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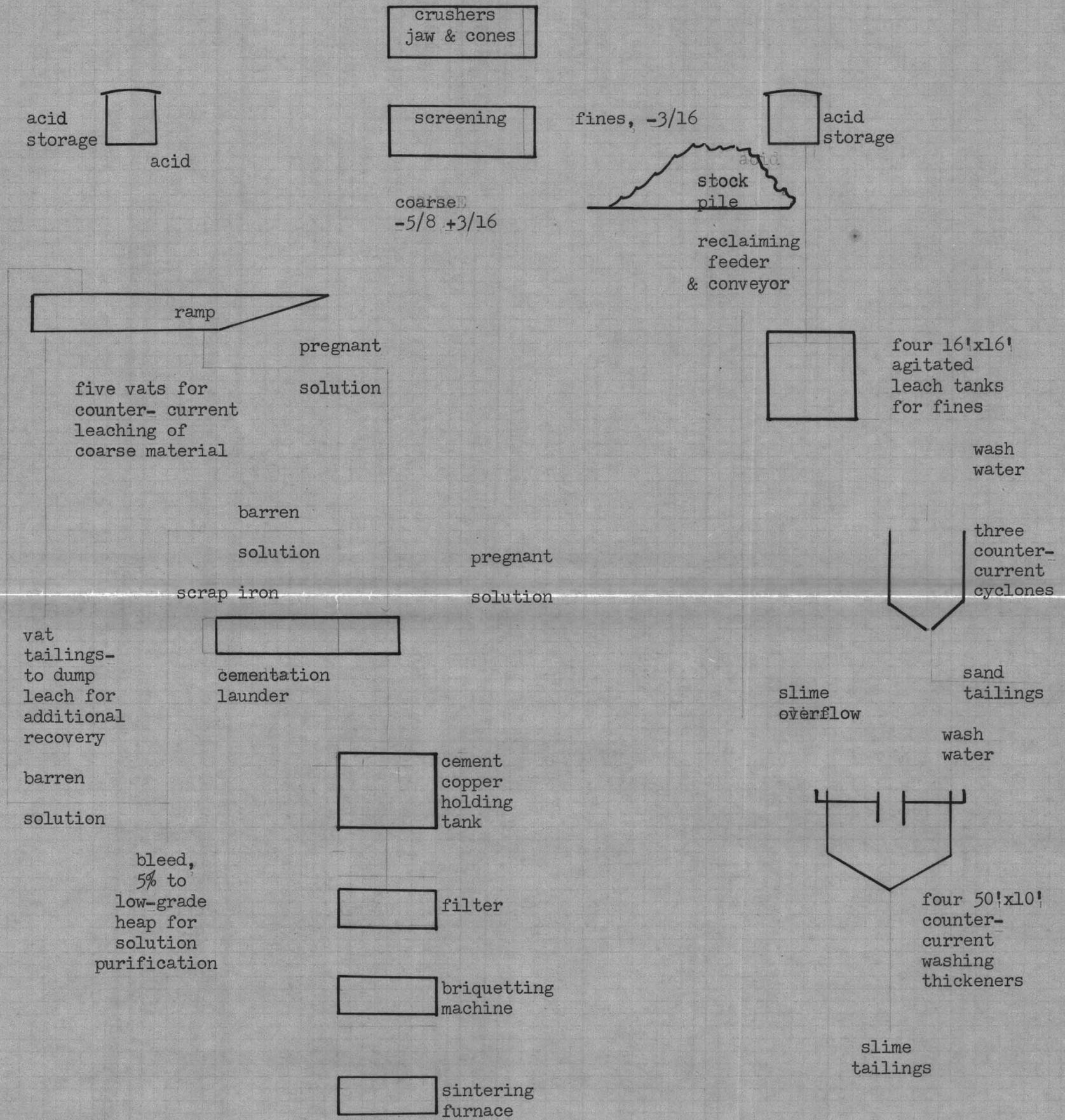
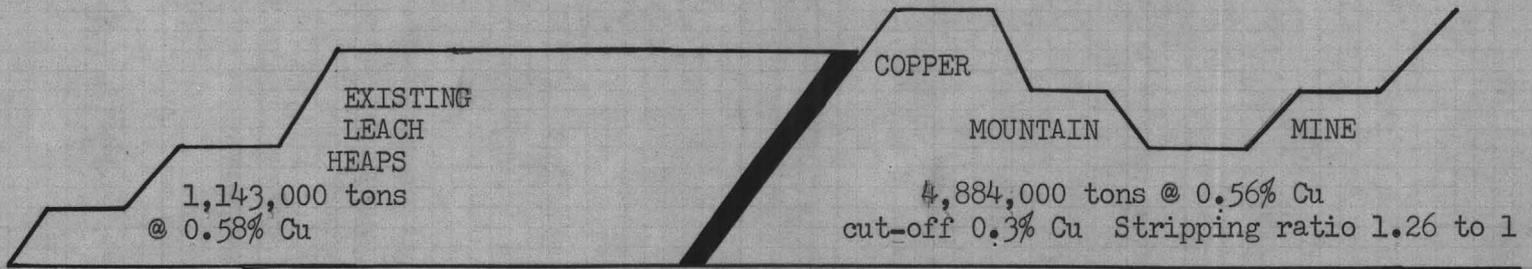
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*COPPER MOUNTAIN AREA  
EXHIBIT I-B*

Phase II

Phase III

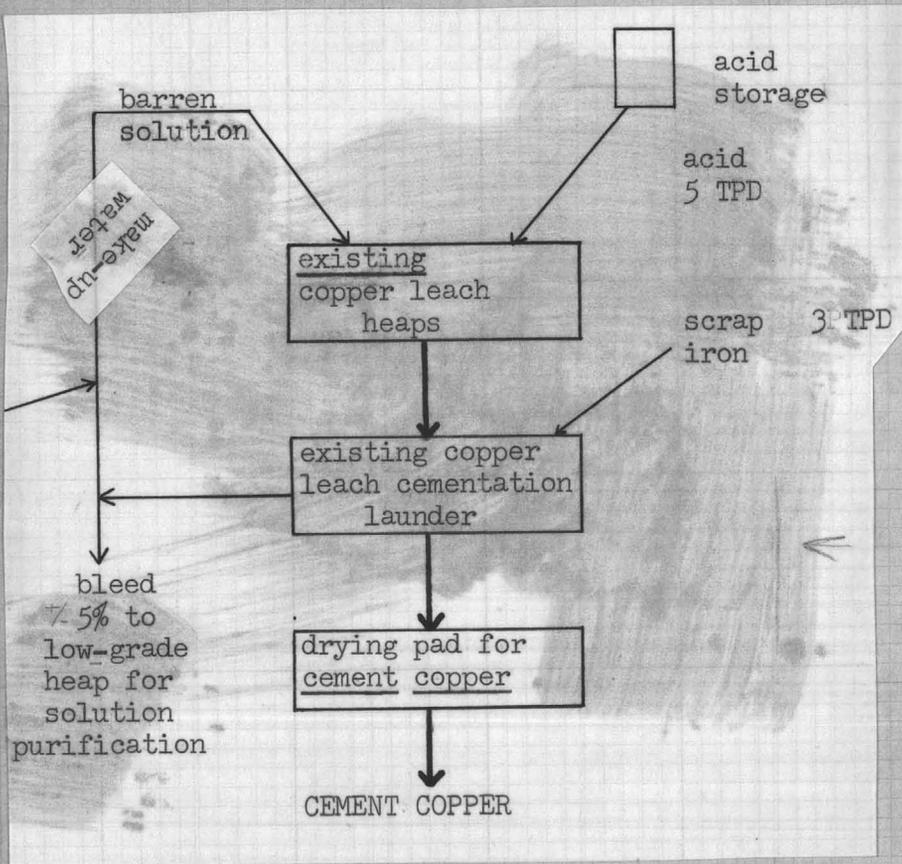
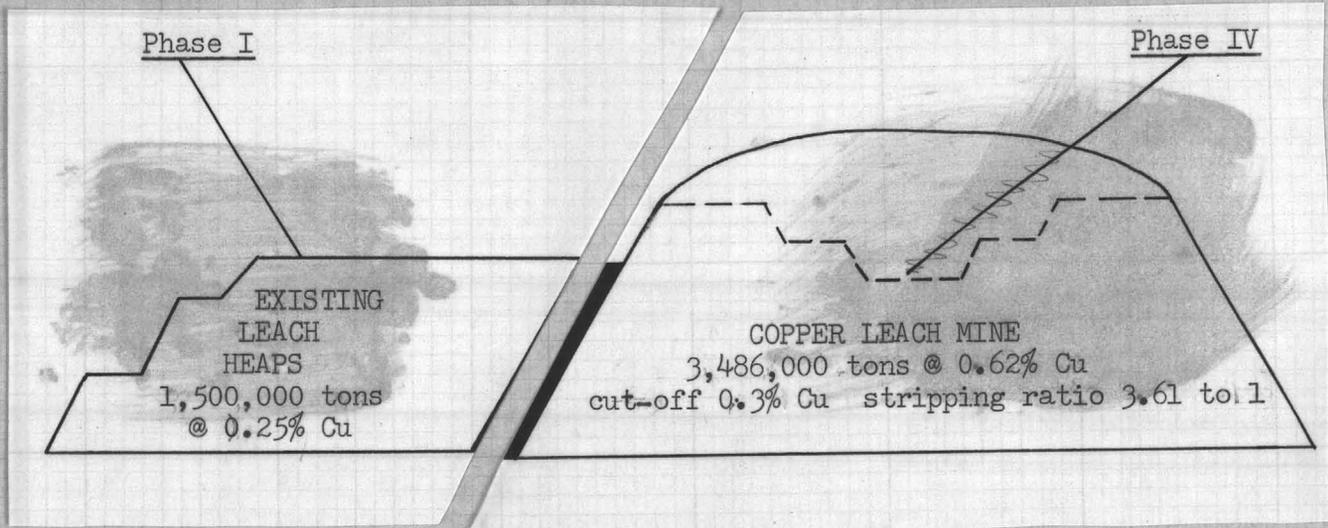


*Copper Mountain Area  
Essex International Inc.  
Tyrore Project  
Process Flow Diagram  
7-26-71*

C

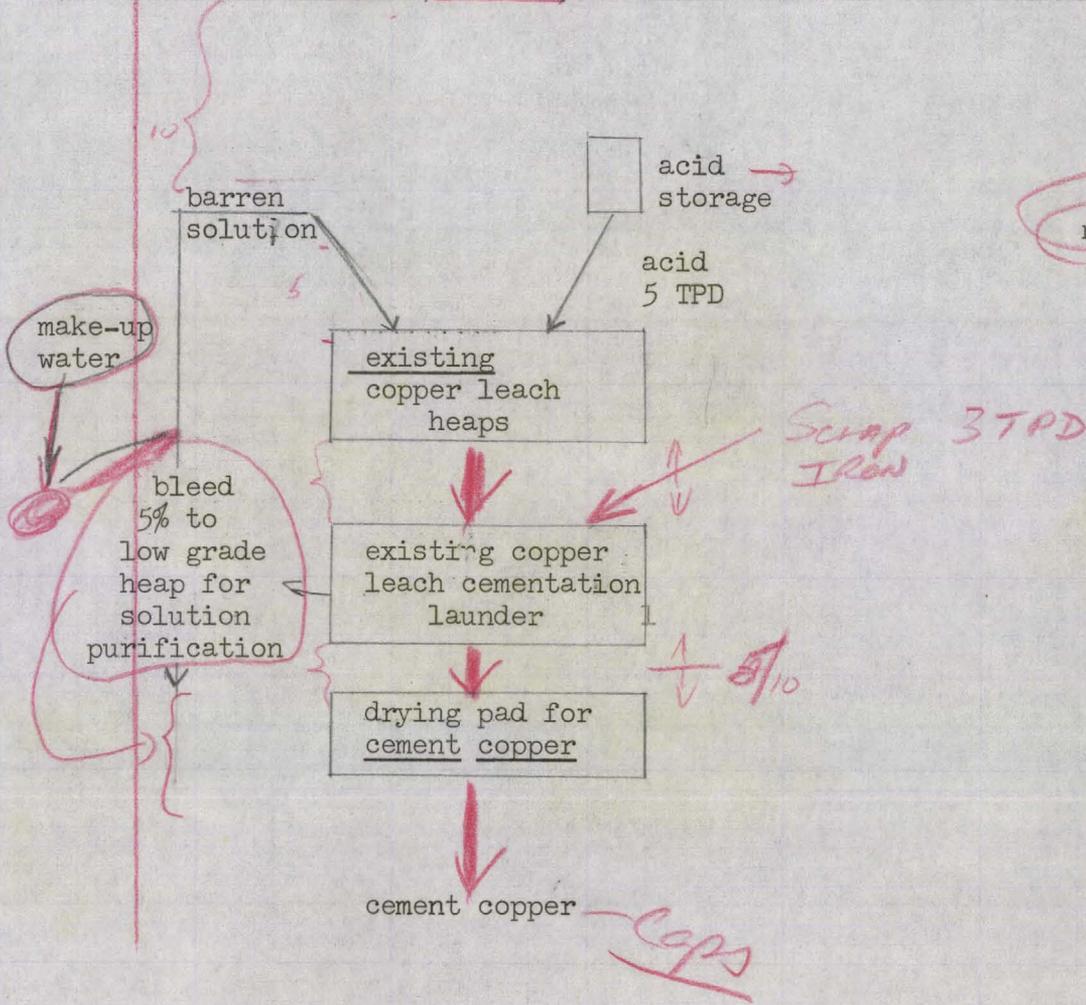
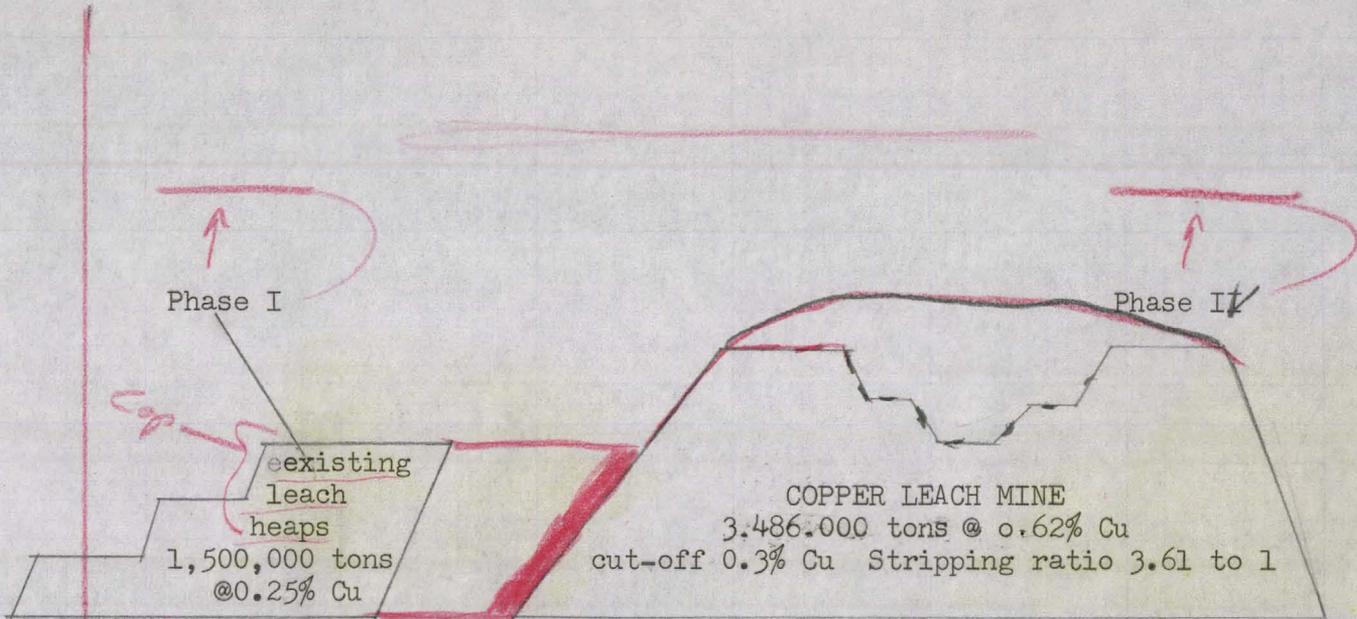


