.08	trace	0.02			
S 41	15-20	0.04	trace	Nil	FIRE		
S 42	✓20-25	1.68	0.018	0.76	2.30	Tr	
	30-35	0.16	0.005	0.04			
	50-55	trace	0.003	0.06			
	✓55-60	0.60	0.008	0.30			
	✓60-65	0.52	0.008	0.10			
S 43	✓5-10	1.12	0.005	1.66	1.14	Tr	
	10-15	0.16	0.001	0.12			
	15-20	0.12	0.001	0.12			
	20-25	0.12	trace	0.14			
	25-30	0.18	trace	0.08			
	30-35	0.04	trace	0.06			

Method of Analysis: Acid Digestion

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-8-84
ARIZONA, U.S.A.

LINDROOS LABORATORIES
GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
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Phone: 457-3132

October 7, 1984

Tombstone Silver Mines
Page 2

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T		FIRE		
S 43	45-50	trace	trace	0.02			
T 1	20-25	trace	trace	0.04			
	30-35	0.20	trace	0.04	0.18	Tr	
	35-40	0.16	trace	0.04			
	40-45	0.24	trace	0.04			
	60-65	0.16	trace	0.02			

Method of Analysis: Acid Digestion

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
10-7-84
Date Signed
ARIZONA

S-4 10-43

LINDROOS LABORATORIES

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Phone: 457-3132

October 18, 1984

Tombstone Silver Mines
Page 2

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S-47	0-5	0.16	0.004	0.06			
	5-10	0.44	0.008	0.16			
	10-15	0.12	0.004	0.04			
	45-50	0.04	trace	Nil			
SV-16	0-5	0.68	0.012	0.14			
	5-10	0.48	0.008	0.06			
	25-30	0.12	0.004	0.06			
	30-35	0.32	0.004	0.10			
SV-17	0-5	0.44	0.008	0.06			
	10-15	0.72	0.016	0.24			
	15-20	4.72	0.016	0.64			
	20-25	2.24	0.020	0.30			
	35-40	3.20	0.012	0.44			

Method of Analysis: _____

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date Signed 10-17-84
ARIZONA, U.S.A.

Gary A. Lindroos

24

0-10	Top mod alt	tan minor pink	
10-15	Str	lav & pink	
15-20	"	lt gray minor pink	Vn ??
20-25	"	lav	
25-30	"	pink & lt gray	
30-40	mod	lt gray	
40-45	"	" wk MnO	Fw
45-50	"	" & tan	
50-60	"	tan wk MnO	N 50 W MnO
60-70	wk to fresh	brn & minor gr grn	mod MnO

5-25

0-10	Top Str alt.	pink & lt gray	Fit Fit
10-15	mod	lt gray	
15-30	mod	tan & " "	
30-35	Str	" " " & pink	Vn
35-45	"	lav & pink	
45-50	mod	tan & lt gray	
50-55	wk	tan & mod MnO	Fw
55-65	fresh	brn	
65-70	"	brn & gray	

C-26

0-15	Tup str alt	pink & lt gray	Flat Flt
15-20	mod "	lt gray & tan	
20-25	" "	tan wk MnO	
25-35	wk	lt gray " "	
35-45	" "	tan & " "	
45-50	str	pink & lt gray	(5-25 35-45) V_n
50-55	wk	brn mod MnO_2	Fw
55-65	wk	" & tan wk "	
65-70	Fresh	Brn & gray	

C-27

0-10	Tup str	lt gray & pink	
10-15	"	pink w/ wg lt gray	
15-20	"	orange pink	Flat?? Flt??
20-27	"	pink & gray	
27-35	mod	tan	Mod MnO (Fw)
35-45	"	brn	V. wk MnO
45-70	wk & Fresh	Fresh gray gn & about one foot toes wk brn.	

5-28

0-15	Tup wk alt	tan & lt gray	
15-25	" " "	brn wk MnO	
25-38	" str "	tan lt gray	Flat fit
38-65	" Fresh	gray gn	
65-75	wk	tan	
75-80	Fresh	gray gn	
80-88	str	tan & lt gray	
88-90	Fresh	gry gn	
90-100	wk	tan	
100-115	wk	~~tan~~ brn minor gry gn	
115-120	Fresh	gray gn	

5-29

0-5	Tup str alt	lav & pink	Flat Fit
5-10	" "	Lt gry	
10-20	" "	" " & pink	
20-30	mod "	" " & tan wk MnO	
30-35	wk	tan & gray str "	
35-40	Fresh	gry gn minor brn	
40-50	wk	tan & gray	
50-60	mod	tan & lt gry	
60-70	str	~~tan~~ " " pink	
70-85	mod	lt gry & brn	
85-90	mod	lt gray	
90-105	str	" " & pink	
105/110	wk	tan & brn wk MnO	
	Fresh	brn	

5-30

0-5 Top Fresh gray gn
5-10 " " " minor brn wk MnO
10-15 " Mod tan
15-25 str lav & pink
25-40 " lt gray & pink
40-50 mod tan lt " "
50-55 wk tan wk MnO
55-100 Fresh gray gn w/ minor brn

5-31

0-5 Top Mod brn & gray ~~str~~ Mod MnO
5-10 str lt gray & tan Flat Flt brn & gn
10-22 wk to Fresh brn & gray gn wk MnO (10-15)
22-40 Mod tan & lt gray
40-45 str lt gray & pink
45-50 mod brn w/ wk MnO
50-60 fresh gray gn. minor brn

5-32 17' Mag. Vent. hole
0-5 Top fresh gray gn
5-15 wk alt tan
15-17 fresh gray gn holed magazine

5-33 70'

0-5 Tup Mod alt tan

5-10 Str tan mod MnO F

10-15 " tan wk " Flat Fit

15-35 Mod Brn & tan

35-40 " " " wk MnO

40-55 Str tan, brn, minor pink Vn

55-65 Fresh gray grn

65-70 wk gray & tan

(50') 0-5 Tup Str alt tan & pink) Flat Fit

5-15 " " tan, gray, brn

15-30 Str-mod tan & gray wk MnO Vn ??

30-35 wk " " Mod MnO

35-45 Fresh gray grn

45-50 " & wk " " & brn

5-35 (70')

0-5	Tup	Mod Alt	tan	
5-10	"	"	tan & gray	wk MnO
10-15	"	"	"	"
15-20	"	"	"	" Mod MnO
20-30	Str		tan & brn	Flat Fit?
30-35	Mod	"	"	wk MnO
35-47	Fresh tonk		gray gn w/ brn	
47-60	Str alt		tan, pink, & brn	Vn ?
60-70	Fresh		gray gn	

5-36 (70')

0-5	Tup	Mod Alt	gray, pink, tan	
5-10	"	"	" " "	Str MnO
10-20	Str	"	tan & brn	Flat Fit??
20-37	Fresh		gray gn	
37-55	Fresh	"	" w/ Mod Alt brn	
55-65	Mod to Str		gray, tan, brn	wk MnO Vn
65-70	Fresh		gray gn	

-37 70'

0-5 Tup Mod Alt gray tan Str MnO

5-15 Mod to Str " gray, tan & brn

15-20 wk brn

20-30 Fresh gray gn

30-35 " to Weak " " & brn

35-45 " minor wk brn

45-50 Mod Alt brn Mod MnO

50-55 St " tan, gray, pink Vn ?

55-60 mod gray & brn

60-70 Fresh gray gn

-38 20'

0-5 Tup Str lt gray tan brn

5-10 wk gray gn & tan

10-20 Fresh gray gn

5-39 25'

0-5 Tup wk to str lt gray minor brn wk MnO

5-15 Mod to wk tan brn

15-25 Fresh gray gn

5-40 30'

0-10 Tup Mod Alt lt gray & tan

10-20 " " brn, tan

20-30 Fresh gray gn

-41 ~~55~~ (45' Relog)

0-15 Tup mod alt lt gray tan brn wk MnO

15-25 str " " " " " " "

25-35 mod " " " " str "

35-40 str " " " " pink

40-50 mod " " " "

50-55 weak to fresh gray grn & tan mod MnO

-42 75' (8' W to fresh)

0-10 Tup Mod Alt lt gray & tan wk MnO

10-20 " " tan

20-25 str " lt gray & pink str MnO

25-35 " " " "

35-55 mod gray minor tan

55-60 str lt gray & tan wk MnO

60-65 mod gray & tan mod "

65-75 Fresh & weak gray grn & brn 65-70 wk "

-43 65' (3' W to fresh)

0-5 Tup Str Alt Brn & pink

5-10 " " lav & pink

10-25 " " tan & "

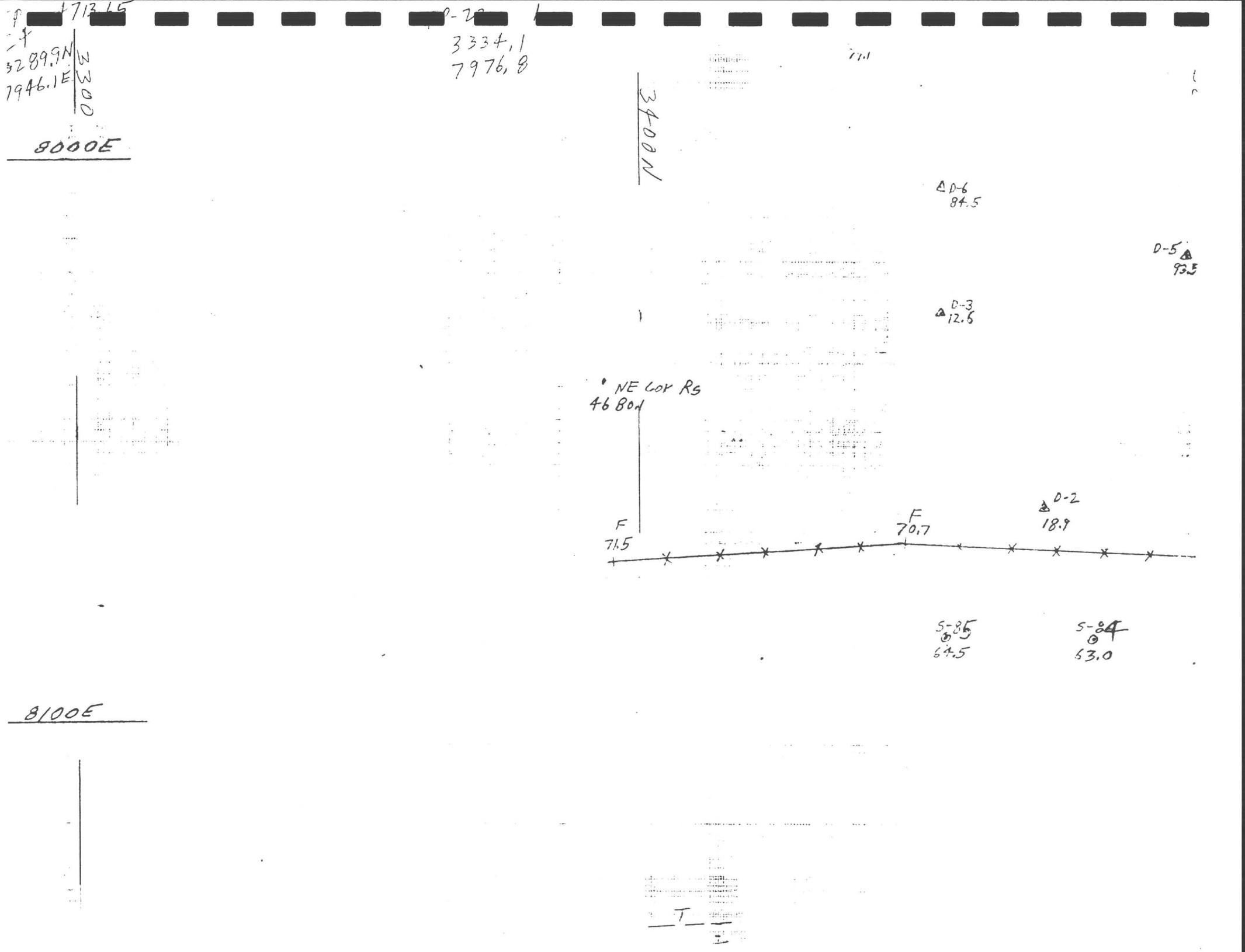
25-40 " " lt gray & tan

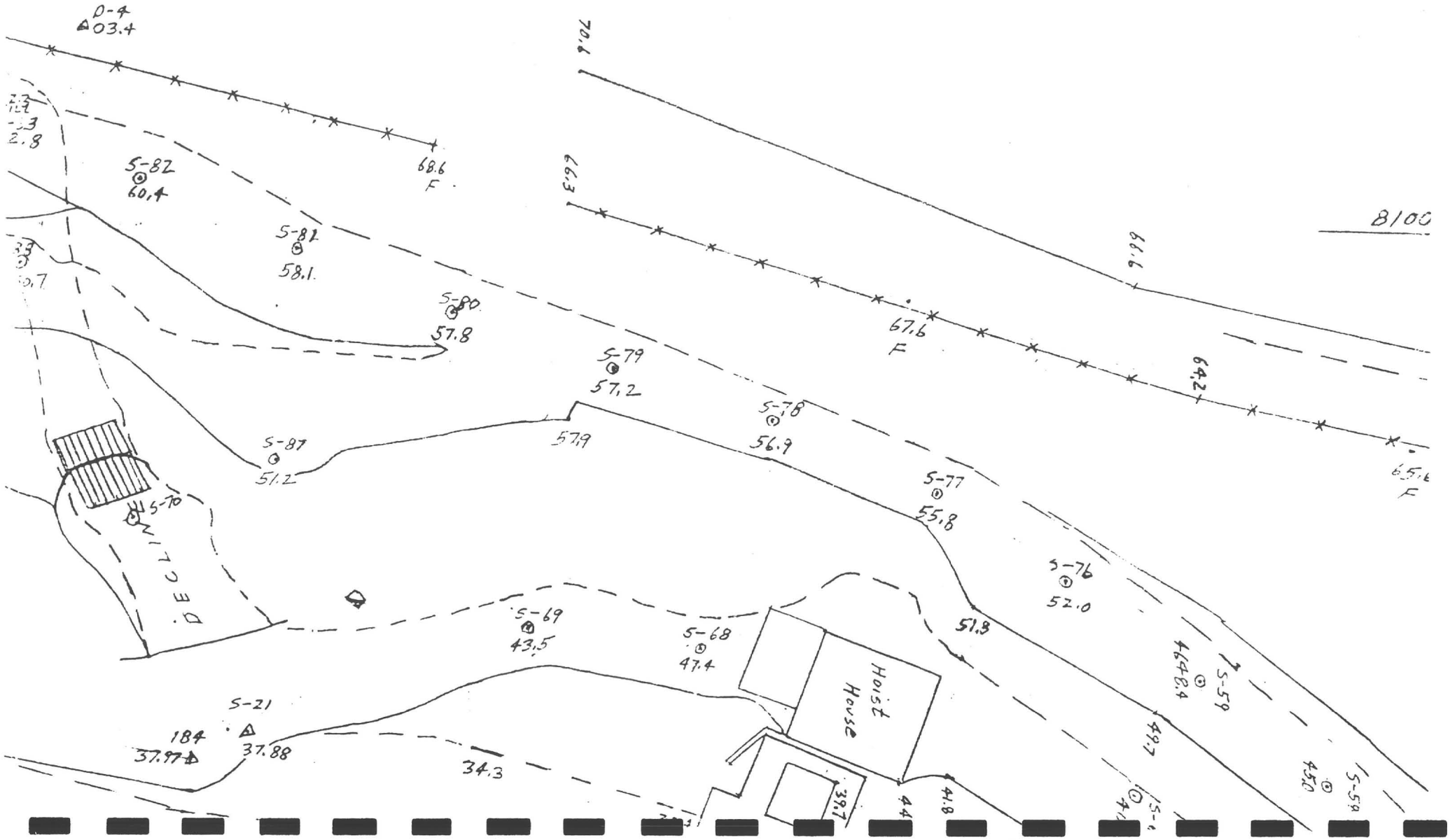
~~40-45~~ mod " " " wk MnO

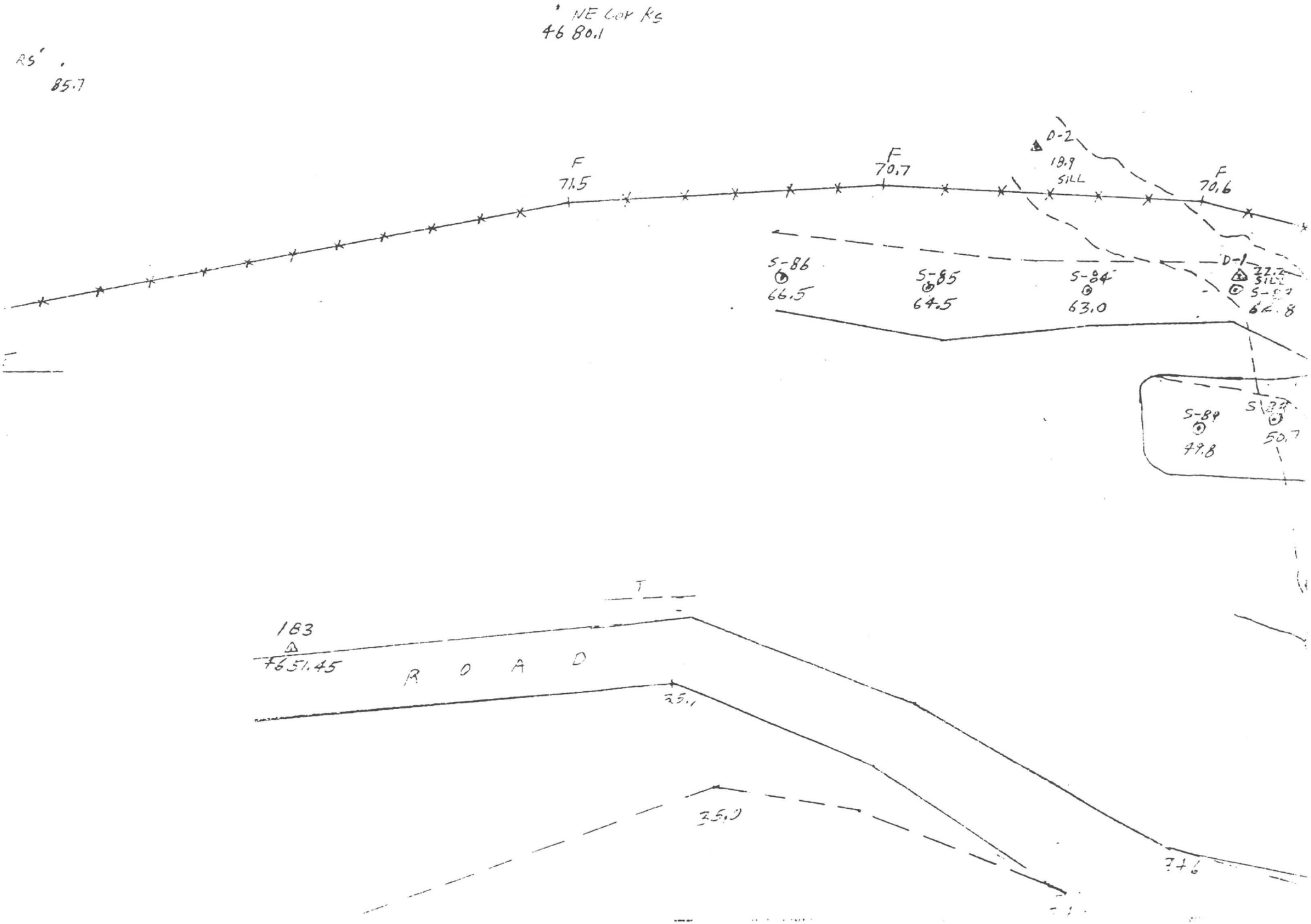
45-50 " mod "

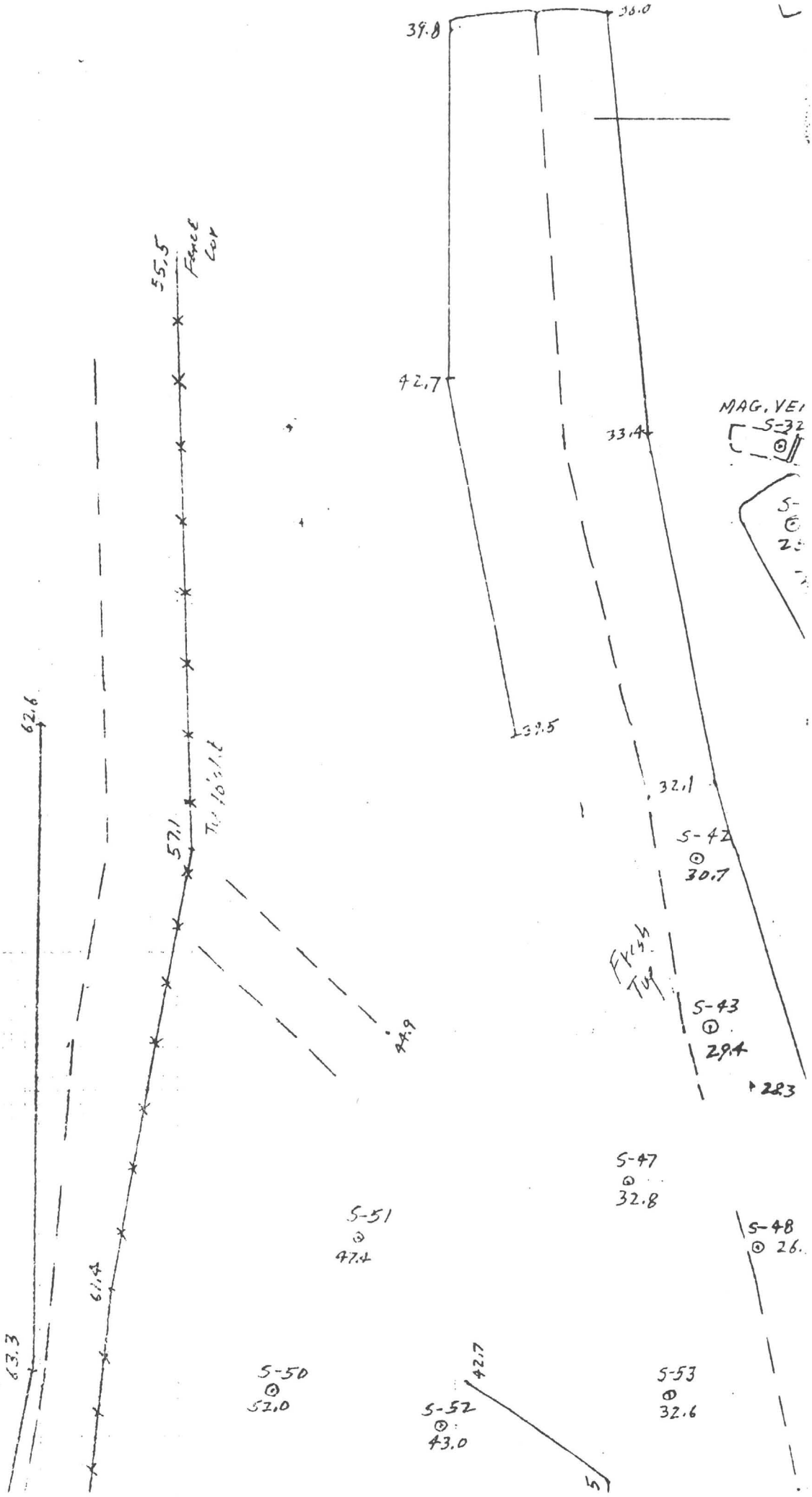
50-55 " brn

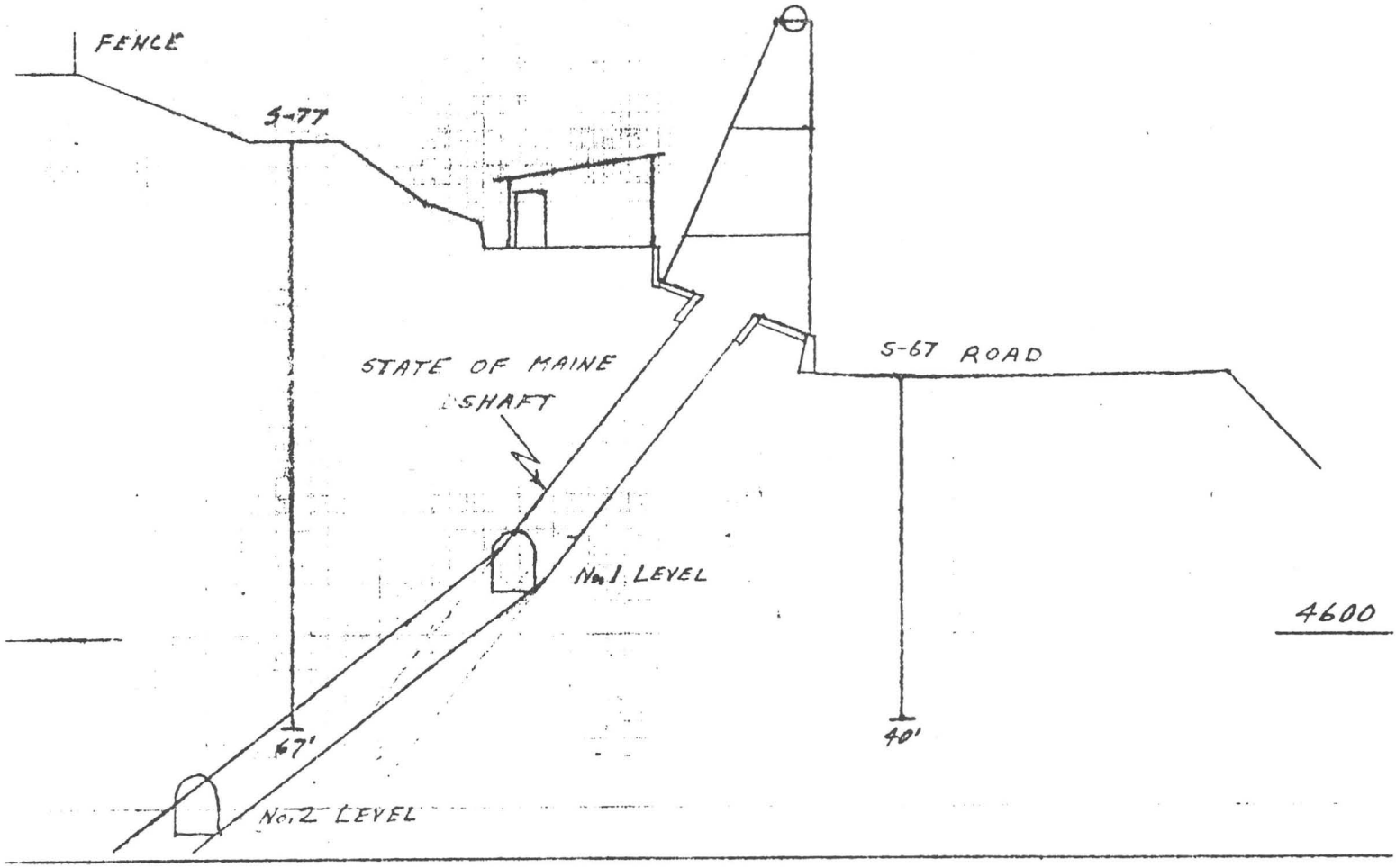
55-65 Fresh & wk " & gray grn

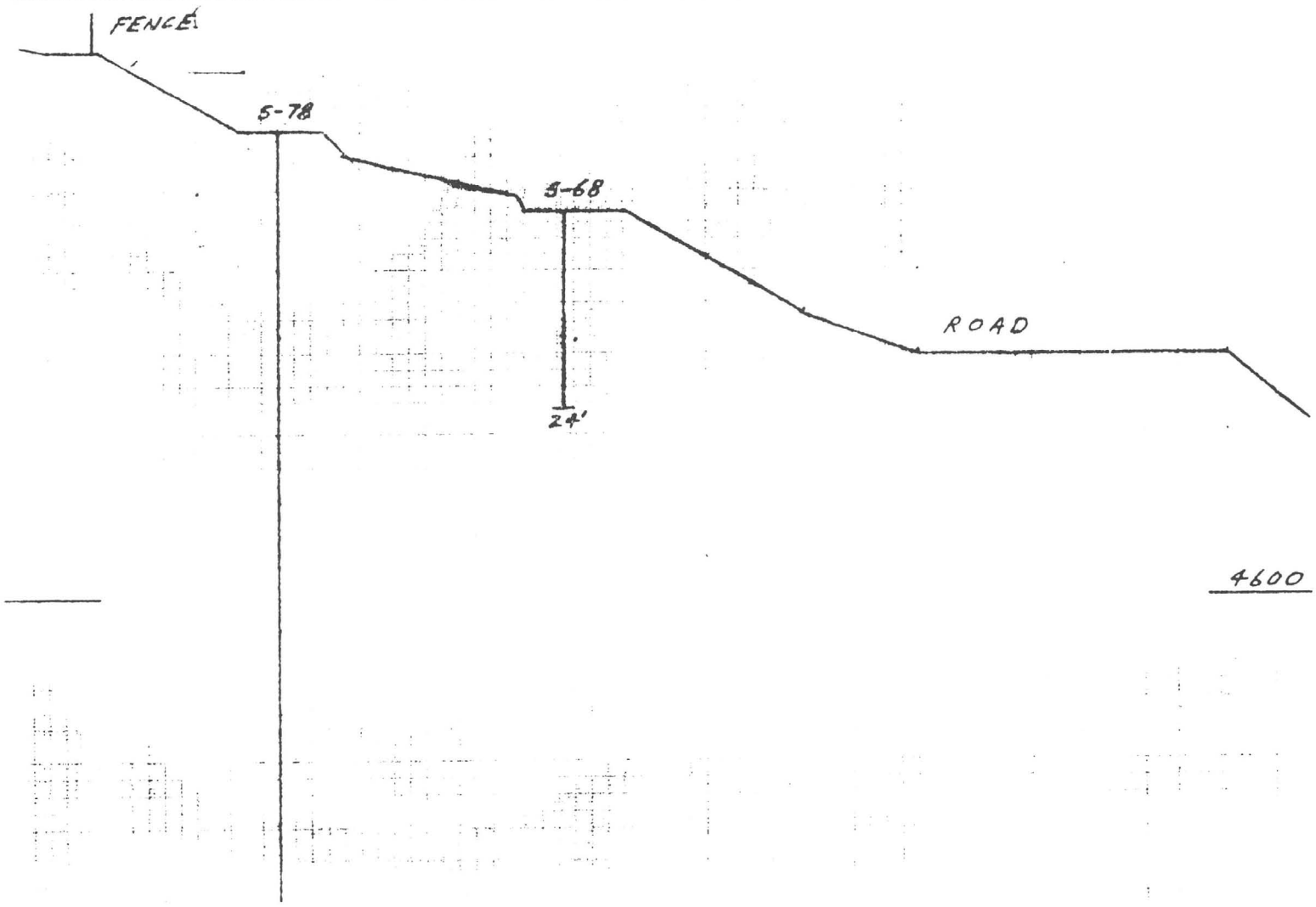

713.65
3289.9N
7946.1E
W
W
00
8000E
3334.1
7976.8
3400N
D-6
84.5
D-5
93.5
D-3
12.6
NE Cor Rs
4680N
F
71.5
F
70.7
D-2
18.9
S-85
64.5
S-84
63.0
8100E

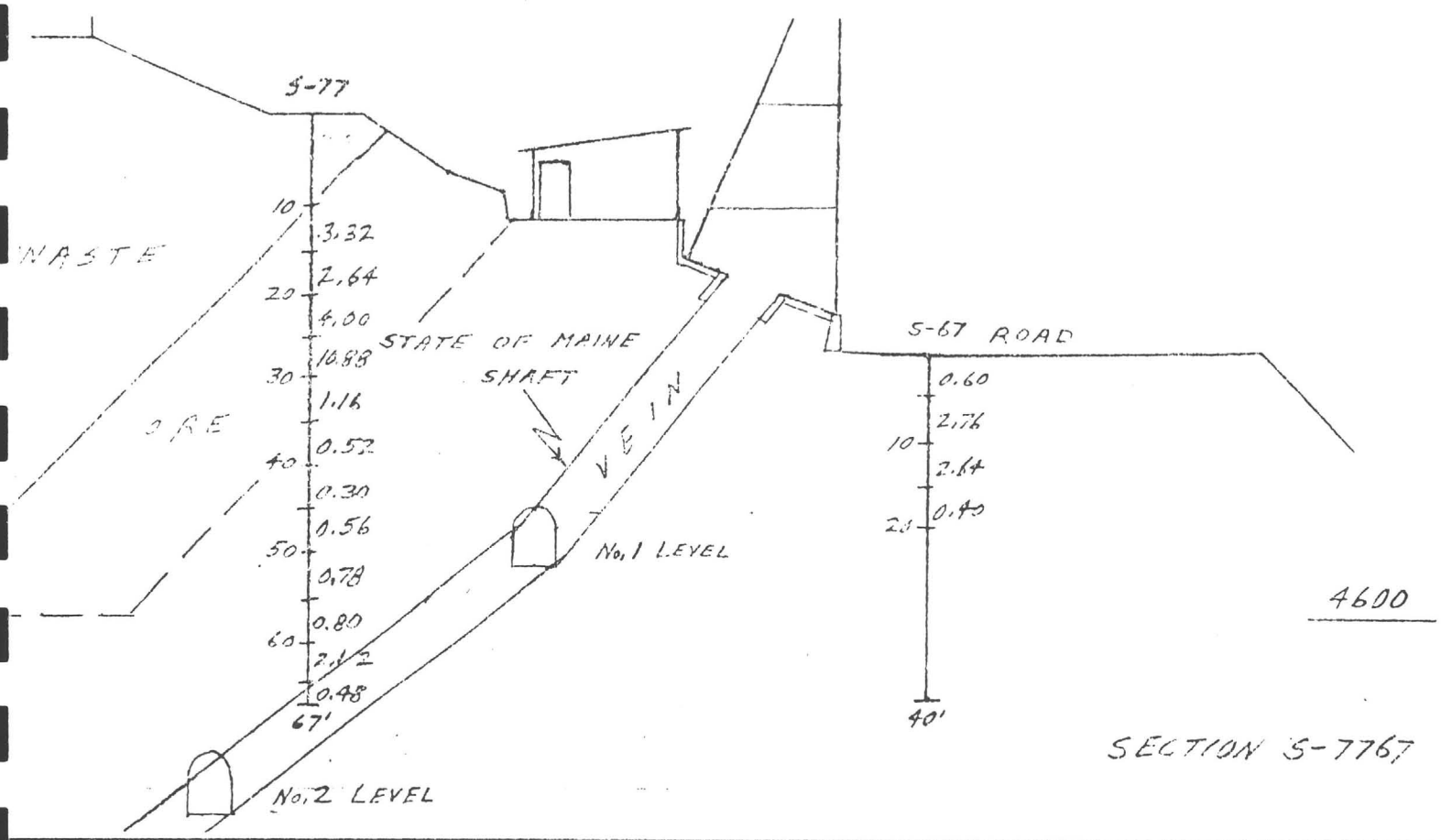

D-4
03.4
68.6
F
5-82
60.4
5-81
58.1
5-80
57.8
5-79
57.2
5-78
56.9
5-77
55.8
5-76
52.0
5-87
51.2
5-70
DECK
5-69
43.5
5-68
47.4
5-21
184
37.97
37.88
34.3
Hoist House
51.3
44.8
44.7
44.8
44.7
5-59
44.8
5-59
45.0
67.6
F
65.6
F
B100