EXHIBIT V-A  
COPPER LEACH AREA



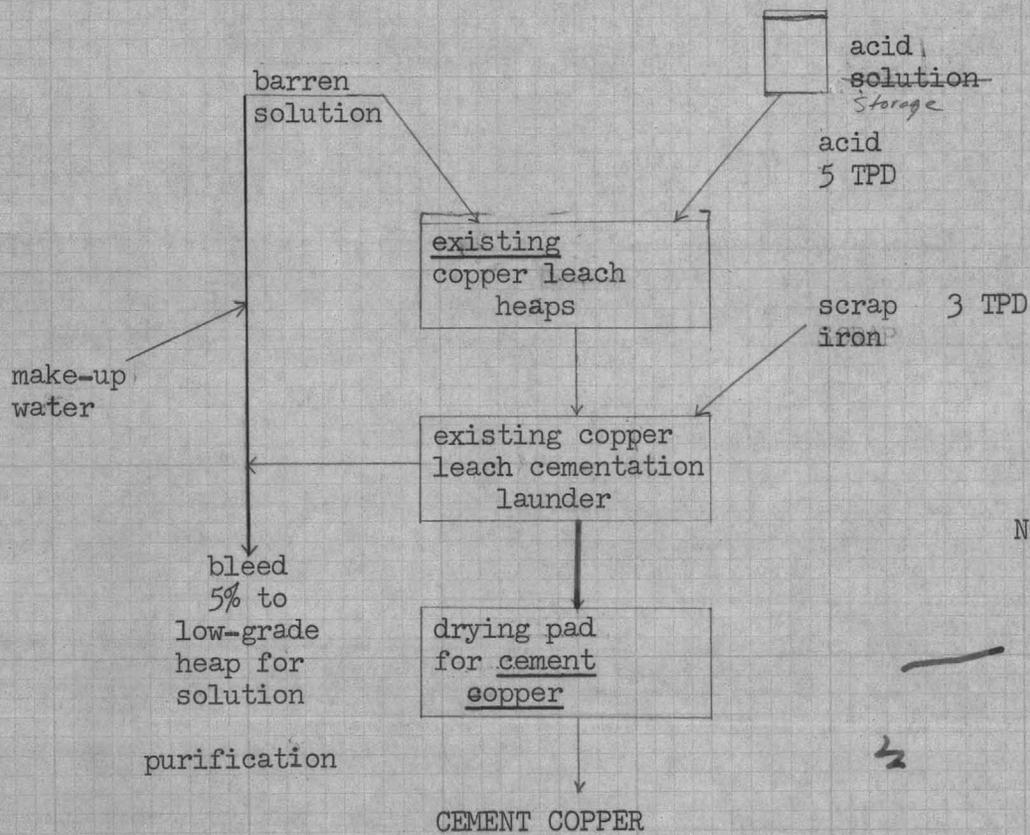
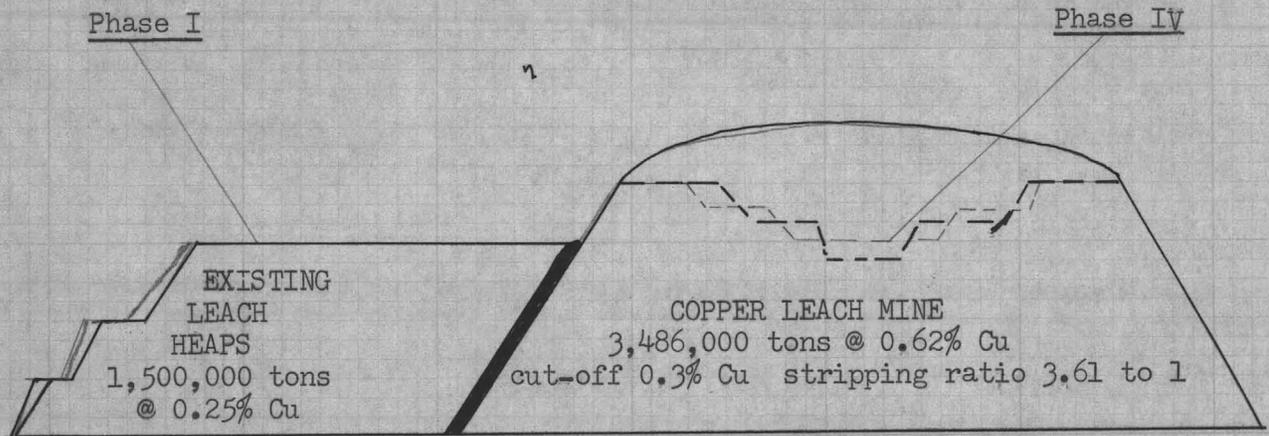
NOTE: phase I and IV will use the plant built for phase II & III

Copper Leach Area  
Essex International Inc.  
TYRONE PROJECT  
Process FLOW DIAGRAM  
7-26-71



*cap*

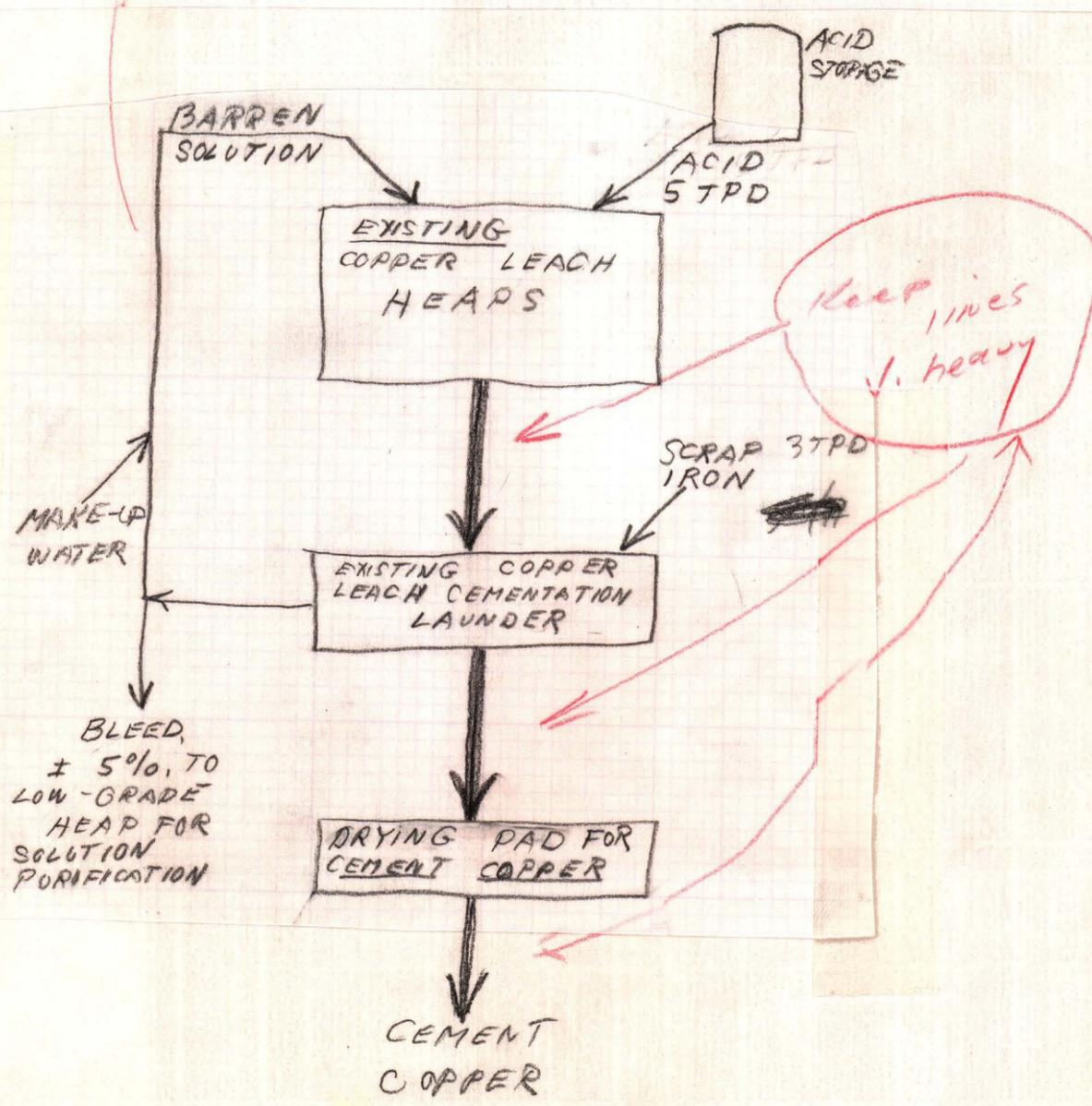
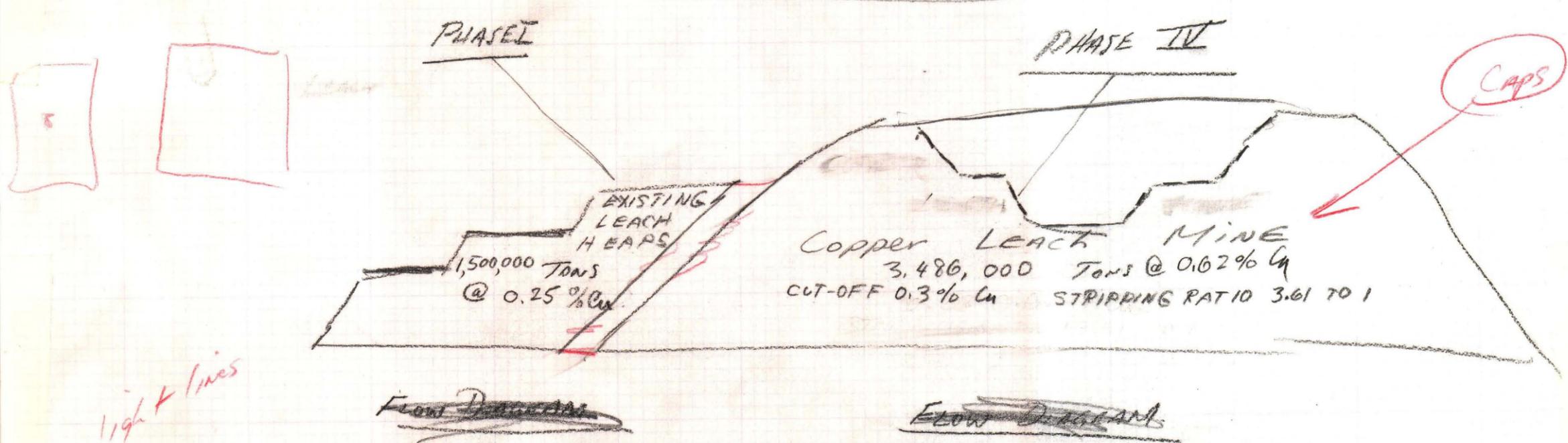
note: phase I & IV will use the plant built for phase II and III



NOTE: phase I and IV will use the plant built for phase II & III

Tyrone Project

COPPER LEACH AREA

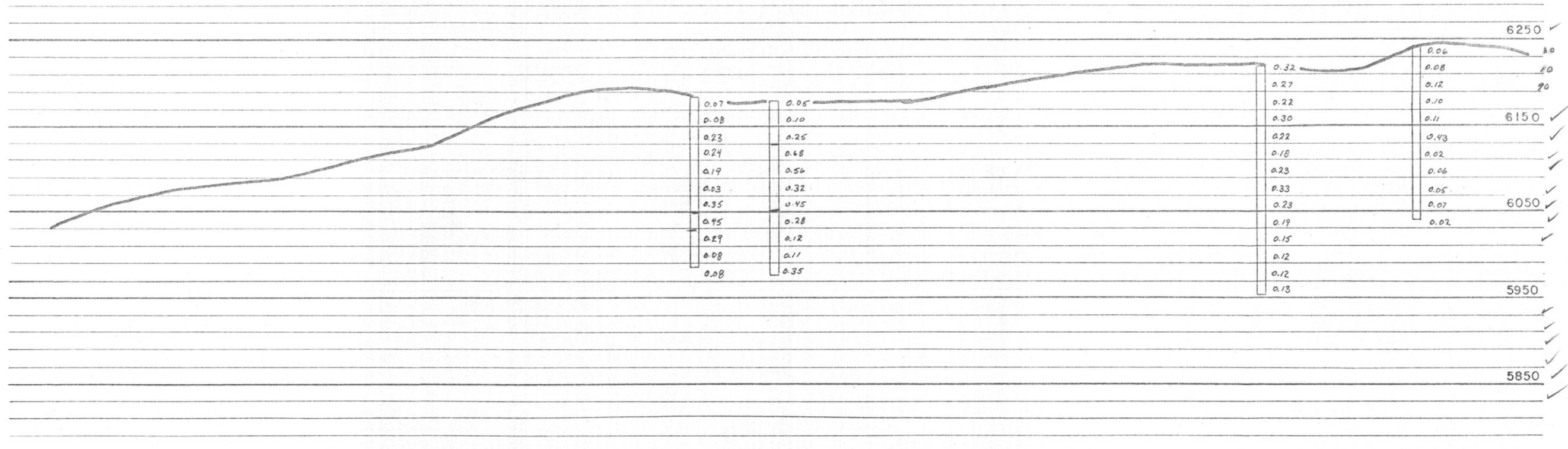
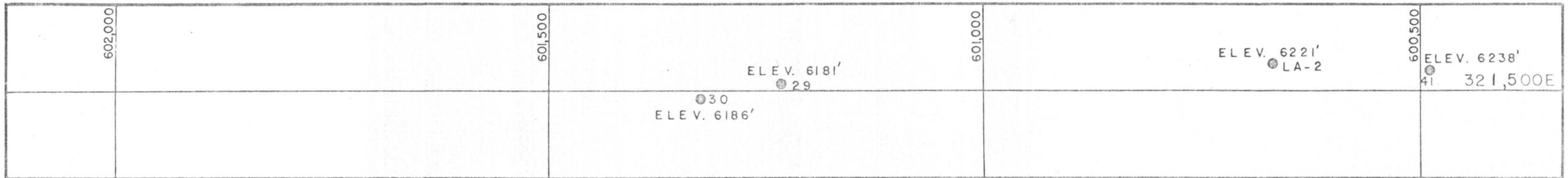


NOTE: PHASE I & IV  
WILL USE THE  
PLANT BUILT FOR  
PHASE II AND III

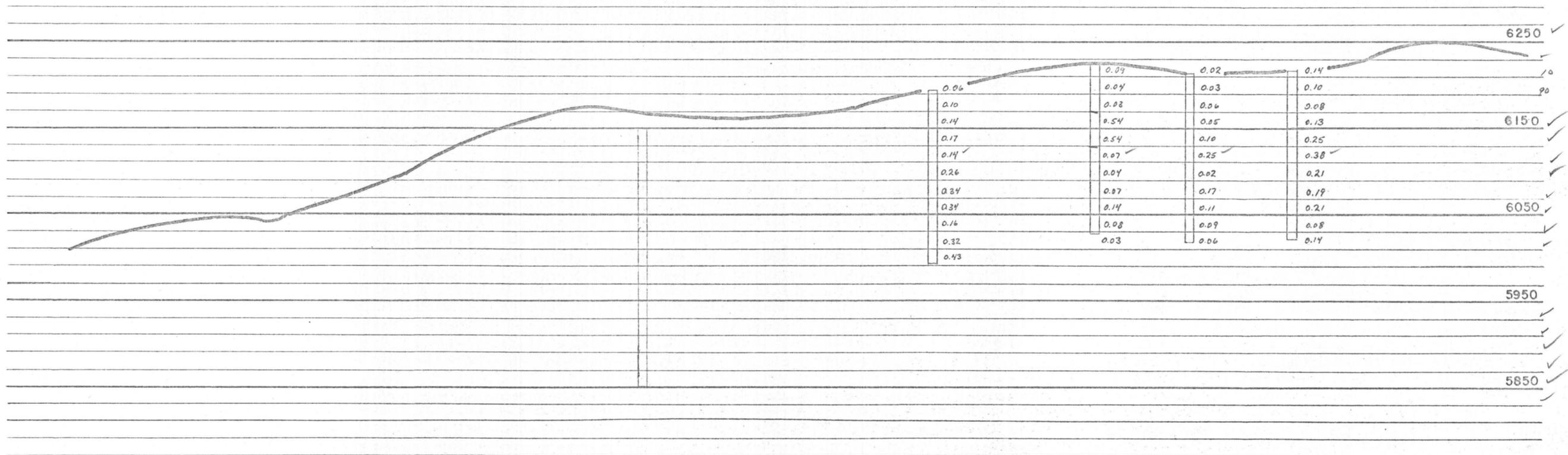
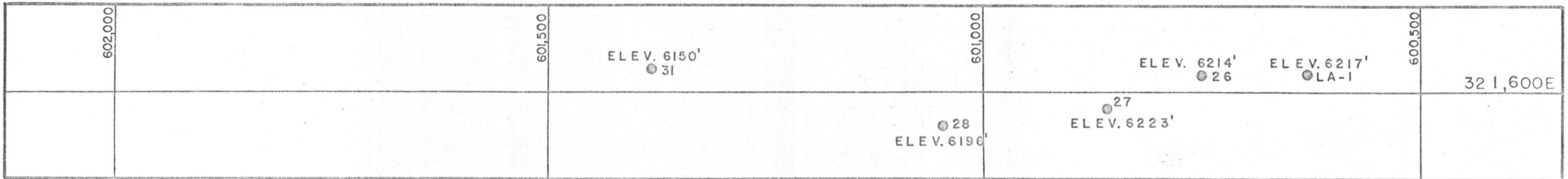
B