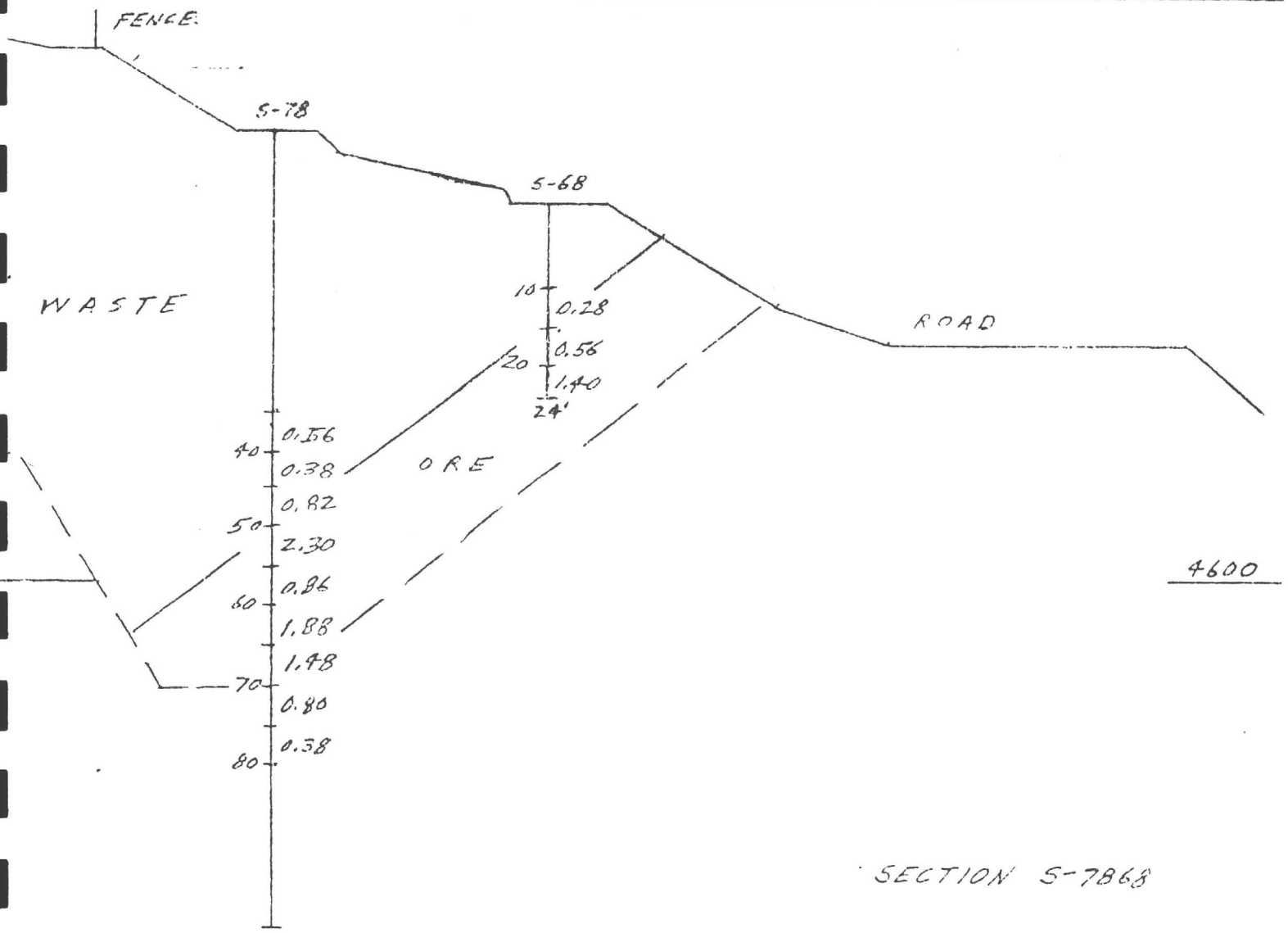

NE Cor RS
4680.1
RS
85.7
F
71.5
F
70.7
D-2
18.9
SILL
F
70.6
S-86
66.5
S-85
64.5
S-84
63.0
D-1
SILL
S-89
47.8
50.7
183
4651.45
R O A D
35.1
35.0
7+6


39.8
36.0
55.5
Fence Line
42.7
MAG. VE
S-32
33.4
39.5
62.6
32.1
57.1
S-42
30.7
Fresh Tur
S-43
29.4
28.3
44.9
S-47
32.8
S-51
47.4
S-48
26.
61.4
63.3
S-50
52.0
42.7
S-52
43.0
S-53
32.6


FENCE
S-77
STATE OF MAINE
SHAFT
S-67 ROAD
No. 1 LEVEL
4600
67'
40'
No. 2 LEVEL


FENCE
S-78
S-68
ROAD
24'
4600


S-77
WASTE
ORE
10
3.32
2.64
20
4.00
10.88
30
1.16
0.52
40
0.30
0.56
50
0.78
0.80
60
2.12
0.48
67'
STATE OF MAINE
SHAFT
VEIN
No. 1 LEVEL
No. 2 LEVEL
S-67 ROAD
0.60
2.76
10
2.64
0.40
20
40'
4600
SECTION S-7767


FENCE
S-78
S-68
WASTE
10
0.28
0.56
20
1.40
24'
ROAD
40
0.56
0.38
ORE
0.82
50
2.30
0.86
60
1.88
1.48
70
0.80
0.38
80
4600
SECTION S-7868

November 1984

Sample	I.D	CN Shaken Test Ag	Acid Digestion Ag	Acid Digestion Au
S-76	0-5	2.00	2.20	.006
	5-10	.60	.82	Tr
	10-15	1.16	1.62	.006
	15-20	6.56	8.63	.012
	20-25	7.08	10.38	.012
	25-30	.50	1.18	.005
	30-35	.38	1.12	.003
	35-40	.60	.94	.003
	40-45	.30	.76	Tr
	45-50	1.14	1.24	.006
	50-55	.12	.20	Tr
	55-60	.16	.32	Tr
	60-65	5.40	5.84	.016
	65-70	.34	.54	.003
	70-75	.10	.12	Tr
	75-80	.10	.14	Tr
S-77	10-15	1.66	3.32	.006
	15-20	1.88	2.64	Tr
	20-25	3.76	4.00	.008
	25-30	6.96	10.88	.024
	30-35	.88	1.16	.012
	35-40	.36	.52	Tr
	40-45	.14	.30	Tr
	45-50	.14	.56	.006
	50-55	.44	.78	.006
	55-60	.64	.80	Tr
	60-65	1.40	2.12	.017
S-78	35-40	.20	.56	.003
	40-45	.20	.38	Tr
	45-50	.50	.82	.006
	50-55	1.88	2.30	.012
	55-60	.50	.86	.014

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

October 25, 1984

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S-51	35-40	3.12	0.016	2.68			
	40-45	11.12	0.012	7.10			
	45-50	1.16	0.008	0.30			
	50-55	0.40	0.008	0.14			
S-52	15-20	2.80	0.020	2.20			
	20-25	0.44	0.008	0.20			
	25-30	0.28	trace	0.08			
	30-35	0.36	0.004	0.10			
S-55	25-30	0.20	0.004	0.06			
S-56	0-5	0.36	0.008	0.18			
S-47 See Smelter							

Method of Analysis: Fire Assay

REGISTERED ASSAYER
CERTIFICATE NO. 14150
GARY ALVIN LINDROOS
Date 10-25-84
Signed
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

Tombstone Silver Mines
10/27/84

CERTIFICATE OF ANALYSIS

Sample Identification		Ag	Au	SHAKER			
O.I.P.	# 1A	~~0.72~~	~~0.008~~	~~0.16~~			
	# 1B	0.52	0.008	0.28			
	# 2	0.88	0.004	0.14			
S-~~58~~55	40-45	0.24	0.004	0.06			
S-57	0-5	0.04	Tr	0.06			
	50-55	0.16	Tr	0.04			
S-58	0-5	0.24	Tr	0.06			
	45-50	0.36	Tr	0.18			
S-60	20-25	3.84	0.008	2.00			
	25-30	3.52	0.012	2.20			
	30-35	3.04	0.008	1.90	25'	5.08	0.007
	35-40	3.48	0.004	2.20			
	40-45	1.36	0.004	0.58			
S-59	0-5	0.48	Tr	0.32			
	5-10	0.36	Tr	0.14			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE NO. 14160
GARY ALVIN LINDROOS
Date signed 10-27-84
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

Tombstone Silver Mines

10/27/84

CERTIFICATE OF ANALYSIS

Sample Identification		Ag	Au	SHAKER			
S-59	10-15	0.68	0.004	0.34			
	15-20	1.64	0.008	0.70			
	20-25	0.52	0.004	0.24			
	35-40	0.40	0.004	0.16			
	40-45	0.60	0.004	0.24			
	45-50	0.28	trace	0.12			
	50-55	0.12	trace	0.06			
	55-60	0.56	0.004	0.18			
	60-61	1.44	0.012	0.70			
S-61	20-25	1.24	0.004	0.42		20'	
	25-30	0.96	0.004	0.40	1.61	0.008	
	30-35	1.28	0.008	2.00			
	35-40	2.96	0.016	1.90			
	40-45	0.64	0.004	0.38			
S-56	60-65	0.56	0.004	0.08			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE NO. 14160
GARY ALVIN LINDROOS
Date Signed 10-27-84
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

Tombstone Silver Mines
10/27/84

cont.

CERTIFICATE OF ANALYSIS

Sample Identification		Ag	Au				
S-62	30-35	0.40	0.004	0.12			
S-63	25-30	0.08	Tr	0.04			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE No.
14160
GARY ALVIN LINDROOS
Date Signed 10-27-84
ARIZONA, U.S.A.

TOMBSTONE SILVER MINES, INC.

Laboratory Report

Gary A. Lindsay

Date: 11-14-84

Note: All Ag and Au are Ounces per Ton

ple Identification	Shaker		Acid		Fire		Remarks
	Ag	Au	Ag	Au	Ag	Au	
7 - 0-5 DH	.08	TR	.28	TR			
5-10	TR	TR	.12	TR			
10-15	.02	TR	.32	.009			
15-19	.82	TR	1.24	.006			
8 0-5	.04	TR	.80	.006			
5-10	.08	TR	.28	.003			
10-15	.74	.003	1.12	.006			
15-16	.56	.003	1.44	.003			
9 0-5	.40	.003	.72	.003	.72	.003	
5-10	.28	.003	.36	.003			
10-15	.34	TR	.64	.006			
15-20	.40	TR	.60	TR		.005	
20-25	.40	TR	.48	.003	.62		
25-30	.12	.003	.76	.012			
30-35	.16	TR	.28	.006			
35-40	.12	TR	.20	.006			S.O.M.
40-45	.04	TR					
45-50	.04	TR					
50-55	.02	TR					
55-60	.02	TR					
10 0-5	.04	TR					
5-10	Nil	TR					
10-15	TR	TR	.08	T			
15-20	Nil	TR					SMELTER
20-25	Nil	TR					
25-30	Nil	TR					
30-35	Nil	TR					
35-40	Nil	TR					

TOMBSTONE SILVER MINES, INC.

Laboratory Report

Date: 12-4-84

Note: All Ag and Au are Ounces per Ton

Sample Identification		Shaker		Acid		Fire		Remarks
		Ag	Au	Ag	Au	Ag	Au	
-67	0-5		✓	.60	.006			
	5-10		✓	3.76	.006			
	10-15		✓	2.64	.003			
	15-20		✓	.40	.003			
	20-25			.20	.003			
	25-30			.08	Tr			
-68	0-5			.16	Tr			
	5-10			.16	Tr			
	10-15		✓	.28	.003			
-69	0-5		✓	.36	.003			
	5-10		✓	1.64	.009			
	10-15		✓	.56	.003			
	15-20		✓	.32	.012			
	20-25		✓	.40	.006			
-57	55-60			.16	Tr			
	60-63		✓	.68	.003			
-58	50-55		✓	.20	Tr			
	55-60		✓	.20	.017			
	60-65		✓	.24	Tr			
-59	25-30		✓	.16	.003			
	30-35		✓	.24	.003			
-60	0-5		✓	.64	.006			
	5-10		✓	.36	.006			
	15-20		✓	.40	.003			
	45-50			.12	Tr			
	50-56			.08	Tr			
-61	10-15			.08	Tr			
	15-20			.12	Tr			

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By. Gary [illegible] Date: 12-4-84

Note: All Ag and Au are Ounces per Ton

Sample Identification		Shaker		Acid		Fire		Remarks
		Ag	Au	Ag	Au	Ag	Au	
-61	45-50			.16	Tr			
N 70 Dump				.48	.003			
N. or Vein Dump				1.76	.006			
5-77	65-67		✓	.48	.003			
-86	30-35			.20	Tr			
	35-40			.08	Tr			
	40-45			.08	Tr			
	45-50			.08	Tr			
	50-55			.12	Tr			
	55-60			.20	Tr			
55	45-50		✓	.24	Tr			
	50-55		✓	.16	Tr			
	55-60		✓	.60	.003			
-57	60-63			.08	Tr			
5-70	35-40		✓	.52	.003			
	40-45		—	.60	.006			
	45-50		—	.60	.006			
	50-55		—	.48	.006			
5-71	0-5		✓	2.84	.006			
	5-10			.12	.003			

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By: [illegible]

Date: 12-5-84

Note: All Ag and Au are Ounces per Ton

Sample Identification		Shaker		Acid		Fire		Remarks
		Ag	Au	Ag	Au	Ag	Au	
-71	10-15			.04	Tr			
	25-30			.04	Tr			
-72	0-5			1.32	.003			
	5-10			.20	.003			
	10-15			.16	.003			
	15-20			.07	Tr			
5 75	0-5			.04	Tr			
	5-10			.04	Tr			
	10-15			.04	Tr			
	15-20			.08	Tr			
1	0-4			.36	Tr			
	4-6			1.04	Tr			

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By: Gary A. Lindholm

Date: 12-4-84

Note: All Ag and Au are Ounces per Ton

Sample Identification		Shaker		Acid		Fire		Remarks
		Ag	Au	Ag	Au	Ag	Au	
S-67	0-5			.60	.006			
	5-10			2.76	.006			
	10-15			2.64	.005			
	15-20			.40	.005			
	20-25			.20	.005			
	25-30			.08	Tr			
S-68	0-5	.06		.16	Tr			
	5-10	.04		.16	Tr			
	10-15	.04		.28	.003			
S-69	0-5			.36	.005			
	5-10			1.64	.009			
	10-15			.56	.003			
	15-20			.32	.012			
	20-25			.40	.006			
S-57	55-60			.16	Tr			
	60-63			.68	.003			
S-58	50-55			.20	Tr			
	55-60			.20	.017			
	60-65			.24	Tr			
S-59	25-30			.16	.003			
	30-35			.24	.003			
S-60	0-5			.64	.006			
	5-10			.36	.006			
	15-20			.40	.003			
	45-50			.12	Tr			
	50-56			.08	Tr			
S-61	10-15			.08	Tr			
	15-20			.12	Tr			

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By. Gary A. Dodson

Date: 11-30-84

Note: All Ag and Au are Ounces per Ton

Sample Identification		Shaker		Acid		Fire		Remarks
		Ag	Au	Ag	Au	Ag	Au	
S-79	25-30			✓ .20	.003			
	30-35			✓ .24	.003			
	35-40			.12	Tr			
	40-41			.08	Tr			
S-80	5-10			.04	Tr			
	10-15			.04	Tr			
	25-30			.16	Tr			
S-81	0-5			.08	Tr			
	5-10			.04	Tr			
	30-31			✓ .20	.006			
S-2	0-5			.08	.003			
	✓ 25-30			✓ .64	.006			
S-64	0-5			✓ .88	.012			
	5-10			✓ .36	.003			
	10-15			✓ .44	.006			
	15-20			✓ .32	.006			
	20-25			✓ .28	.003			
	35-40			✓ .24	.003			
	40-41			✓ .20	.006			
S-65	0-5			.24	.003			
	5-10			.12	Tr			
	10-15			.16	Tr			
	15-20			.12	Tr			

TOMBSTONE SILVER MINES, INC.

Laboratory Report

Gary A. Linkhorn

Date: 11-14 thru 11-15 84

Note: All Ag and Au are Ounces per Ton

ple Identification	Shaker		Acid		Fire		Remarks
	Ag	Au	Ag	Au	Ag	Au	
590 40-45	Nil	Nil					
45-50	Nil	TR					
591 0-5	.02	TR					
5-10	Nil	TR					
10-15	.02	TR					
15-20	Nil	TR					
20-25	Nil	TR					
25-30	Nil	TR					
30-35	Nil	TR					
35-40	Nil	TR					
40-45 ✓	.02	~~TR~~ .02	.08	T			
45-50 ✓	Nil	~~TR~~ .04	.04	T			
50-55 ✓	.22	TR	.32	.003			
592 0-5	TR	.02					
5-10	TR	.02					
10-15	TR	.02					
15-20	TR	.02					
20-25	TR	TR					
25-30	TR	TR					
30-35	TR	.02					
35-40 ✓	.02	.02	.04	TR			
40-45	TR	.02					
593 0-5	TR	TR					
5-10	TR	TR					
10-15	TR	TR					
15-20	TR	TR					
20-25	TR	TR					
25-30	TR	TR					

TOMBSTONE SILVER MINES, INC.

Laboratory Report

Gary J. Linthood

Date: 11-15-84

Note: All Ag and Au are Ounces per Ton

ple Identification	Shaker		Acid		Fire		Remarks
	Ag	Au	Ag	Au	Ag	Au	
S93 30-35	TR	TR					
40-45	TR	TR					
45-50	TR	TR					
50-55	TR	TR					
S94 0-5	TR	TR					
5-10	TR	TR					
10-15	TR	TR					
15-20	TR	TR					
20-25	TR	TR					
25-30	TR	TR					
30-35	TR	TR					
35-40	TR	TR					
40-45	TR	.02	Tr	Tr			

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By _____ Date: 11-16-84

Note: All Ag and Au are Ounces per Ton

Sample Identification	Shaker		Acid		Fire		Remarks
	Ag	Au	Ag	Au	Ag	Au	
S95 0-5	Tr	Tr					
5-10	Tr	Tr					
10-15	Tr	Tr					
15-20	Tr	Tr					
20-25	Tr	Tr					
25-30	Tr	Tr					
30-35	Tr	Tr					
35-40	Tr	Tr					
40-45	Tr	Tr					
45-50	Tr	Tr					
50-55	Tr	Tr					
S96 0-5							
5-10	Tr	Tr					
10-15	Tr	Tr					
15-20	Tr	Tr					
20-25	Tr	Tr					
25-30	Tr	Tr					
30-35	Tr	Tr					
35-40	Tr	Tr					
40-45	Tr	Tr					
45-50	Tr	Tr					
50-55	Tr	Tr					
55-60	Tr	Tr					

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By: [illegible]

Date: 11-19-84

Note: All Ag and Au are Ounces per Ton

Sample Identification	Shaker		Acid		Fire		Remarks
	Ag	Au	Ag	Au	Ag	Au	
597 0 5 DH	TR	TR					
5-10	TR	TR					
10-15	.02	TR	.16	TR			
15-20	.04	TR	1.52	.016			
20-25	TR	TR	.16	TR			
25-30	TR	TR					
30-35	TR	TR					
35-40	TR	TR					
40-45	TR	TR					
45-50	TR	TR					
50-55	TR	TR					
598 0-5	TR	TR					
5-10	TR	TR					
10-15	TR	TR					
15-20	TR	TR					
20-25	TR	TR					
25-30	TR	TR					
30-35	TR	TR					
35-40	TR	TR					
40-45	TR	TR					
45-50	02	TR	.64	.003			
50-55	.08	TR	0.40				
55-60	.08	TR	0.08				
60-65	TR	TR					

November 13, 1984

Location	Footage	Shaker Ag	Acid Digestion Ag	Acid Digestion Au
S-78	60-65	.90	1.88	.008
	65-70	1.26	1.48	.006
	70-75	.60	.80	.003
	75-80	.24	.38	Tr
	80-85	.04	.16	Tr
	85-90	.02	.12	Tr
S-83	20-25	Nil	.28	Tr
	25-30	.16	.68	.003
	30-32	.40	.72	Tr
S-84	20-24	.14	.24	Tr
S-85	0-5	.98	3.04	.012
S-86	0-5	1.22	2.08	.012
	5-10	10.40	15.60	.016
	10-15	.50	.66	.003
	15-20	.22	.32	Tr
	20-25	.08	.24	Tr
	25-30	.08	.32	Tr

TOMBSTONE SILVER MINES, INC.

Laboratory Report

By: Gary P. Lindsay

Date: 12-4-87

Note: All Ag and Au are Ounces per Ton

Sample Identification		Shaker		Acid		Fire		Remarks
		Ag	Au	Ag	Au	Ag	Au	
-61	45-50		✓	.16	TN			
70 Dump				.48	.003			
01, & Vein Dump				1.76	.006			
-77	65-67		✓	.48	.003			
-86	30-35			.20	TN			
	35-40			.08	TN			
	40-45			.08	TN			
	45-50			.08	TN			
	50-55			.12	TN			
	55-60			.20	TN			
-55	45-50		✓	.24	TN			
	50-55		✓	.16	TN			
	55-60		✓	.60	.003			
-70	35-40		✓	.52	.003			
	40-45		✓	.60	.006			
	45-50		✓	.60	.006			
	50-55		✓	.48	.006			
-71	0-5		✓	2.84	.006			
	5-10			.12	.003			

5-44 60'

0-5 Tup Fresh gray gn

5-20 Fresh & wk " " & brn

20-25 mod tan & gray Mod MnO

25-30 Fresh & wk gray gn & brn

30-35 " " "

35-45 wk brn & gray

45-60 Fresh & wk gray gn & brn

5-45 60'

0-15 Tup Mod alt tan gray pink wk MnO

15-25 str " " " " "

25-30 mod " "

30-35 Fresh & wk gray gn & brn

35-40 mod tan & gray

40-45 " " " mod MnO

45-50 " " "

50-60 Fresh gray gn

5-46

0-15 Tup Fresh - weak alt mostly brn w/ gray gn weak MnO

15-25 weak " brn & gray

25-30 mod " " " " mod MnO

30-45 " " gray, minor brn wk MnO

45-50 str " brn & pink

50-55 mod " " Mod MnO

55-60 Fresh brn gn

N75W 82N

S-47 70'

1-5	Tup	mod alt	tan & lt gray	wk MnO
5-15		str "	pink lt gray tan	NOOE Vn
15-25		mod "	tan lit gray	~~Mod MnO (blk)~~
25-30		"	" " "	Mod MnO (blk)
30-40		str	pink " "	
40-45		"	" " "	Str MnO
45-55		wk	tan & gray brn "	"
55-60		wk	" "	
60-70		Fresh & wk	gray gn & brn	

S-48 50'

0-5	Tup	Str Alt	pink & lt gray	
5-15		" "	" "	
15-20		" "	" "	Mod MnO
20-25		" "	tan " "	N 20W Flt
25-30		" "	" "	Mod MnO
30-35		" "	tan " "	
35-40	wk	"	" " "	
40-45		Fresh & wk	gray gn & brn	
45-50		Fresh	" "	

5-49 31' holed stope

0-10	Tuf	Mod alt	gray & tan	wk MnO
10-15		Str "	" "	Mod "
15-20		Mod	brn ltgray	
20-25		Str	pink light gray	
25-31		Str	lav lt gray	

5-50 20' lost hole - tavely grd

0-10	Tuf	Fresh & wk	gray gn & brn	
10-20		"	" "	

5-51 90'

0-15	Tuf	Mod alt	brn & lt gray		
15-30		" "	tan " "	wk MnO	
30-35		Str	" " "	Mod MnO	N60E Vn
35-55		"	pink & " "		
55-70		"	tan " "	~~Mod~~ wk MnO	
70-80		mod	brn " "	Str "	
80-85		wk	brn & gray		
85-90		Fresh	gray gn		

5-52 64' holed stope

0-10	Tuf	Mod alt	brn & lt gray		
10-15		Str "	tan " "		
15-25		" "	pink " " "		N60E Vn
25-35		" "	brn lt gray		
35-45		Mod "	" " "	wk MnO	

(OVER)

45-55 Top sh. alt tan & lt gray s.d.-m?
55-64 " " fav pink lt gray

5-54 80'

0-10 Tup Mod alt brn & lt gray

10-25 Str lav pink " " 70N Vn

25-35 Mod brn & lt gray

35-50 Fresh & wk gray gn wk MnO

50-60 Mod pink lt gray

60-65 Str " brn " wk MnO w S.O.M.

65-80 Fresh & wk gray gn & brn

5-53 5

0-30 Tup Mod Alt Brn & light gray, min pink

30-40 Str lav pink " "

40-45 Mod brn " "

45-50 wk " " " Mod MnO

50- wk " " "

5-55 6 holed

0-10 Tup Mod Alt Brn & light gray HW Vn ?

10-15 Str " " " Str MnO (blk)

15-20 " " " " Mod "

20-50 Mod Tan & " "

50-60 Str " " " S.O.M. Vn

60- " pink " "

5-56 80'

0-20 Tup ~~Fresh & wk~~ Brn ~~gray~~ gry gn

20-25 Mod Tan & light gray str MnO (blk)

25-30 Str lav & pink " " HW Vn?

30-40 " " " " "

40-60 Mod tan & light gray

60-65 Str " " " S.O.M Vn

65-70 wk tan & brn ~~Mod~~ wk MnO

70-80 Fresh & wk gray gn & brn

5-57 6

0-20 Tup Fresh gray gn min brn

20-25 Mod Alt tan & lt gray

25-40 Str pink " " " HW Vn? 30-35 lav (56- 25-30)

40-55 Mod brn " " min pink

55-6 Str tan pink " " S.O.M. Vn

5-58 6

0-5 Tup Fresh & wk gray gn & tan

5-20 Str alt lav pink, tan, lt gray HW Vn?

20-40 Mod tan, lt gray min pink

40-55 Str lav, pink tan lt gray SOM

55- Mod tan & lt gray

5-59 61 holed

0-5 Tup Mod Tan & pink

5-10 Str lt gray

10-20 Str lav pink lt gray) Hr Vu?

20-35 Mod tan " "

35-50 Str " pink " "

50-61 Str lav " " " 5.0 m.

5-60 55 (3'+ To W alt)

0-20 Tup mod Alt Tan & lt gray

20-35 Str lav pink tan

35-40 mod ~~Tan &~~ lt gray ~~mod~~

40-47 Tan " " Mod

47-55 1 fresh Sr gn

5-61

0-5 Tup Fresh gr gn

5-10 mod pink & tan

10-20 Str lt gray

20-1 10'+ Str pink lav & lt gray

5

CM

5-62	80'				
0-5	Tup	Mod alt	pink lt gray		
5-10		St	" lt gray		
10-20		wk	tan " "	wk MnO	
20-35		Str	pink " "		
35-40		Str	lav pink " "		
40-50		Mod	tan " "		Str & lt gray
50-60		Str	pink " " "	5-60	35-40
60-75		wk	tan & brn	61	10-20
75-80		fresh	gr gn	62	55-60
5-63					
0-5	Tup	Str Alt	Brn Tan	~~Str~~ Mod MnO	
5-10		"	pink & lt. gray		
10-30		wk	Brn & lt gray		
30-35		mod	Tan " "	15-20 wk MnO	
35-40		St	pink " "		
40-45		wk	Brn " "		
45-50		Fresh	Tan & gray gn		
5-64					
0-10	Tup	Str alt	pink lt gray		
10-20		mod	Tan " "		
20-30		mod	Brn " "	wk MnO	
30-35		Str	lav & pink " "		

5-65

0-20 Tup Mod Tan & lt gry

20-30 Str lt gray

30-35 " pink " "

35-40 Mod Brn " " wk Mud

40-55 Mod " " "

55-65 wk Brn " "

65-75 Fresh gray gn

5-66 ~~Tup wk brn~~

0-10 Tup wk brn

10-25 Fresh gr. gn

25-30 mod brn lt gray pink

30-35 str lt gray N zone Flt

35-55 mod tan " " wk to mod Mud

55-60 wk " " "

60-70 Fresh gray gn

~~68~~ 24'

0-5 Tup Mod Alt Tan & lt gray

5-15 Str pink, lav, " "

15-20 ~~[illegible]~~ " " min pink

20-24 " " " "

S-68 40'

0-10 Top Str Alt pink lav lit gray

10-20 " " brn " "

20-25 " " Tan "

25-40 Fresh gr gn & min brn Wk MnO

S-70 65' " @ decline face

0-5 Top Mod Alt Lav pink Brn lt gray

5-20 Str " " " "

20-30 " " " " minor pink

30-35 " " " " "

35-45 " " " " "

45-55 " " " "

55-60 Mod Tan " "

60-65 Wk Brn " " Mod MnO

65-70 Fresh gry gn

S-87 40' @ Sam Hend & Frank

0-5 Top Fresh - gr gn

5-15 wk alt brn Mod MnO (Fractures)

15-20 Fresh gr gn

20-30 weak " " & Tan

30-40 Mod wk " " Tan

S-71 30' Next to S-67 E Rd

0-10 Top wk alt gray Tan brn pink (colors unconsol.)

10-15 Fresh " gry gn

15-20 Mod brn & gray

20-30 Fresh gr gn

5-73 50 ??

0-10 Tup wk alt brn & gray wk Mod 0! 69

10-50 Tup Fresh gray grn 70

5-73 50 Tup wk brn lt gray 67

5-10 mod tion " " 071

10-15 wk & Fresh

15-25 Mod brn " " pink

25-30 " & Fresh " " " gray grn

5-74 50

0-10 Tup wk brn & gray surface alt?

10-30 Fresh gray &

30-35 wk brn & gray

35-50 Fresh gray grn

5-75

0-5 Tup Fresh gray grn

5-15 " & wk " " brn

15-30 mod Tan lt gray

30-40 mod pink " " "

40-45 Fresh gr grn

4-76	80'			5-76	80
				77	67
0-10	Top	str alt	lav & lt gry	78	101
10-15		"	pink "	79	41
~~15-30~~			~~brn~~ "	80	31
5-30				81	31
~~30-45~~				2	35
~~55~~				3	32
30-			lav & lt gr	4	24
			pink & lt gry	5	5
10' 35-75			brn wk wk MnO	6	60
75-80	Fresh			7	19
				8	16
5-77	67'				
0-5	Top	wk alt	brn & lt gry Wk MnO		
5-10		Mod "	tan " "	89	60
10-15		str	lav " "	90	50
15-25		Mod	pink " "	1	55
25-35		str	lav " "	2	45
35-45		"	pink " "	3	55
45-60		Mod	tan " "	4	45
60-67		str	lav " "	5	55
5-78	101'			6	60
				7	55
				8	65
0-5	Fresh	Top	gr gr		
5-18		wk alt	brn & lt gr wk MnO		
18-25		str "	lav " "		
~~90'~~ 5-90		str	lav, pink, lt gry		
90-95		mod "	tan lt gry		
95-101		Gilliwk "	brn & lt gray		
15'			brn & lt brn		

-79 41

0- Top Fresh other cuttings destroyed w/loader

5-00 31

0-20 Top Fresh

20-30 wk tan & gray

30-31 Mod " "

5-81 31'

0-10 Fresh Top

10-20 wk alt lt gray & tan

20-30 mod tan " " " brn wk Mn O

30-31 str pink tan lt gr

5-82 35'

-10 Top wk alt ~~tan~~ & lt. gray

10-20 Mod " tan " " wk Mn O

20-25 Str Brn " " "

25-35 str lav pink tan lt gr

5-83 32'

0-5 Top wk alt gray wk Mn O

5-20 " mod " brn & lt gry

20-25 " str " tan " " mod Mn O

25-35 " str " pink " " "

5-84 24'

0-20 Top Mod alt Tan, Brn, lt Gray wk Mn O

20-28 str " pink " "

5-85 5' mod alt Tan Brn lt gry ~~wk~~ wk Mn O

-86 (60') 0-10' Top Mod alt brn tan lt gr wk Mn O

10-30 " wk alt tan gray gn " " Mod Mn O 45-50 wk alt

30-40 " mod " " " " 50-60 fresh

40-45 " str " Brn " " — " "

17
16
66

1-87 19'

0-10 Tup mod alt tan & lt gray wk MnO
10-15 " " Brn " "
15-19 str " pink " "

5-88 16'

0-10 Tup wk alt Tan & lt gray
10-15 str Brn & lt gray wk MnO
15-16 str pink " "

5-89 60'

0-5 Tup str alt lav lt gray
5-10 mod " pink " " wk MnO
10-15 str " lav lt gray
15-30 mod " tan " "
30-35 mod Brn " " mod MnO
35-50 wk tan & gray
50-55 mod Brn " mod MnO
55-60 Fresh gr gn

LINDROOS LABORATORIES
GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

June 9 1994

SURFACE PIT CHIP SAMPLES

CERTIFICATE OF ANALYSIS

	Sample Identification	Geochemical oz/per ton Ag	Au		Fire Assay Oz/Ton Ag	Au	
7.5	M1 0-7.5	.04	.003				
0	M1 7.5-8-5 PINK	.12	.005				
2.0	M1 8.5-10.5 PINK	.35	.005		.32	trace	
2.0	M1 10.5-12.0 Blk	9.66	.029		9.70	.030	
1.5	M1 12.0-17.0 Pink	0.68 1.20	.008				
	M1 17.0-25.0	0.50	.003				
	M2 0-7.5	6.02	.005		6.18	trace	
	M2 7.5-12.5	0.72	.005				
	M2 12.5-15.3	0.10	.003				
	M2 15.3-19.3	0.08	trace				
	M3 0-4.5	1.42	0.003		2.52	trace	
	M3 4.5-6.1	0.14	trace				
	M3 6.1-6.6	1.18	.006		1.26	trace	
	M3 6.6-8.6	0.50	trace		0.62	trace	
	M3 8.6-12.3	0.06	trace				

Method of Analysis: As Above

M-3 Grab
Muck in Pit Bot 0.04 Tr

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June 2, 1984 (Page 2)

CERTIFICATE OF ANALYSIS

Sample Identification	Geochemical Ag	Geochemical Au		Fire Assay Ag	Fire Assay Au	
M3 10.3-11.3	0.62	.003				
M3 11.3-15.5	4.62	.014		4.86	.010	
M3 15.5-16.7	0.24	trace				
M3 16.7-22.7	0.04	trace				
M3 22.7-28.7	0.04	trace				
M3 28.7-30.0	0.02	0.009				
M3 Brown Spot	0.02	trace				
M3 Gob	9.40	.003		9.54	trace	
C1 0-8.0	0.66	trace				
C1 8.0-10.5	0.08	0.003				
C1 10.5-11.8	trace	trace				
C1 11.8-16.8	0.08	trace				
C1 16.8-23.8	0.10	trace				
C1 23.8-27.6	0.34	trace				
C1 27.6-29.1	0.36	trace		0.34	trace	

Method of Analysis: As Above

LINDROOS LABORATORIES
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June 9, 1984 (Page 3)

CERTIFICATE OF ANALYSIS

Sample Identification	Geochemical Ag	Geochemical Au		Fire Assay Ag	Fire Assay Au	
C1 29.1-30.3	0.32	trace				
C1 30.3-35.3	0.14	trace				
C1 35.3-38.7	0.06	trace		trace	nil	
C1 38.7-41.2	0.10	trace				
C2 0.0-1.7	0.22	trace				
C2 1.7-5.0	0.14	trace				
C2 5.0-9.3	0.52	0.003		0.56	trace	
C2 9.3-15.5	0.32	0.003				
C2 15.5-18.2	0.28	0.005				
C2 18.2-20.0	0.04	0.001				
C2 20.0-22.7	0.06	trace				
C2 22.7-25.2	0.02	trace				
C2 25.2-27.0	0.02	trace				
C2 27.0-31.0	trace	trace				
C3 0.0-3.0	trace	trace				

Method of Analysis: As Above

LINDROOS LABORATORIES

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June 9, 1984 (Page 4)

CERTIFICATE OF ANALYSIS

Sample Identification	Geochemical Ag	Geochemical Au		Fire Assay Ag	Fire Assay Au	
C3 3.0-6.3	0.08	trace				
C3 6.3-12.6	0.06	trace				
C3 12.6-17.0	0.12	trace				
C3 17.0-19.3	0.26	trace				
C3 19.3-29.7	0.10	trace				
C3 29.7-31.9	0.08	trace				
C3 31.9-33.3	0.04	trace				
C3 33.3-35.5	0.02	trace				
C3 35.5-36.9	0.02	trace				
C3 36.9-40.9	0.02	trace				
C3 40.9-46.6	trace	trace				
C3 46.6-56.6	0.02	trace				
C3 56.6-59.6	trace	trace				
S1 0.0- 4.4	0.18	trace				
S1 4.4- 8.9	3.64	0.008	E-W	Fail		

Method of Analysis: As Above

LINDROOS LABORATORIES
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June 9, 1984 (Page 5)

CERTIFICATE OF ANALYSIS

Sample Identification	Geochemical Ag	Geochemical Au		Fire Assay Ag	Fire Assay Au	
S1 8.9-11.2	0.36	0.003	Vn (?)			
S1 11.2-13.8	0.08	0.003				
S1 13.8-14.8	0.04	0.006				
S1 14.8-19.8	0.08	trace				
S1 19.8-22.5	0.06	0.003				
S1 22.5-27.9	0.10	0.003				
S1 27.9-30.4	0.06	0.001	Chg Dip			
* S1 30.4-31.4	0.02	0.003	Flat			
S1 31.4-34.7	0.04	trace				
S2 0.0- 3.3	0.06	trace		0.06	trace	
* S2 3.3- 4.3	0.08	trace				
S2 4.3- 8.3	0.05	trace		Wall		
S3 0.0- 4.6	0.06	trace	E-W			
* S3 4.6- 6.6	0.08	trace				
S3 6.6-13.1	0.04	trace				

Method of Analysis: As Above

LINDROOS LABORATORIES
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June 7, 1984 (Page 6)

CERTIFICATE OF ANALYSIS

Sample Identification	Ag	Au				
S4 0.0 - 7.0	trace	trace	E-W			
S4 7.0 - 11.5	0.02	trace	Wall			
S4 11.5 - 13.3	0.10	trace				
S5 0.0 - 5.5	0.28	0.001				
S5 5.5 - 8.9	0.06	trace				
S5 8.9 - 11.2	0.04	trace				
S5 11.2 - 14.8	0.10	trace				
S5 14.8 - 16.6	0.02	trace				
S5 16.6 - 21.1	0.02	trace	Track			
S5 21.1 - 25.1	trace	trace	E of M-A			
S6 0.0 - 3.5	0.04	trace				
S6 3.5 - 5.7	0.08	trace				
S6 5.7 - 7.5	0.06	trace				
S6 7.5 - 11.9	0.06	0.003				
S6 11.9 - 13.4	0.08	trace				

Method of Analysis: Geochemical

LINDROOS LABORATORIES

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June 14, 1984

Tombstone Silver Mines
Tombstone, Arizona 85638

CERTIFICATE OF ANALYSIS

Geochemical

Sample Identification	Ag Oz/T	Au Oz/T				
S-3 Grab	3.76	0.003				
S-4 0.0 - 1.4	7.04	0.005	4.9	Surface		
S-4 1.4 - 4.0	3.84	0.003				
S-5 0.0 - 1.4	2.74	0.005				
S-5 1.4 - 4.0	2.48	trace	4.17	U.G.		
S-5 4.0 - 6.5	6.72	0.003				
S-6 0.0 - 2.0	1.88	trace	FACE	of		
S-6 2.0 --4.5	1.12	trace	sub-	level		
M-3A 0.0 - 3.0	1.92	0.003				
M-3A 0.0 - 4.0	0.04	trace				
M-5 0.0 - 3.8	2.08	0.003	Next	In		
T-4 Gob	3.92	0.003	Mark	Leland	Hole	

Method of Analysis: **Geochemical**

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

JUN 14 1984

LINDROOS LABORATORIES

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Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

September 13, 1984

TSM

CERTIFICATE OF ANALYSIS

Geochemical SHAKER Fire Assay

Sample Identification		Ag Oz/T	Au Oz/T		Ag Oz/T	Au Oz/T	
S-1	0-5	0.12	trace	0.06	0.18	trace	
	5-10	0.20	trace	0.04			
	10-15	0.28	trace	0.06			
	15-20	3.28	0.005	1.40	3.14	trace	
	20-25	0.64	0.003	0.16			
	25-30	0.24	trace	0.10			
	30-35	0.16	trace	0.04			
	35-40	0.12	trace	0.04			
S-2	0-5	0.16	trace	0.08			
	65-70	0.32	0.003	0.02			
	80-85	0.16	0.005	0.06			
M-1	5-10	trace	trace	0.02			
M-2	10-15	0.32	0.004	0.12			
	15-20	0.08	trace	0.02			
	20-25	0.12	trace	0.04			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA U.S.A.

SEP 13 1984

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 17, 1984

Tombstone Silver Mines
P.O. Box 715
Tombstone, AZ 85638

CERTIFICATE OF ANALYSIS

Sample Identification	Ag	Au	TSM Ag	LINDROS SHAKER Ag	LINDROS SHAKER Au	
Special 9-14-84	1.68	0.008	0.	STANDARD		
S-3 ✓0-5	0.24	0.003	0.10	0.11	Tr	
✓5-10	0.16	tr	0.08			
✓10-15	0.28	0.003	0.10			
✓15-20	0.32	0.003	0.12			
✓20-25	0.24	tr	0.10			
✓25-30	0.20	tr	0.02			
✓70-75	0.12	tr	0.06			
✓75-80	0.20	tr	0.06			
✓95-100	0.24	tr	0.04			
S-4 ✓0-5	0.32	tr	0.20			
✓5-10	0.28	tr	0.08			
✓10-15	0.32	tr	0.12			
✓15-20	0.40	tr	0.20			
✓20-25	0.48	0.003	0.12			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN LINDROOS
Signed
ARIZONA, U.S.A.

3 8 4
28

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
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TOMBSTONE, AZ 85638
Phone: 457-3132

September 17, 1984

Tombstone Silver Mines
(page 2)

CERTIFICATE OF ANALYSIS

Sample Identification		Ag	Au	TSM SHAKER Ag	LINDROS SHAKER Ag	Au	
S-4	15' 25-30	2.96	0.012	1.40	1.54	Tr	
	2.20 30-35	2.60	0.008	3.60			
	35-40	1.04	0.005	0.24			
30' 1.78	40-45	0.64	tr	0.12			
	45-50	0.88	tr	0.12			
	50-55	1068 2.56	0.008	0.60			
	55-60	0.96	0.008	0.26			
	60-65	0.40	0.003	0.10			
S-6	10-15	0.32	tr	0.10			
	15-20	0.72	0.008	0.32			
	20-25	0.36	0.003	0.16			
	25-30	1.28	0.005	0.20			
S-7	0-5	0.40	0.003	0.04			
	30-35	0.16	tr	0.02			
	35-40	0.12	tr	0.04			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
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TOMBSTONE, AZ 85638
Phone: 457-3132

September 17, 1984

Tombstone Silver Mines
(page 3)

CERTIFICATE OF ANALYSIS

Sample Identification		Ag	Au	TSM SHAKER Ag	LINDROS SHAKER Ag	Au	
S-8	0-5	2.88	0.003	1.60			
20'	5-10	1.36	0.005	1.60			
2.42	10-15	3.76	0.012	2.80			
35'	15-20	968 1.68	0.005	0.84			
2.45	20-25	0.80	tr	1.10			
	25-30	3.04	0.008	1.80			
	30-35	1720 3.68	0.023	0.28 ×	0.48	Tr	
	35-40	0.64	0.015	0.06			
S-9	0-5	0.32	0.003	0.06			
	5-10	0.56	0.003	0.04			
	10-15	0.64	0.005	0.12			
35' 0.57	15-20	0.72	0.003	0.16			
	20-25	0.40	0.003	0.08			
	25-30	0.64	0.005	0.12			
	30-35	0.72	0.008	0.14			

Method of Analysis: Geochemical

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 24, 1984

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

CERTIFICATE OF ANALYSIS

Sample Identification	Geochemical Ag Oz/T	Geochemical Au Oz/T	SHAKER	Fire Assay Ag Oz/T	Fire Assay Au Oz/T	
S 10 0-5	1.76	0.005	1.20	1.84	0.005	
5-10	0.40	0.003	0.18			
10-15	0.44	0.003	0.20			
15-20	0.48	0.003	0.32	0.41		
20-25	0.32	trace	0.18			
25-30	0.40	trace	0.20			
30-35	0.24	trace	0.14			
35-40	0.28	trace	0.08			
45-50	0.56	trace	0.04			
S 11 0-5	0.20	trace	0.02			
5-10	0.16	trace	0.06			
10-15	0.12	trace	0.04			
15-20	0.12	trace	0.04			
20-25	0.24	trace	0.06			
25-30	0.20	trace	0.04			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES
GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 24, 1984

Tombstone Silver Mines
Page 2

CERTIFICATE OF ANALYSIS

Sample Identification		Geochemical Ag Oz/T	Geochemical Au Oz/T		Fire Assay Ag Oz/T	Fire Assay Au Oz/T	
S 11	50-55	0.96	0.003	0.04	1.06	trace	
S 12	0-5	0.40	0.001	0.04			
	25-30	0.16	trace	0.02			
	50-55	0.32	0.003	0.08			
	65-70	0.36	0.003	0.06			
	70-75	0.28	trace	0.06			
S 13	0-5	0.40	trace	0.10			
	5-10	0.36	trace	0.16	0.37		
	10-15	0.32	trace	0.12			
	15-20	0.40	0.003	0.04			
S 14	0-5	0.24	trace	0.04			TSM
	15-20	0.28	trace	0.06			Acid
S 15	5-10	1.00	0.003	2.00	0.96	trace	2.25
	10-15	0.72	0.005	0.54			
	15-20	0.54	0.003	0.22			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 24, 1984

Tombstone Silver Mines
Page 3

CERTIFICATE OF ANALYSIS

Sample Identification		Geochemical Ag Oz/T	Geochemical Au Oz/T		Fire Assay Ag Oz/T	Fire Assay Au Oz/T	
S 15	20-25	0.68	0.005	0.36			
	25-30	0.40	0.001	0.24			
	30-35	0.48	0.003	0.06			
	45-50	0.28	trace	0.04			
	65-70	0.28	trace	0.02			
S 16	0-5	0.52	trace	0.50			
	5-10	1.44	0.003	0.46			
	10-15	1.68	0.005	0.16			
	15-20	2.72	0.011	0.30	2.80	trace	
	20-25	1.24	0.003	0.24			
	25-30	0.44	0.005	0.18			
	30-35	1.00	0.008	0.26			
	35-40	0.40	0.003	0.12			
	40-45	0.44	0.003	0.06			
S 17	0-5	0.72	0.008	0.22			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES
GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 24, 1984

Tombstone Silver Mines
Page 4

CERTIFICATE OF ANALYSIS

Sample Identification		Geochemical Ag Oz/T	Geochemical Au Oz/T		Fire Assay Ag Oz/T	Fire Assay Au Oz/T	
S 17	5-10	1.24	0.011	0.20			
	10-15	0.24	trace	0.06			
	15-20	0.20	trace	0.08			
S 18	5-10	0.24	0.001	0.02			TSM
	35-40	0.32	0.003	0.16			ACID
	40-45	4.36	0.018	3.00	4.48	0.005	3.32
	45-50	0.36	0.003	0.10			
	50-55	0.80	0.005	0.08			
	55-60	0.52	0.005	0.06			
S 19	0-5	0.12	0.003	0.04			
	10-15	0.20	0.003	0.06			
	15-20	0.16	0.001	0.02			
	20-25	0.24	0.003	0.04			
S 20	0-5	0.20	0.005	0.10			
	5-10	0.12	0.001	0.04			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 24, 1984

Tombstone Silver Mines
Page 5

CERTIFICATE OF ANALYSIS

Sample Identification		Geochemical Ag Oz/T	Geochemical Au Oz/T		Fire Assay Ag Oz/T	Fire Assay Au Oz/T	
S 20	10-15	0.08	0.003	0.02			TSM
	15-20	12.16	0.020	11.20	14.30	0.010	Acid
	20-25	0.32	0.003	0.14			6.31
	25-30	0.36	0.003	0.04			
	30-35	0.12	0.003	0.06			
S 21	0-5	2.56	0.008	1.90			
	25-30	0.16	0.003	0.02			
	30-35	26.40	0.016	12.80	26.79	0.005	
	35-36	7.52	0.011	5.60			
S 22	0-5	0.64	0.008	0.10			
	15-20	0.16	0.003	0.14			
S 22 Stope	20-22	7.92	0.015	7.60			
S 23	10-15	0.24	0.001	0.08			
	20-25	0.24	0.001	0.02			
	30-35	0.84	0.005	0.08			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE No.
14160
GARY ALVIN
LINDROOS
Signed
ARIZONA, U.S.A.

LINDROOS LABORATORIES
GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 24, 1984

Tombstone Silver Mines
Page 6

CERTIFICATE OF ANALYSIS

Geochemical

Sample Identification	Ag Oz/T	Au Oz/T				
S 23 ✓40-45	0.28	0.003	0.02			
S 15 ✓25-30 Fines	0.60 ✓	0.005	0.40			

Method of Analysis: As Above

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
ARIZONA, U.S.A.

LINDROOS LABORATORIES

GARY A. & NAOMI R. LINDROOS
P.O.BOX 672
TOMBSTONE, AZ 85638
Phone: 457-3132

September 26, 1984

Tombstone Silver Mines
P. O. Box 715
Tombstone, Arizona 85638

CERTIFICATE OF ANALYSIS

Sample Identification		Ag Oz/T	Au Oz/T	SHAKER			
S 22	5-10	0.12	trace	0.10			
	10-15	0.16	0.003	0.02			
S 23	25-30	0.16	0.003	0.02			
	35-40	0.12	0.001	0.04			
	45-50	0.16	trace	Nil			
S 24	10-15	0.20	0.003	0.04			
	15-20	0.12	0.003	0.10			
	20-25	0.28	0.003	0.10			
S 25	0-5	0.24	0.001	0.04			
	45-50	0.32	0.005	0.14			
	50-55	0.32	0.003	0.08			
S 26	10-15	0.12	trace	0.02			
	45-50	0.12	trace	0.04			
	50-55	0.12	trace	0.04			
S 27	0-5	0.16	trace	0.20			

Method of Analysis: Acid Digestion & MIBK Au

REGISTERED ASSAYER
CERTIFICATE NO.
14160
GARY ALVIN
LINDROOS
Date 9-26-84
ARIZONA

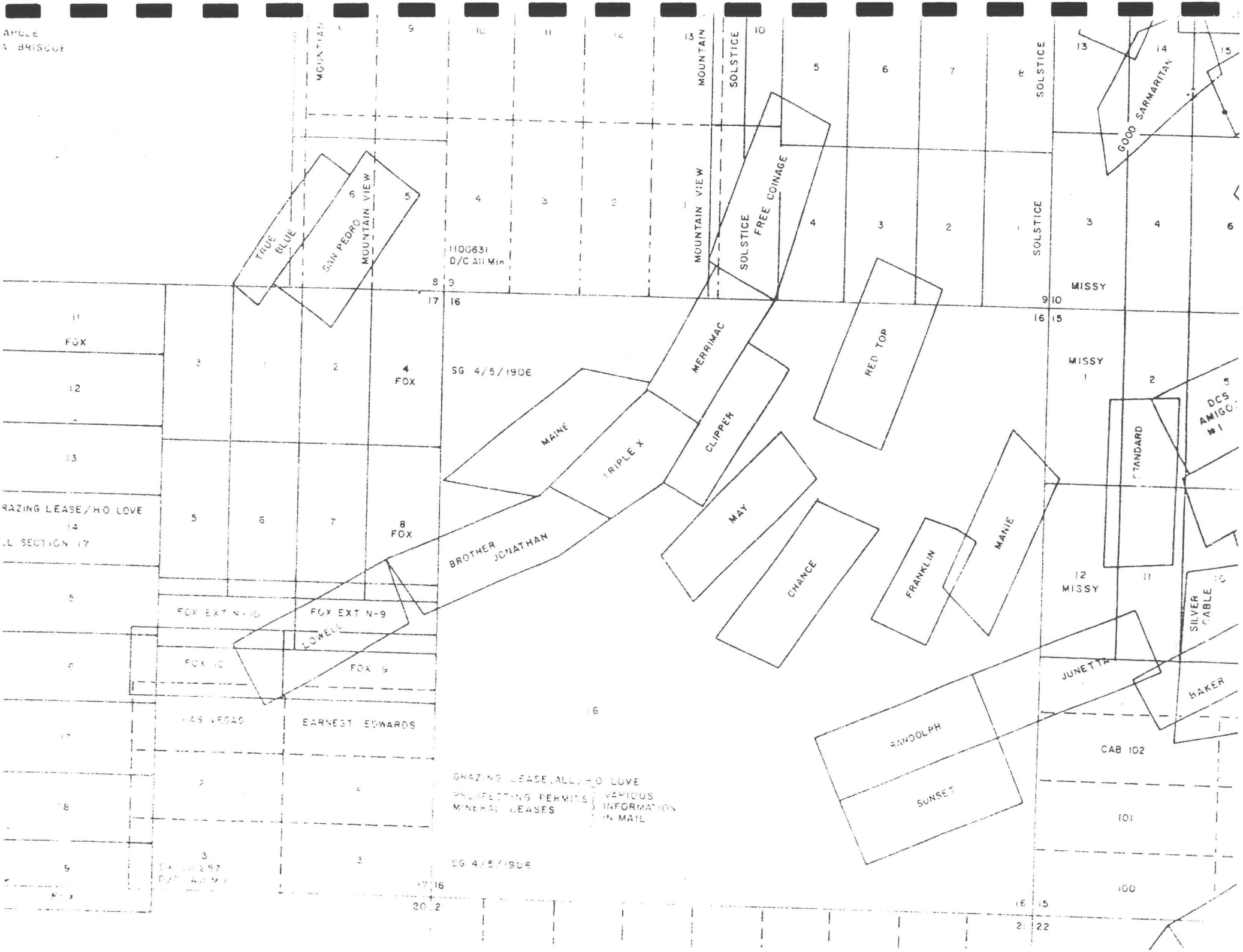
STATE OF MAINE
MINE PLANS

Composite and

average of all cuts

= 1.17 oz Ag/ton

30,400 tons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RED TOP
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CLIPPER
STANDARD
DCS AMIGO #1
MAY
CHANCE
FRANKLIN
MAINE
BROTHER JONATHAN
FOX EXT N-10
FOX EXT N-9
LOWELL
FOX 10
FOX 9
SILVER CABLE
JUNETTA
BAKER
LAS VEGAS
EARNEST EDWARDS
RANDOLPH
SUNSET
CAB 102
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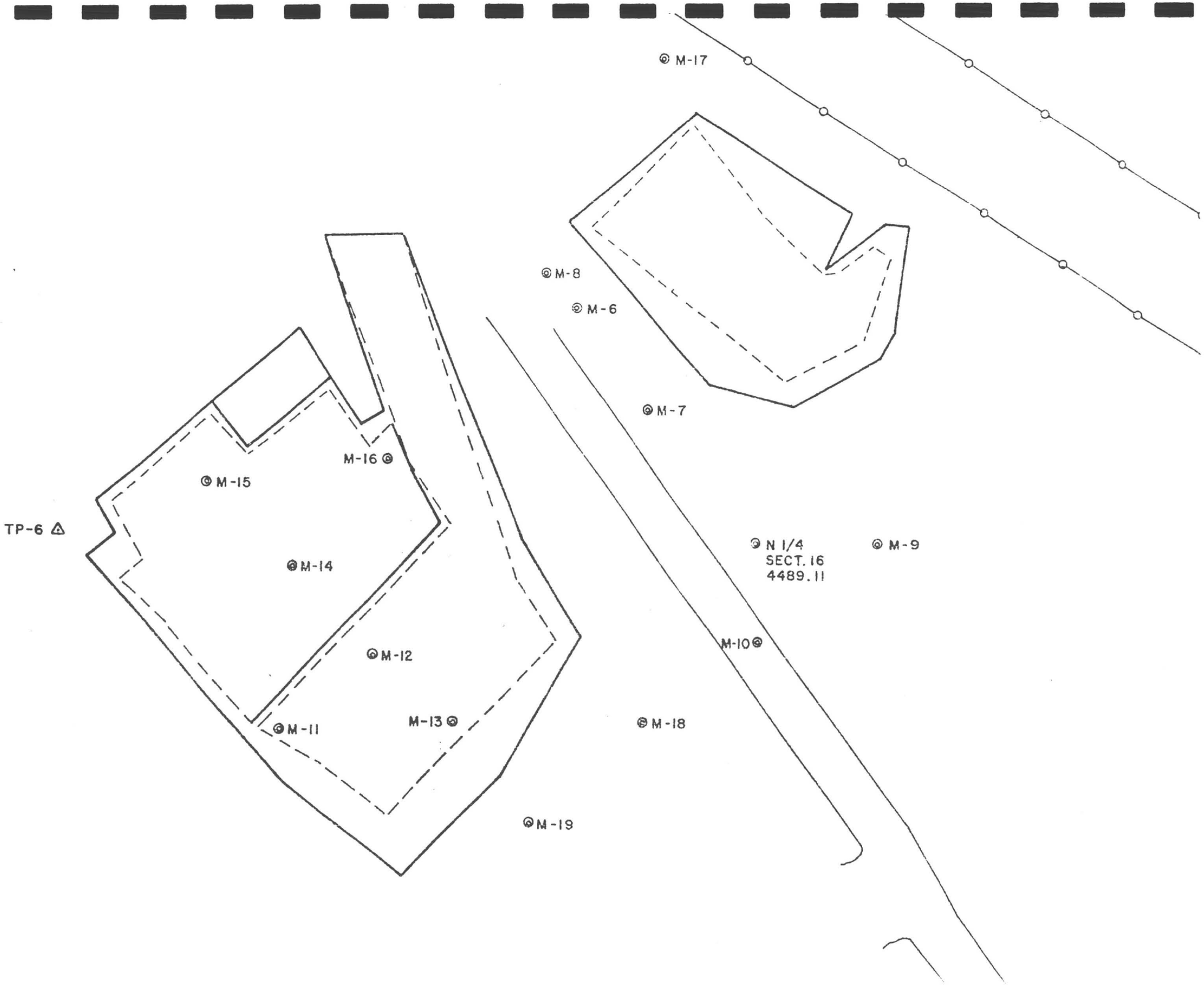
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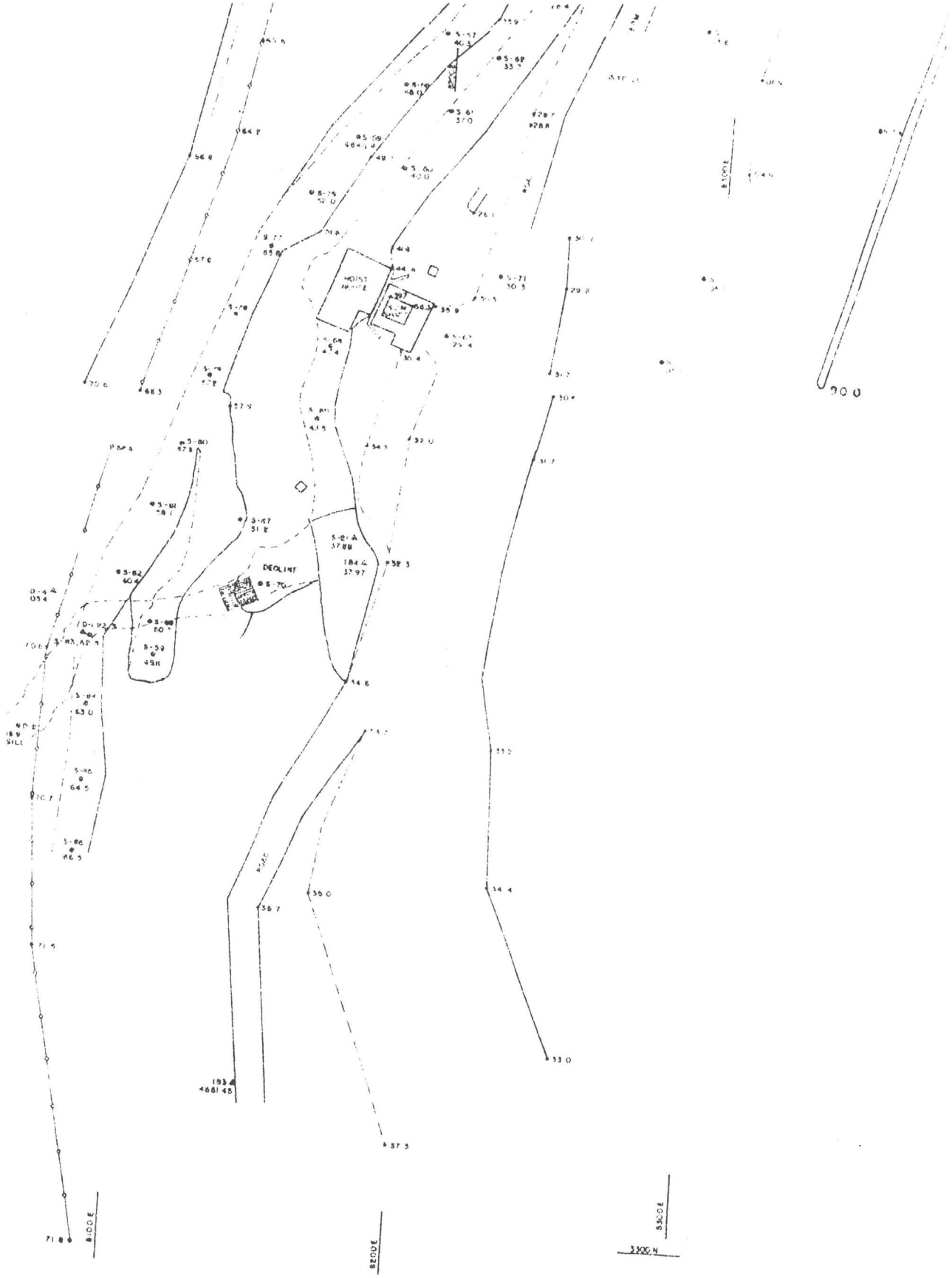
M-19

Stace of Maine 50N Vein

SECTION Number	Distance Between	ORE Square Feet	Ave. Grade Oz/Ton Ag	Tons	WASTE Square Feet	Tons
S-[illegible]		0	-	0		
	40 ft.					
			-	-		[illegible]
S-7671		20	2.84		60	
	30 ft.		2.72	195		[illegible]
S-7767		155	2.70		350	
	100 ft.		2.86	940		[illegible]
S-8187		100	3.10		650	
	25 ft.		2.52	300		4250
S-8288		225	2.26		1780	
	95		4.23	1770		10,360
S-8086		280	5.81		1170	
Totals			3.58	3205		17,9[illegible]
W/20% Dilution			2.98	3850		17,[illegible]
Strip Ratio					4.5:1	