Tyrone Project  
Flow Diagram

7-26-71

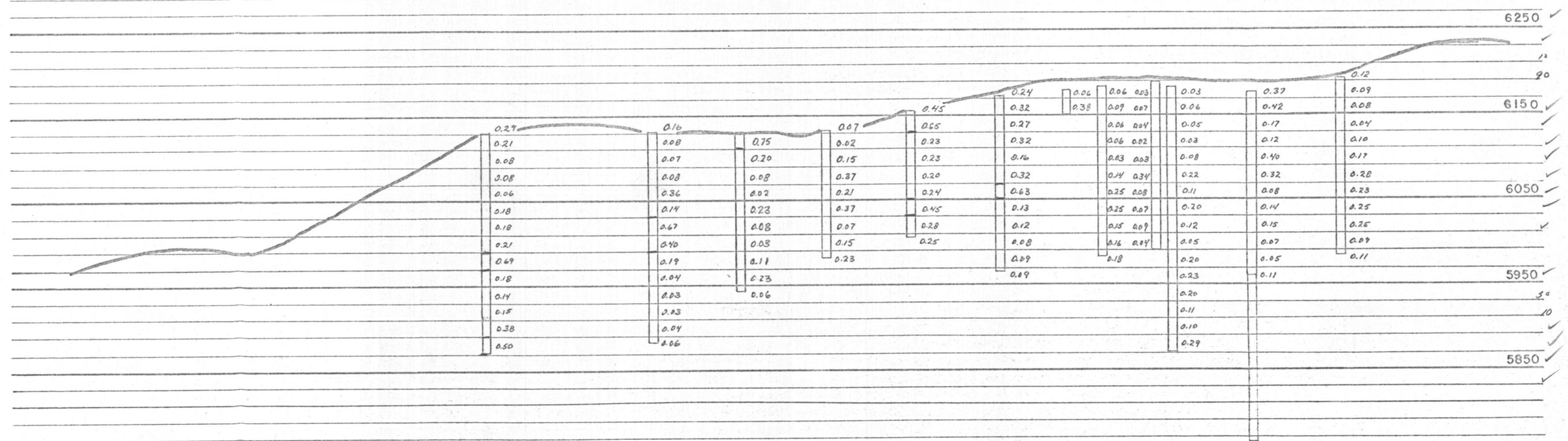
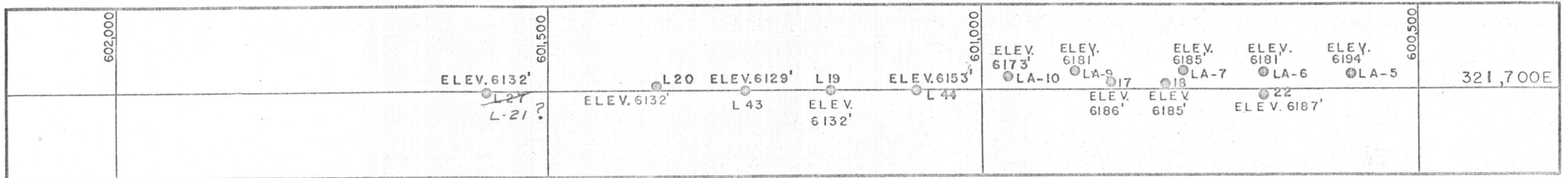


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 321,500 EAST  
 SCALE HORZ. & VERT. 1" = 100'



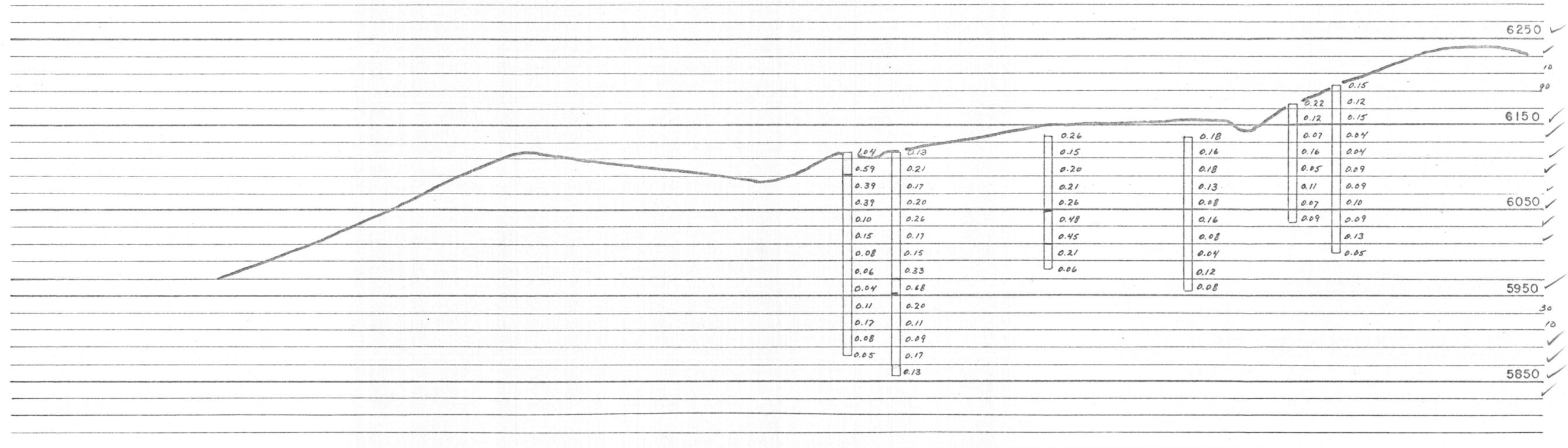
**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 321,600 EAST  
 SCALE HORZ. & VERT. 1" = 100'

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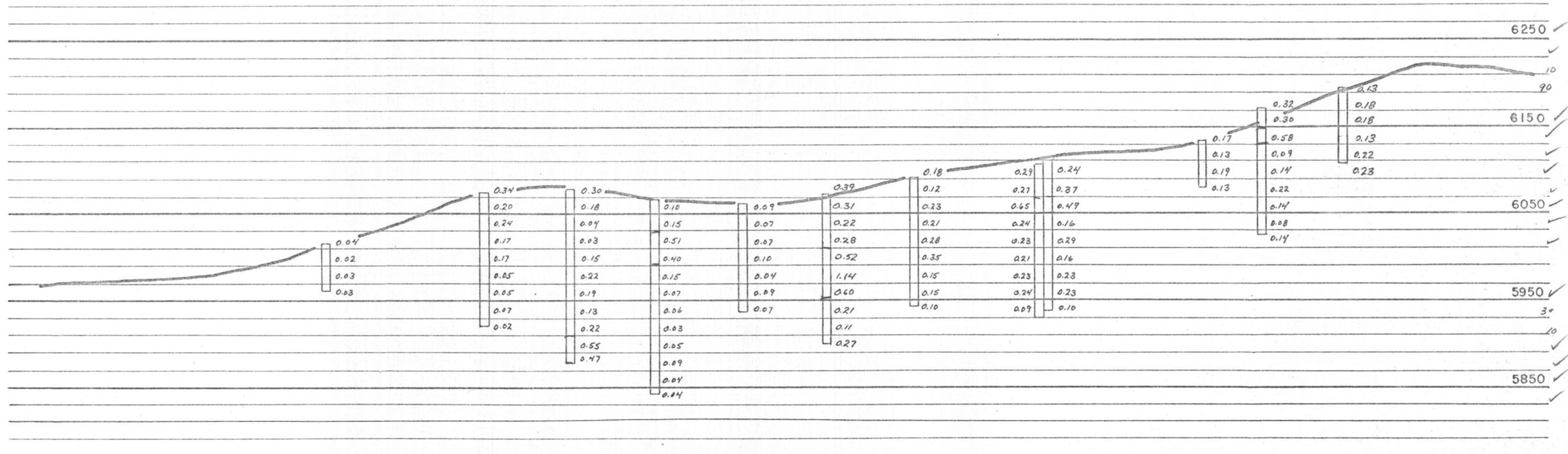
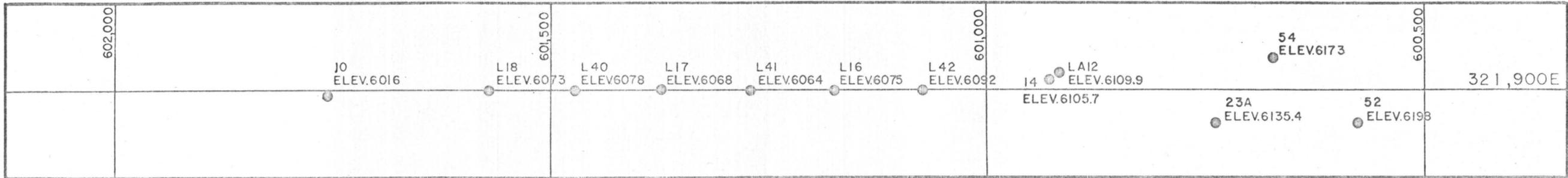


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 321,700 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500	321,800E
		XL8 ELEV.6118  XL7 ELEV.6118	13 ELEV.6135.6  23B ELEV.6134.7  53 ELEV.6175.5  51 ELEV.61978	

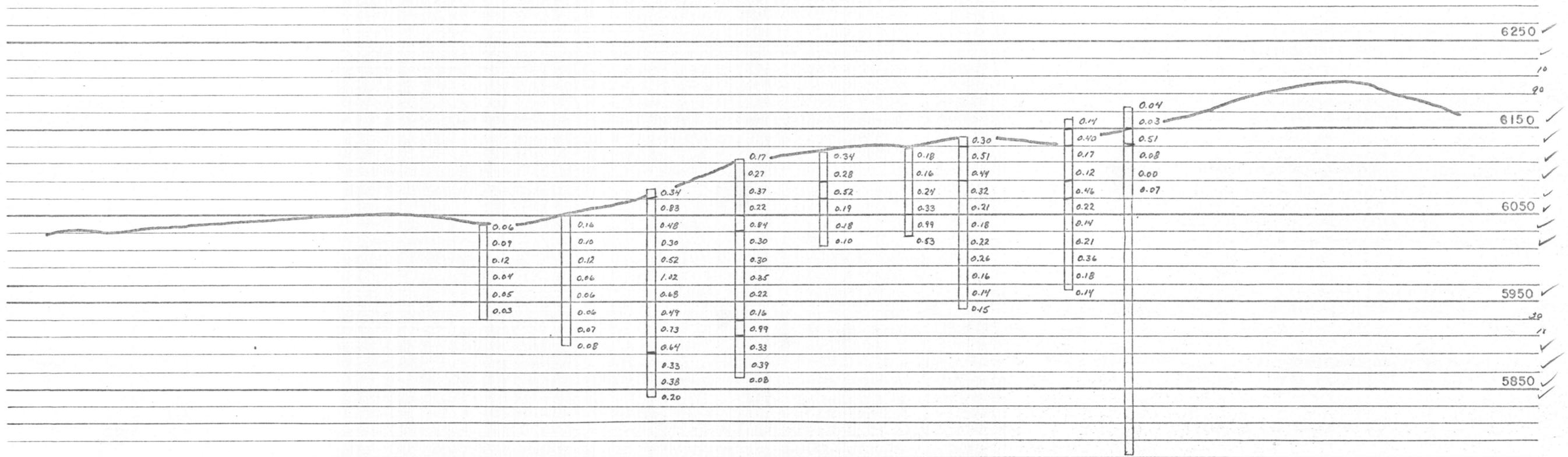
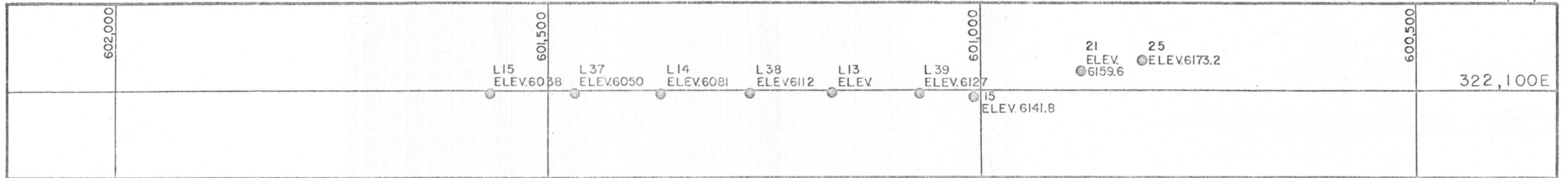


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 321,800 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

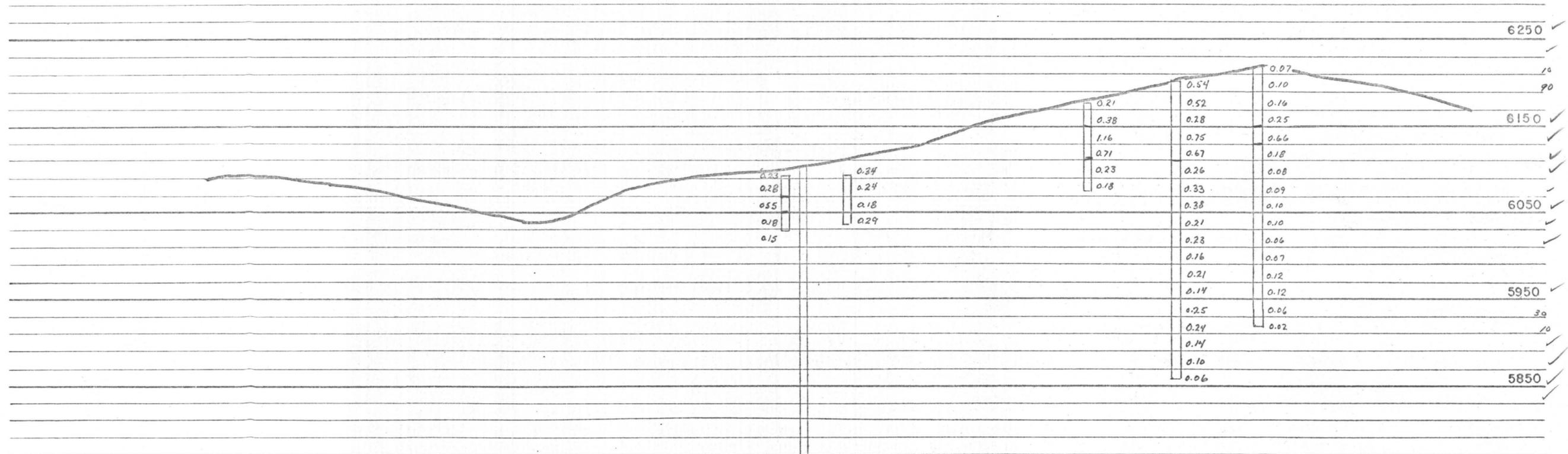
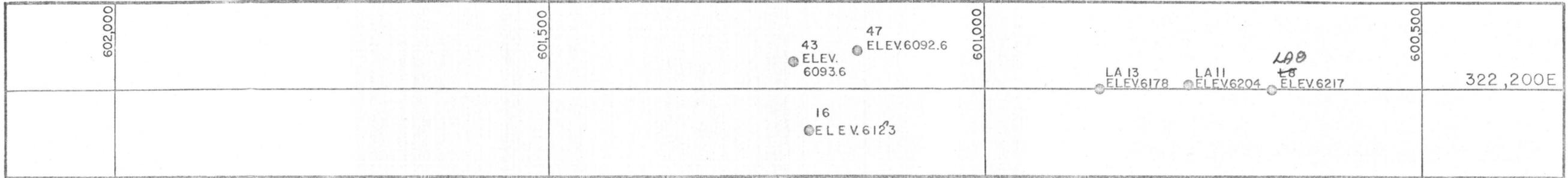


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 321,900 EAST**  
 SCALE HORZ. & VERT. 1" = 100'



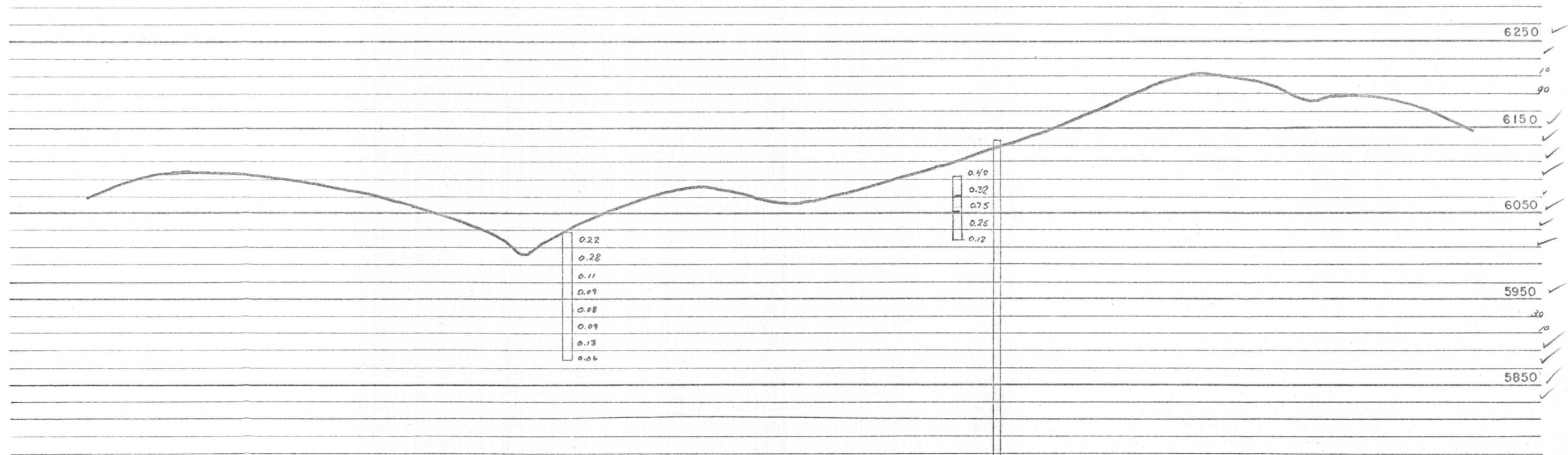


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 322,100 EAST  
 SCALE HORZ. & VERT. 1" = 100'