SOW 50 N. UX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DEOLINT
ROAD
B100E
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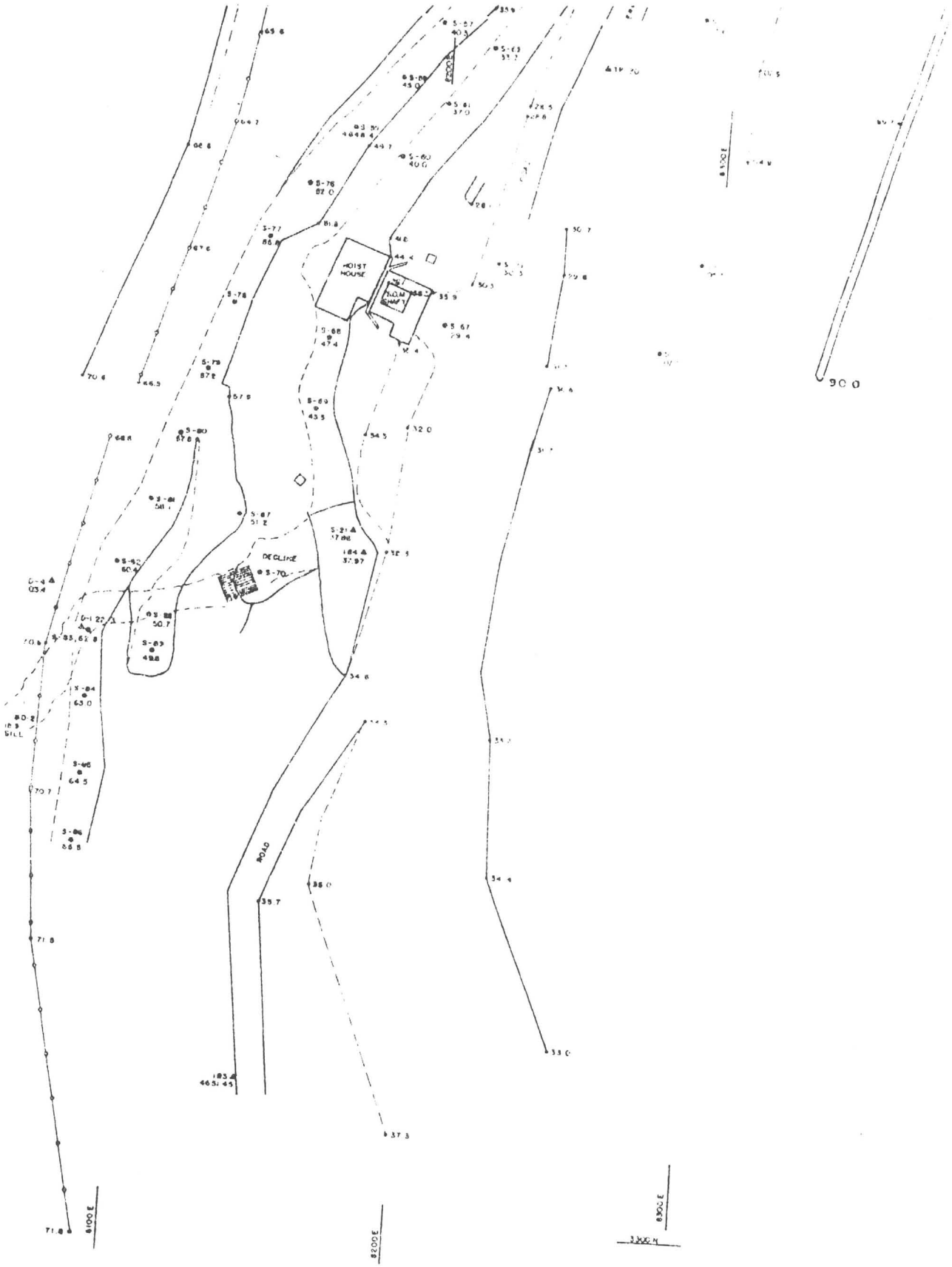
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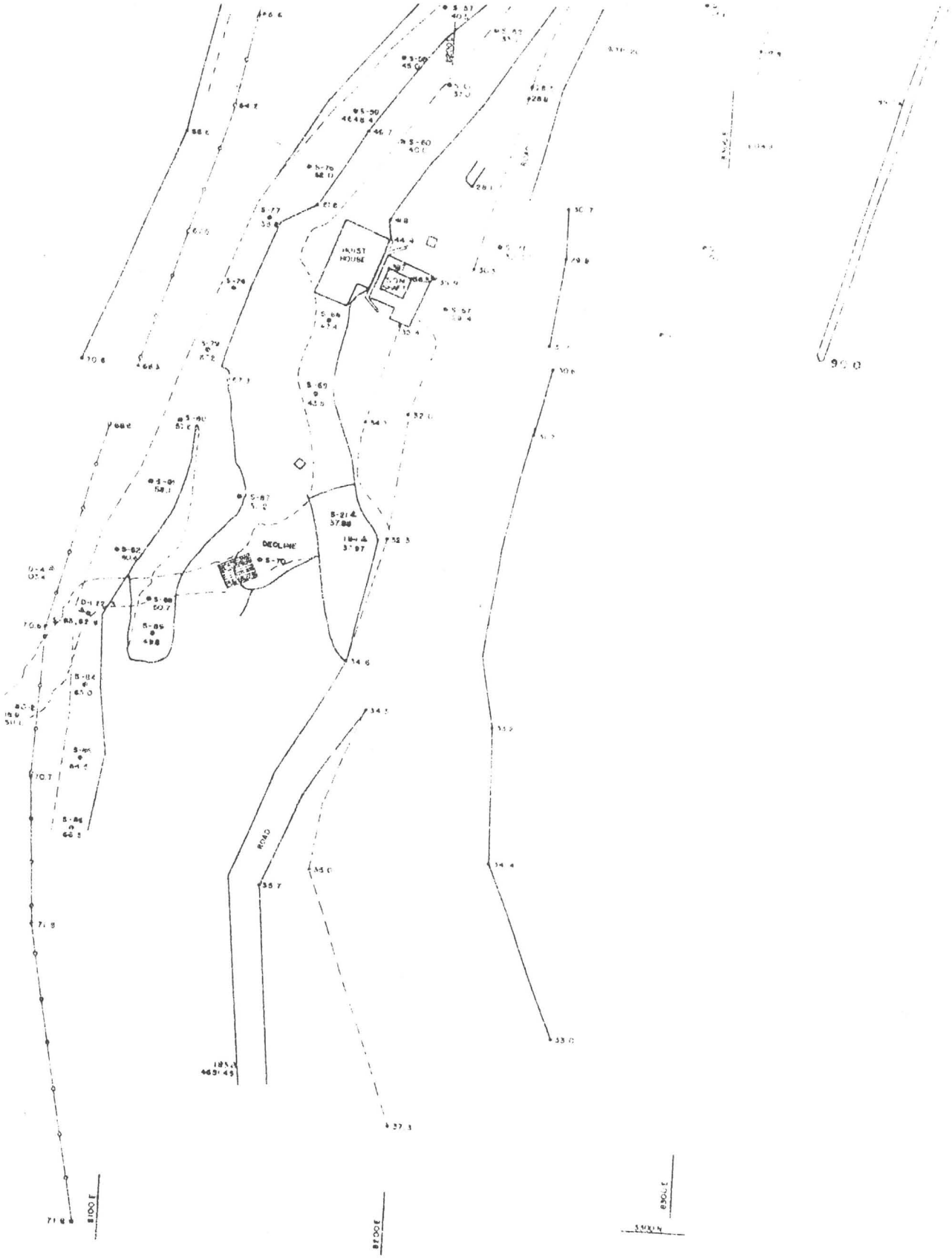
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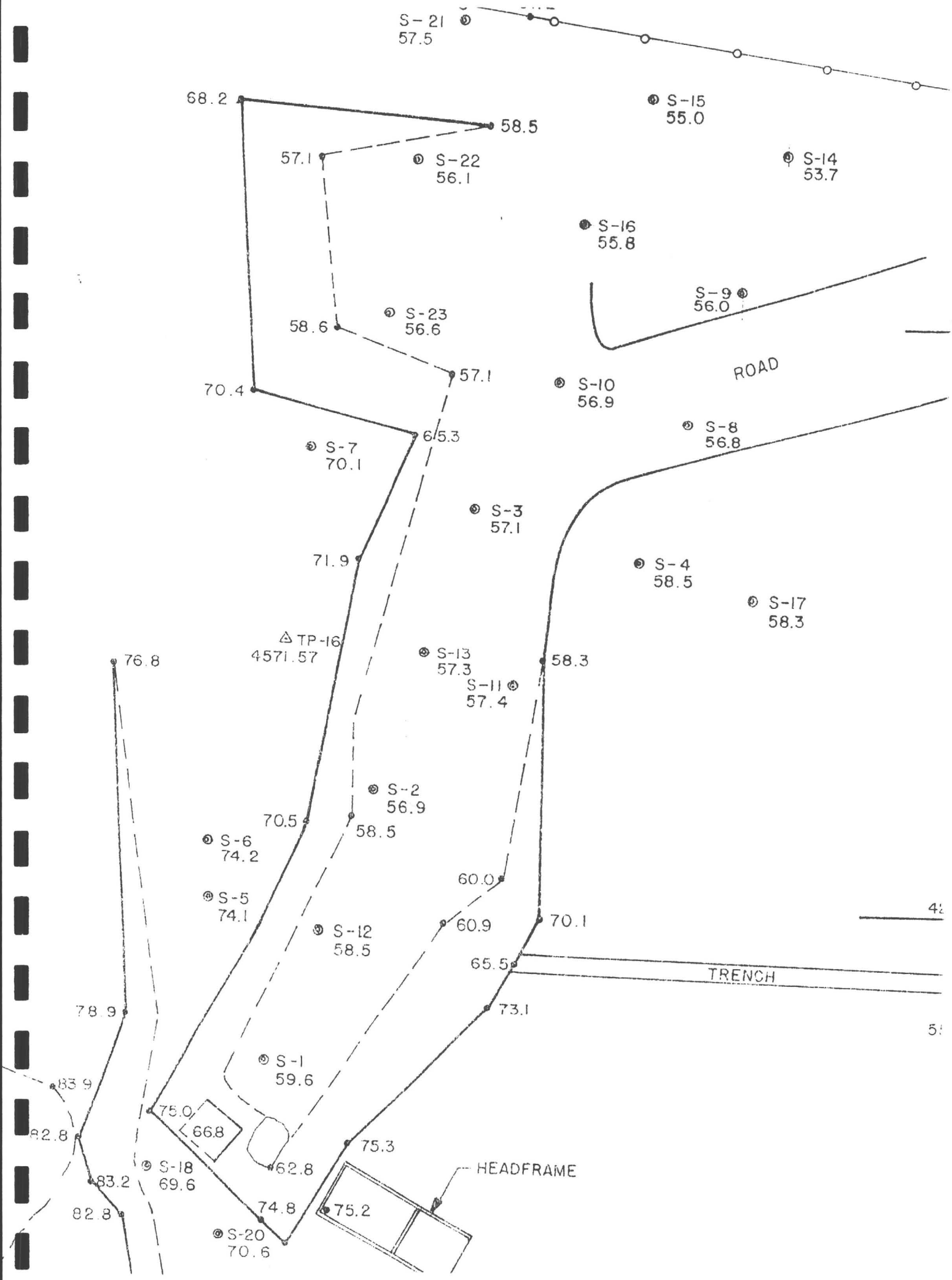
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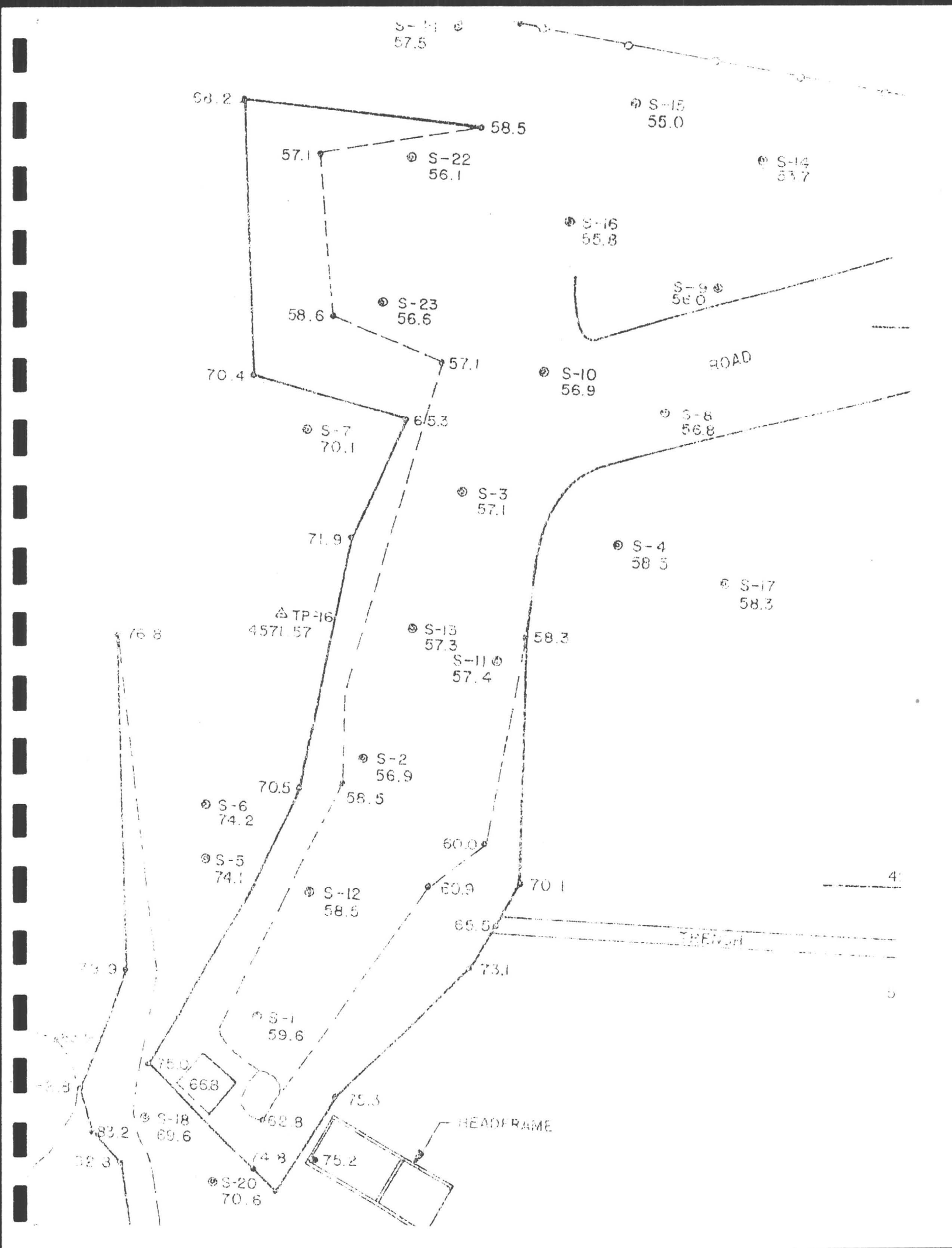
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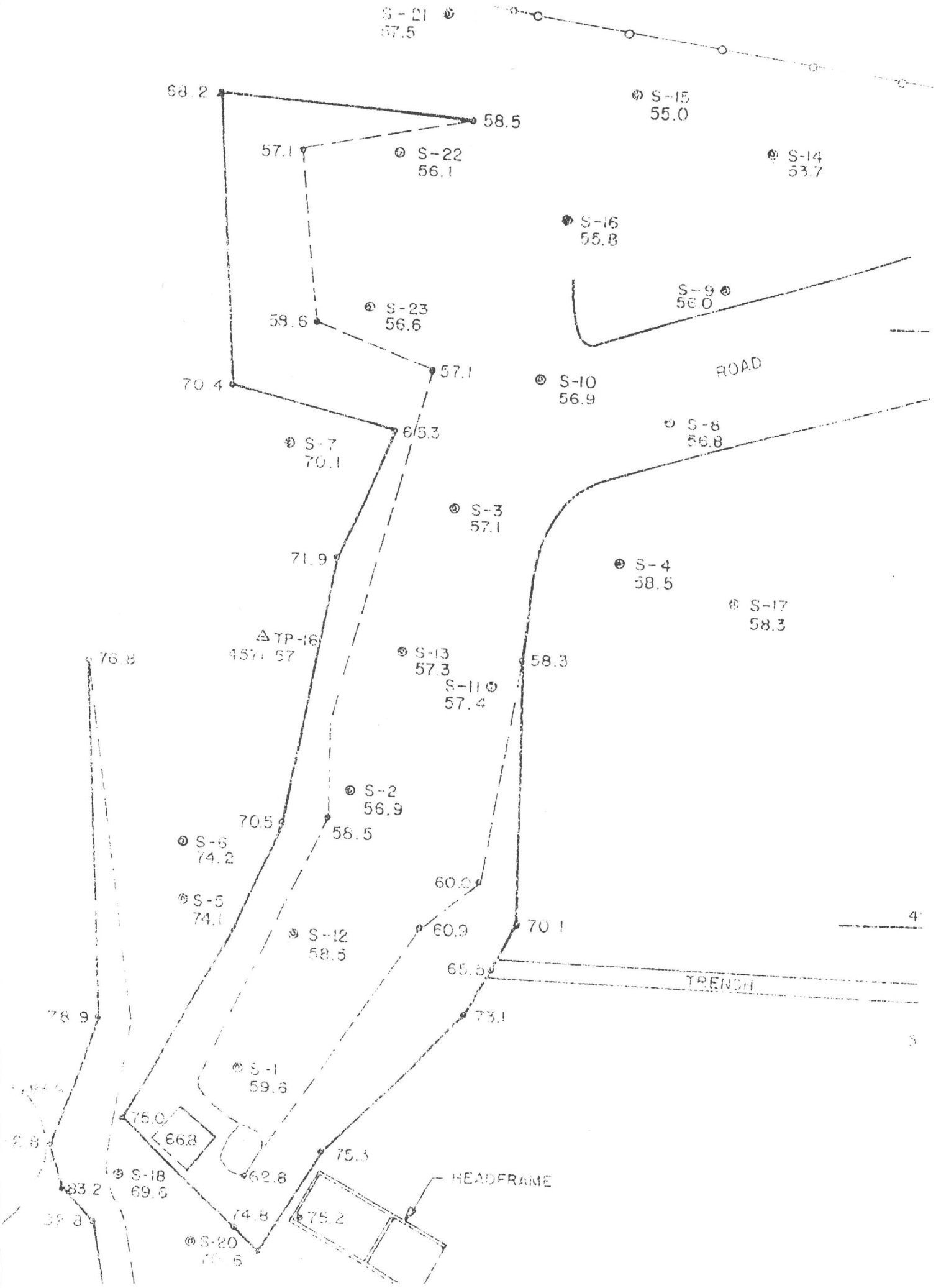
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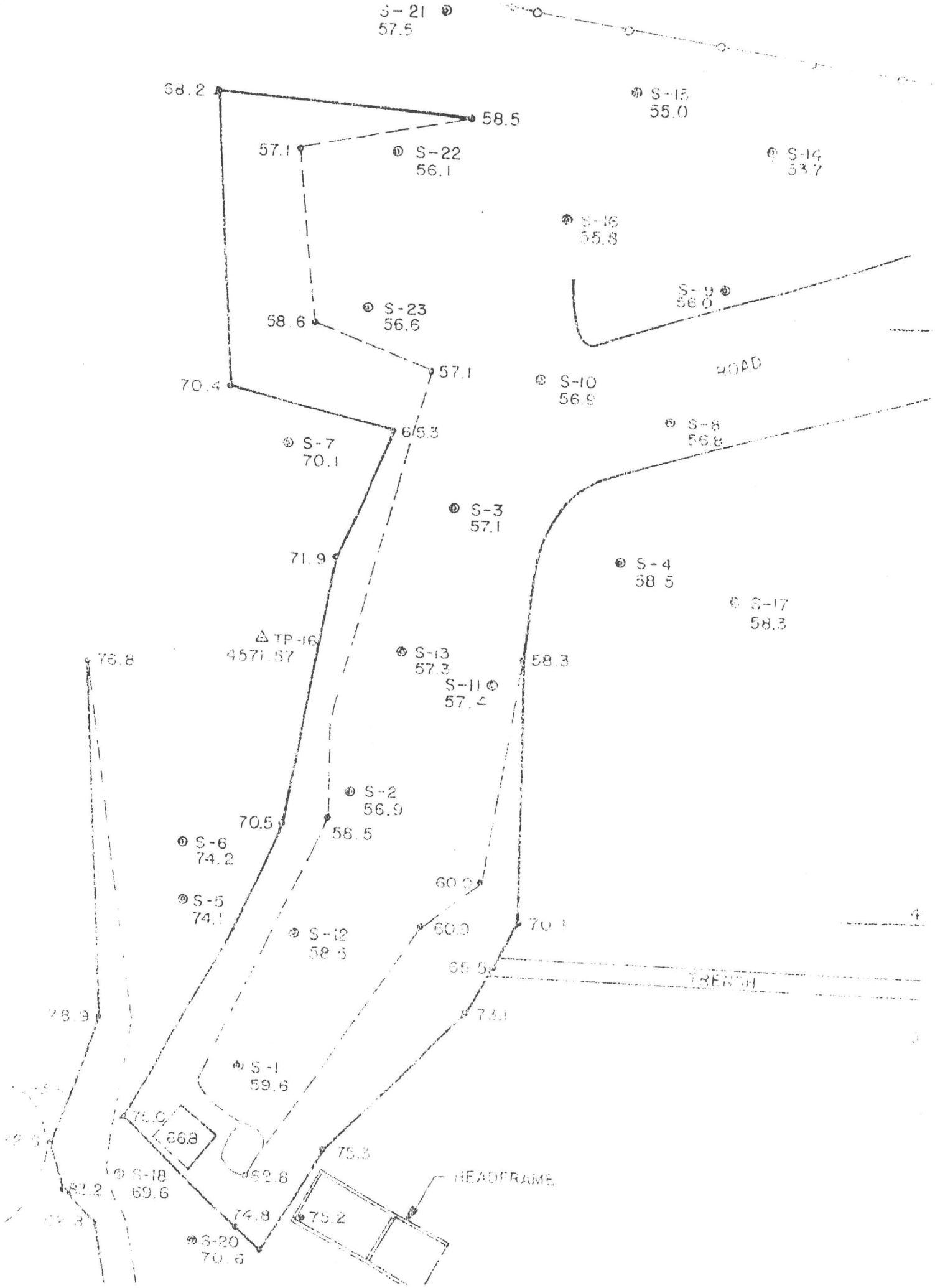
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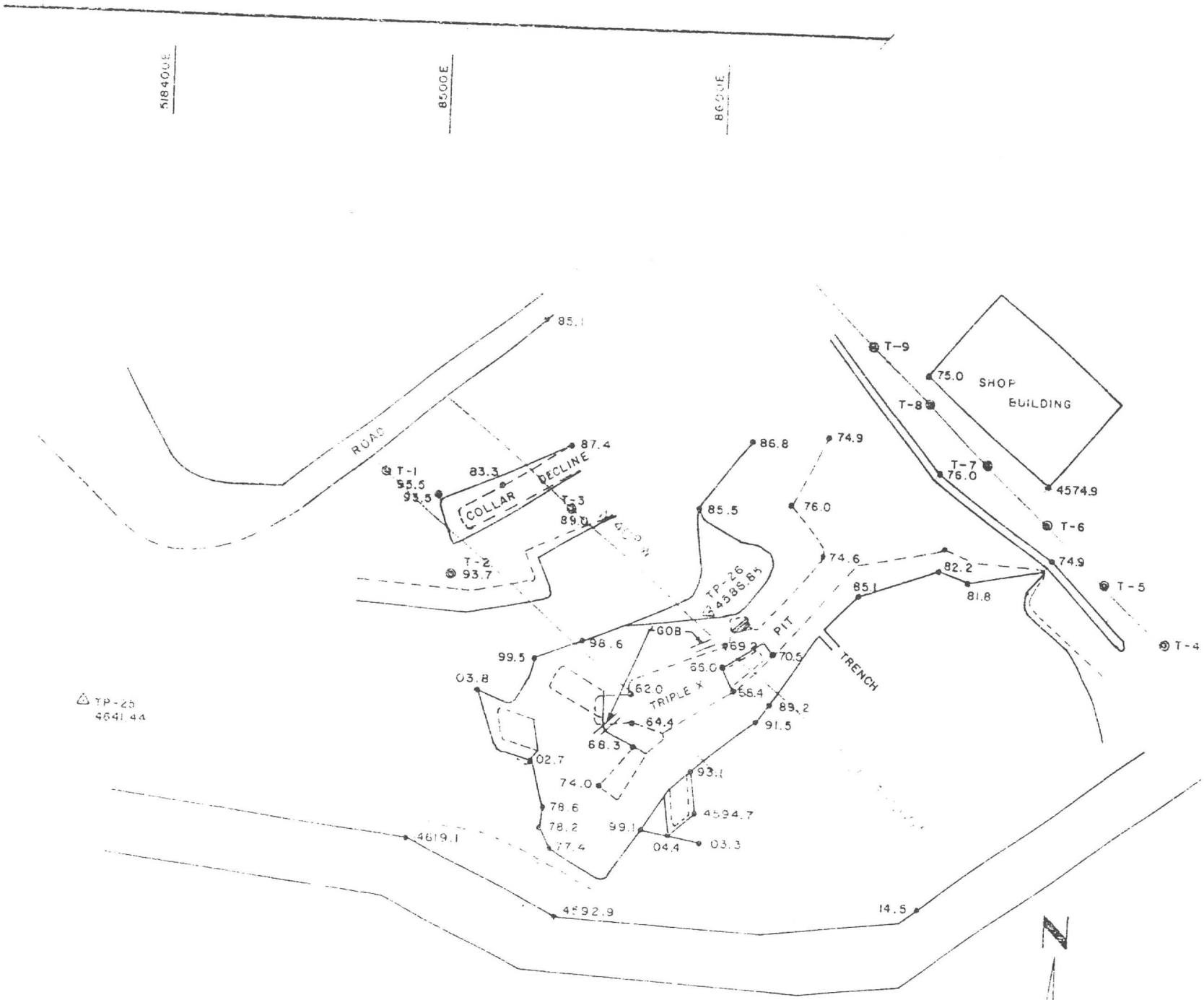
S-1
59.6
76.0
66.8
75.3
S-18
69.6
69.8
HEADFRAME
74.8
75.2
S-20
70.6

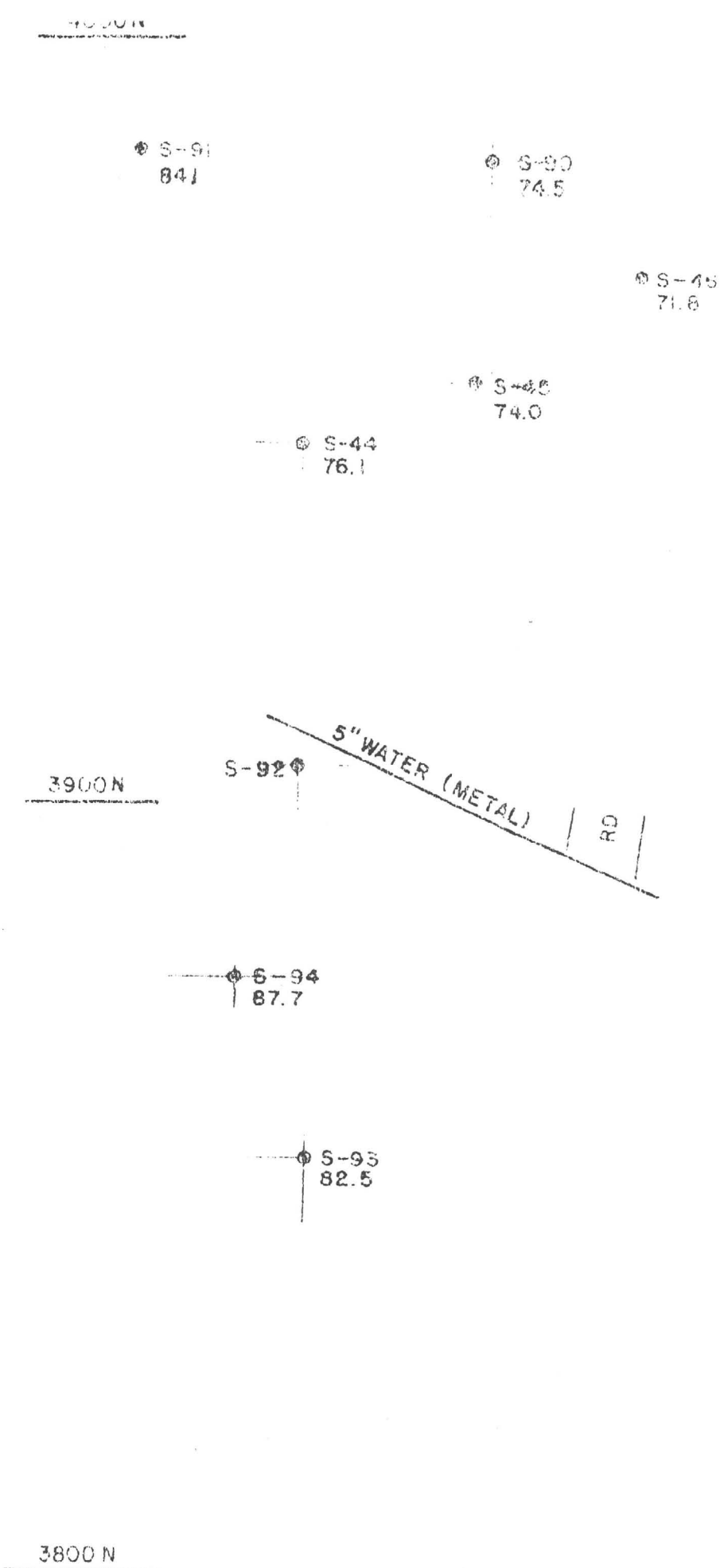
State of Maine No. 2

SECTION		ORE			WASTE	
Number	Distance Between	Square Feet	Ave. Grade Oz/Ton Ag	Tons	Square Feet	Tons
Ramp		0	- -		0	
	150 ft.		1.96	170		7670
S-0001		380	1.96		1020	
	12.5 ft.		2.25	290		1750
Face		240	2.53		1460	
	12.5 ft.		5.40	180		1740
S-1820		145	8.26		1860	
Totals			3.06	640		8560
W/20% Dilution			2.54	770		8230
Strip Ratio					10.7:1	
	12.5 ft.		11.67	580		2560
S-2115		630	23.25		2760	
	25 ft.		10.22	1550		4660
S-2216		1040	2.33		2270	
	12.5 ft.		2.33	960		2100
Totals			8.04	3090		9320
W/20% Dilution			6.70	3710		8700
Strip Ratio					2.4:1	



Triple X
No. 72

Smelter Vein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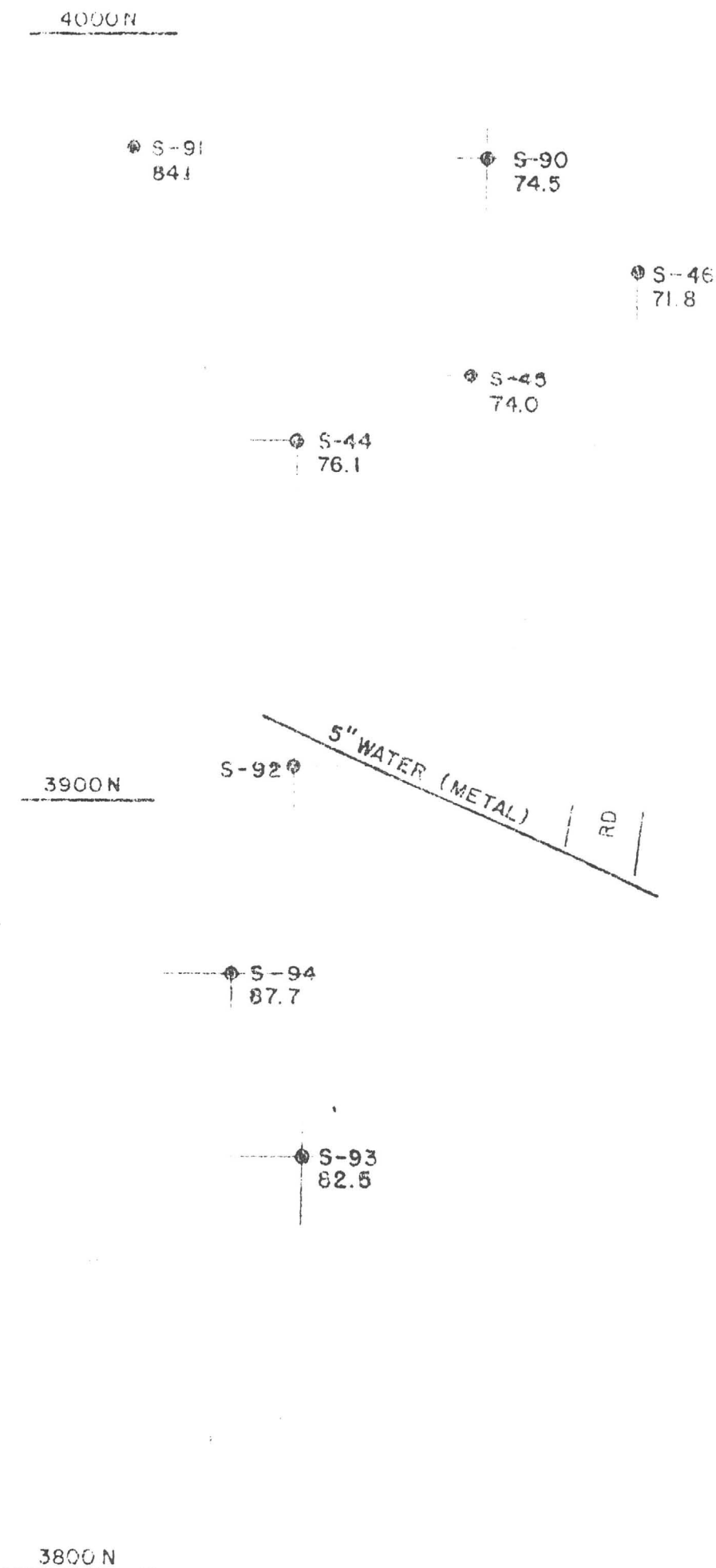
S-90
74.5
S-45
71.8
S-43
74.0
S-44
76.1
5" WATER (METAL)
RD
S-92
3900 N
S-94
87.7
S-93
82.5
3800 N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S-90
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S-45
74.0
S-44
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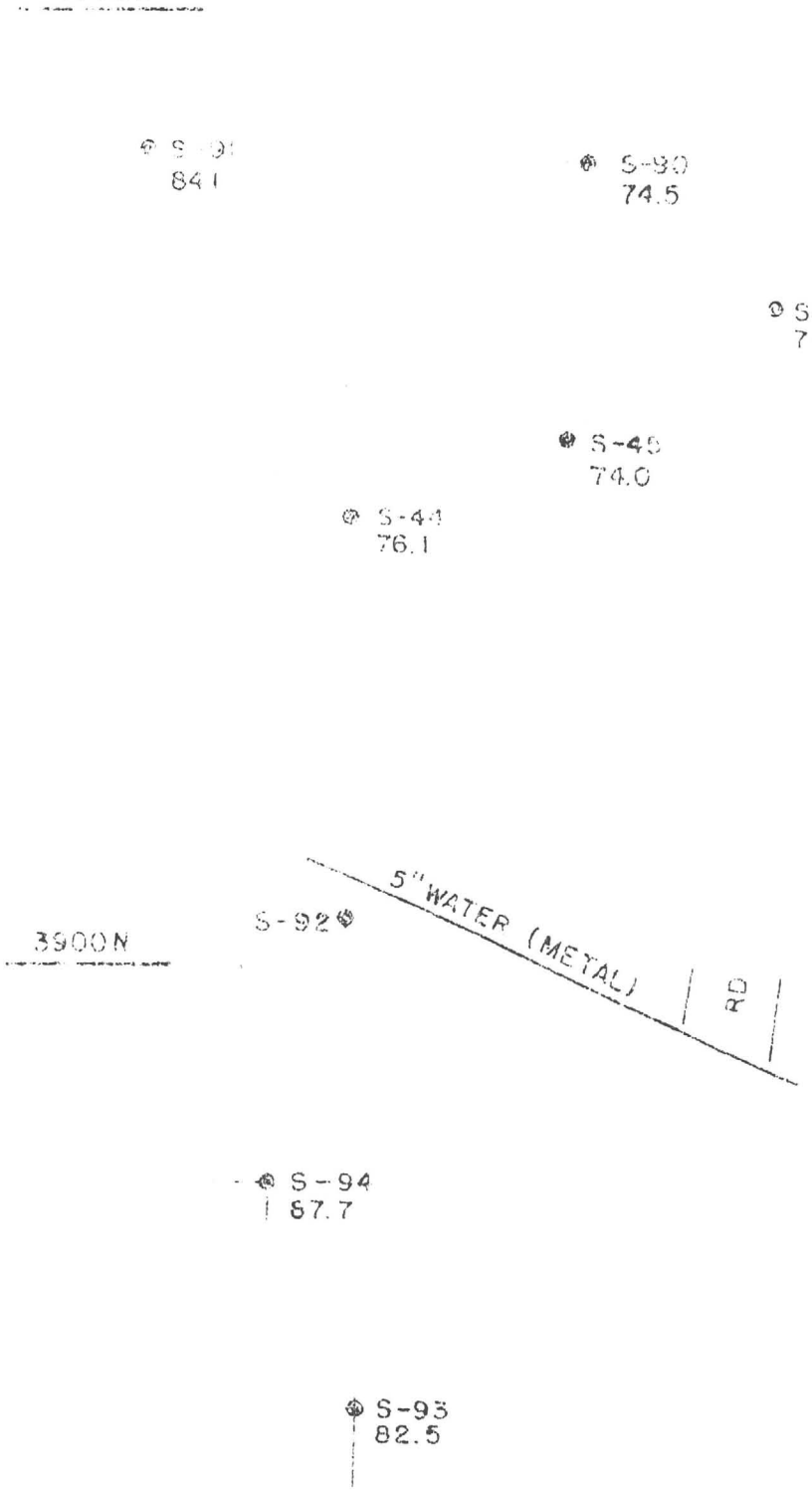
5" WATER (METAL)
RD
3900N
S-92
S-94
87.7
S-93
82.5
3800N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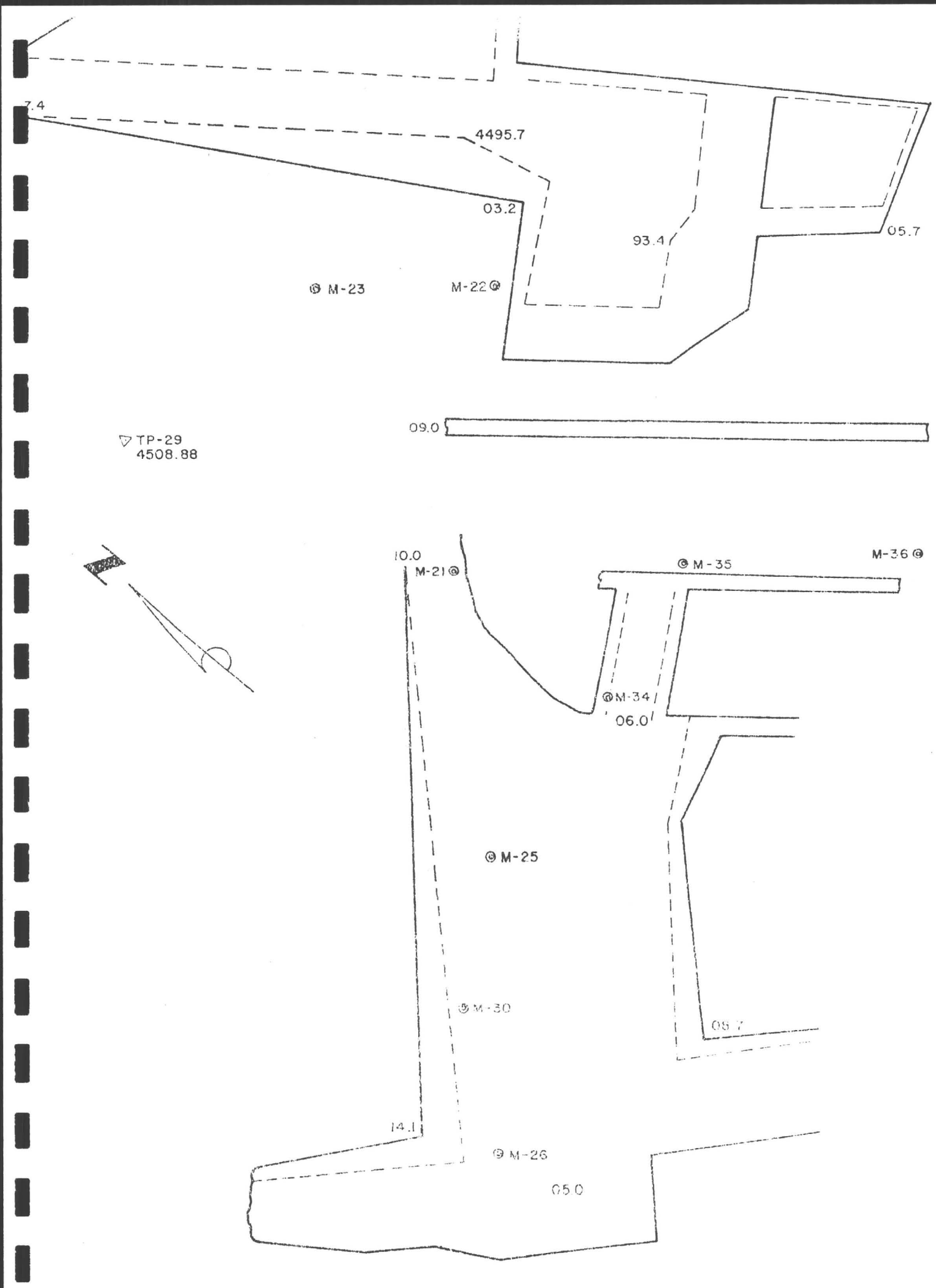
S-90
74.5
S-45
71.8
S-46
74.0
S-44
76.1
5" WATER (METAL)
RD
S-92
3900 N
S-94
87.7
S-93
82.5
3800 N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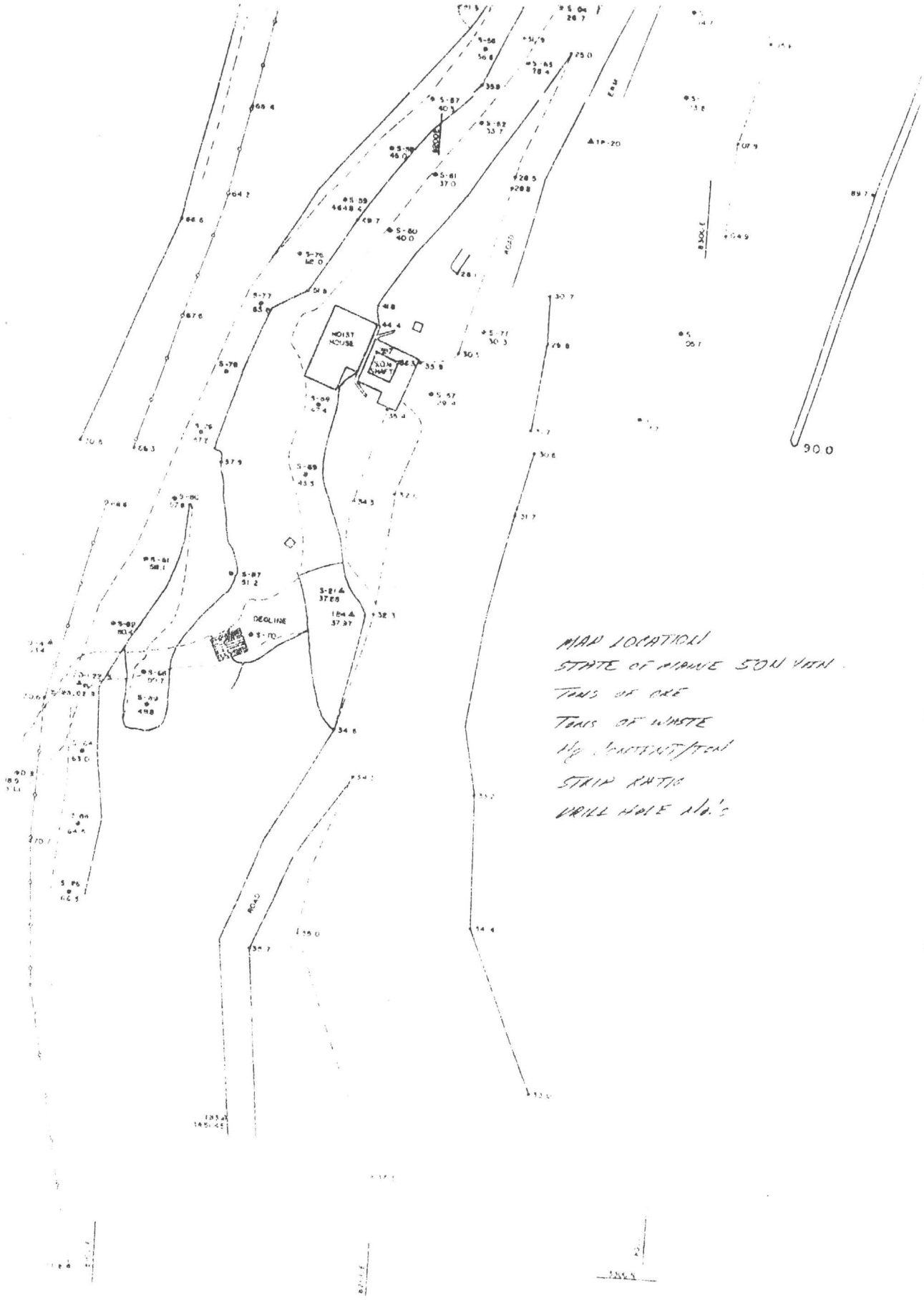
03.2
93.4
05.7
M-23
M-22
09.0
TP-29
4508.88
10.0
M-21
M-35
M-36
M-34
06.0
M-25
M-30
05.7
14.1
M-26
05.0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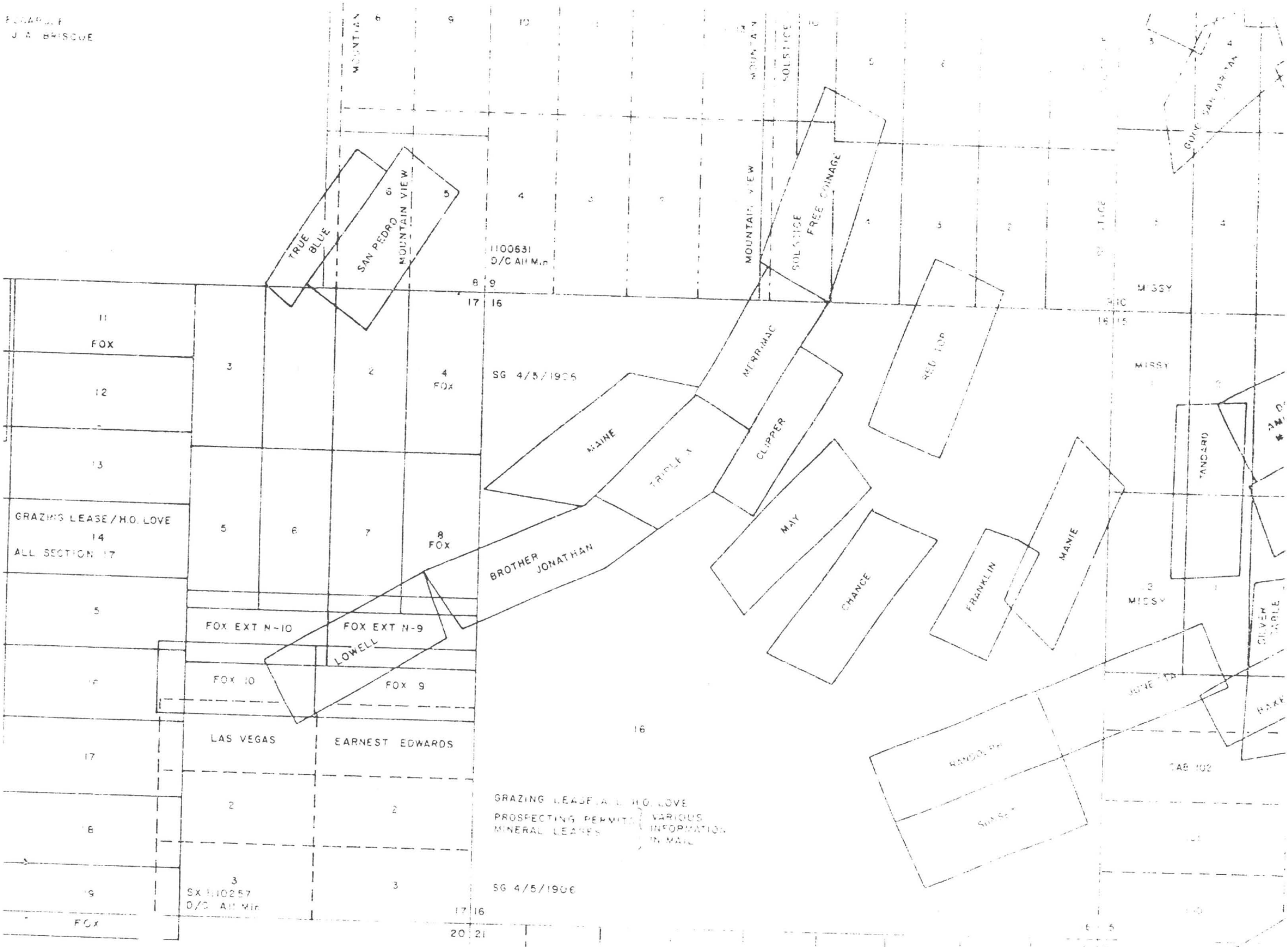
DECLINE
ROAD
MAP LOCATION
STATE OF MAINE SON VAL
TONS OF ORE
TONS OF WASTE
Hg CONTENT/TON
STRIP RATIO
DRILL HOLE NO.'S


J. A. BRISCOE
TRUE BLUE
SAN PEDRO
MOUNTAIN VIEW
SOLSTICE
FREE COINAGE
MERRIMAC
CLIPPER
MAINE
TRIPLEX
MAY
CHANCE
RED FOX
FRANKLIN
MANIE
MISSY
TANDARD
BROTHER JONATHAN
LOWELL
FOX
FOX EXT N-10
FOX EXT N-9
FOX 10
FOX 9
LAS VEGAS
EARNEST EDWARDS
GRAZING LEASE / H.O. LOVE
ALL SECTION 17
SG 4/5/1906
1100631
D/C All Min
GRAZING LEASE / A. L. H.O. LOVE
PROSPECTING PERMITS
MINERAL LEASES
VARIOUS INFORMATION IN MAIL
SX 110257
D/C All Min
RANDOLPH
SUNSET
TAB 102

Ore Reserve Summary

	ORE Tons	ORE Grade oz/ton Ag	WASTE Tons	Strip Ratio
State of Maine Shaft	15,560	2.40	26,210	1.7:1
State of Maine Shaft 70N Vein	2080	2.62	24,550	11.8:1
State of Maine Shaft 50N Vein	3850	2.98	17,345	4.5:1
State of Maine Vein No.2	3710	6.70	8,700	2.4:1
Smelter Vein	1110	2.91	7,120	6.4:1
Triple X Vein No. 1	1990	1.33	9,150	4.6:1
Triple X Vein No.2	3330	1.67	14,880	4.5:1
Merrimac Vein	3960	3.11	13,290	3.4:1
Totals	35,590		121,245	3.4:1
Weighted Average		2.89		

The 70N vein design resulted in an excessive strip ratio. Additional drilling may change the tonnage and grade to allow a new design to reduce the strip ratio.

The Triple X No.1 is not a high enough grade to be classed as mineable ore. The reason this tonnage and grade is included is that it is also an access ramp for Triple X No.2.

Excluding these two areas would reduce to total tonnage by 11.4%.

ORE RESERVE CALCULATIONS

State of Maine Shaft Area

SECTION Number	Distance Between	ORE Square Feet	Ave. Grade Oz/Ton Ag	Tons	WASTE Square Feet	Tons
Ramp		0	–	– –	0	7730
	130 ft.					
S-5762		156	0.54		1815	
	12.5 ft.		1.08	420		1640
S-5862		750	1.61		1730	
	25 ft.		2.12	2230		4320
S-5960		1665	2.63		2920	
	20 ft.		2.66	3720		3590
S-6071		3360	2.70		1925	
	27 ft.		3.56	4530		4930
S-7767		1170	4.40		3085	
	23 ft.		3.00	2070		6590
S-7865		1260	1.59		4730	
Totals			2.88	12,970		28,610
W/20% Dilution			2.40	15,564		26,219
Strip Ratio					1.7:1	

State of Maine ZOA Vein

Ramp		0	–			
	140 ft.	–	–	–		15,987
S-5652		585	3.15		7910	
	40 ft.		3.15	1730		9090
Totals			3.15	1730		24,987
W/20% Dilution			2.62	2080		24,530
Strip Ratio					11.8:1	

State of Maine 50N Vein

SECTION Number	Distance Between	ORE Square Feet	Ave. Oz/Ton	Grade Ag	Tons
Ramp		0	-		0
	40 ft.		-	-	
S-7671		20	2.84		
	30 ft.		2.72		[illegible]
S-7767		155	2.79		
	100 ft.		2.86		[illegible]
S-8187		100	3.10		
	25 ft.		2.32		300
S-8258		225	2.26		
	95		4.23		[illegible]
S-8086		280	5.81		
Totals			3.58		3205
W/20% Dilution			2.98		3970
Strip Ratio					

State of Maine No. 2

SECTION		ORE			WASTE	
Number	Distance Between	Square Feet	Ave. Grade Oz/Ton Ag	Tons	Square Feet	Tons
Ramp		0	-		0	
	150 ft.		1.96	170		3670
S-0001		380	1.96		1020	
	12.5 ft.		2.25	390		1170
Face		240	2.53		1460	
	12.5 ft.		5.40	180		[illegible]
S-1820		145	8.26		[illegible]	
Totals			3.06	640		8[illegible]0
W/20% Dilution			2.54	770		82[illegible]0
Strip Ratio					10.7:1	
	12.5 ft.		11.67	580		[illegible]
S-2115		630	23.25		2750	
	25 ft.		10.22	1550		1660
S-2216		1040	2.33		2370	
	12.5 ft.		2.33	900		[illegible]
Totals			8.04	3000		[illegible]
W/20% Dilution			6.70	3710		[illegible]
Strip Ratio					[illegible]:1	

Smelter Vein

SECTION Number	Distance Between	ORE Square Feet	Ave. Grade Oz/Ton Ag	Tons	WASTE Square Feet	Tons
Ramp		0	-		1190	
	120 ft.			-		5400
Stope		470	4.52		720	
	93 ft.		3.81	650		4240
Stope		300	2.70		750	
	13.5 ft.		2.70	750		220
Totals			3.48	930		7580
W/20% Dilution			2.91	1110		7120
Strip Ratio					6.4:1	

Triple X Vein No.1

Ramp		0	-		[illegible]	
	80 ft.			-		4400
		375	1.60		1130	
	90 ft.		1.60	[illegible]		2[illegible]
Pocket		375	1.60		40	
	93 ft.		1.60	[illegible]		2[illegible]
		375	1.60		130	
			1.60			
Totals			1.60	[illegible]		[illegible]
W/20% Dilution			1.33	[illegible]		[illegible]
Strip Ratio					[illegible]:1	

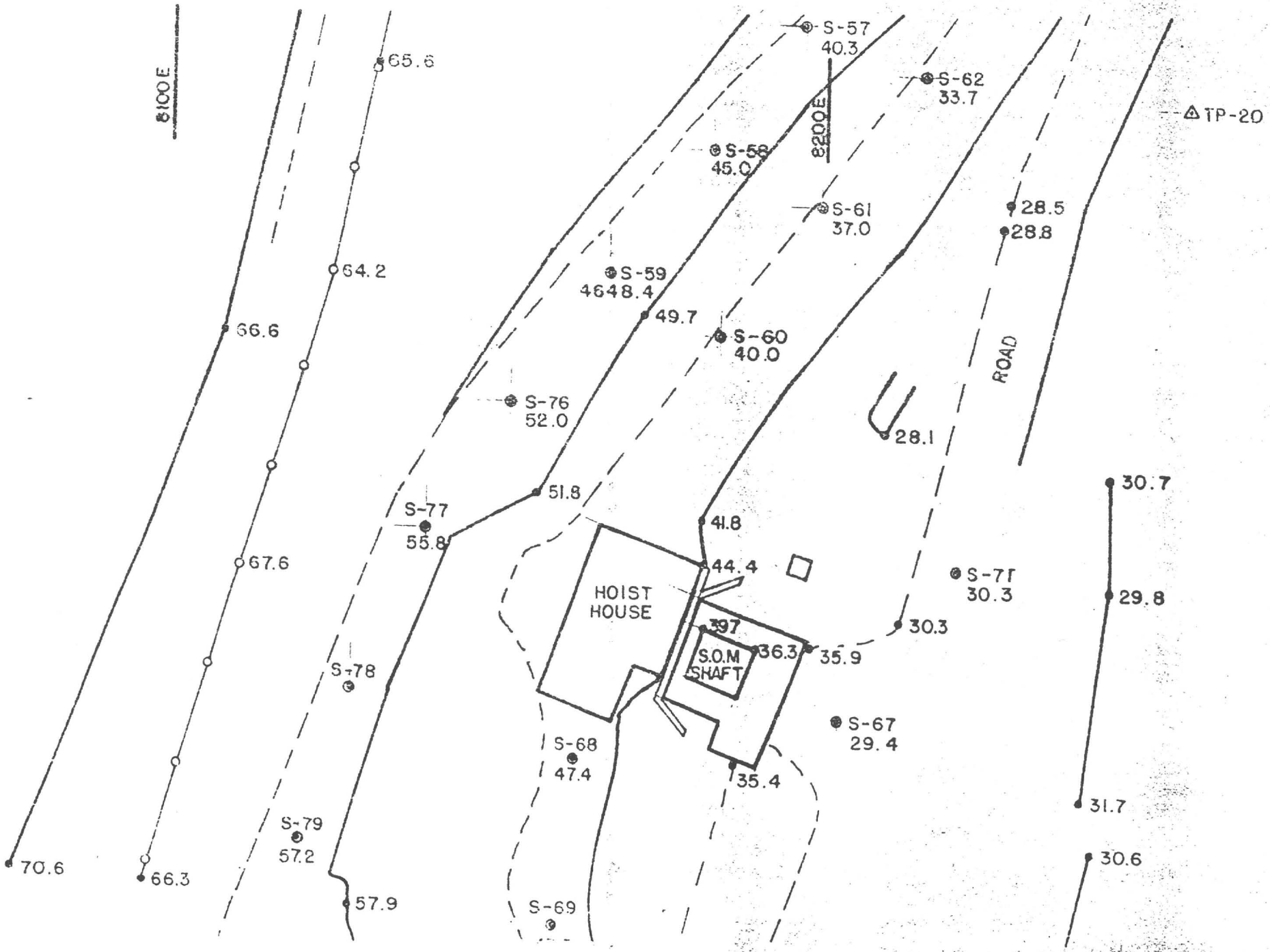
Triple X Vein No. 2

SECTION		ORE				WASTE	
Number	Distance Between	Square Feet	Ave. Oz/Ton	Grade Ag	Tons	Square Feet	[illegible]
Ramp		0	-				
	80 ft.						[illegible]
		470	1.74			[illegible]	
	25 ft.		1.74		870		[illegible]
T-0003		470	1.74			[illegible]	
	50 ft.		2.06		1610		[illegible]
T-0102		400	2.43			[illegible]	
	10 ft.		2.43		300		[illegible]
Totals			2.00		2780		[illegible]
W/20% Dilution			1.67		3330		[illegible]
Strip Ratio						[illegible]	

Merrimac Vein

Ramp		0	-			[illegible]	
	120						[illegible]
Fence		[illegible]	2.65			[illegible]	
	30		3.65		[illegible]		[illegible]
Road		375	3.90			[illegible]	
	50		3.90		1380		[illegible]
Road		375	3.90			[illegible]	
	60		3.89		[illegible]		[illegible]
Shaft		155	3.85			[illegible]	
	20		3.85		230		
		155	3.85			[illegible]	[illegible]
Totals			3.78		[illegible]		[illegible]
W/20% Dilution			3.13		3960		[illegible]
Strip Ratio						[illegible]	

SOM Staff Area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8200E
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64.2
66.6
67.6
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66.3
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S-57
40.3
S-62
33.7
TP-20
S-58
45.0
S-61
37.0
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S-59
4648.4
49.7
S-60
40.0
ROAD
S-76
52.0
28.1
51.8
S-77
55.8
41.8
44.4
HOIST
HOUSE
S-71
30.3
30.7
29.8
39.7
S.O.M
SHAFT
36.3
35.9
30.3
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31.7
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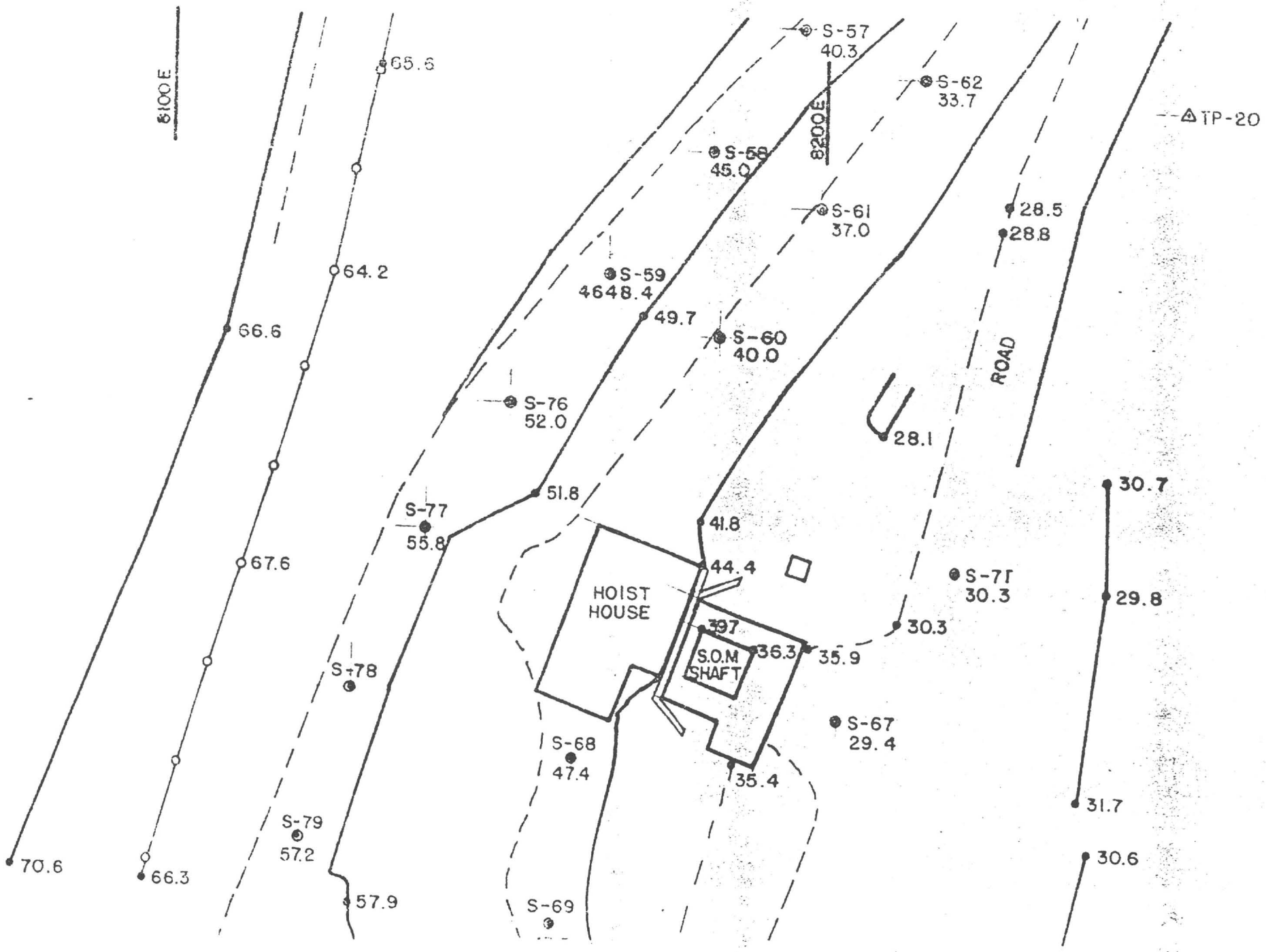
30.6
S-69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8200 E
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TP-20
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45.0
S-61
37.0
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S-59
4648.4
49.7
S-60
40.0
ROAD
S-76
52.0
28.1
51.8
S-77
55.8
41.8
44.4
30.7
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30.3
HOIST
HOUSE
39.7
S.O.M
SHAFT
36.3
35.9
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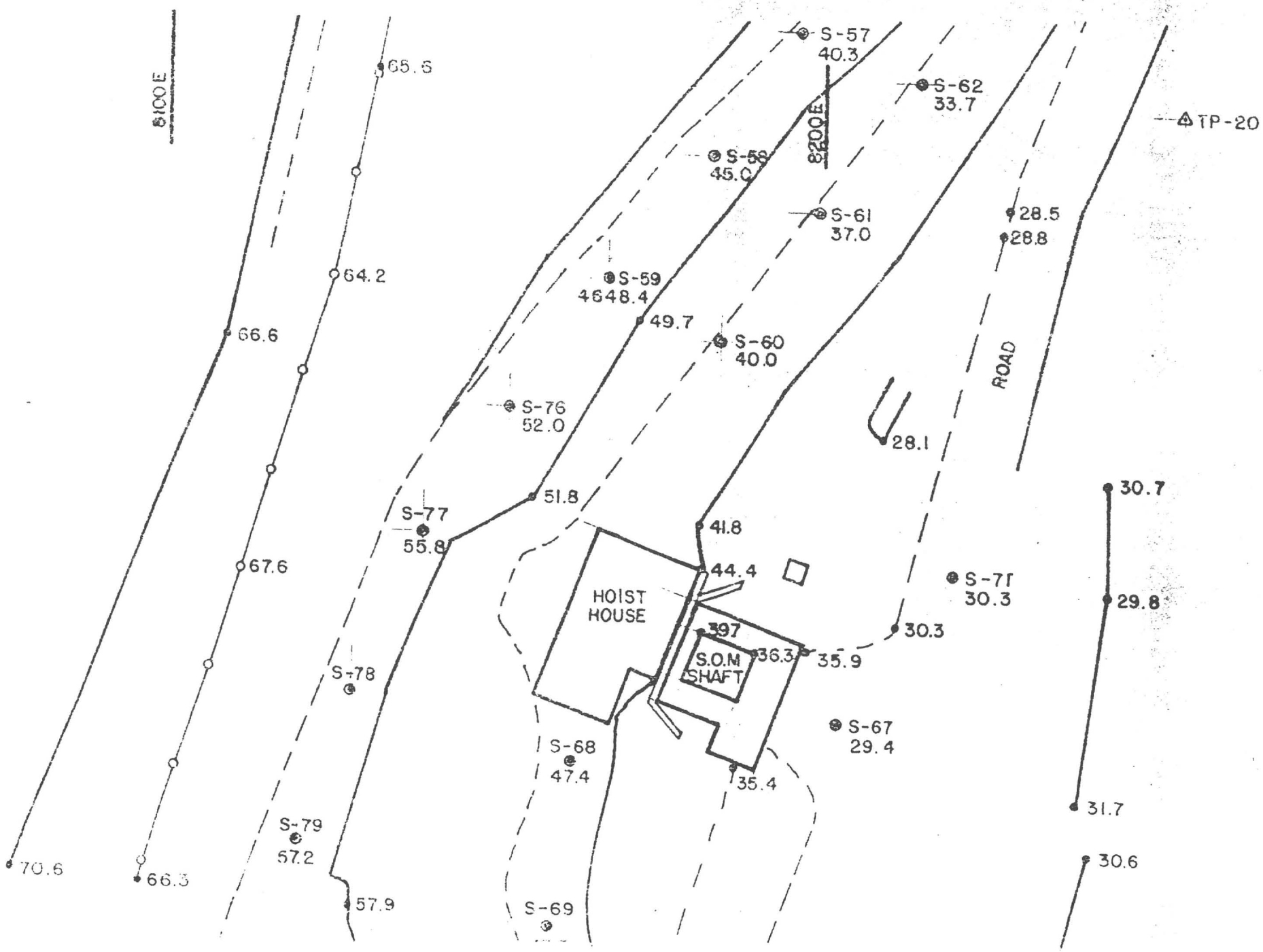
57.2
30.6
S-69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4648.4
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40.0
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ROAD
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52.0
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51.8
S-77
55.8
41.8
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30.3
HOIST
HOUSE
29.8
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30.3
S.O.M
SHAFT
36.3
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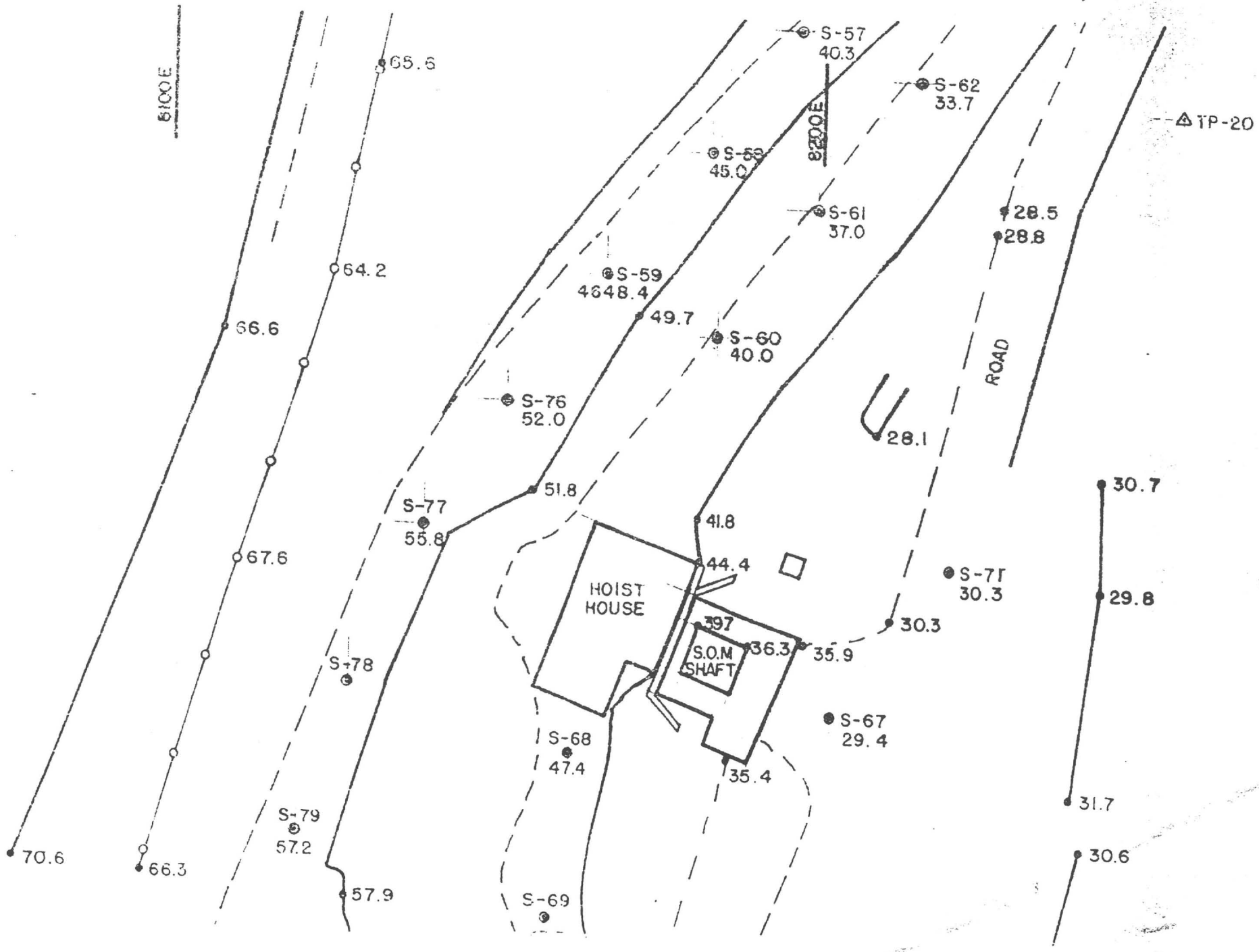
S-69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ROAD
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S.O.M
SHAFT
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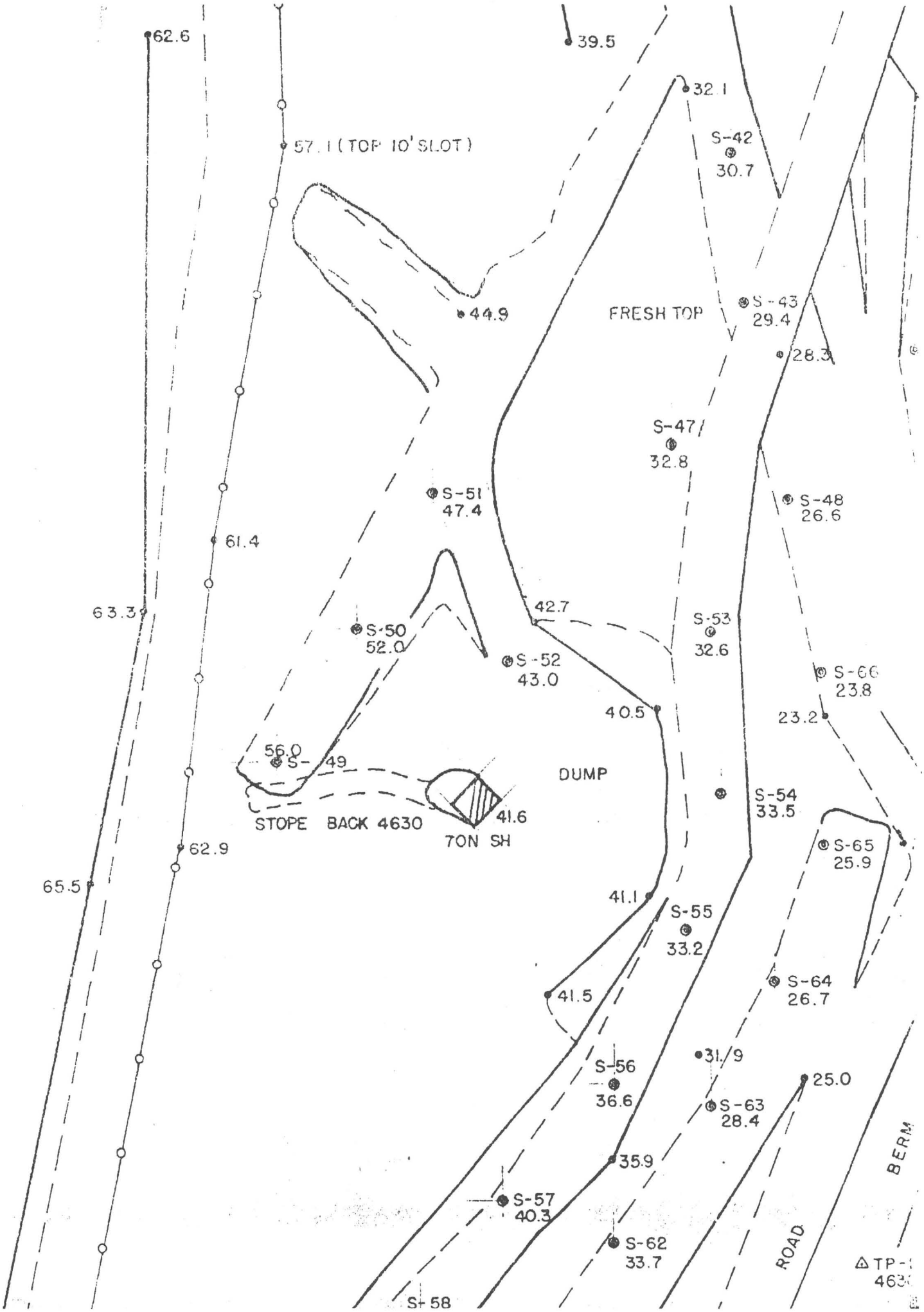
S-67
29.4
S-68
47.4
35.4
31.7
S-79
57.2
70.6
66.3
30.6
57.9
S-69

State of Maine Shaft Area

SECTION Number	Distance Between	ORE Square Feet	Ave. Grade Oz/Ton	Ag	Tons	WASTE Square Feet	Tons
Ramp		0	-	-	-	0	7730
	130 ft.						
S-5762		156	0.54			1815	
	12.5 ft.		1.08		420		1640
S-5861		750	1.61			1730	
	25 ft.		2.12		2230		4320
S-5960		1665	2.63			2920	
	20 ft.		2.66		3720		3590
S-7671		3360	2.70			1925	
	27 ft.		3.56		4530		4930
S-7767		1170	4.40			3005	
	23 ft.		3.00		2070		6590
S-7868		1260	1.59			4732	
Totals			2.88		12,970		28,800
W/20% Dilution			2.40		15,560		26,210
Strip Ratio						1.7:1	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39.5
32.1
57.1 (TOP 10' SLOT)
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30.7
44.9
FRESH TOP
S-43
29.4
28.3
S-47
32.8
S-51
47.4
S-48
26.6
61.4
63.3
42.7
S-50
52.0
S-53
32.6
S-52
43.0
S-66
23.8
40.5
23.2
56.0
S-49
DUMP
S-54
33.5
41.6
STOPE BACK 4630
TON SH
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25.9
65.5
41.1
S-55
33.2
S-64
26.7
41.5
31.9
S-56
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BERM
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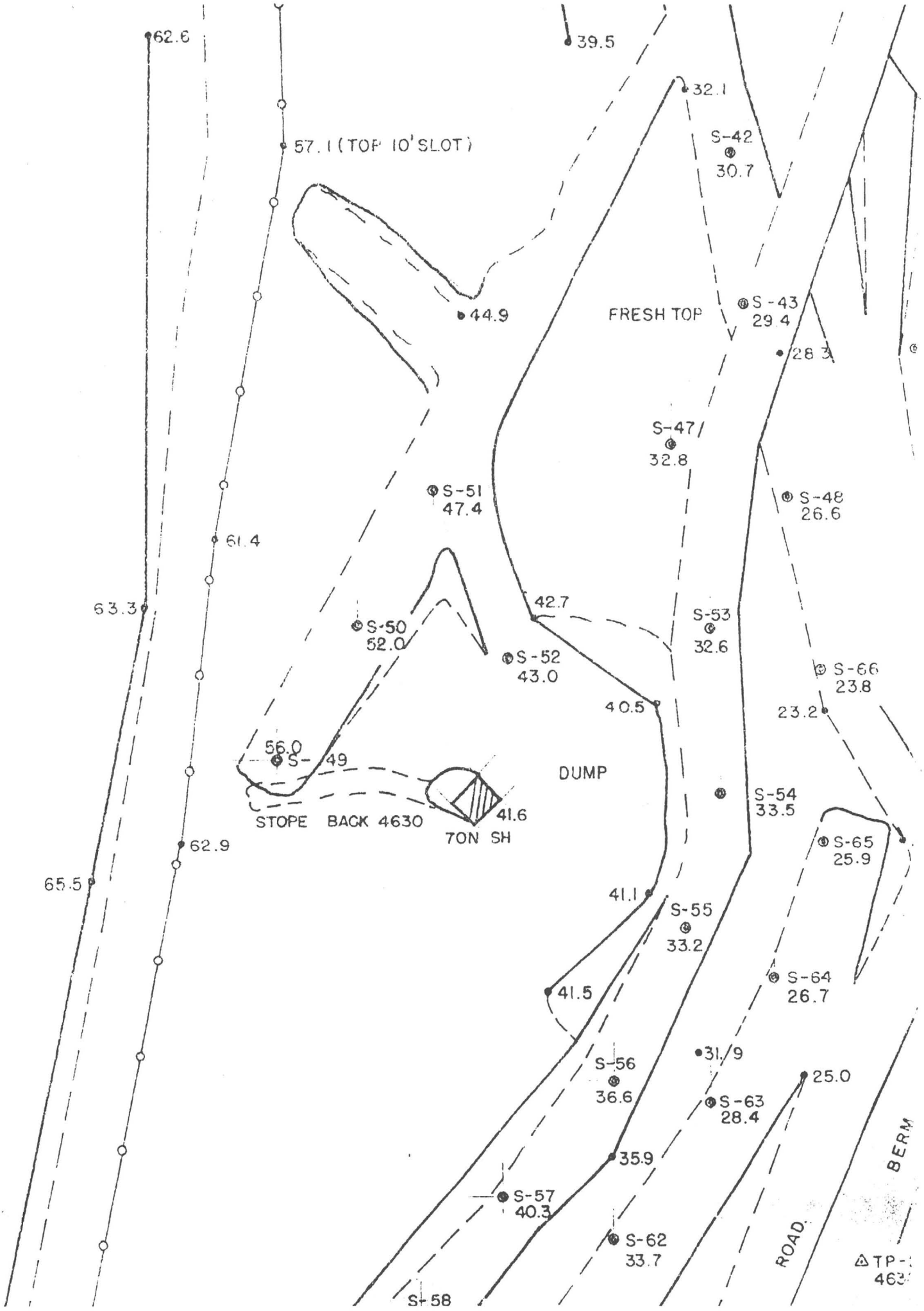
S-62
33.7
ROAD
TP-1
S-58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57.1 (TOP 10' SLOT)
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S-47
32.8
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47.4
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23.2
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DUMP
S-54
33.5
STOPE BACK 4630
41.6
TON SH
62.9
S-65
25.9
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41.1
S-55
33.2
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TP-
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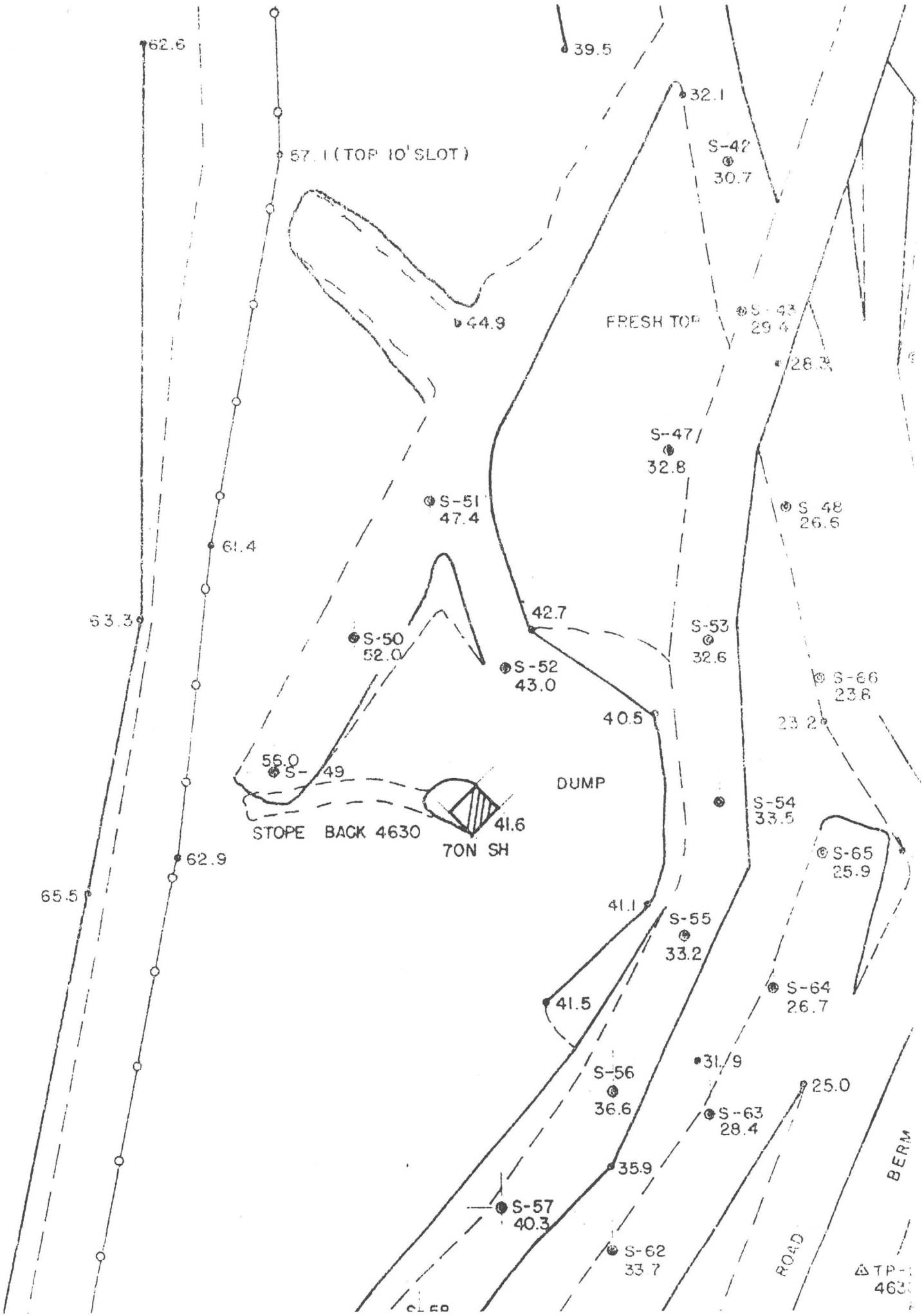
S-58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32.1
57.1 (TOP 10' SLOT)
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44.9
FRESH TOP
S-43
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S-47
32.8
S-51
47.4
S-48
26.6
61.4
53.3
42.7
S-53
32.6
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52.0
S-52
43.0
S-66
23.8
40.5
23.2
56.0
S-49
DUMP
S-54
33.5
41.6
STOPE BACK 4630
70N SH
S-65
25.9
62.9
65.5
41.1
S-55
33.2
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41.5
31.9
S-56
36.6
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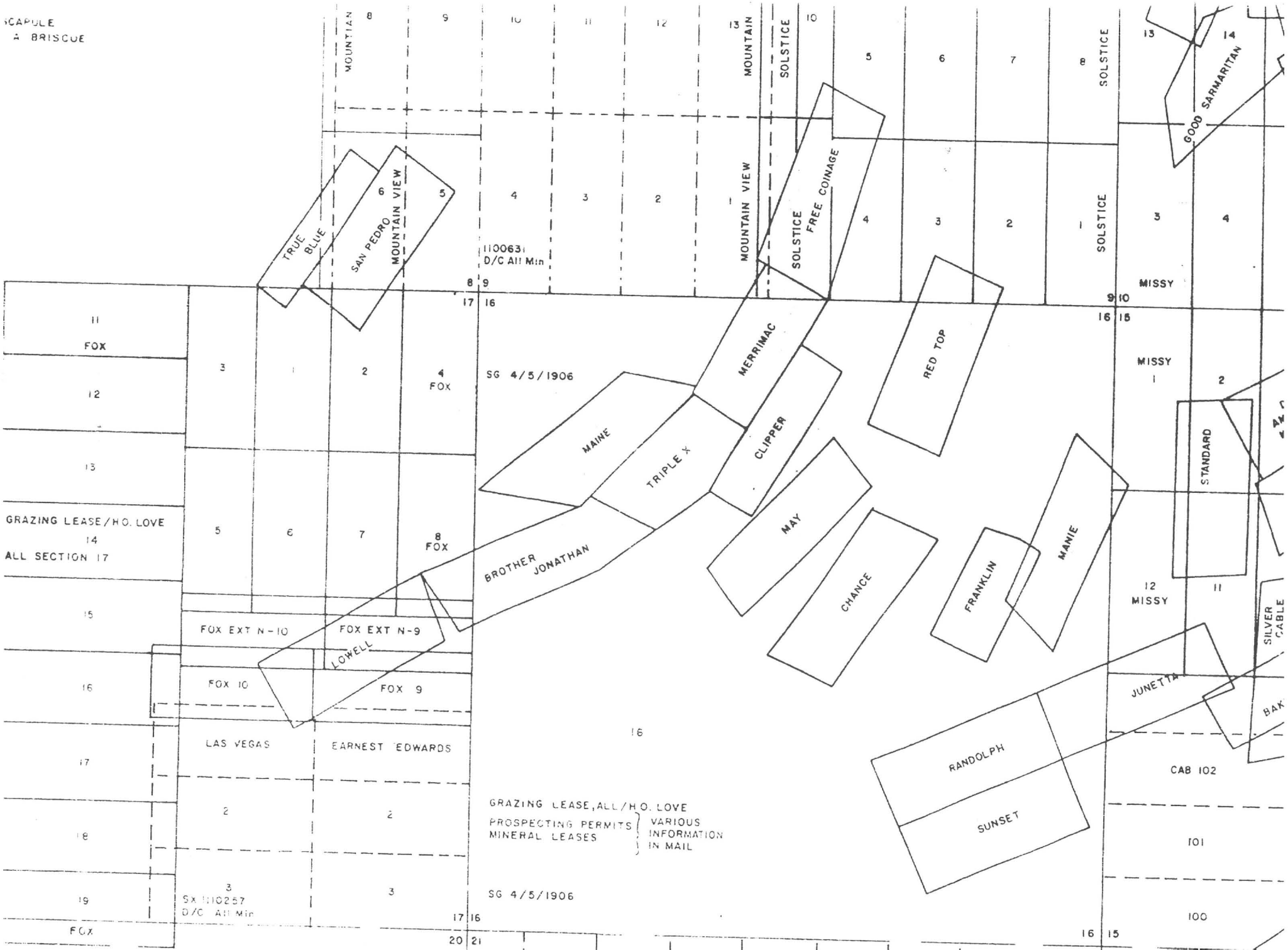
33.7
ROAD