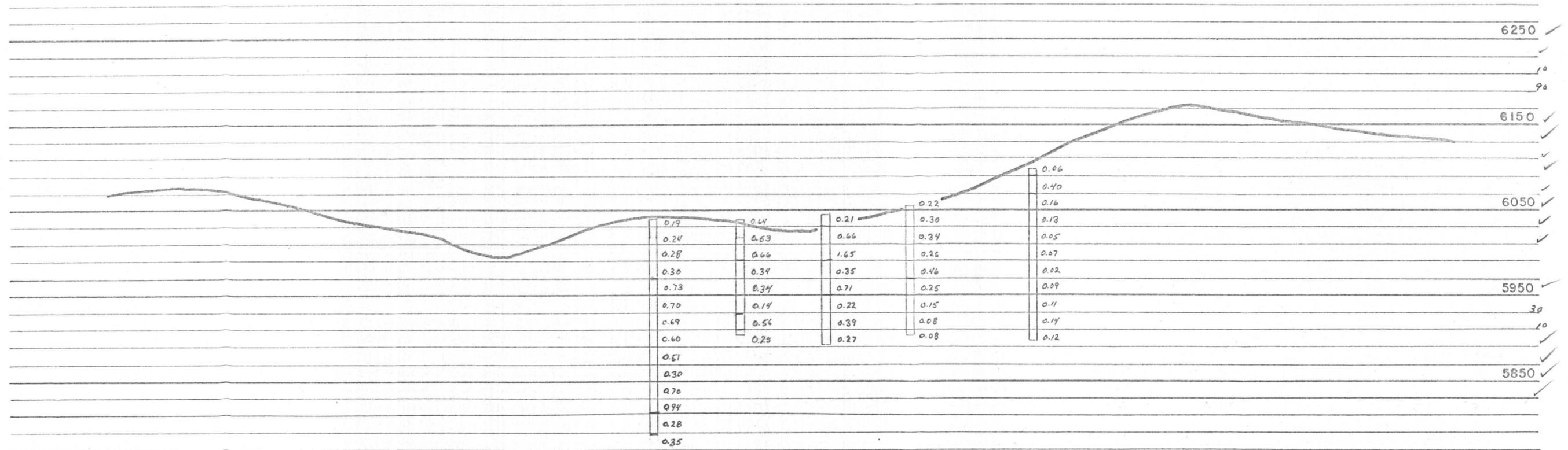
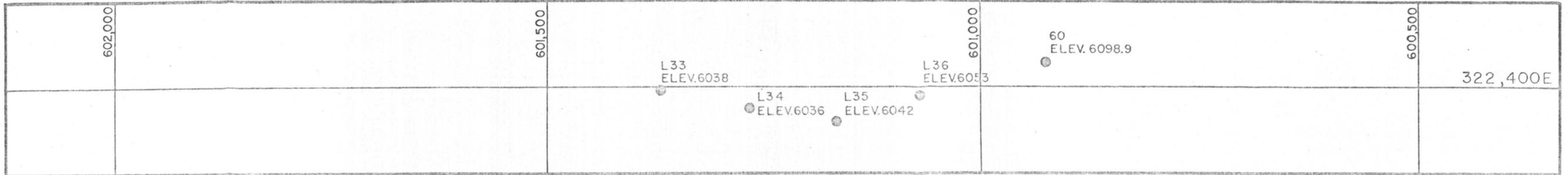


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 322,200 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

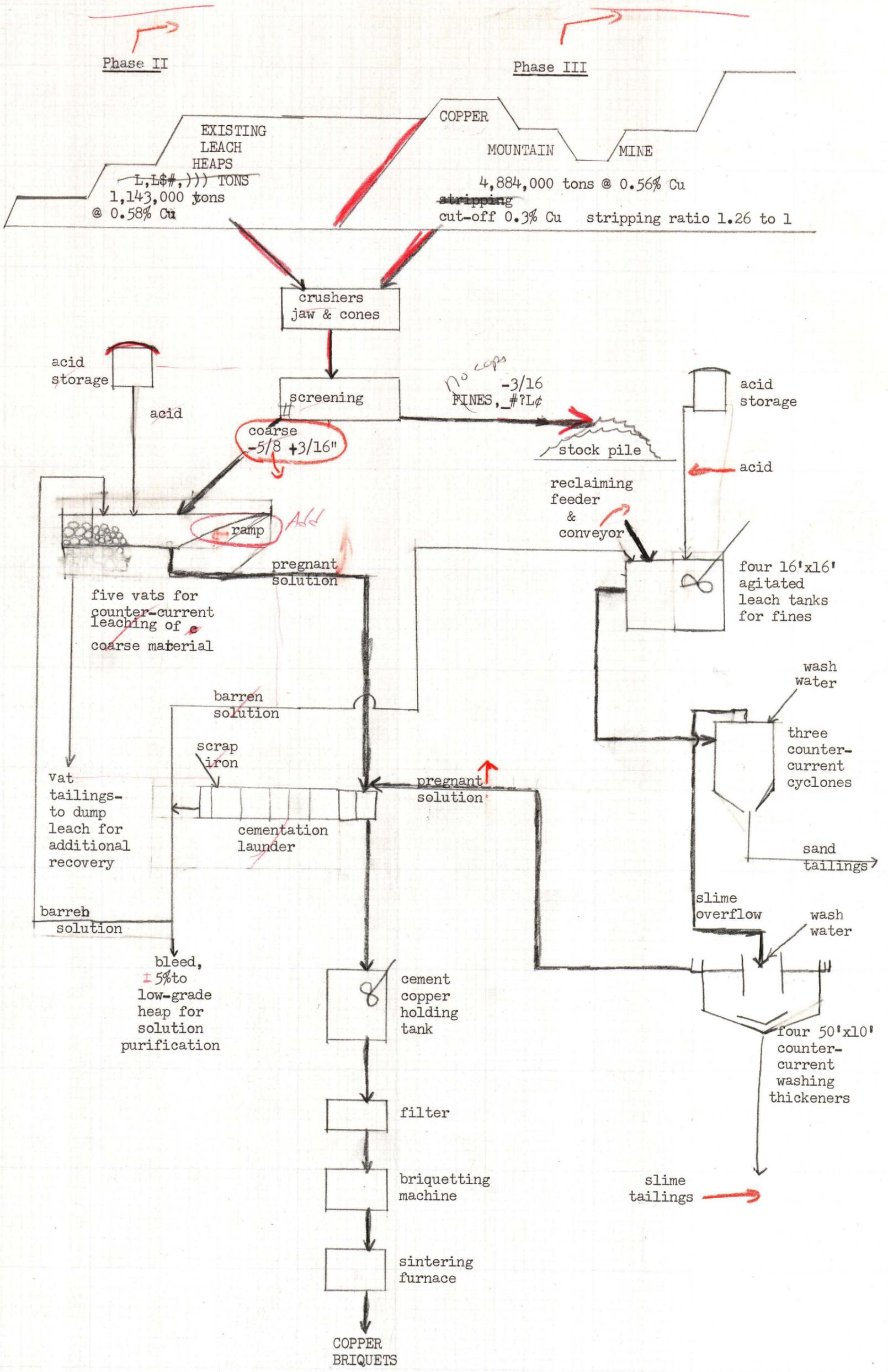
602,000	601,500	L32 ELEV. 6028	49 ELEV. 6094	601,000	600,500	322,300E
			50 ELEV 6137			



**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 322,300 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

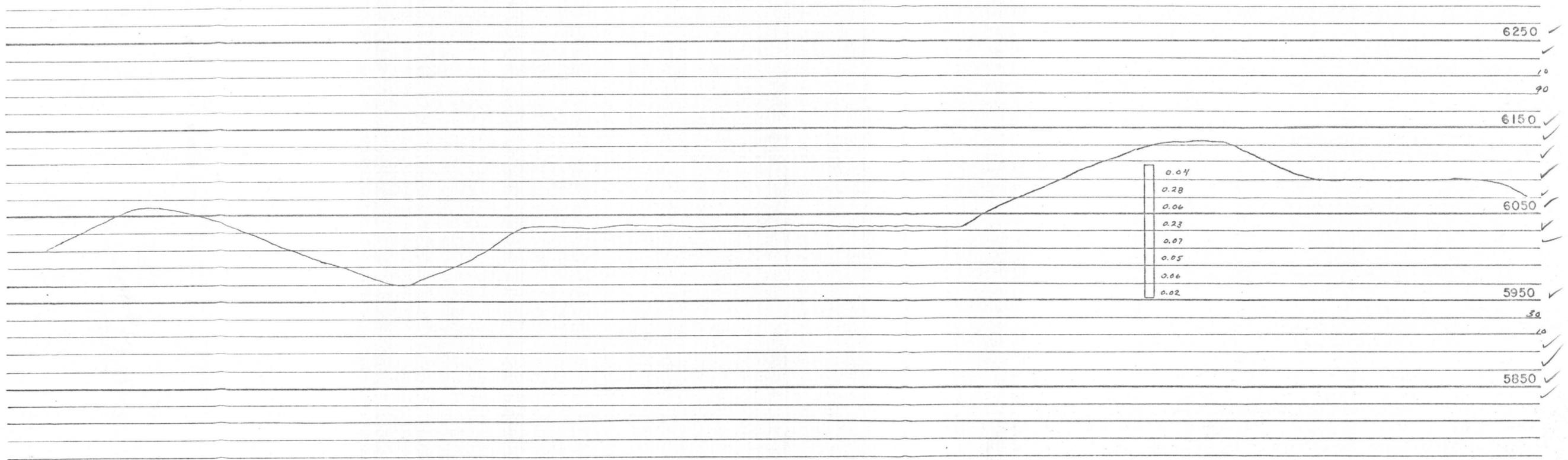


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER LEACH PIT  
 CROSS-SECTION 322,400 EAST  
 SCALE HORZ. & VERT. 1" = 100'



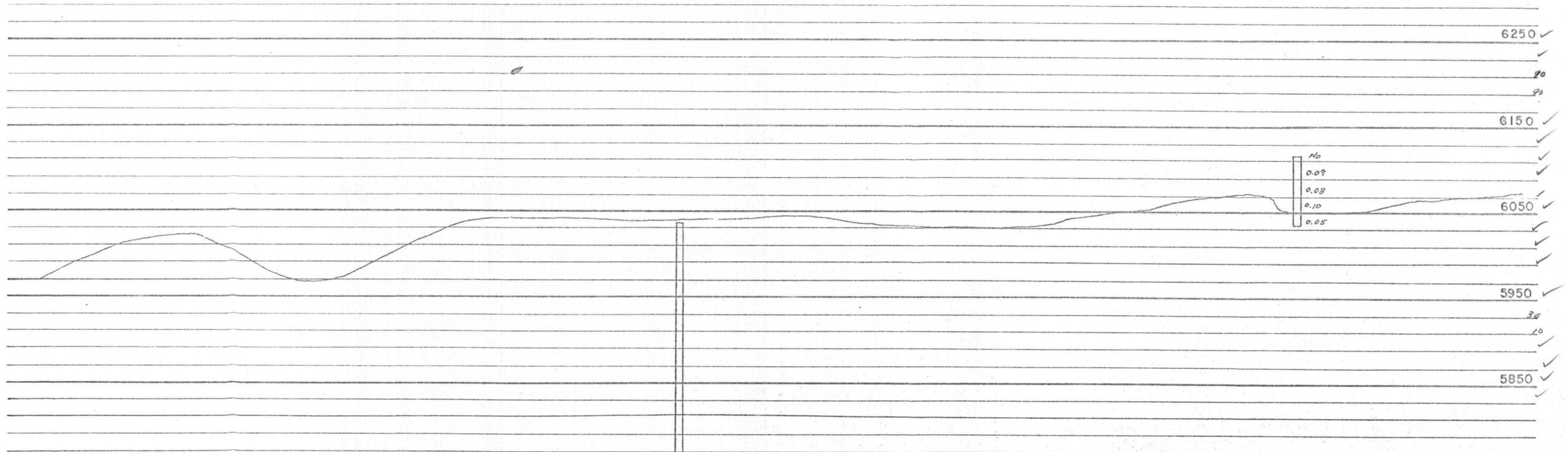
*Handwritten scribble*

602,000	601,500	601,000	ELEV. 6105' 64	600,500
				322,500E

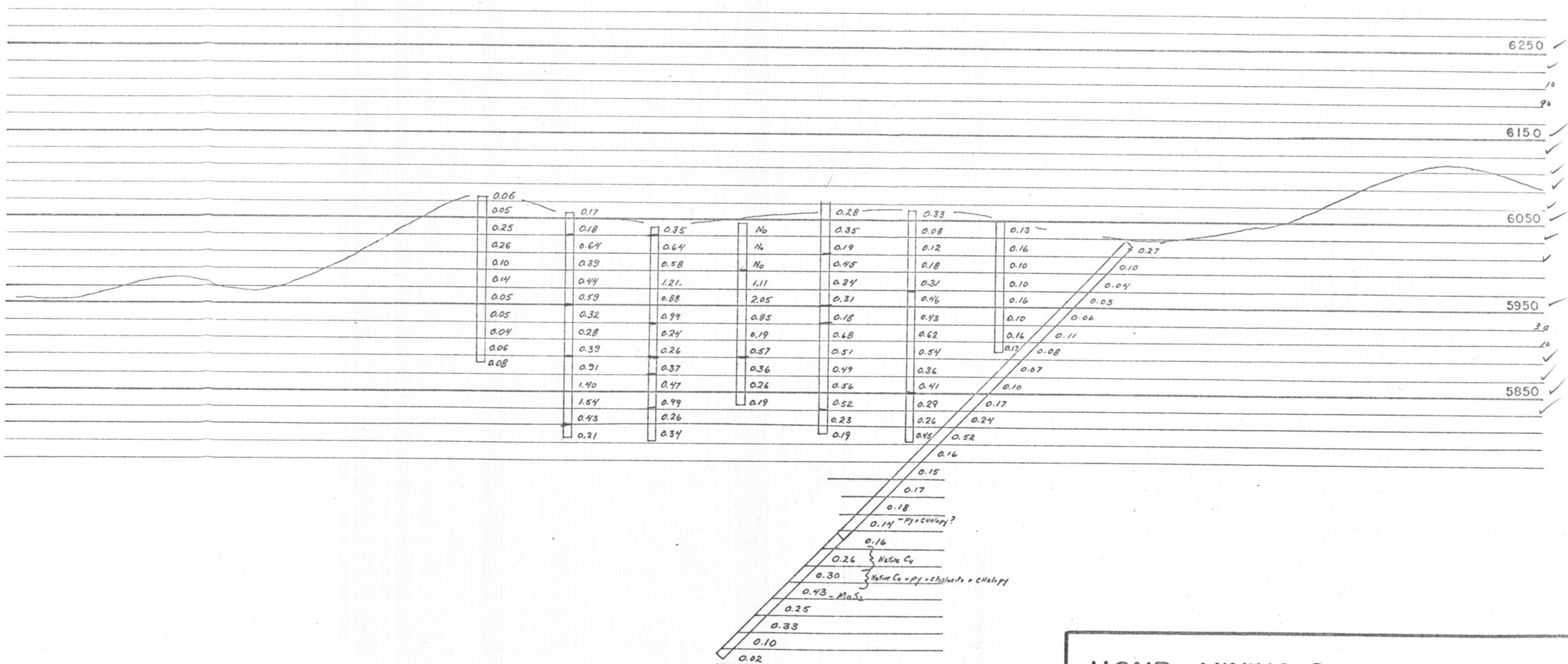
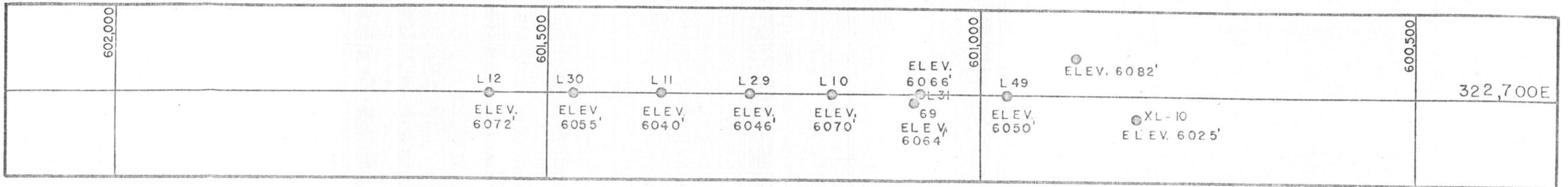