STATE OF MAINE
ORE RESERVES ?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MOUNTAIN
SOLSTICE
GOOD SARMARITAN
TRUE BLUE
SAN PEDRO
MOUNTAIN VIEW
SOLSTICE FREE COINAGE
1100631
D/C All Min
MISSY
FOX
SG 4/5/1906
MERRIMAC
RED TOP
MAINE
TRIPLE X
CLIPPER
STANDARD
GRAZING LEASE/H.O. LOVE
ALL SECTION 17
BROTHER JONATHAN
MAY
CHANCE
FRANKLIN
MANIE
FOX EXT N-10
FOX EXT N-9
LOWELL
FOX 10
FOX 9
JUNETTA
SILVER CABLE
LAS VEGAS
EARNEST EDWARDS
RANDOLPH
SUNSET
CAB 102
GRAZING LEASE, ALL/H.O. LOVE
PROSPECTING PERMITS
MINERAL LEASES
VARIOUS INFORMATION IN MAIL
101
100
SX 1110257
D/C All Min

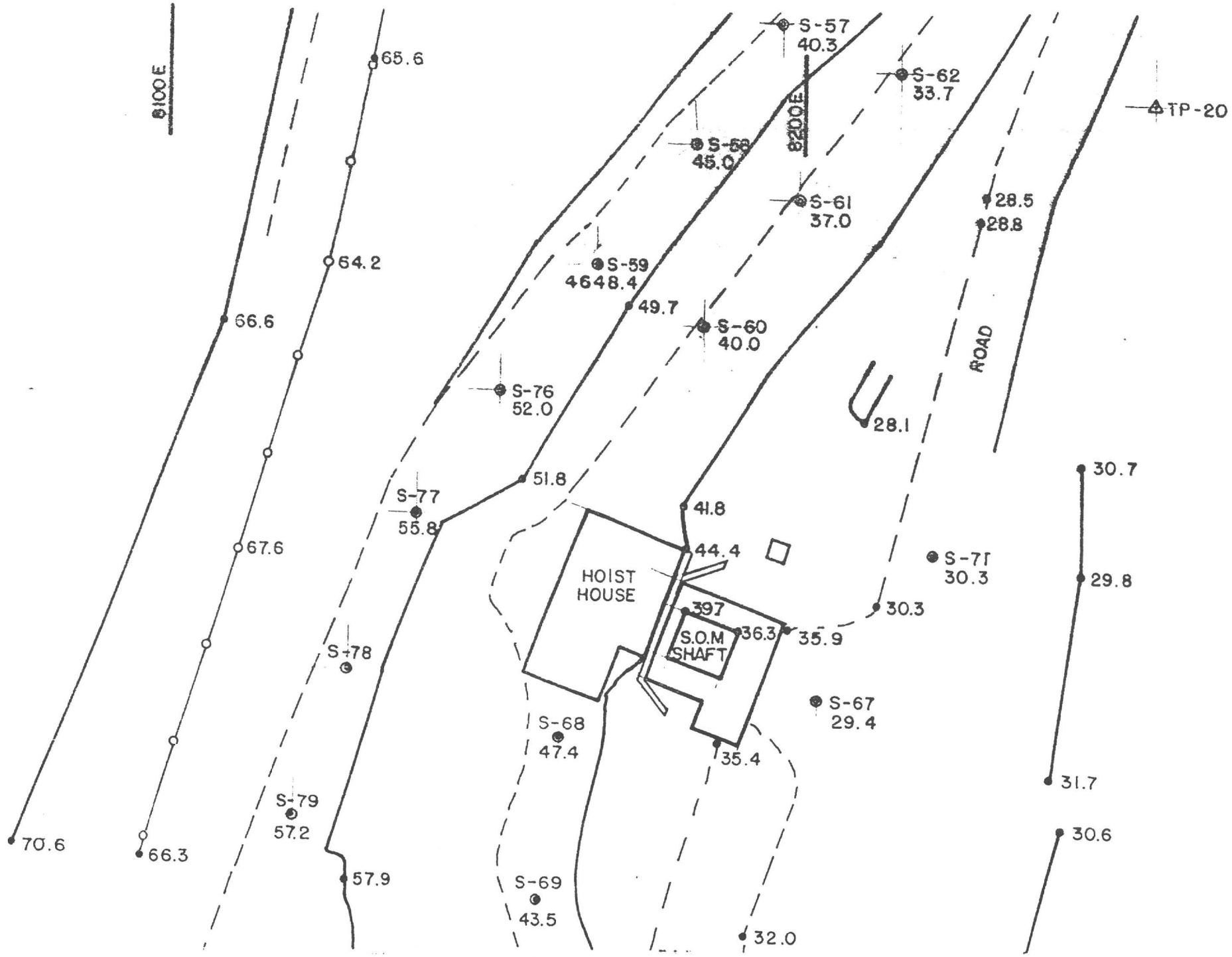
ORE RESERVE CALCULATIONS

State of Maine Shaft Area

SECTION Number	Distance Between	ORE Square Feet	Ave. Grade Oz/Ton Ag		Tons	WASTE Square Feet	Tons
Ramp		0	-	-	-	0	7730
	130 ft.						
S-5762		156	0.54			1815	
	12.5 ft.		1.08		420		1640
S-5861		750	1.61			1730	
	25 ft.		2.12		2230		4320
S-5960		1665	2.63			2920	
	20 ft.		2.66		3720		3590
S-7671		3360	2.70			1925	
	27 ft.		3.56		4530		4930
S-7767		1170	4.40			3005	
	23 ft.		3.00		2070		6590
S-7868		1260	1.59			4732	
Totals			2.88		12,970		28,800
W/20% Dilution			2.40		15,560		26,210
Strip Ratio						1.7:1	

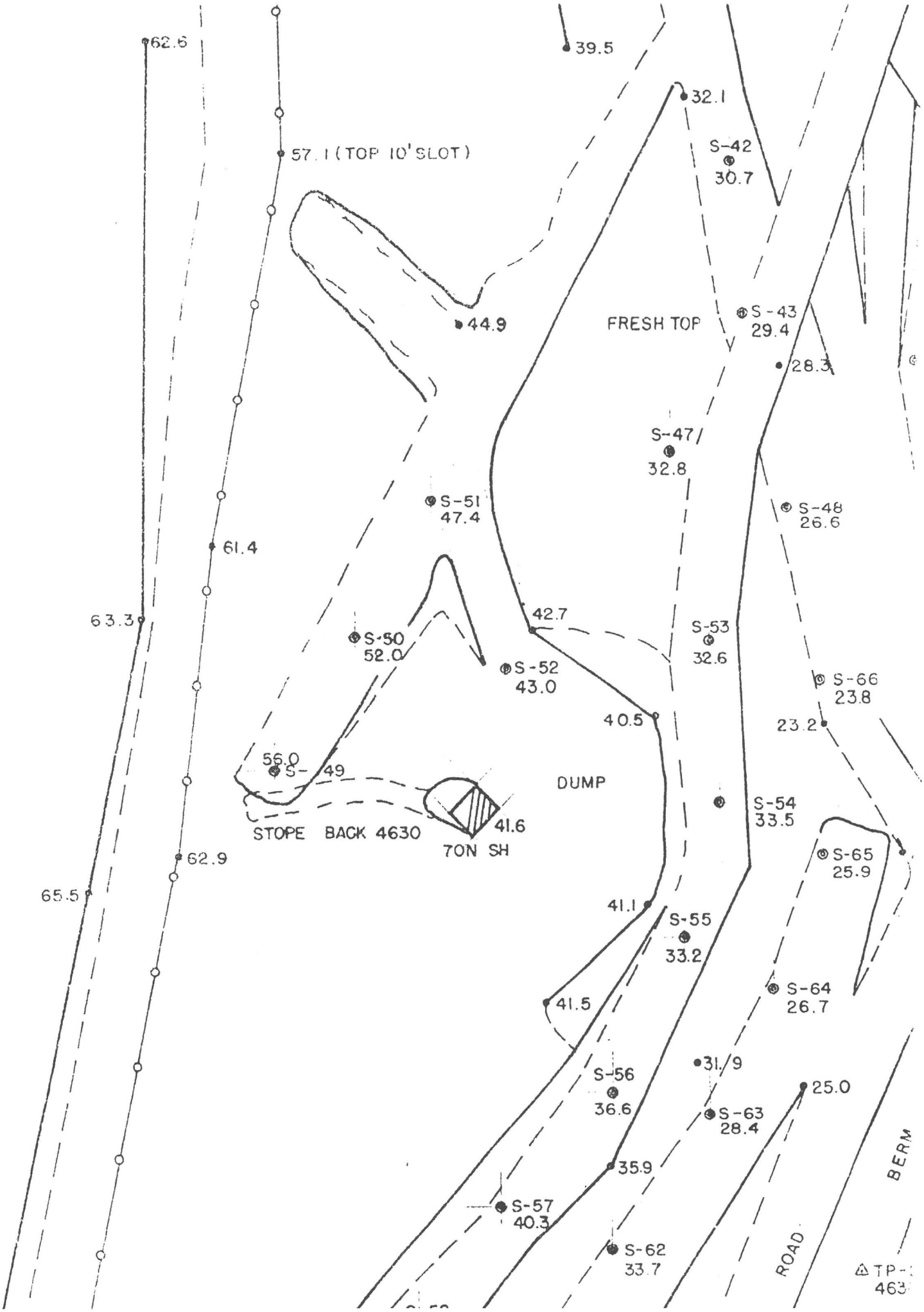
State of Maine 70N Vein

Ramp		0	-			0	
	120 ft.	-	-		-		15,980
S-5152		585	3.15			3010	
	40 ft.		3.15		1730		8920
Totals			3.15		1730		24,900
W/20% Dilution			2.62		2080		24,550
Strip Ratio						11.8:1	


B100E
B200E
65.6
64.2
66.6
67.6
70.6
66.3
S-57
40.3
S-62
33.7
TP-20
S-58
45.0
S-61
37.0
28.5
28.8
S-59
4648.4
49.7
S-60
40.0
ROAD
S-76
52.0
28.1
51.8
S-77
55.8
41.8
44.4
HOIST
HOUSE
S-71
30.3
30.7
29.8
39.7
S.O.M
SHAFT
36.3
35.9
30.3
S-78
S-67
29.4
S-68
47.4
35.4
31.7
S-79
57.2
30.6
57.9
S-69
43.5
32.0

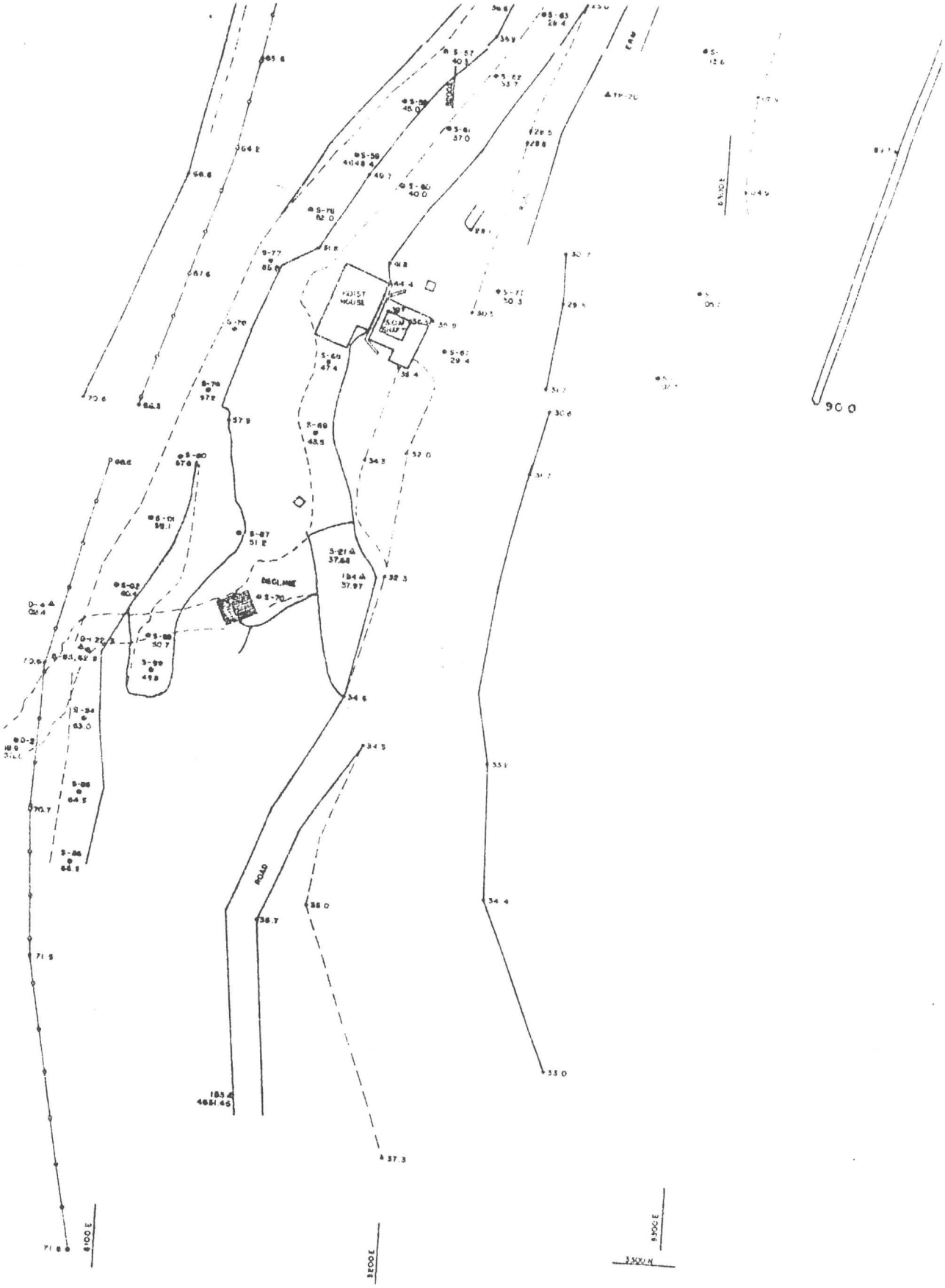
State of Maine 70N Vein

Ramp	0	–		0	
120 ft.	–	–	–		15,980
S-5152	585	3.15		3010	
40 ft.		3.15	1730		5920
Totals		3.15	1730		25,900
W/20% Dilution		2.62	2060		24,550
Strip Ratio				11.8:1	


62.6
39.5
32.1
57.1 (TOP 10' SLOT)
S-42
30.7
44.9
FRESH TOP
S-43
29.4
28.3
S-47
32.8
S-51
47.4
S-48
26.6
61.4
63.3
42.7
S-53
32.6
S-50
52.0
S-52
43.0
S-66
23.8
40.5
23.2
56.0
S-49
DUMP
S-54
33.5
STOPE BACK 4630
41.6
TON SH
62.9
S-65
25.9
65.5
41.1
S-55
33.2
41.5
S-64
26.7
31.9
S-56
36.6
25.0
S-63
28.4
35.9
BERM
S-57
40.3
S-62
33.7
ROAD
TP-
463

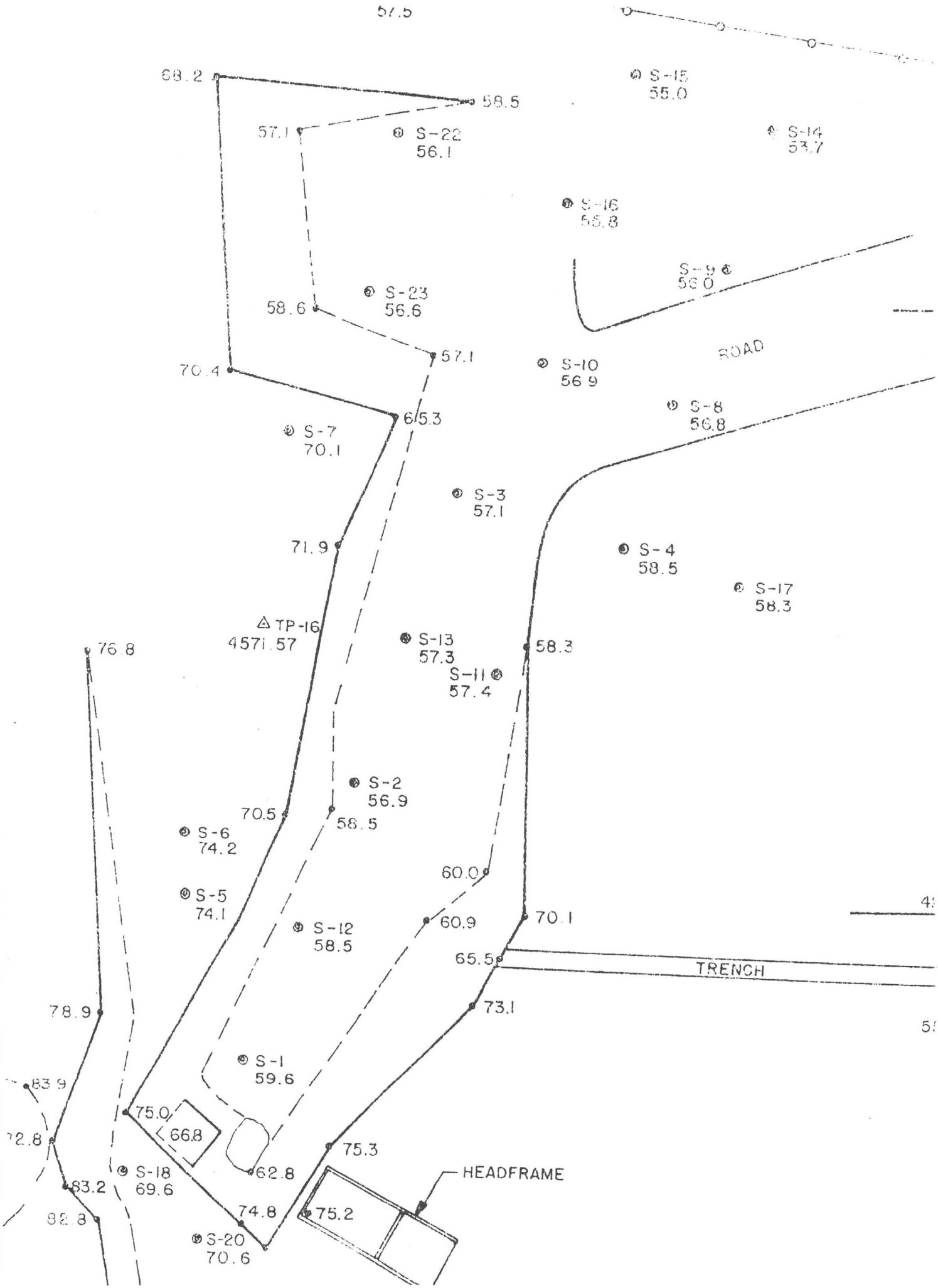
State of Maine 50N Vein

SECTION		ORE				WASTE	
Number	Distance Between	Square Feet	Ave. Oz/Ton	Grade Ag	Tons	Square Feet	Tons
Ramp		0	–		0		
	40 ft.						
S-7671		20	–	–			1200
	30 ft.		2.84			60	
S-7767		155	2.72		195		460
	100 ft.		2.70			350	
S-8187		100	2.86		940		3700
	25 ft.		3.10			650	
S-8288		225	2.52		300		2250
	95		2.26			1780	
S-0086		280	4.23		1770		10,380
			5.81			1170	
Totals			3.58		3205		17,990
W/20% Dilution			2.98		3850		17,345
Strip Ratio						4.5:1	


FOREST HOUSE
SCOW SHOP
DECLINE
ROAD
8100 E
8200 E
8300 E
3300 N
90.0

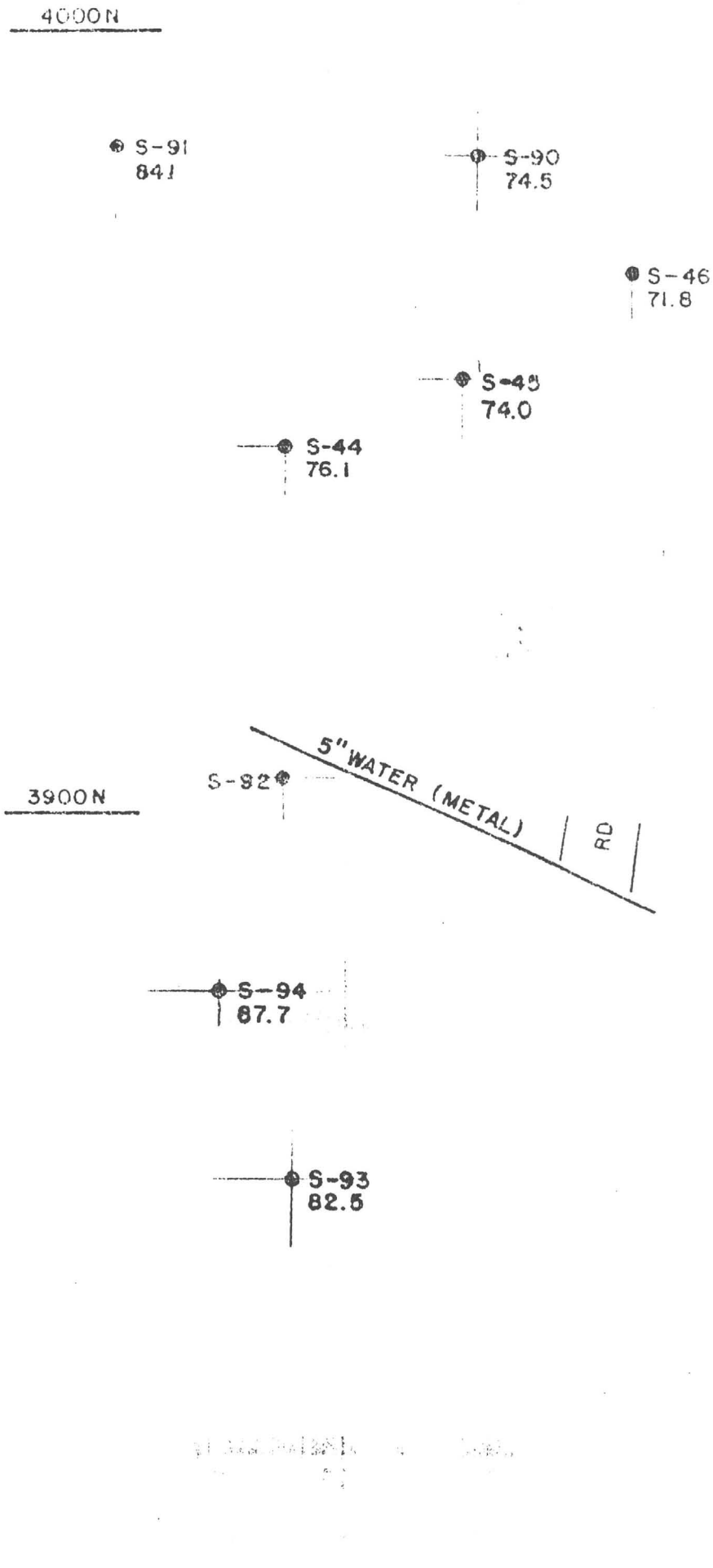
State of Maine No. 2

SECTION		ORE			WASTE	
Number	Distance Between	Square Feet	Ave. Grade Oz/Ton	Ag	Tons	Square Feet	Tons
Ramp		0	–	–		0	
	150 ft.		1.96		170		3670
S-0001		380	1.96			1020	
	12.5 ft.		2.25		290		1[illegible]0
Face		240	2.53			1460	
	12.5 ft.		5.40		180		[illegible]
S-1820		145	8.26			1860	
Totals			3.06		640		6760
W/20% Dilution			2.54		770		8[illegible]
Strip Ratio						10.7:1	
	12.5 ft.		11.67		580		[illegible]
S-2115		630	23.25			2760	
	25 ft.		10.22		1550		4060
S-2216		1040	2.33			2270	
	12.5 ft.		2.33		960		2100
Totals			8.04		3090		9[illegible]
W/20% Dilution			6.70		3710		5700
Strip Ratio						2.4:1	


57.5
68.2
58.5
S-15
55.0
57.1
S-22
56.1
S-14
53.7
S-16
55.8
S-9
56.0
S-23
56.6
58.6
57.1
ROAD
70.4
S-10
56.9
S-8
56.8
65.3
S-7
70.1
S-3
57.1
71.9
S-4
58.5
S-17
58.3
TP-16
4571.57
S-13
57.3
58.3
76.8
S-11
57.4
S-2
56.9
70.5
58.5
S-6
74.2
60.0
S-5
74.1
S-12
58.5
60.9
70.1
65.5
TRENCH
73.1
78.9
S-1
59.6
83.9
75.0
66.8
72.8
75.3
62.8
S-18
69.6
83.2
HEADFRAME
74.8
75.2
82.8
S-20
70.6

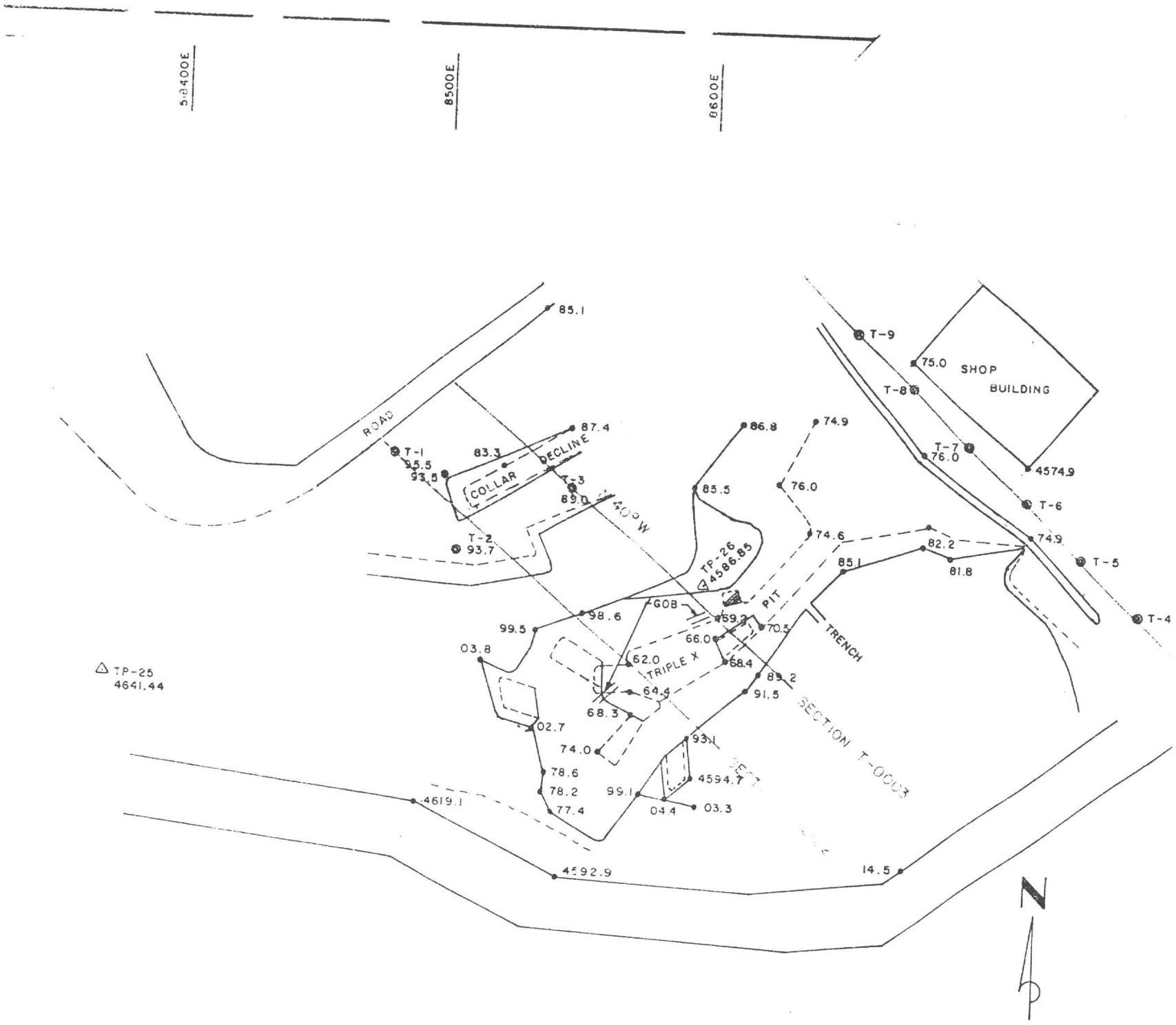
Smelter Vein

SECTION		ORE			WASTE	
Number	Distance Between	Square Feet	Ave. Grade Oz/Ton Ag	Tons	Square Feet	Tons
Ramp		0	-		1190	
	120 ft.			-		[illegible]
S-0045		470	4.52		720	
	23 ft.		3.81	650		1290
S-4490		300	2.70		780	
	12.5 ft.		2.70	280		720
Totals			3.48	930		7300
W/20%Dilution			2.91	1110		7120
Strip Ratio					6.4:1	


4000N
S-91
84.1
S-90
74.5
S-46
71.8
S-45
74.0
S-44
76.1
5" WATER (METAL)
RD
S-92
3900N
S-94
87.7
S-93
82.5
3800N

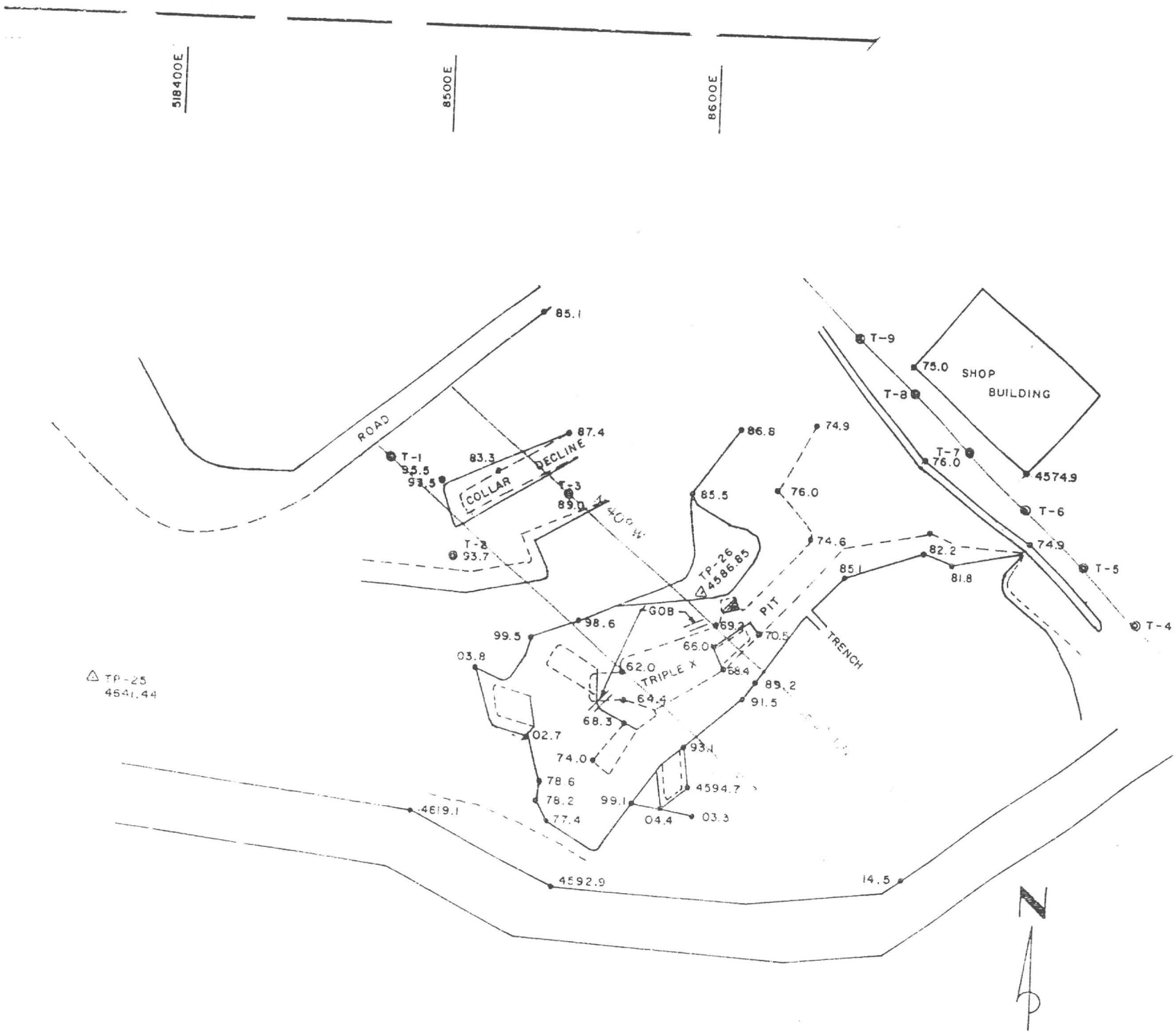
Triple X Vein No.1

Pump		0	-		1505	
	80 ft.				-	4460
		375	1.60		1130	
	30 ft.		1.60	830		2510
T-0409		375	1.60		1130	
	30 ft.		1.60	830		2510
		375	1.60		1130	
			1.60			
Totals			1.60	1660		9480
W/20% Dilution			1.33	1990		9150
Strip Ratio					4.6:1	


8400E
8500E
8600E
ROAD
85.1
87.4
83.3
T-1
95.5
93.5
COLLAR
DECLINE
T-3
89.0
T-2
93.7
86.8
74.9
85.5
76.0
74.6
TP-26
4586.85
PIT
GOB
99.5
98.6
03.8
62.0
TRIPLE X
64.4
68.3
66.0
68.4
70.5
89.2
91.5
TRENCH
SECTION T-0003
02.7
74.0
78.6
78.2
77.4
93.1
99.1
4594.7
04.4
03.3
4619.1
4592.9
14.5
TP-25
4641.44
T-9
75.0
SHOP
BUILDING
T-8
T-7
76.0
4574.9
T-6
74.9
T-5
82.2
81.8
85.1
T-4
N