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 322,500 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500
		ELEV. 6034' ● 75	ELEV. 6015' ● 1012
			322,600E

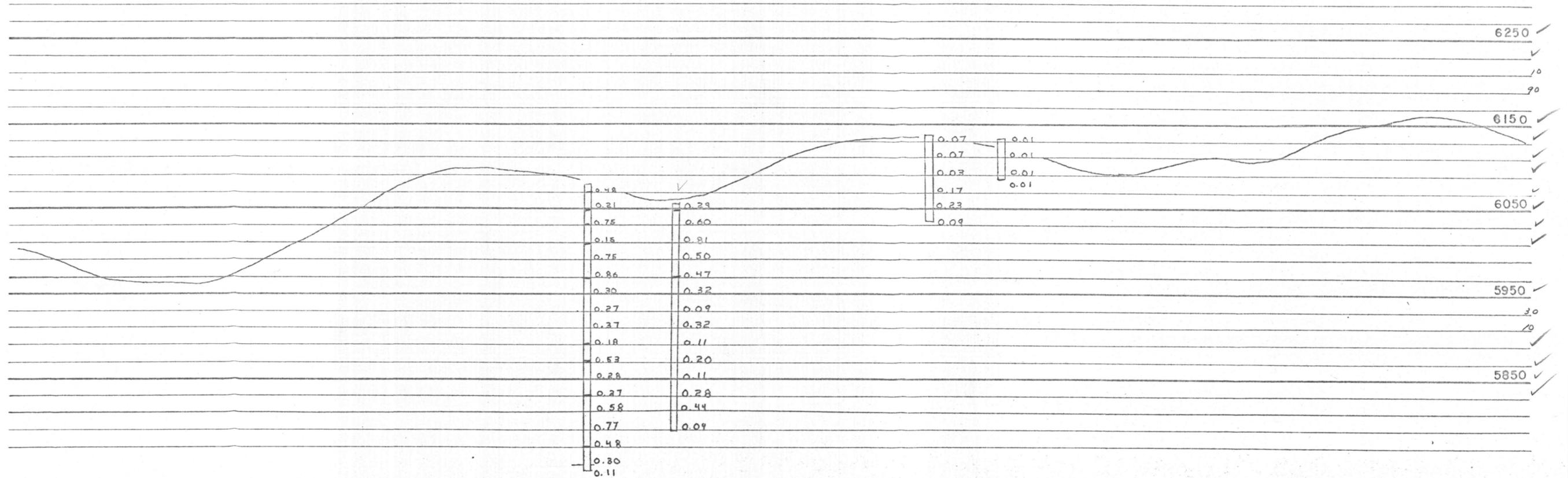


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 322,600 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

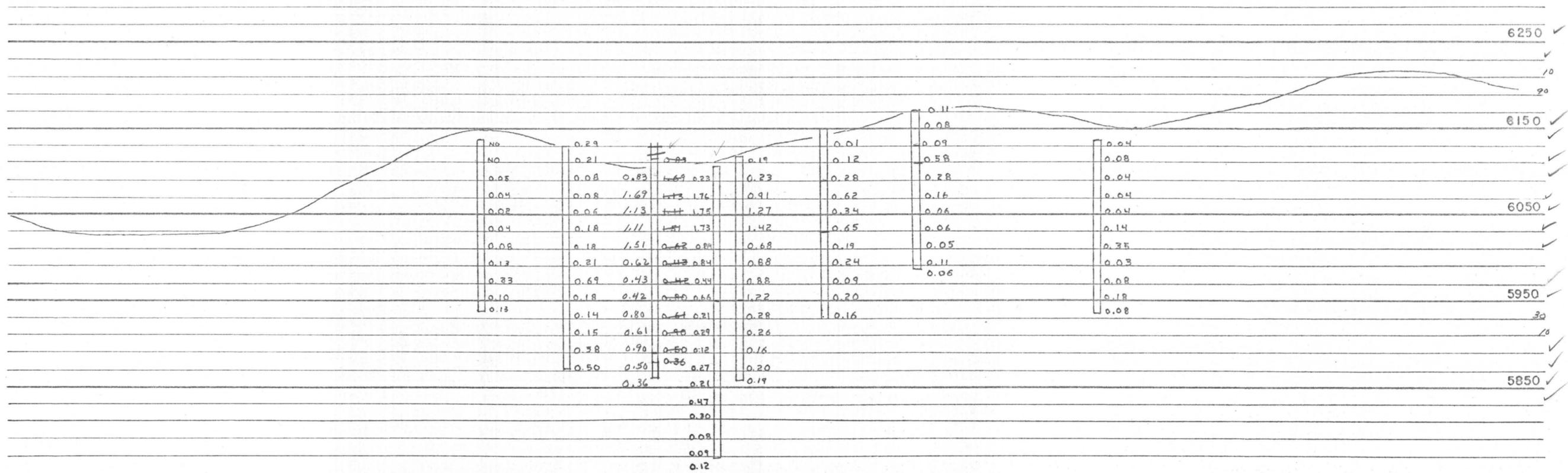
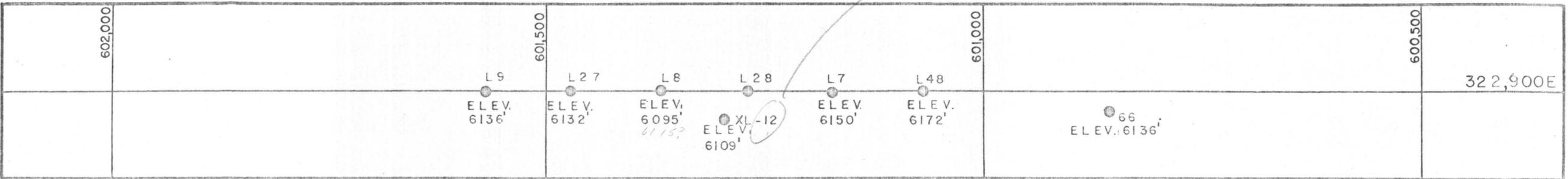


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 322,700 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500	322,800E
	ELEV. 6080' ● XL-5	ELEV. 6055' ● XL-3	ELEV. 6136' ● 19	
			ELEV. 6135' ● 67	

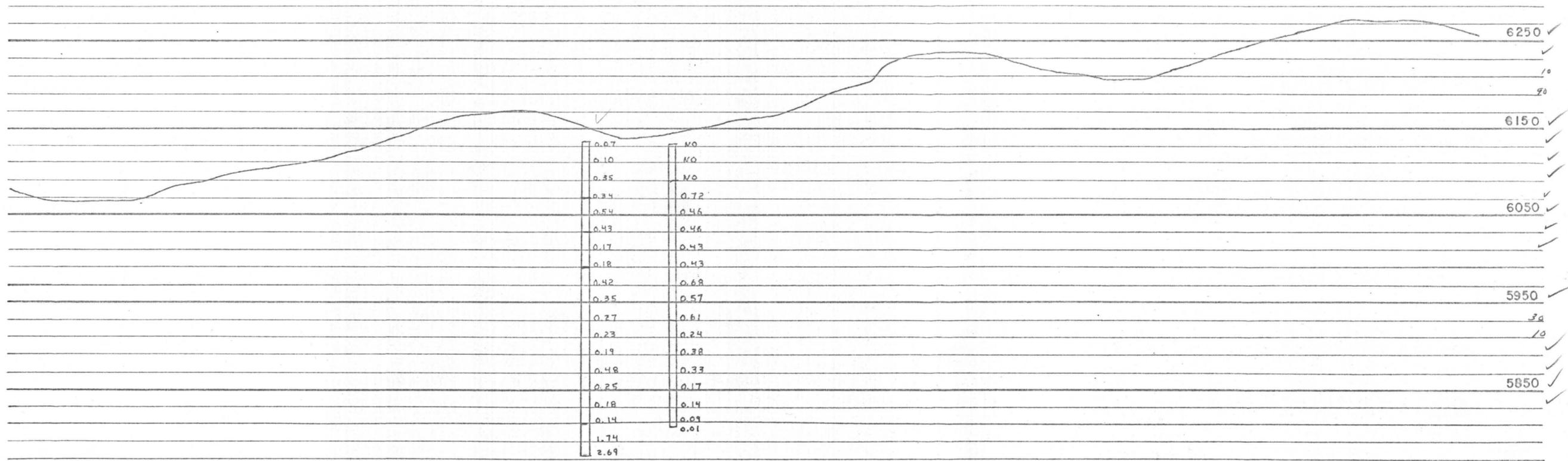


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 322,800 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

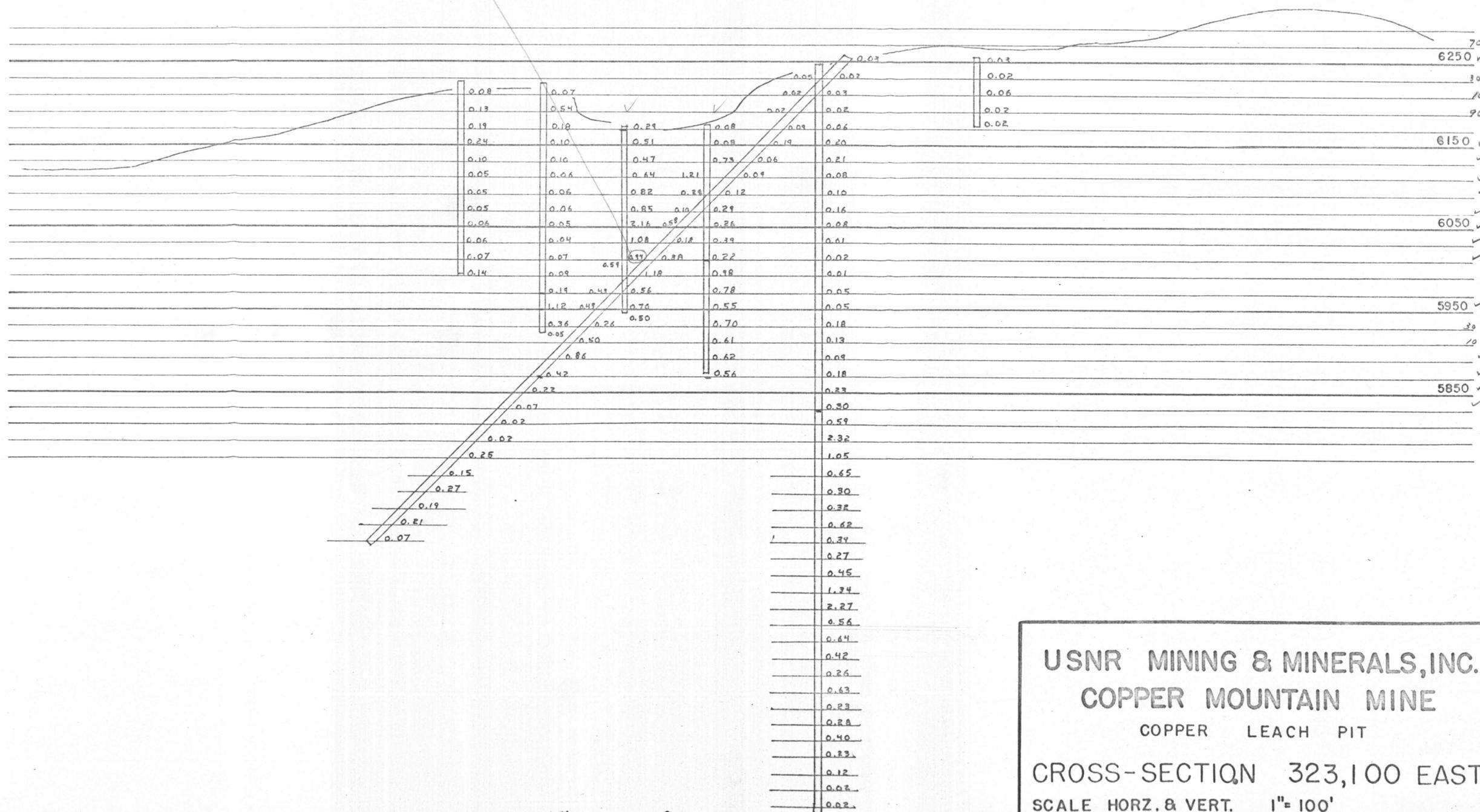
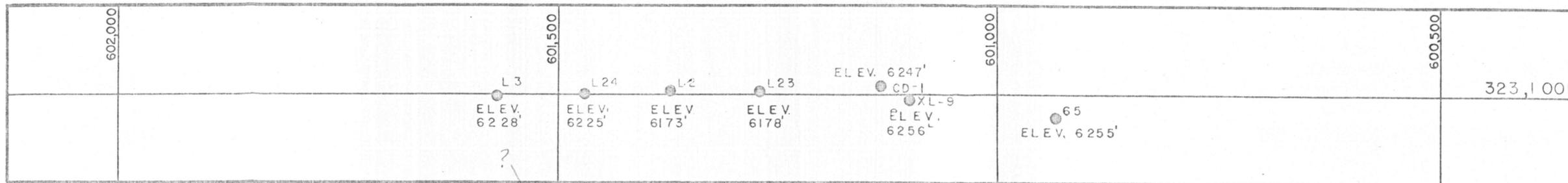


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER LEACH PIT  
 CROSS-SECTION 322,900 EAST  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500	323,000E
	● XL-1 ELEV. 6136'	● XL-2 ELEV. 6132'		

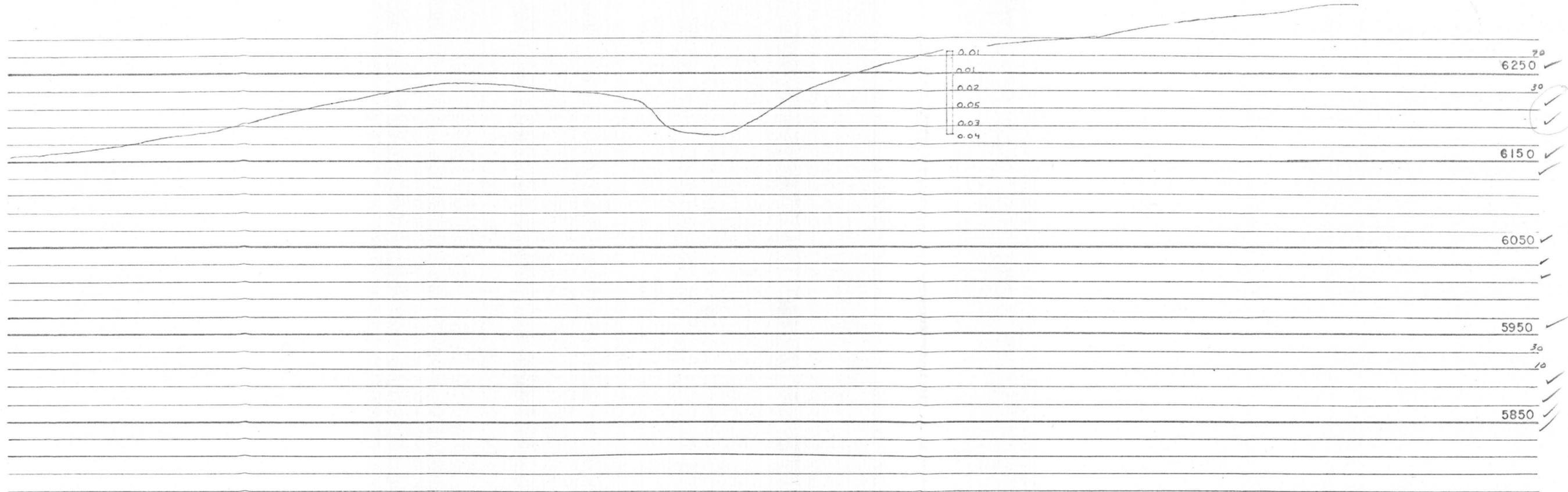


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 323,000 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

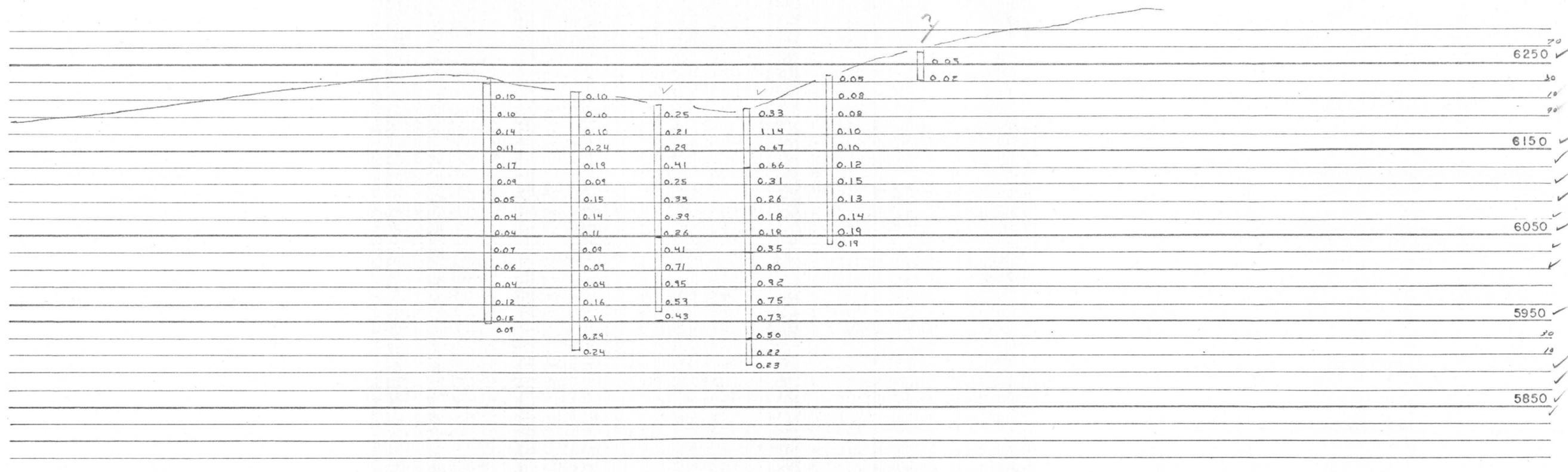
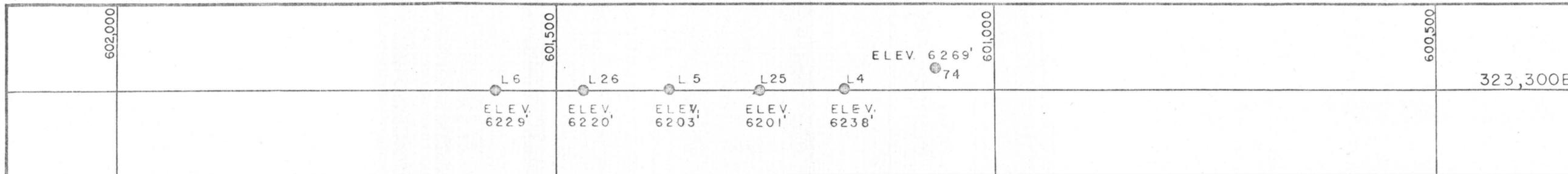


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 323,100 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

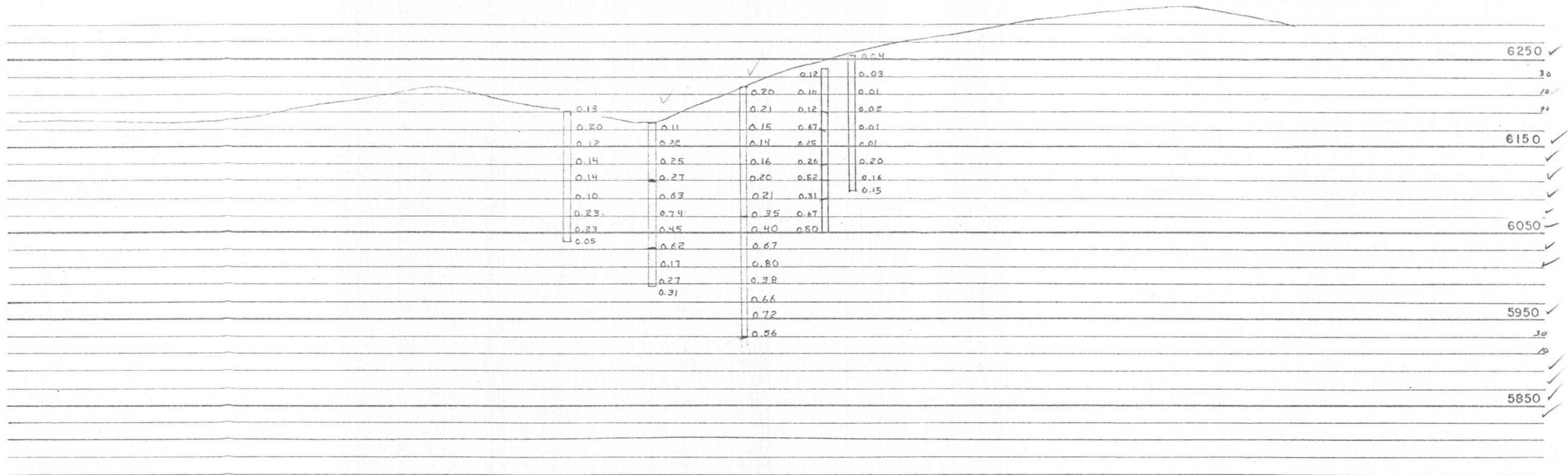
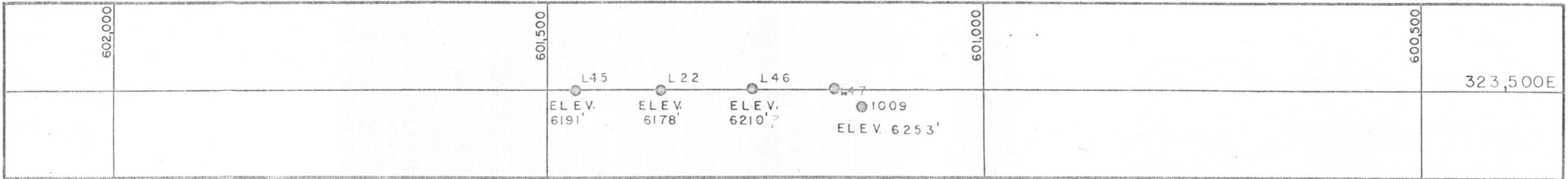
602,000	601,500	601,000	600,500
		72 ELEV. 6277'	32 3,200E



**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 323,200 EAST  
 SCALE HORZ. & VERT. 1" = 100'



**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 323,300 EAST  
 SCALE HORZ. & VERT. 1" = 100'

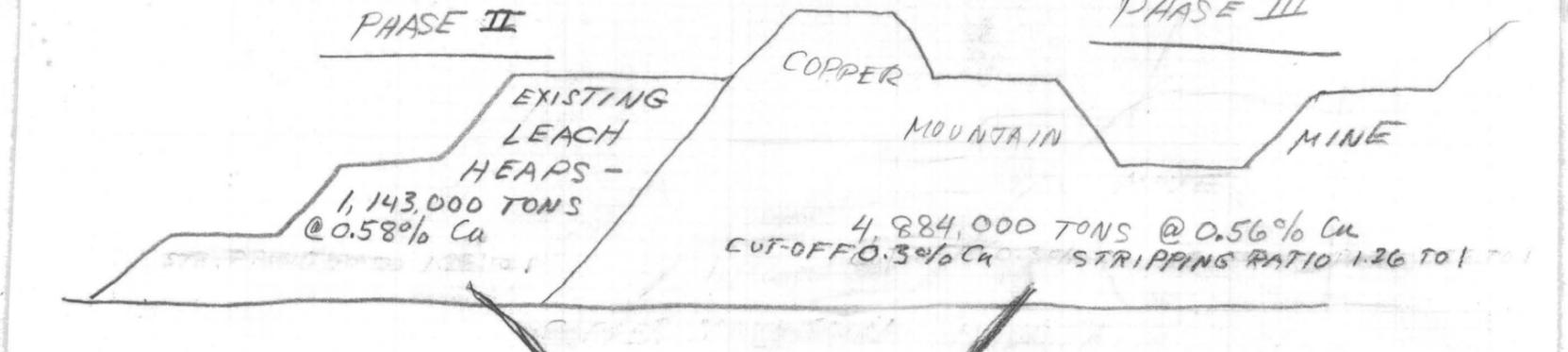


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 323,500 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

# COPPER MOUNTAIN AREA

PHASE II

PHASE III



PHASE

CRUSHERS  
JAW & CONES

SCREENING

FINES, -3/16"

ACID STORAGE

ACID STORAGE

ACID

ACID

COARSE  
-5/8" + 3/16"

FINES  
-3/16"

RECLAIMING  
FEEDER  
&  
CONVEYOR

RAMP  
FIVE VATS FOR  
COUNTER-CURRENT  
LEACHING OF  
COARSE MATERIAL  
PREGNANT SOLUTION

FOUR 16'X16'  
AGITATED  
LEACH TANKS  
FOR FINES

WASH WATER  
THREE  
COUNTER-CURRENT  
CYCLONES

VAT  
TAILINGS -  
TO DUMP  
LEACH FOR  
ADDITIONAL  
RECOVERY

BARREN  
SOLUTION  
SCRAP  
IRON  
CEMENTATION  
LAUNDER

PREGNANT  
SOLUTION

SAND  
TAILING

SLIME  
OVERFLOW  
WASH WATER

BARREN SOLUTION

BLEED,  
± 5% TO  
LOW GRADE  
HEAP FOR  
SOLUTION  
PURIFICATION

CEMENT  
COPPER  
HOLDING  
TANK

FOUR 50'X10'  
COUNTER-CURRENT  
WASHING TAILINGS

SLIME  
TAILINGS

FILTER

BRIQUETTING  
MACHINE

SINTERING  
FURNACE

COPPER  
BRIQUETS

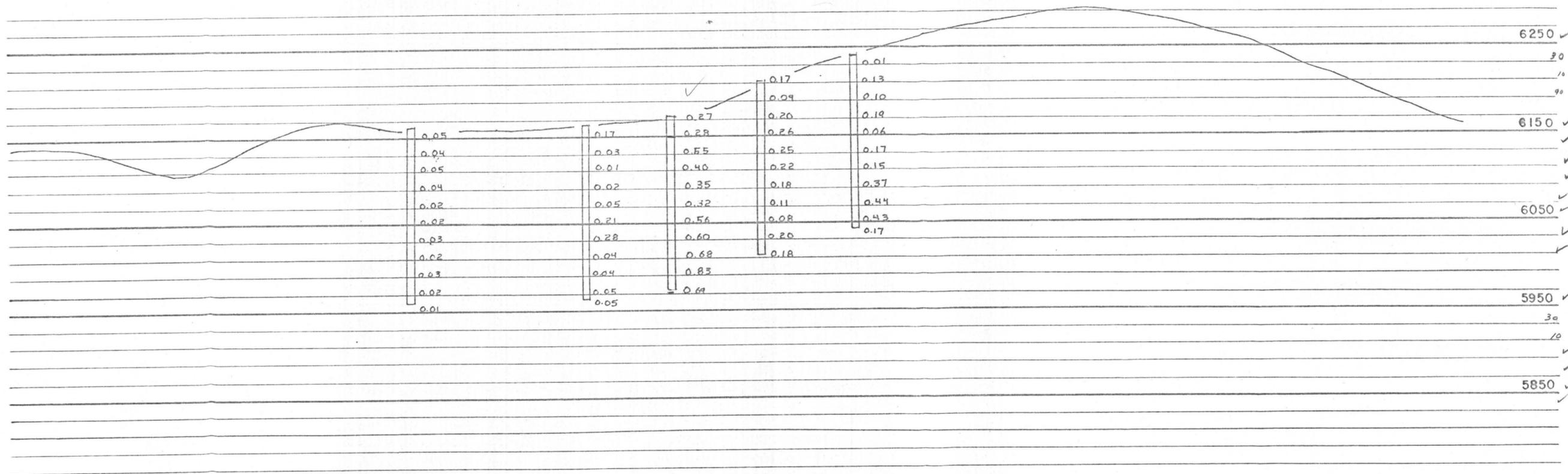
Note Phase IV  
will use  
plant built for  
Phase II & III

Tyone Project  
Flow Diagram

7-26-71

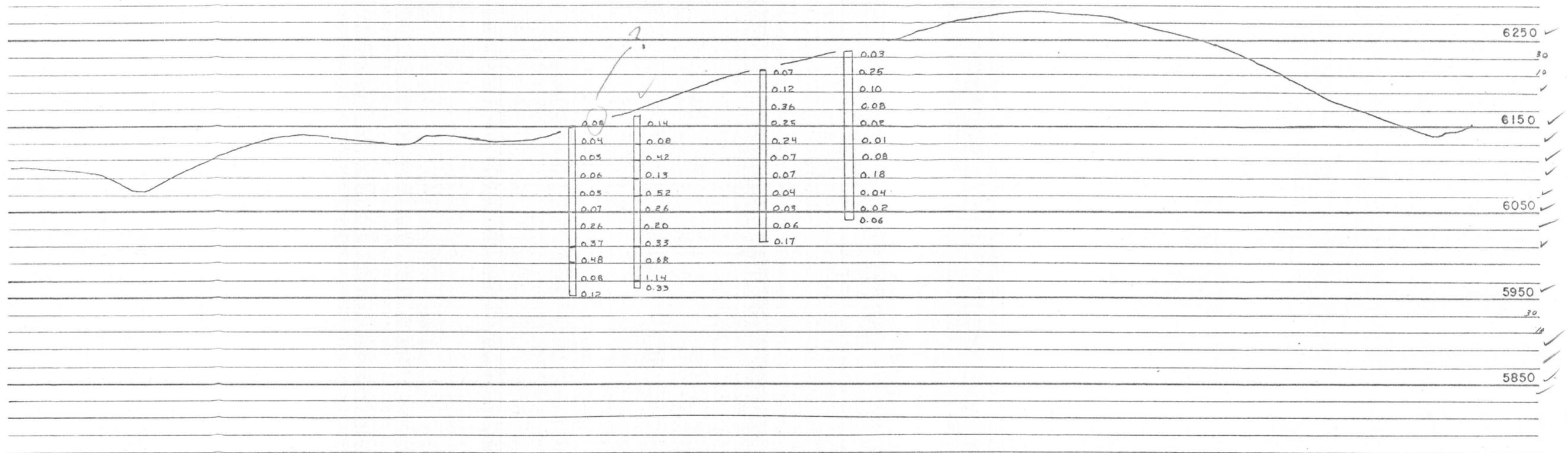


602,000		601,500	601,000	600,500	323,700E
	1019 ELEV. 6164'	1006 ELEV. 6173' 1007 ELEV. 6165'	1028 ELEV. 6212'	1011 ELEV. 6244'	



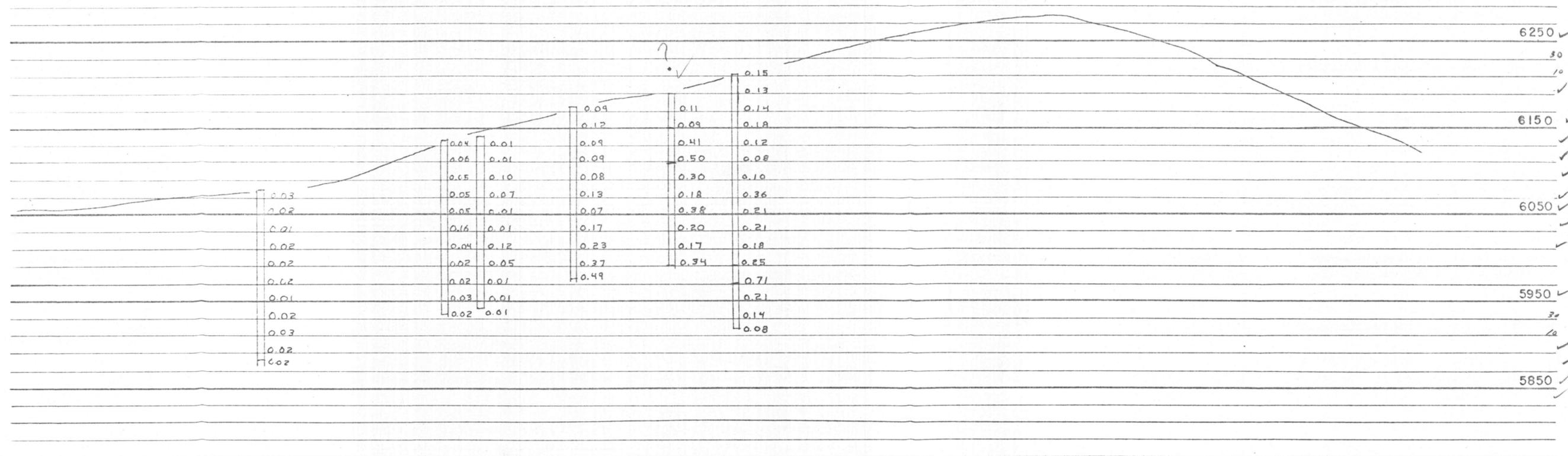
**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 323,700 EAST  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500	323,800E
	● 1008 ELEV. 6151'	● 1042 ELEV. 6165'	● 1029 ELEV. 6215'	● 1013 ELEV. 6240'