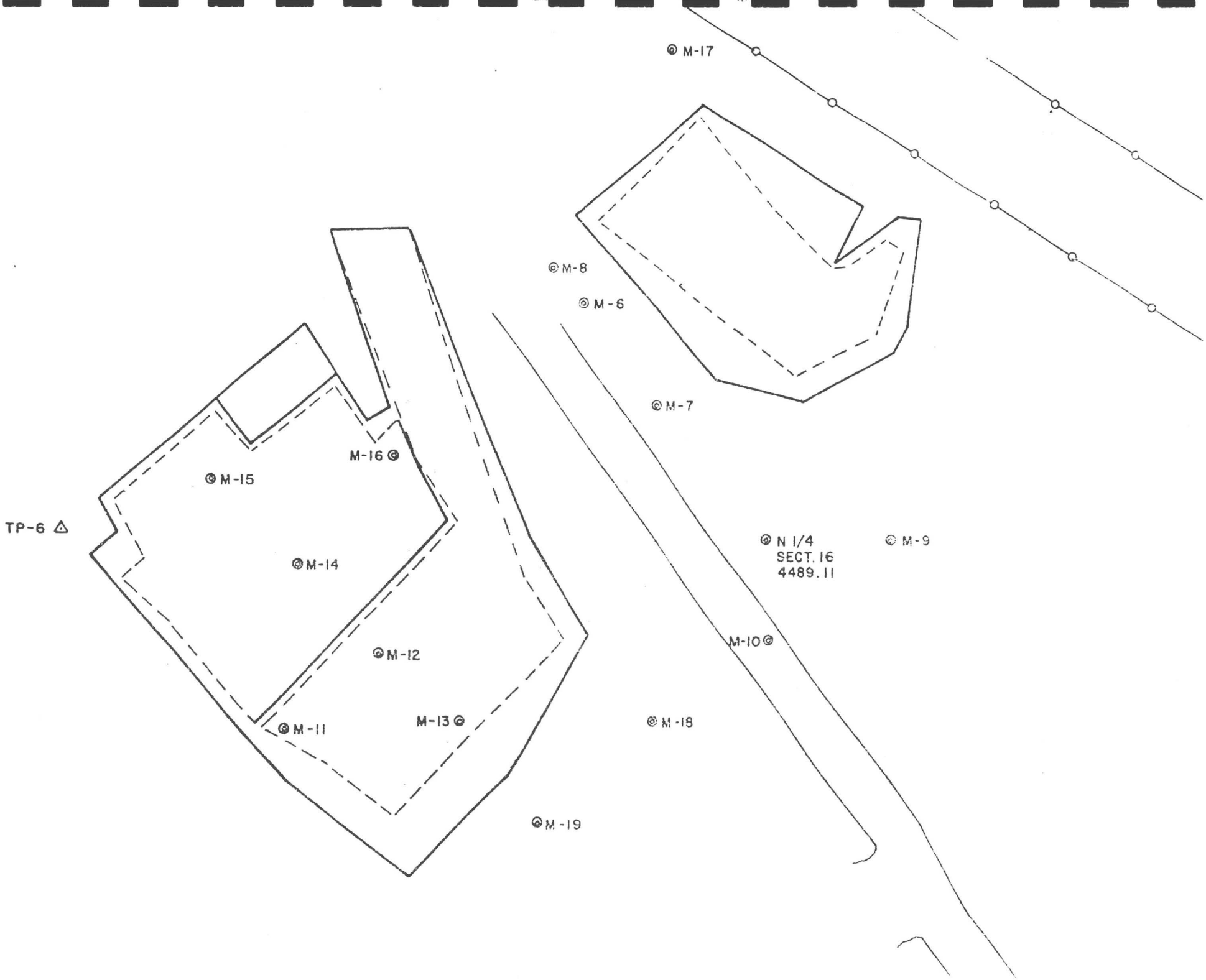
Triple X Vein No. 2

SECTION		ORE				WASTE	
Number	Distance Between	Square Feet	Ave. Oz/Ton	Grade Ag	Tons	Square Feet	Tons
Ramp		0	–				
	80 ft.						[illegible]
		470	1.74			1480	
	25 ft.		1.74		870		2740
T-0002		470	1.74			1480	
	50 ft.		2.06		1610		5720
T-0102		400	2.43			1610	
	10 ft.		2.43		300		1190
Totals			2.00		2780		15430
W/20% Dilution			1.67		3330		14880
Strip Ratio						4.5:1	


518400E
8500E
8600E
ROAD
85.1
T-1
95.5
93.5
83.3
COLLAR
DECLINE
87.4
T-3
89.0
T-8
93.7
TP-25
4541.44
86.8
85.5
74.9
76.0
74.6
TP-26
4586.85
GOB
PIT
TRENCH
TRIPLE X
99.5
98.6
03.8
62.0
64.4
68.3
02.7
74.0
78.6
78.2
77.4
4619.1
99.1
04.4
03.3
93.1
4594.7
4592.9
14.5
69.2
70.5
66.0
68.4
89.2
91.5
85.1
82.2
81.8
T-9
75.0
SHOP
BUILDING
T-8
T-7
76.0
4574.9
T-6
74.9
T-5
T-4
N

Merrimac Vein

[illegible]	120	6	–		[illegible]	[illegible]
[illegible]	30	25	2.63 3.05	[illegible]	[illegible]	1130
[illegible]	30	575	3.90 3.90	1380	225	2725
[illegible]	60	575	3.90 3.89	1170	225	[illegible]
[illegible]	20	155	3.85 3.85	230	655	
		155	3.85		[illegible]	1415
[illegible]			3.73	3200		12950
[illegible] Diagram			3.11	3960		13290
Strip Ratio					3.4:1	


M-17
M-8
M-6
M-7
M-16
M-15
TP-6
M-14
N 1/4
SECT. 16
4489.11
M-9
M-10
M-12
M-11
M-13
M-18
M-19

Tombstone Silver Mines Inc.

Tombstone:
P.O. Box 715
Tombstone, Az 85638

Scottsdale:
8238 E. Indian School Rd.
Scottsdale, Az 85251

Corporate & Administration:
P.O. Box 11509
650 W. Georgia St.
Vancouver, V.C. Canada V 6B 4N7

2-13-85

MERRIMAC PIT NO. 1

A small pit is being developed on a vein in the area of the old Bishop mine. The vein and the pit are oriented N50°E along the vein strike (see attached plan and sections). Sample drill holes and sample trenches outline an orebody of about 5,000 tons of 2.0 oz. Ag/ton, to a 50 ft. vertical depth.

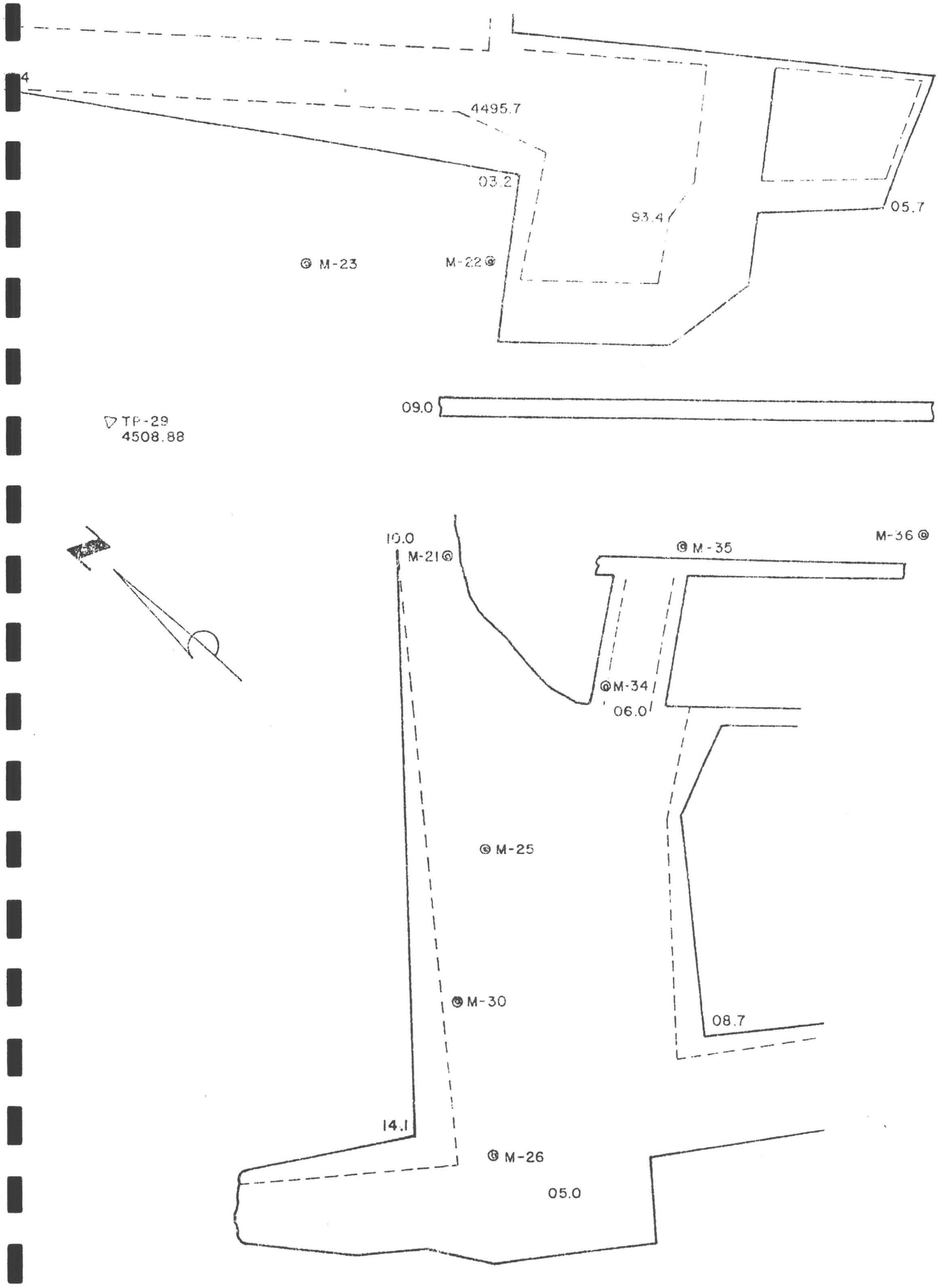
Ore from the pit is the footwall of the vein and the other wall has 0.5 to 1 slopes with five foot benches every 20 feet vertical. The overall slope of this wall is 0.8 to 1.

To the end of day shift 2-12-85, the calculated volume of the first pit dug is 2360 tons. The pit being dug presently is 1590 tons. These figures do not include a few feet of unconsolidated material that has been stipped from the surface between the two pits.

Using a 10 ft. depth, the material remaining between the blue stake line and the footwall of the ore and from the south pit wall to section M-2136 is 770 tons of ore estimated to be 2.0 oz per ton silver and 3510 tons of waste which is a 4.6:1 strip ratio.

Respectfully submitted,

Arthur J. Graves


4
4495.7
03.2
93.4
05.7
M-23
M-22
09.0
TP-29
4508.88
10.0
M-21
M-35
M-36
M-34
06.0
M-25
M-30
08.7
14.1
M-26
05.0

COMPOSITE PAD AVERAGES (Ag)

Pit 1	1.98
Pit 2	1.29
Pit 3	0.58
Pit 4	1.16
Pit 5	1.00
Pit 6	0.93
Pit 7	1.85
Pit 8	0.77
Pit 9	1.07
average =	1.18

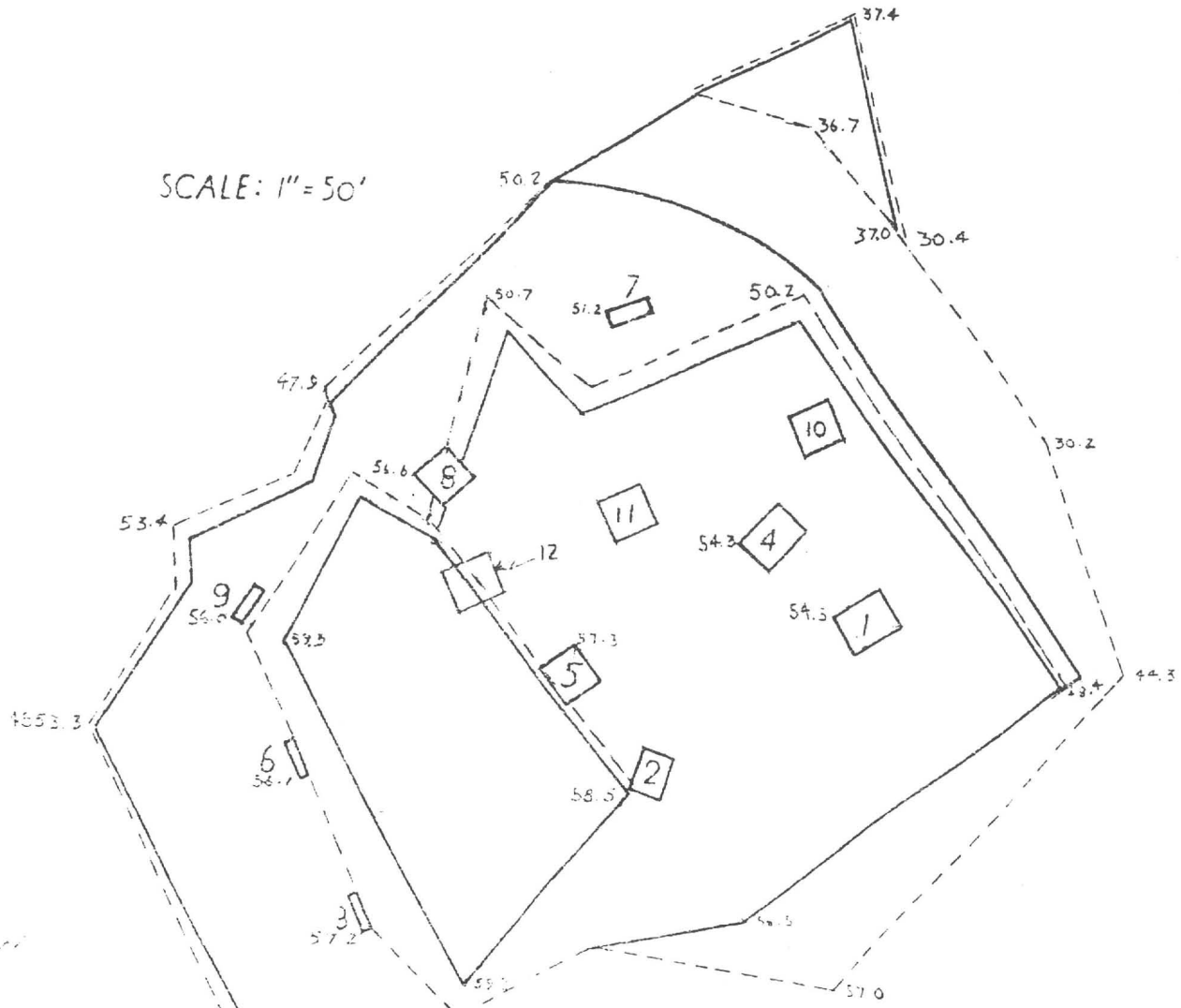
LEGEND:

- - - - - - TOE

——— CREST

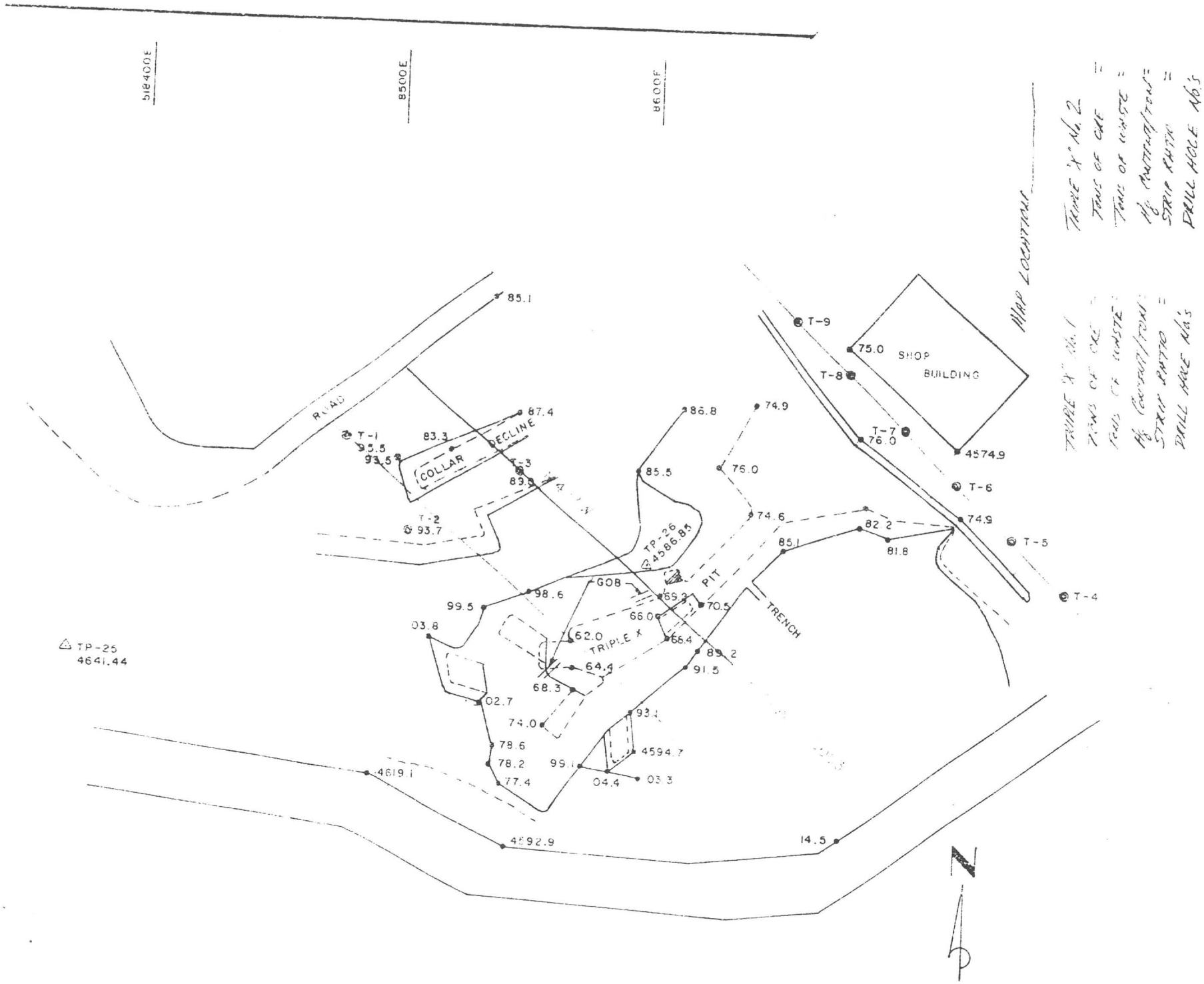
[8] PIT

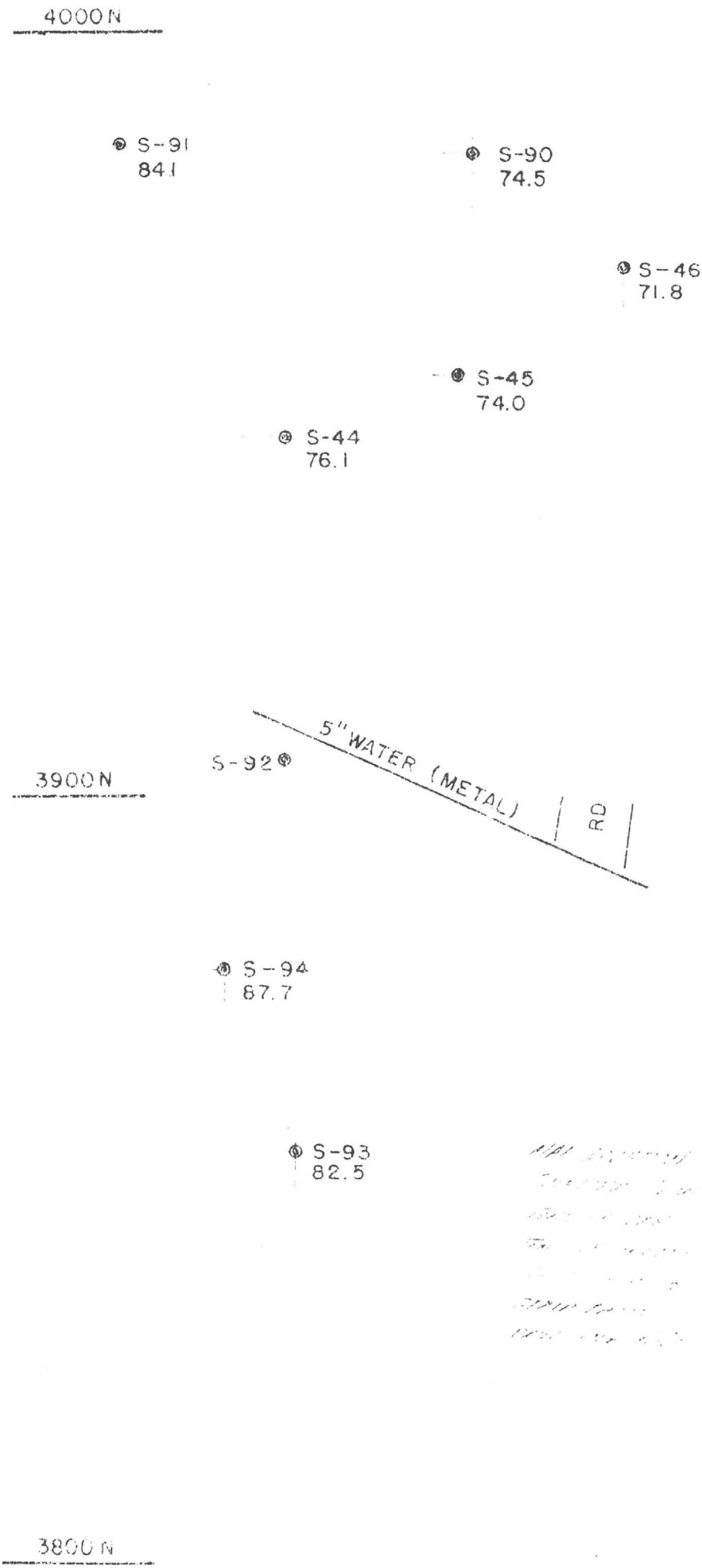
SCALE: 1" = 50'

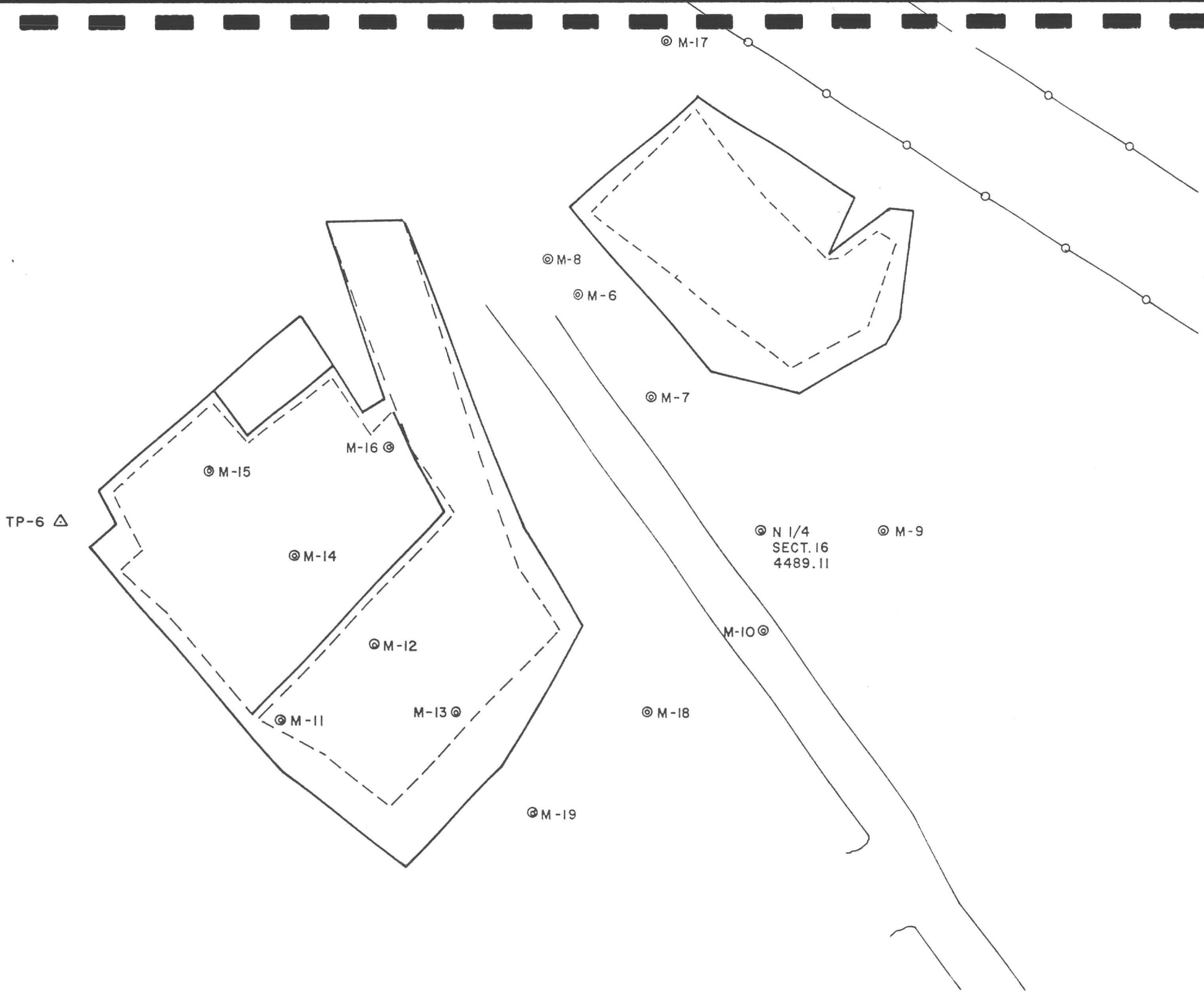


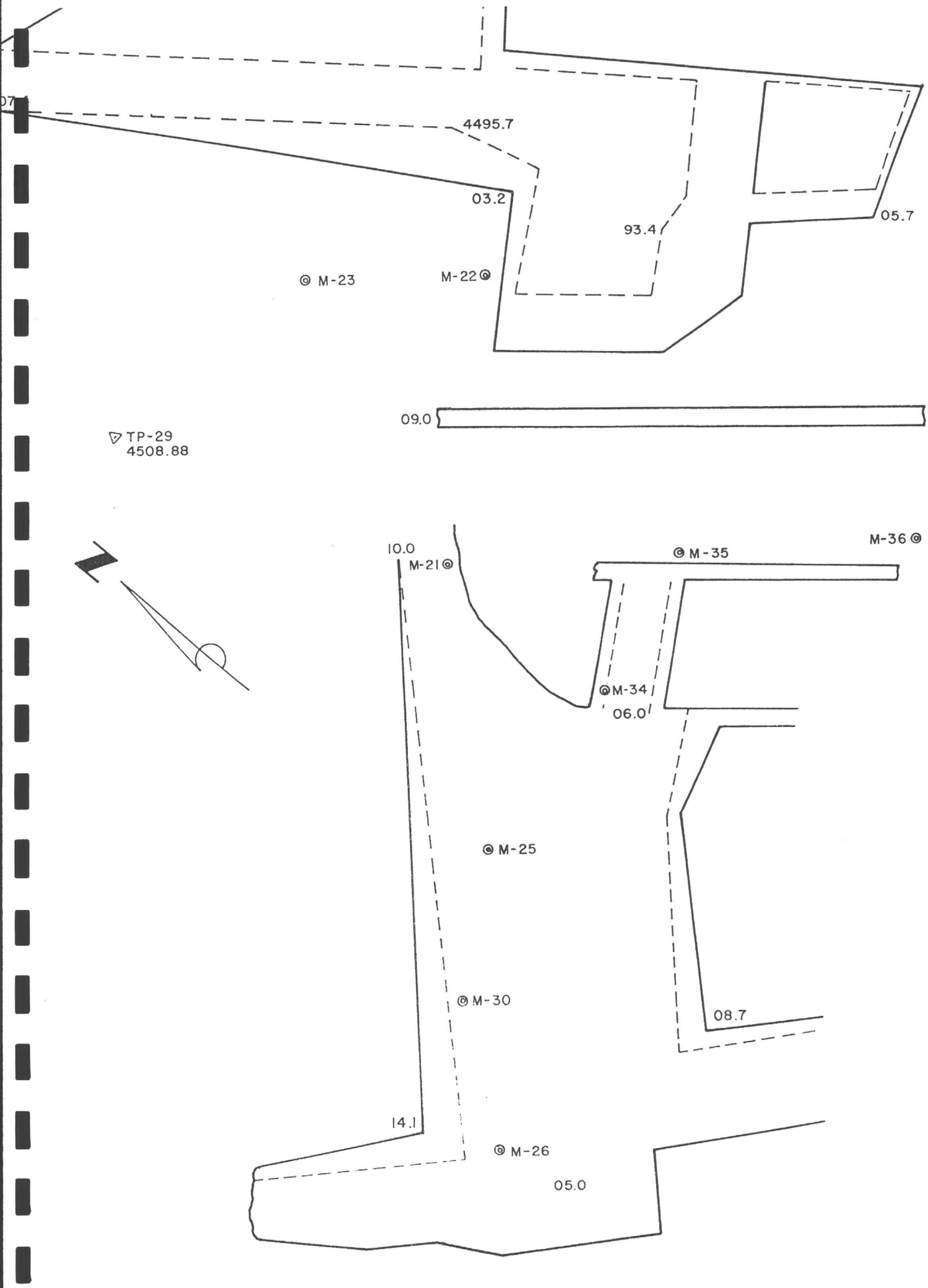
N

C 1POSITE PAD
TSM AT


8400E
8500E
8600E
ROAD
COLLAR
DECLINE
T-1
T-2
T-3
T-4
T-5
T-6
T-7
T-8
T-9
TP-26
4586.85
TP-25
4641.44
GOB
PIT
TRENCH
TRIPLE X
SHOP
BUILDING
4574.9
4594.7
4619.1
4592.9
14.5
85.1
87.4
83.3
93.5
93.5
83.3
93.7
86.8
74.9
85.5
75.0
74.6
82.2
81.8
85.1
74.9
75.0
76.0
99.5
98.6
03.8
62.0
64.4
68.3
66.0
66.4
70.5
89.2
91.5
02.7
74.0
78.6
78.2
77.4
99.1
04.4
03.3
93.1
MAP LOCATION
TRIPLE 'X' No. 2
TONS OF ORE =
TONS OF WASTE =
% MOVEMENT/TONS =
STRIP RATIO =
DRILL HOLE No's
TRIPLE 'X' No. 1
TONS OF ORE =
TONS OF WASTE =
% MOVEMENT/TONS =
STRIP RATIO =
DRILL HOLE No's


4000N
S-91
84.1
S-90
74.5
S-46
71.8
S-45
74.0
S-44
76.1
5" WATER (METAL)
RD
S-92
3900N
S-94
87.7
S-93
82.5
3800N


M-17
M-8
M-6
M-7
M-16
M-15
TP-6
M-14
N 1/4
SECT. 16
4489.11
M-9
M-10
M-12
M-11
M-13
M-18
M-19


4495.7
03.2
93.4
05.7
M-23
M-22
09.0
TP-29
4508.88
10.0
M-21
M-35
M-36
M-34
06.0
M-25
M-30
08.7
14.1
M-26
05.0

STATE OF MAINE
ORL RESERVE REPORT

PURPOSE

Tombstone Silver Mines, Inc., has conducted exploration and a percussion drilling program, starting in June, 1984, to the present, to outline silver ore reserves in the State of Maine area. The current plan is to summarize the known reserves by this report, and then to continue exploration and drilling to add to the reserves while silver production is in progress.

Tombstone Silver Mines, Inc., has commissioned me, through my company, Cochise Mining Company, to direct and report on exploration and drilling programs starting in June, 1984, and continuing to the present.

INTRODUCTION

In June, 1984, this author reviewed and reported to Tombstone Silver Mines, Inc., on the geology and silver production potential together with recommendation's for outlining reserves in the area covered by this report (see attached references).

Since the June report, an engineering and geology program has been implemented and a sample drilling program has been in progress on the mineral lands owned or leased by Tombstone Silver Mines, Inc. in the western part of the Tombstone Mining District (figure 4).

The geology in this report is partly an abstract of papers by various authors on the subject of geology of the Tombstone District and from personal experience in the district. Four published reports are mentioned in the reference. These reports in turn mention, many sources of detailed information concerning the subject. The geology map of the district (figure 3) by James A. Briscoe for Tombstone Development Company is included with his permission.

LOCATION AND HISTORY

The Tombstone Mining District is located in Cochise County, Arizona, about 70 miles southeast of Tucson by highway (figures 1 and 2). The hills in the district vary from 4500 ft. to 5300 ft. in elevation. The climate is semiarid with a mean annual temperature of 63 degress F and an annual precipitation of about 14.5 inches. Outdoor work is seldom curtailed due to inclement weather.

The known precious and base metal production was and is from mines in an area that extends two miles south of and three miles west of the town of Tombstone. From 1879 to 1970 the district produced about 30 million ounces of silver, 240,000 ounces of gold, 45 million pounds of lead, and 3 million pounds of copper. Also, about 9,000 tons of manganese was produces, mostly as a war effort during the 1940's.

About 50% of the precious metal production was prior to 1890. Only about 20% of the total production was below the water table.

Since 1970, about 2,000,000 ounces of silver and about 10,000 ounces of gold have been produced by cyanide leaching of oxide ores. The ore was produced mostly by open cut mining with the remainder from mine dumps.

The mines in the western part of the district, including the State of Maine, have produced about 80,000 ounces of silver and about 600 ounces of gold since 1970. About 80% of this production was from mine dump material.

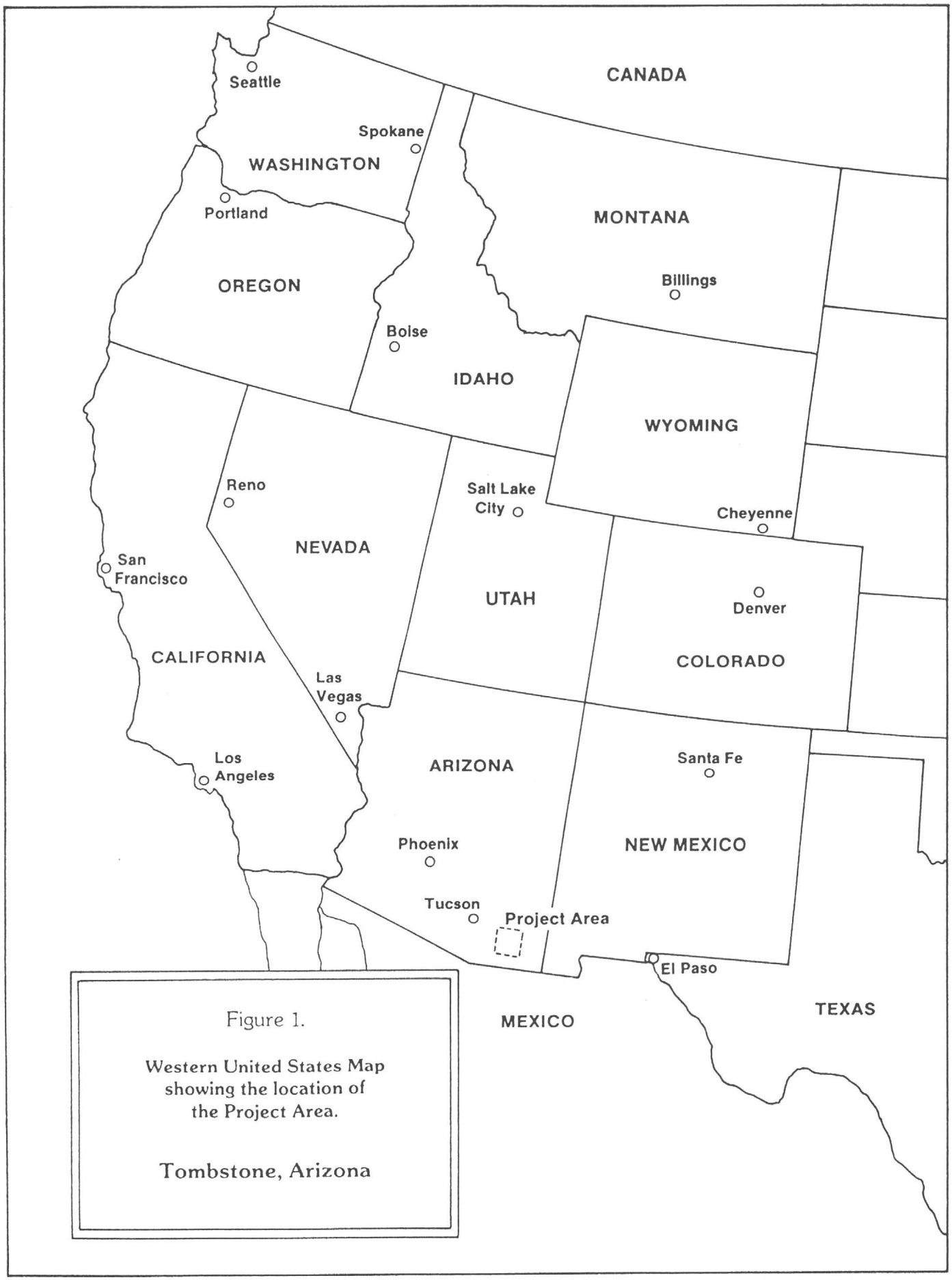


Figure 1.