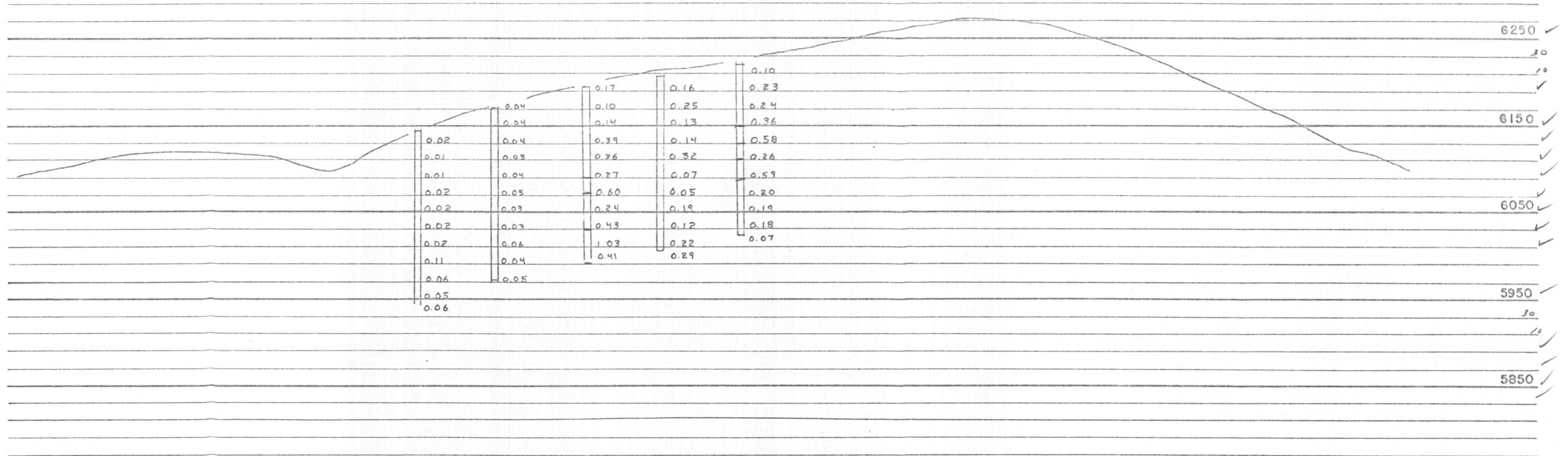
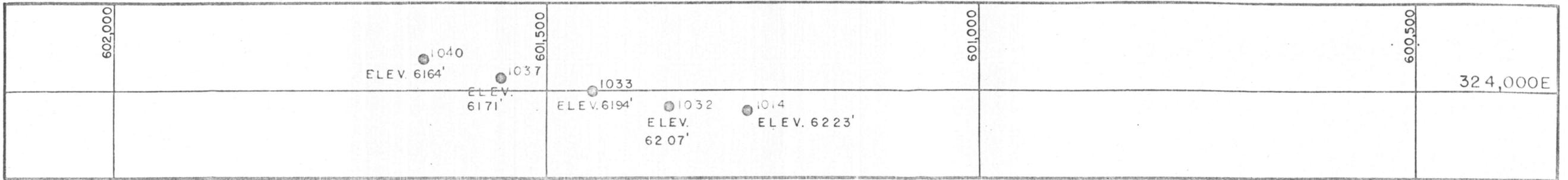


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 323,800 EAST**  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500	323,900E
1018 ELEV. 6081'	ELEV. 6137' 1017 1041 ELEV. 6143'	1038 ELEV. 6176'	1034 ELEV. 6190'	

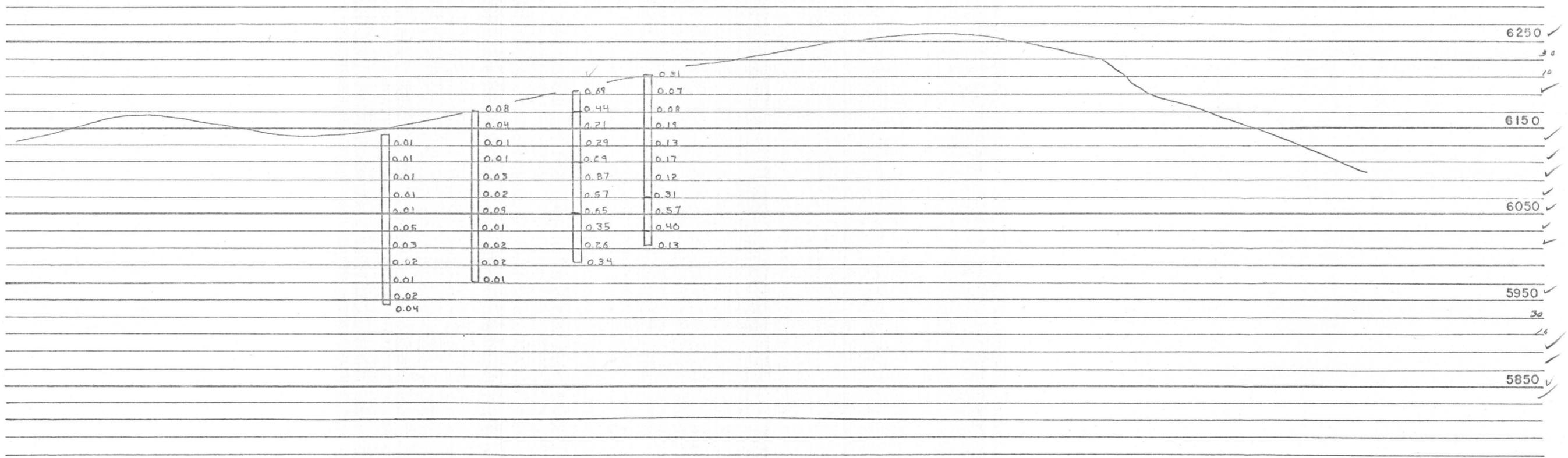


**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 323,900 EAST**  
 SCALE HORZ. & VERT. 1" = 100'



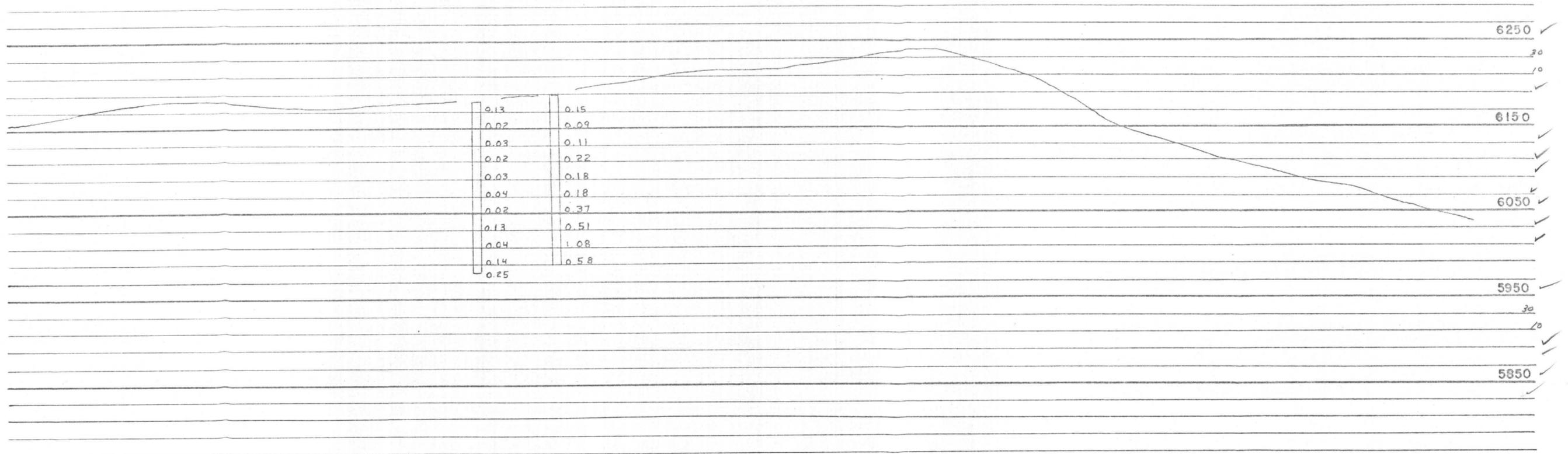
USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER LEACH PIT  
 CROSS-SECTION 324,000 EAST  
 SCALE HORZ. & VERT. 1" = 100'

602,000		601,500	601,000	600,500	324,100E
	1039 ELEV. 6144'	1036 ELEV. 6171'	1035 ELEV. 6192'	1043 1043 ELEV. 6212'	



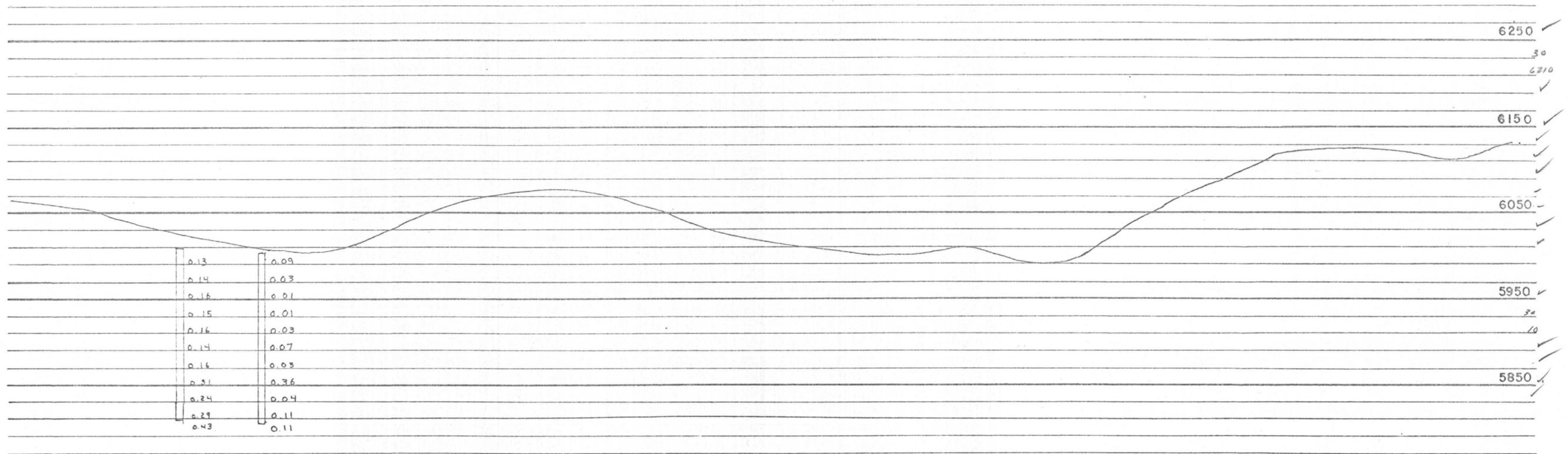
**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 324,100 EAST  
 SCALE HORZ. & VERT. 1" = 100'

602,000		601,500	601,000	600,500	32 4,200E
	● 1031 ELEV. 6182'	● 1030 ELEV. 6190'			



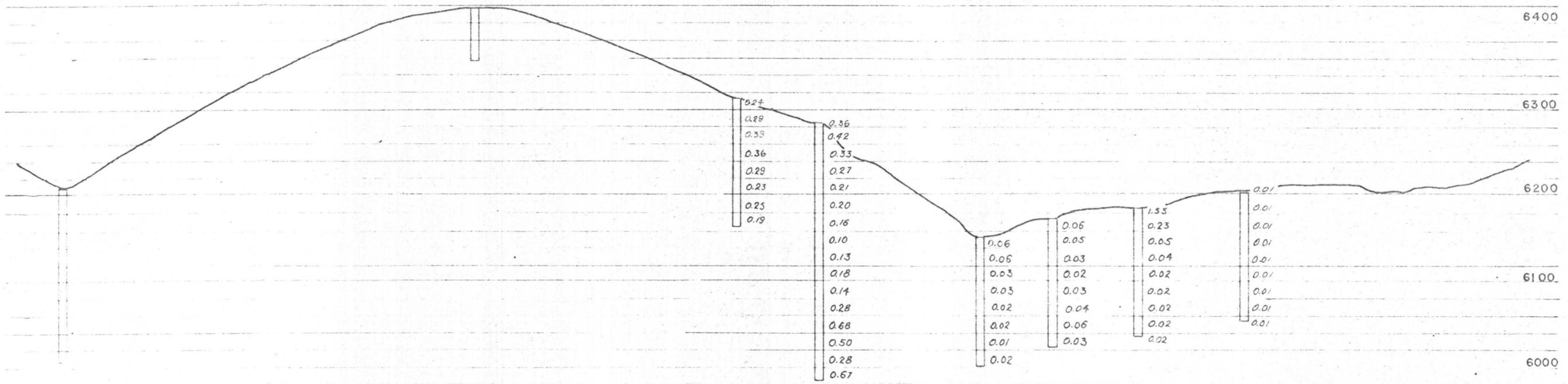
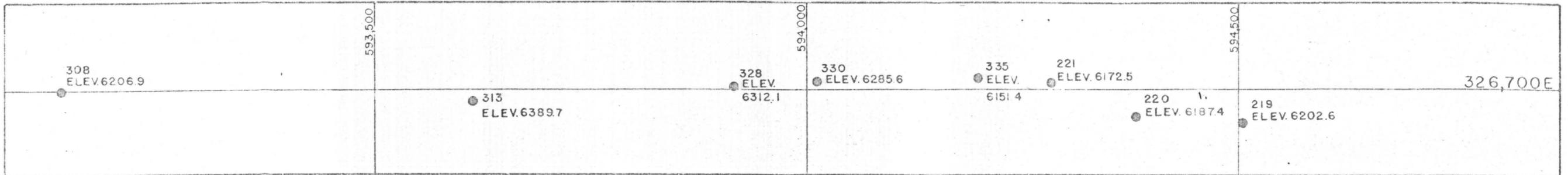
**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
 CROSS-SECTION 324,200 EAST  
 SCALE HORZ. & VERT. 1" = 100'

602,000	601,500	601,000	600,500	324,800E
1045 ELEV. 6009'	1046 ELEV. 6005'			