Western United States Map showing the location of the Project Area.

Tombstone, Arizona

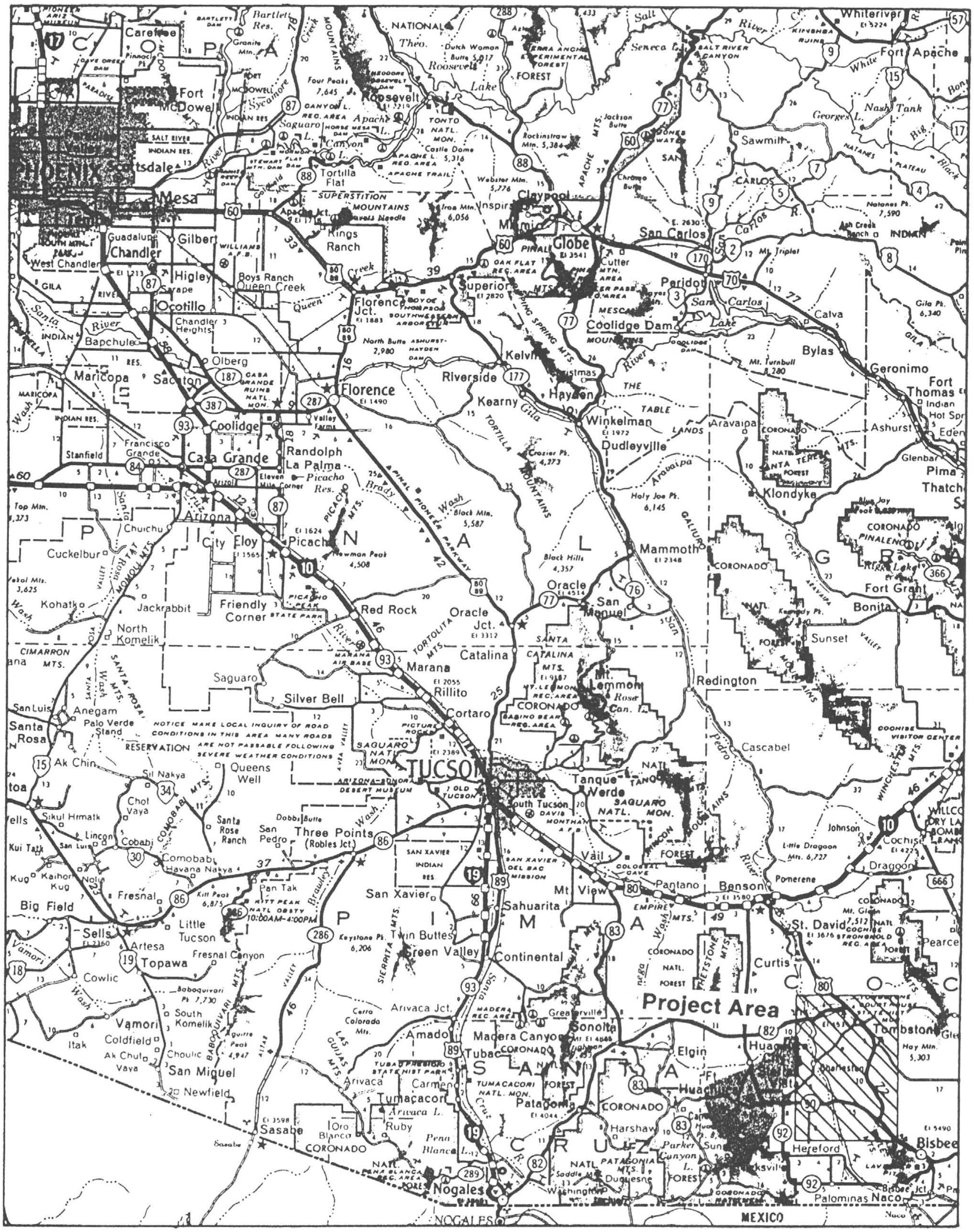


Figure 2. Highway map showing the location of the Project Area in relation to Tucson and Phoenix, Arizona

GEOLOGY

The Tombstone District is divided geologically into two areas. The eastern area is predominantely Paleozoic and Mesozoic sediments with minor small intrusive masses and dikes. The western area, the area of interest for this study, is mostly intrusive and extrusive igneous rocks of Mesozoic and Tertiary age with remmants of Mesozoic sediments. (figure 3).

Rock Types

The Pre-Cambrian Pinal schist and an intrusive granite are overlaid by about 7000 feet of Paleozoic limestones, quartzites, and minor shales.

The Cretaceous Bisbee group is slightly more than 3000 ft. maximum thickness in the Tombstone hills. This group is predominantly shales and sandstones with a few thin beds of limestone.

In the western most area of the district, near the San Pedro River, the Bronco volcanic series, a lower andesite and an upper rhyolite overlay and intrude the Bisbee group.

An andesite porphyry plug and related dikes intrude the Bronco volcanics. In the western part of the district there are two extensive exposures of late Cretaceous igneous rocks. These units are the Schieffelin grandiorite and the closely related but slightly younger Uncle Sam quartz latite porphyry. The Uncle Sam is referred to as a tuff by some authors and there is evidence that it is extrusive with a maximum thickness of a few hundred feet.

Three other igneous rock types have been recognized in the Tombstone District. They are late Cretaceous granophyre, rhyodacite, and hornblende andesite, all very limted in lateral extent.

The only Tertiary unit that has been indentified is rhyolite porphyry in the southern portion of the district. The Quaternary units are the Gila conglomerate and the recent gravels and alluvial deposits. A small basalt dome intrudes the recent sediments near Walnut Gulch, northeast of Tombstone.

Structure

The Tombstone District is in the southern part of the Basin and Range Province. The oldest structures are the east-west Prompter-Horquilla fault system with dips at 60 to 80 degrees south. These structures pre-date Cretaceous time but have moved just before extrusion of the Uncle Sam and again in tertiary time, probably just after the rhyolite porphyry intrusive.

Following the deposition of the Bisbee Group in early Cretaceous, the district was subjected to compressive forces in a northeast-southwest direction. The compression resulted in folding and faulting of the Paleozoic and Mesozoic sediments.

Next, the Ajax north-south to north 15 degrees east were developed with dips usually steeply to the west. Andesite porphyry dikes intruded these faults during early Cretaceous.

Northeast fissures developed in late Cretaceous, after the Schieffelin granodiorite intrusive and the Uncle Sam extrusive. Some of these fissures are occupied by hornbelnde andesite dikes.

There are two late, post, mineralization fault systems. One is north 20 degrees west and dips 60 to 70 degrees to the west and appears to be prevalent in the large igneous rock outcrops. The other is north 50 degrees west dipping about 50 degrees west, and is prevalant in the sediments. These two systems may have developed at the same time.

Mineralization

Mineralization in the district occured after the hornblende andesite dikes were intruded along the northeast fissures near the end of the Mesozoic Era. The dikes and host rocks along the fissures were strongly altered. It is apparent that the northeast fissures were one of the main channels for mineralization.

DRILLING PROGRAM

General

Three areas were sample drilled for precious metal values on the mineral lands of Tombstone Silver Mines, Inc., between August 15, 1984 to the present. The drilling program up to November 30, 1984, will be included in this report.

A total of 170 holes were drilled with a maximum depth of 120 feet for a total footage of 10,159. The first 7317 feet was drilled with a $4\frac{1}{2}$ inch button bit and the remainder was drilled with a $4\frac{1}{2}$ inch bit which is still in use.

The drill is on Atlas Copco ROC-601 air track with a COP-42 down-the-hole hammer on three inch drill pipe and a DRH-700 air compressor. A vacuum dust collector collects all the material from the drill hole. The samples are collected at five foot intervals maximum and are about 100 lbs. The sample splitter located at the drill site produces a sample that is about five lbs. for laboratory analysis.

The three areas drilled were the unpatented Horne claims, the State mineral lease in the south $\frac{1}{2}$ of section 16, and the state of Maine, Merrimac, Triple X, and Clipper patented claims.

Six sample holes were drilled across a northeast fractured and altered zone on the Horne No.112 claim for a total of 492 feet. The highest silver value was 0.06 oz/ton on one sample.

Another area drilled was the state prospecting permit in the south $\frac{1}{2}$ of section 16 where 17 holes totaling 1109 feet were drilled. This work was performed to gain information concerning silver mineralization along northeast zones and to satisfy the annual work obligation required to hold the state prospecting permit.

One surface sample in the area of drill hole SV-1 contains 1.16 oz/ton of silver over a three foot interval. None of the holes contained more than 0.25 oz/ton Ag except the following:

The strongest mineralization in the district is where the northeast fissures intersect north-south dikes (fissures), anticlines and rolls on the flanks of anticlines, and other faults.

There are only a few local occurences of primary hypogene minerals above the water table. The typical hypogene minerals produced from below the water table were quartz, pyrite, argentiferous galena and tetrahedrite, hessite, spalerite, chalcopyrite, and altaite.

The significant ore bearing minerals in the oxidizes above the water table are anglesite, cerussite, smithsonite, hemimorphite, covellite, malachite, silver halide minerals, predominantly bromyrite, with minor cerargyrite, embolite, argentite, and native silver. The silver to gold ratio is about 200:1.

The water table in the western part of the district is about 200 ft. below the surface.

MINERALS LANDS

Tombstone Silver Mines, Inc. has the following mineral lands (figure 4) by ownership or under lease:

1.	The Escapule patented mining claims including the State of Maine, Lowell, Brother Johnathan, Triple X, Merrimac, Clipper, May and Red Top	145.93 acres
2.	State prospecting permit No. 08-84591 in the south $\frac{1}{2}$ section 16.	220.79 acres
3.	State mineral leases Nos. 11-23058, 11-23057, 11-23056, 11-23055, in the north $\frac{1}{2}$, southeast $\frac{1}{4}$, section 16.	68.06 acres
4.	Horne unpatented lode claims Nos. 110 thru 117.	165.28 acres
	TOTAL	600.06 acres

Negotiations are under way between the owner of the Franklin unpatented claim and the company.

RECOMMENDATIONS

1. A few thousand tons of the uncrushed stockpile should be processed and additional samples be taken from the newly exposed material.

2. Sample drilling should continue during the above pilot test.

3. The base mapping and ore control plans and sections should continue to include the areas being drilled. The geology in the possible production areas should be plotted.

4. The limits of the open cut to start mining should be identified in the field in mining commence at the discretion of management.

5. The Randolph vein on the state mineral lease should be valuated by a study of work performed by previous leasors, and by mapping and sample drilling. The information gathered by a previous leasor is available. A week lead time to valuate previous work and to survey will be necessary.

6. The Horne claims need about 15 drill holes along the northeast mineralized structure.

7. The annual work commitment to keep the state prospecting permit (or permits) will serve to explore the veins on these properties for ore grade values and tonnages.

8. Production and exploration scheduling will clarify the chronological order of Nos. 5, 6, and 7, above.

Respectfully submitted,

Arthur J. Graves

Hole No.	Interval ft.	Ag oz.	Au oz.
SV-10	0-5	2.70	0.005
	5-10	2.92	0.003
	10-15	1.20	0.003
	15-20	0.48	0.005
SV-16	0-5	0.68	0.012
	5-10	0.48	0.008
	30-35	0.32	0.004
SV-17	0-5	0.44	0.008
	10-15	0.72	0.016
	15-20	4.72	0.016
	20-25	2.24	0.020
	35-40	3.20	0.012

Drill holes SV-10, 16, and 17 are located near the southeast corner of section 16.

Patented Claim Area

Four veins were drilled on the patented claims, each named for the claim name. Generally, the holes cross the veins on 25 foot centers normal to the vein (figures 5 and 6).

First, the 16 holes for a total of 1038 feet of hole was drilled on the Clipper vein, in 25 foot intervals along the vein. The following values were intersected in the vein by the indicated drill holes and one surface sample:

Sample No.	Interval	Oz/ton Ag
DH C-1	10-15	1.68
	15-20	1.44
	70-75	1.20
DH C-9	0-5	1.48
	35-40	5.28
Pit No. 2	0-5	2.12

Drilling was stopped in the Clipper area after a heavy rain saturated the brecciated vein which is located in a topographic low. Addittion drilling is planned when the area drains. No reserves are reported for the Clipper area.

The Merrimac vein is exposed for about 180 feet strike length at the northeast end of the claim. The outcrop is terminated at the south end by a major fault and at the north end by the claim end line which is also the property boundry. There is no doubt that the vein continues onto the property held by Cobb Resources of New Mexico. Ten holes totalling 365 feet were drilled in this area. The resulting reserves are reported in the reserve calculation.

The Triple-X vein was tested with 26 holes totaling 1714 feet. Three holes were drilled to intersect the vein down dip from the open pit which exposes the vein (figure 5). Next, the vein was followed to the northeast on erratic hole spacing. The reserve is reported and the attached cross-sections illustrate the drill hole intersections.

The largest drill footage was in the State of Maine vein area (figure 6) about 900 feet of the vein was drilled on 25 foot centers with 98 drill holes totaling 5477 feet. The holes were located to sample the veins at 25 foot intervals (cross section spacing) along the strike.

The strike of the State of Maine vein is N25E. This vein is offset by a N50E vein near the shaft and the decline. There is also a N70E vein about 150 feet north of the shaft and an isolated N50E vein about 750 feet northeast from the shaft on section S-4445.

The State of Maine vein continues to the north across the fence which is also the north end of the claim. The adjacent property is a state prospecting permit held under lease by the company known as Interstrat.

The attached cross sections illustrate the drill holes intersecting the veins and the planned open cut design. This design may change to include more ore tonnage with additional drilling which will give a more precise location, and grade to the cross veins. The open cut designs will interact with each other to make the most economical access from one area to the next and to eliminate some access ramps.

This type of open cut design will utilize a low strip ratio to produce the precious metals at the desired profit margin.

ORE RESERVE CALCULATIONS

State of Maine Shaft Area

SECTION Number	Distance Between	ORE Square Feet	Ave. Grade Oz/Ton Ag	Tons	WASTE Square Feet	Tons
Ramp		0	-	-	0	7730
	130 ft.					
S-5762		156	0.54		1815	
	12.5 ft.		1.08	420		1640
S-5861		750	1.61		1730	
	25 ft.		2.12	2230		4320
S-5960		1665	2.63		2920	
	20 ft.		2.66	3720		3590
S-7671		3360	2.70		1925	
	27 ft.		3.56	4530		4930
S-7767		1170	4.40		3005	
	23 ft.		3.00	2070		6590
S-7868		1260	1.59		4732	
Totals			2.88	12,970		28,800
W/20% Dilution			2.40	15,560		26,210
Strip Ratio					1.7:1	

State of Maine 70N Vein

Ramp		0	-		0	-
	120 ft.	-	-	-		15,980
S-5152		585	3.15		3010	
	40 ft.		3.15	1730		8920
Totals			3.15	1730		24,900
W/20% Dilution			2.62	2080		24,550
Strip Ratio					11.8:1	

State of Maine No. 2

SECTION		ORE			WASTE	
Number	Distance Between	Square Feet	Ave. Grade Oz/Ton	Ag	Square Feet	Tons
Ramp		0	-	-	0	
	150 ft.		1.96	170		5670
S-0001		380	1.96		1020	
	12.5 ft.		2.25	290		1150
Face		240	2.53		1460	
	12.5 ft.		5.40	180		1540
S-1820		145	8.26		1860	
Totals			3.06	640		8360
W/20% Dilution			2.54	770		8230
Strip Ratio					10.7:1	
	12.5 ft.		11.67	580		2560
S-2115		630	23.25		2760	
	25 ft.		10.22	1550		4660
S-2216		1040	2.33		2270	
	12.5 ft.		2.33	960		2100
Totals			8.04	3090		9320
W/20% Dilution			6.70	3710		8700
Strip Ratio					2.4:1	

State of Maine 50N Vein

SECTION		ORE				WASTE	
Number	Distance Between	Square Feet	Ave. Oz/Ton	Grade Ag	Tons	Square Feet	Tons
Ramp		0	-		0		
	40 ft.						
			-	-			1200
S-7671		20	2.84			60	
	30 ft.		2.72		195		460
S-7767		155	2.70			350	
	100 ft.		2.86		940		3700
S-8187		100	3.10			650	
	25 ft.		2.52		300		2250
S-8288		225	2.26			1780	
	95		4.23		1770		10,380
S-0086		280	5.81			1170	
Totals			3.58		3205		17,990
W/20% Dilution			2.98		3850		17,345
Strip Ratio						4.5:1	

Ore Reserve Summary

	ORE Tons	ORE Grade oz/ton Ag	WASTE Tons	Strip Ratio
State of Maine Shaft	15,560	2.40	26,210	1.7:1
State of Maine Shaft 70N Vein	2080	2.62	24,550	11.8:1
State of Maine Shaft 50N Vein	3850	2.98	17,345	4.5:1
State of Maine Vein No.2	3710	6.70	8,700	2.4:1
Smelter Vein	1110	2.91	7,120	6.4:1
Triple X Vein No. 1	1990	1.33	9,150	4.6:1
Triple X Vein No.2	3330	1.67	14,880	4.5:1
Merrimac Vein	3960	3.11	13,290	3.4:1
Totals	35,590		121,245	3.4:1
Weighted Average		2.89		

The 70N vein design resulted in an excessive strip ratio. Additional drilling may change the tonnage and grade to allow a new design to reduce the strip ratio.

The Triple X No.1 is not a high enough grade to be classed as mineable ore. The reason this tonnage and grade is included is that it is also an access ramp for Triple X No.2.

Excluding these two areas would reduce to total tonnage by 11.4%.

Smelter Vein

SECTION		ORE			WASTE	
Number	Distance Between	Square Feet	Ave. Grade Oz/Ton Ag	Tons	Square Feet	Tons
Ramp		0	-		1190	
	120 ft.			-		5290
S-0045		470	4.52		720	
	23 ft.		3.81	650		1290
S-4490		300	2.70		780	
	12.5 ft.		2.70	280		720
Totals			3.48	930		7300
W/20%Dilution			2.91	1110		7120
Strip Ratio					6.4:1	

Triple X Vein No.1

Ramp		0	-		1505	
	80 ft.				-	4460
		375	1.60		1130	
	30 ft.		1.60	830		2510
T-0409		375	1.60		1130	
	30 ft.		1.60	830		2510
		375	1.60		1130	
			1.60			
Totals			1.60	1660		9480
W/20% Dilution			1.33	1990		9150
Strip Ratio					4.6:1	

Triple X Vein No. 2

SECTION Number	SECTION Distance Between	ORE Square Feet	ORE Ave. Oz/Ton	ORE Grade Ag	ORE Tons	WASTE Square Feet	WASTE Tons
Ramp		0	-			-	
	80 ft.						5780
		470	1.74			1480	
	25 ft.		1.74		870		2740
T-0003		470	1.74			1480	
	50 ft.		2.06		1610		5720
T-0102		400	2.43			1610	
	10 ft.		2.43		300		1190
Totals			2.00		2780		15430
W/20% Dilution			1.67		3330		14880
Strip Ratio						4.5:1	

Merrimac Vein

Ramp		0	-			1110	
	120			-			4930
Fence		95	2.65			295	
	30		3.65		520		1140
Road		375	3.90			735	
	50		3.90		1380		2720
Road		375	3.90			735	
	60		3.89		1170		3750
Shaft		155	3.85			955	
	20		3.85		230		
		155	3.85			955	1410
Totals			3.73		3300		13950
W/20% Dilution			3.11		3960		13290
Strip Ratio						3.4:1	

CONCLUSIONS

The reserve calculations include conservative tonnage and grade figures. The total of 35,590 tons of 2.89 oz/ton silver is in an indicated catagory. The indicated reserve of tonnage and grade is computed partly from specific measurements, samples, and production data and partly from projection for a reasonable distance on the basis of geologic evidence.

An estimated 121,245 tons of waste must be moved which gives a strip ratio of waste ore of 3.4:1.

These figures can be adjusted to fit economic parameters by mining the most desireable areas to accomplish a given production schedule.

Two stockpiles of mined ore are at the crusher site. One pile is uncrushed ore which has been leached and contained about 35,000 tons of 4.85 oz/ton silver before 40% was extracted. The other pile contain's 2200 tons of 3.05 oz/ton silver. Both of these reserve piles can be processed or they can be used to blend with mined ore.

RECOMMENDATIONS

1. A few thousand tons of the uncrushed stockpile should be processed and additional samples be taken from the newly exposed material.

2. Sample drilling should continue during the above pilot test.

3. The base mapping and ore control plans and sections should continue to include the areas being drilled. The geology in the possible production areas should be plotted.

4. The limits of the open cut to start mining should be identified in the field in mining commence at the discretion of management.

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6. The Horne claims need about 15 drill holes along the northeast mineralized structure.

7. The annual work commitment to keep the state prospecting permit (or permits) will serve to explore the veins on these properties for ore grade values and tonnages.

8. Production and exploration scheduling will clarify the chronological order of Nos. 5, 6, and 7, above.

Respectfully submitted,

Arthur J. Graves

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4. The limits of the open cut to start mining should be taken and mining commence at the discretion of management. in the field in
5. The Randolph vein on the state mineral lease should be valuated by a study of work performed by previous leasors, and by mapping and sample drilling. The information gathered by a previous leasor is in our files. This program can start as soon as the drill is available. A week lead time to valuate previous work and to survey will be necessary.
6. The Horne claims need about 15 drill holes along the northeast mineralized structure ~~so a decision can be made whether or not the monthly payments to hold the claim should continue~~.
7. The annual work commitment to keep the state prospecting permit (or permits) will serve to explore the veins on these properties for ore grade values and tonnages.
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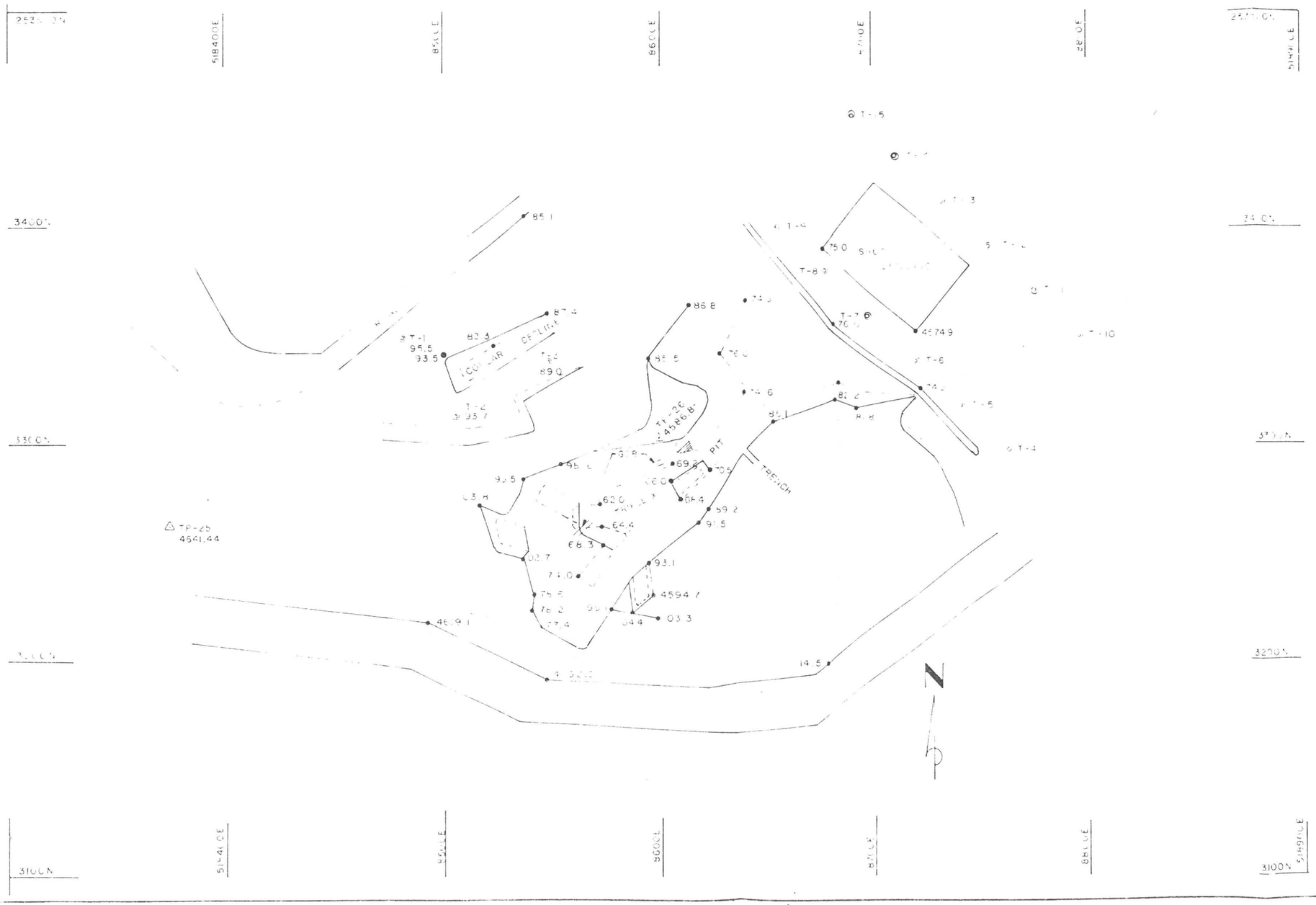

TOMBSTONE SILVER MINES, INC. COCHISE COUNTY, ARIZONA			
DRW. NO.	DRAWN BY	Tom Heying	12/84
T-840001	ENG. BY	A. J. Graves	12/84
SCALE 1" = 50'	APPROVED	C. B. Escapule	12/84

STATE OF MAINE
ORE RESERVES

EVALUATION OF PREVIOUSLY CALCULATED ORE RESERVES

by BAILEY ESCAPULE

STATE OF MAINE MINING COMPANY

TOMBSTONE, ARIZONA

for JAMES A. BRISCOE

(TOMBSTONE SILVER MINES, INC)

SEPTEMBER 27, 1985

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I. PURPOSE

The purpose of this report is to evaluate the ore reserve estimates made by Mr. A. J. Graves in his report to Tombstone Silver Mines, Inc. (T.S.M. Inc.) titled Geology, Ore Reserves, and Open Cut Mine Planning, dated December 1, 1984.

The reason for this evaluation is that one of the open cut mining areas proposed by Mr. Graves has been mined by T.S.M. Inc. Using the information gained by this mining, we can update the ore reserves and revise the mining method.

II. MINING PLAN

Mr. Grave's ore reserve estimates appear to have been based on a final pit design with the final pit slope about 1:1. From experience gained by mining one of the proposed pits (Merrimac #1 Pit), we feel we could revise the original pit design.

Fifteen foot benches can be mined using the International Harvester Excavator owned by T.S.M. Inc. Material mined "underhand" (from the next bench down) can be loaded into dump trucks that will haul the ore or waste from the pit. Access to and from the pits is by ramps at a 20% grade.

Instead of having a 1:1 final pit slope on the hanging wall, we can leave vertical walls up to 25 ft. high. Where the final pit depth is greater than 25 ft., a 5 ft. bench is made 25 ft. above the last working bench. Final pit slope on the foot wall will be the dip of the ore.

Prior to mining all material will be drilled, sampled and blasted.

With this revised mining plan a lower waste to ore stripping ratio will be attained.

III. RESULTS

*GRADE CLASSIFICATION

M = Measured	+/- <20% Accuracy
I = Indicated	+/- 20 - 30% Accuracy
I-F = Indicated-Inferred	+/- 30 - 40% Accuracy
Inf = Inferred	+/- >40% Accuracy

STATE OF MAINE #2 PIT

BENCH	TONS ORE	OZ/TON GRADE	CLASS/% ACC.	TONS WASTE	W/O RATIO
#1	1,983	1.40	I-F/35%	8,925	4.5:1
#2	2,034	2.37	I-F/25%	9,367	4.6:1
#3	2,067	2.82	I-F/35%	4,282	2.1:1
TOTAL	6,084	2.21	I-F/32%	22,574	3.7:1

SMELT ROOM PIT

BENCH	TONS ORE	OZ/TON GRADE	CLASS/% ACC.	TONS WASTE	W/O RATIO
4560	343	0.38	I-F/35%	543	1.6:1
4545	393	2.59	I-F/25%	2,182	5.6:1
4530	420	2.59	I-F/35%	1,003	2.4:1
TOTAL	1,156	1.93	I-F/32%	3,728	3.2:1

TRIPLE EX PIT OPTION "A" (includes block of inferred waste)

BENCH	TONS ORE	OZ/TON GRADE	CLASS/% ACC.	TONS WASTE	W/O RATIO
4565	2,019	1.70	I-F/35%	6,535	3.2:1
4550	3,523	0.28	I-F/35%	10,492	3.0:1
4535	3,458	1.36	I-F/35%	13,717	4.0:1
TOTAL	9,000	1.01	I-F/35%	30,744	3.4:1

TRIPLE EX PIT OPTION "B" (includes block of inferred ore)

BENCH	TONS ORE	OZ/TON GRADE	CLASS/% ACC.	TONS WASTE	W/O RATIO
4565	2,980	1.70	I-F/40%	5,574	1.9:1
6	4550	5,233	0.28	I-F/40%	8,782	1.7:1
4535	5,119	1.36	I-F/40%	12,056	2.4:1
TOTAL	13,332	1.01	I-F/40%	26,412	2.0:1

SUMMARY OF RECALCULATED RESERVES

PIT	ORE	GRADE OZ/TON	CLASS.	% ACCURACY	WASTE	W/O RATIO
ST. OF MAINE #2	6,084 TONS	2.21	I-F	32%	22,574 TONS	3.7:1
SMELT ROOM	1,156 TONS	1.93	I-F	32%	3,728 TONS	3.2:1
TRIPLE EX "A"	9,000 TONS	1.01	I-F	35%	30,744 TONS	3.4:1
TOTALS	16,240 TONS	1.53	I-F	34%	57,046 TONS	3.5:1

PIT	ORE	GRADE OZ/TON	CLASS.	% ACCURACY	WASTE	W/O RATIO
ST. OF MAINE #2	6,084 TONS	2.21	I-F	32%	22,574 TONS	3.7:1
SMELT ROOM	1,156 TONS	1.93	I-F	32%	3,728 TONS	3.2:1
TRIPLE EX "B"	13,332 TONS	1.01	I-F	40%	26,412 TONS	2.0:1
TOTALS	20,572 TONS	1.42	I-F	37%	52,714 TONS	2.6:1

A.J. GRAVES ORE RESERVE CALCULATIONS SUMMARY

PIT	ORE TONS	GRADE OZ/TON	WASTE TONS	RATIO W:O
ST. OF MAINE	21,490	2.53	68,105	6.1:1
ST. OF MAINE #2	3,710	6.70	8,700	2.4:1
SMELT ROOM	1,110	2.91	7,120	6.4:1
TRIPLE EX	5,320	1.42	24,030	4.5:1
MERRIMAC	3,960	3.11	13,290	3.4:1
TOTALS	35,590	2.69	121,245	3.4:1
LESS ST. OF MAINE	21,490		68,105	
TOTALS	14,100	2.93	53,140	3.8:1

MERRIMAC #1 PIT

	A.J. GRAVES	ACTUAL	DIFFERENCE	% DIFF.
ORE	3,960 TONS	3,926 TONS	-34 TONS	1 %
GRADE	3.11 OZ/TON	2.92 OZ/TON	-0.19%	6 %
WASTE	13,290 TONS	11,224 TONS	-2066 TONS	16 %
RATIO	3.4:1	2.9:1	-0.5:1	15 %

The State of Maine shaft area has been eliminated for open cut mining due to the probable distructuion of the main shaft and some of the old workings. After a well executed sampling program in the upper workings, some of this are may be mined with the careful preservation of the main State of Maine shaft.

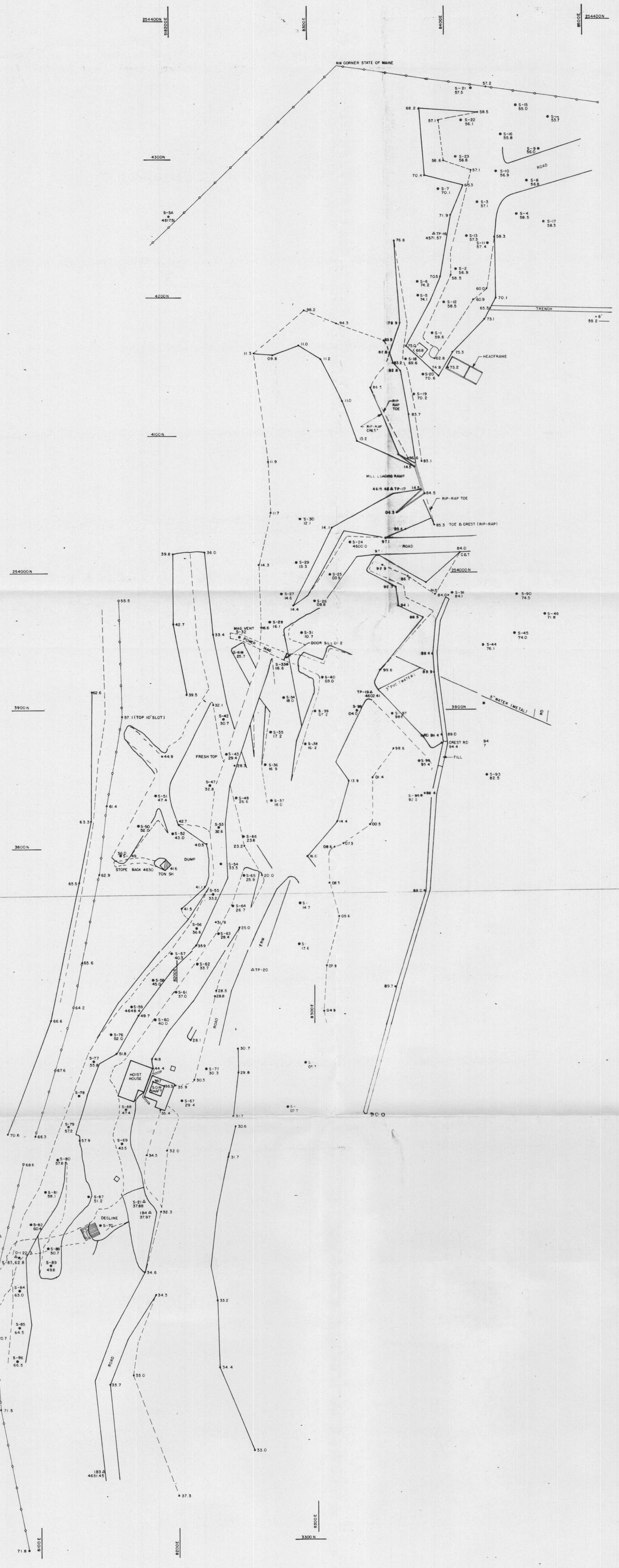
IV. RECOMMENDATIONS:

Due to the relatively small amount of ore reserves and their classification of indicated-inferred, it is recommended that further drilling be done. This drilling is needed to upgrade the ores classification to measured and also to determine if ore grade values can be extended from the currently proposed pits.

A plan has been suggested by J.A. Briscoe of drilling angle holes in a "fan" shape to intersect the veins at right angles and at different depths. This plan would include drilling an angle hole 10 ft. from the vein's hanging wall outcrop to intersect the vein at right angles. This will determine the veins true thickness. A second hole, at the same location, drilled vertically through the vein will indicate the extent of leaching of ore values from the surface. A second set of holes would be drilled 20 ft. from the vein's hanging wall outcrop. These include a vertical hole, and angle hole at -45 degrees, and an angle hole to intersect the vein at right angles. These three holes should penetrate the vein at the same location along strike, but at different locations down dip.

This series of two drilling locations perpendicular to the strike should be repeated every 20 ft. along the strike of the vein in the areas desgnated for proposed pits.

This drilling plan would give more detailed information on the widths of the veins and extent of leaching of ore values. Also, the percent accuracy in estimating the ore grade and ore reserves would be upgraded to plus or minus 20% or within a measured ore reserve classification.



TOMBSTONE SILVER MINES, INC. COCHISE COUNTY, ARIZONA			
DRW. NO. SOM-840002	DRAWN BY	Tom Heying	12/84
	ENG. BY	A.J. Graves	12/84
SCALE 1"=50'	APPROVED	C.B. Escobule	12/84