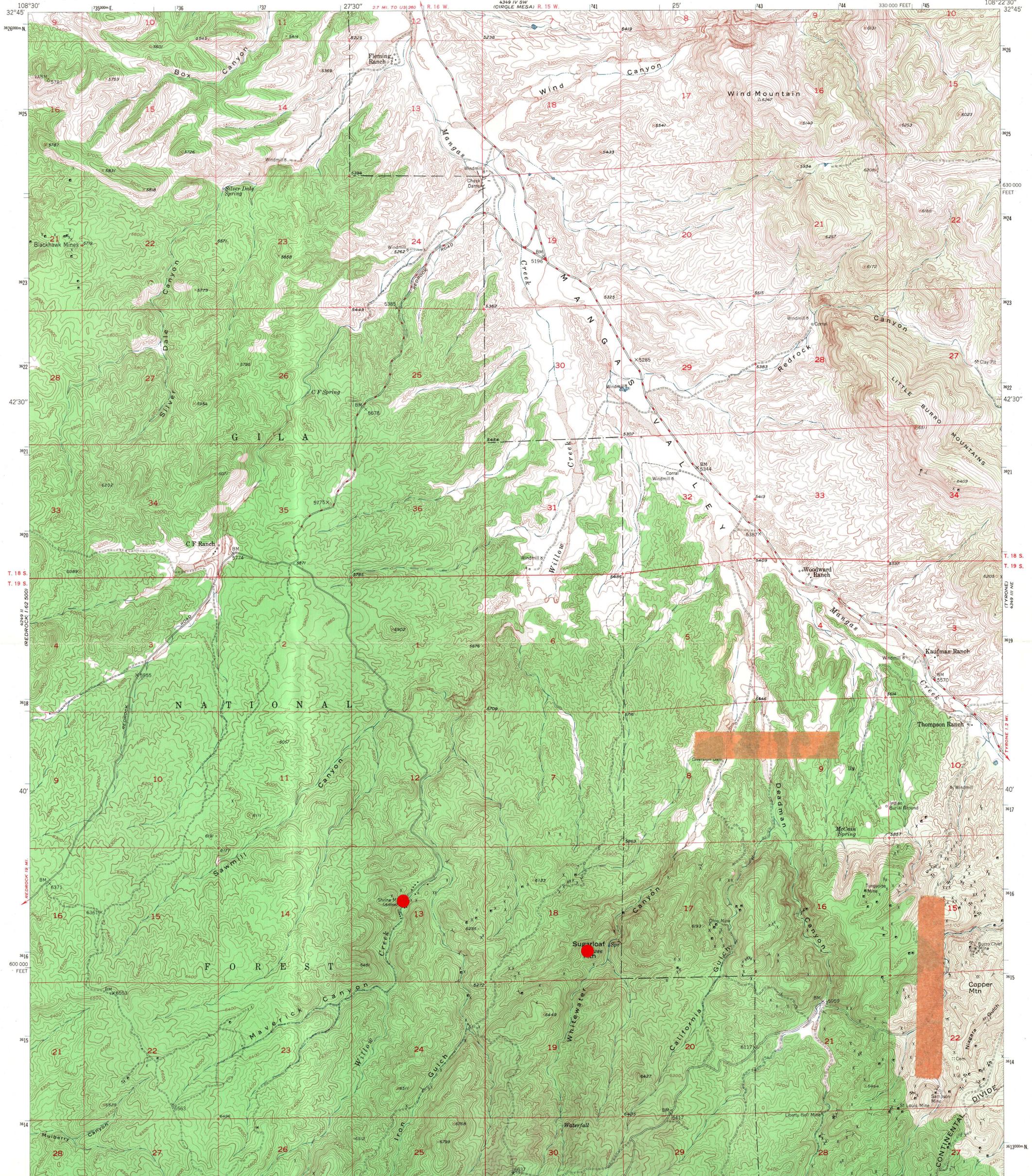


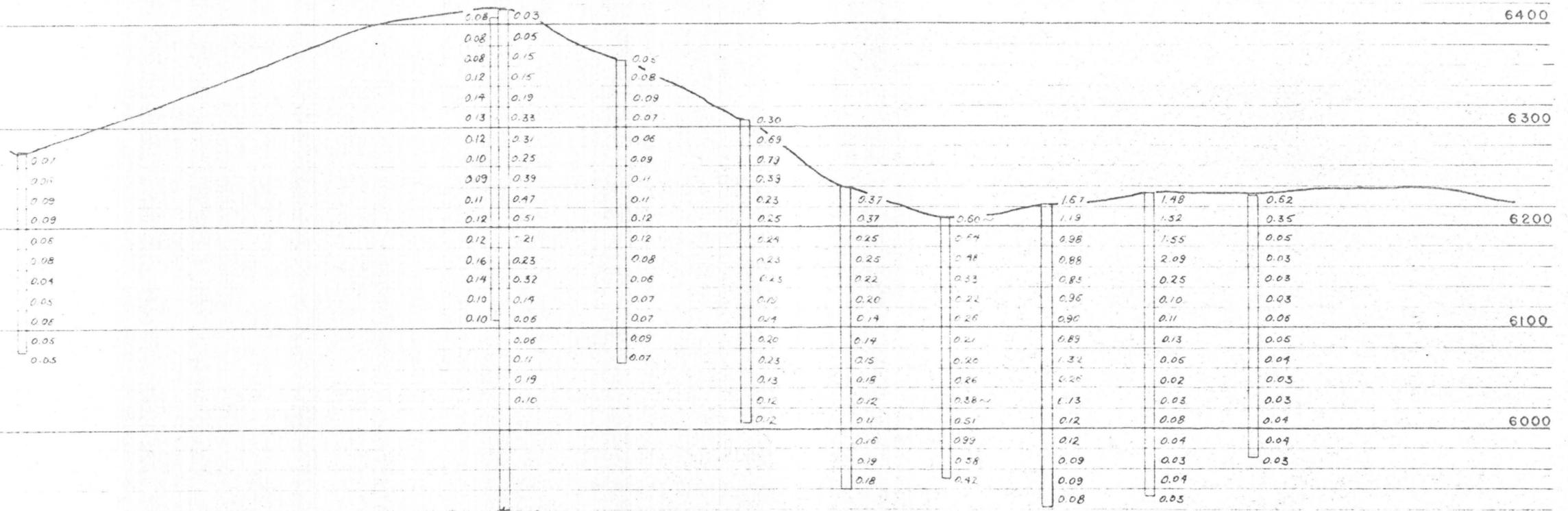
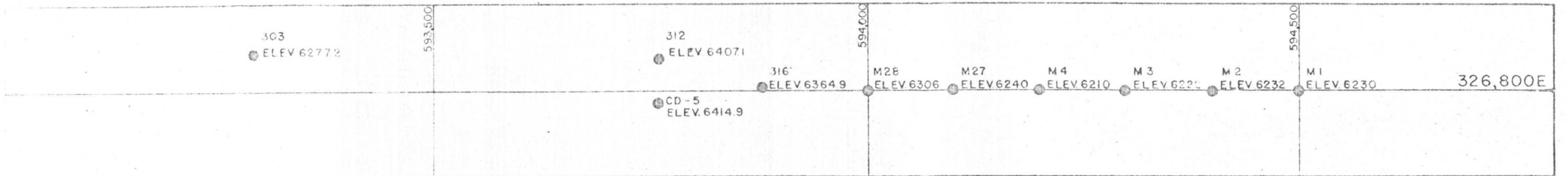
**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 324,800 EAST**  
 SCALE HORZ. & VERT. 1" = 100'



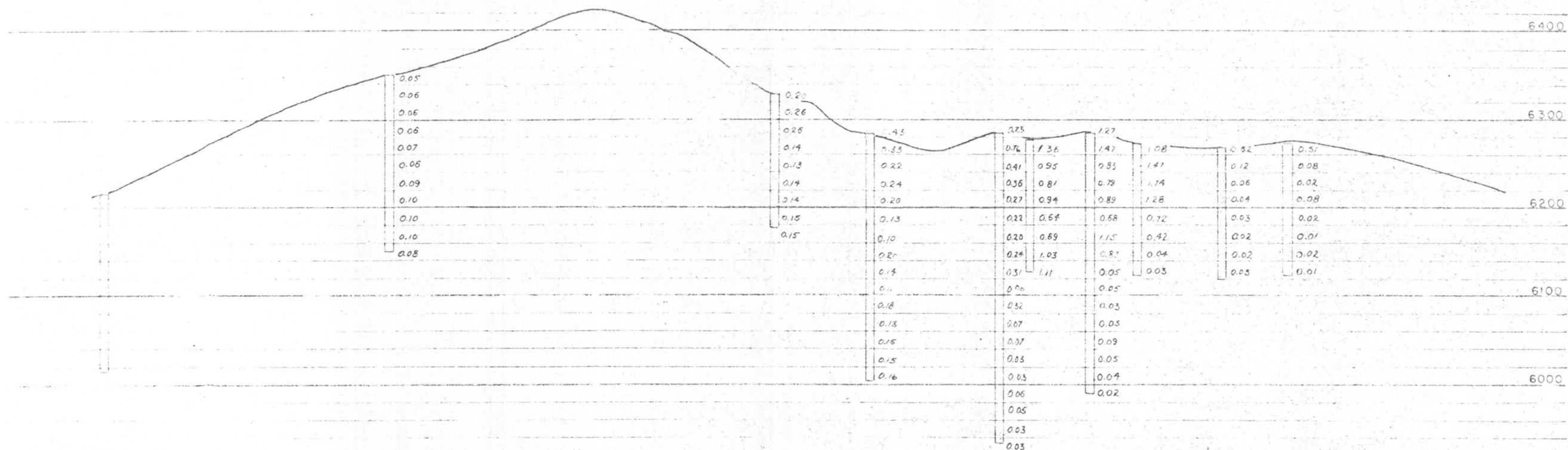
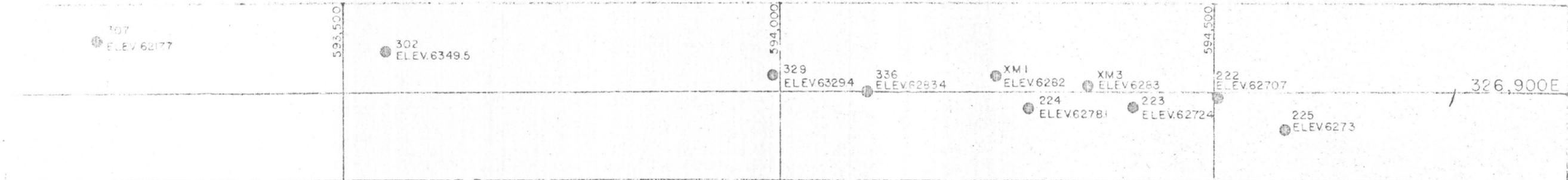


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 326,700 EAST  
 SCALE HORZ. & VERT. 1"=100'

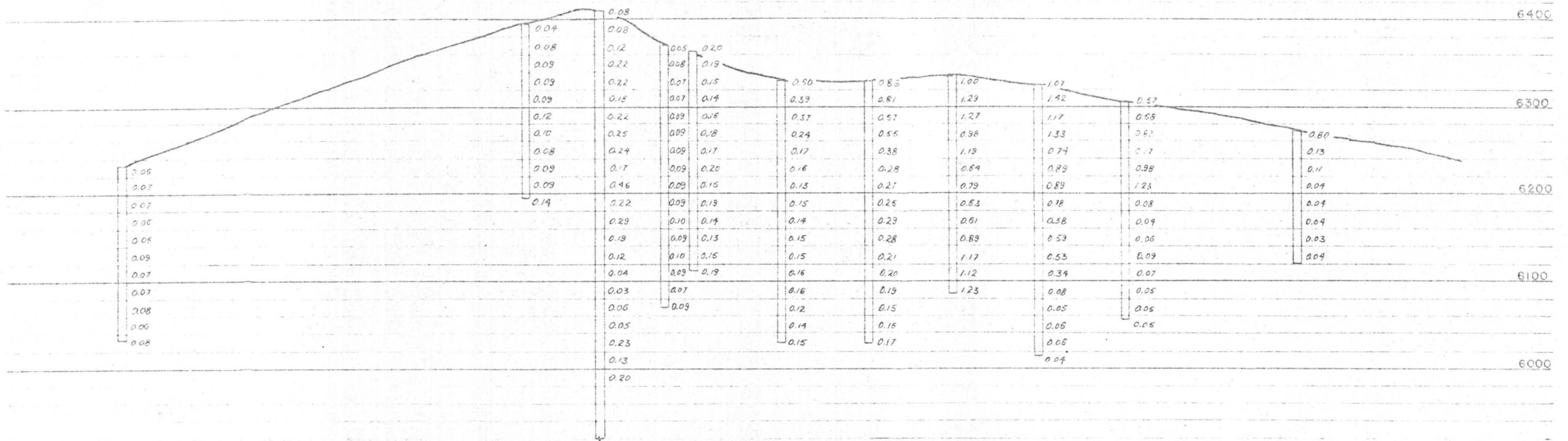
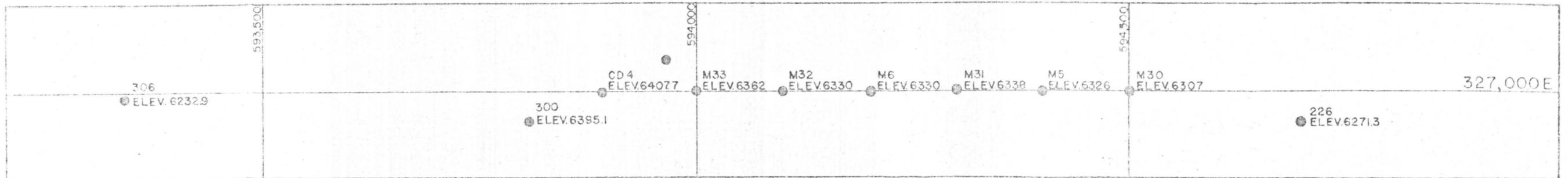




USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 326,800 EAST  
 SCALE HORZ. & VERT. 1" = 100'

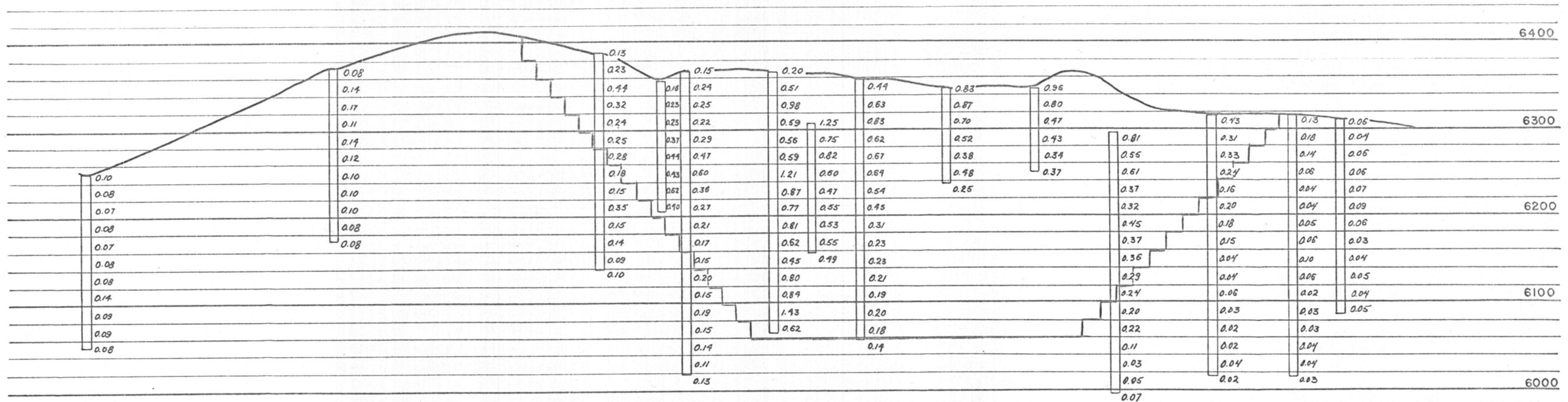
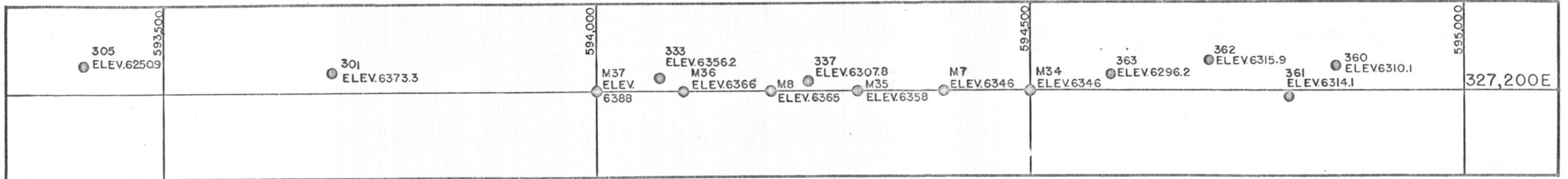


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 326,900 EAST  
 SCALE HORZ. & VERT. 1" = 100'



USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 327,000 EAST  
 SCALE HORZ. & VERT. 1" = 100'



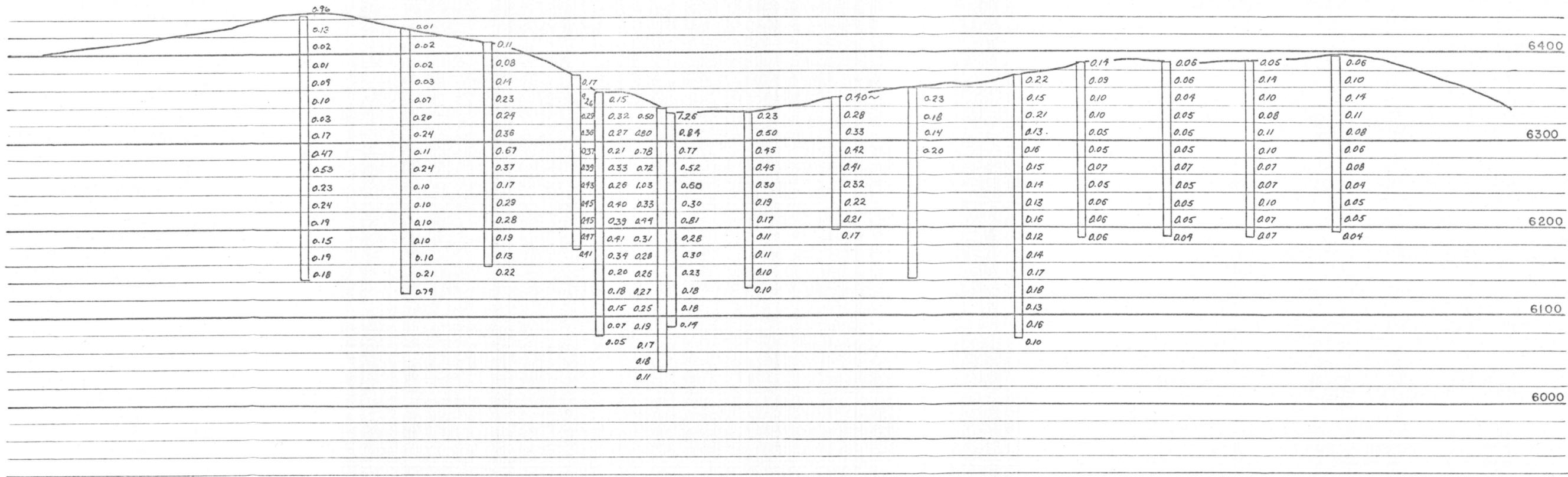
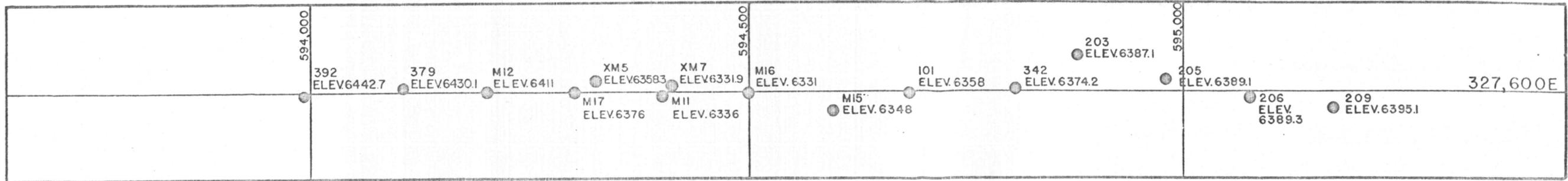


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 327,200 EAST  
 SCALE HORZ. & VERT. 1" = 100'





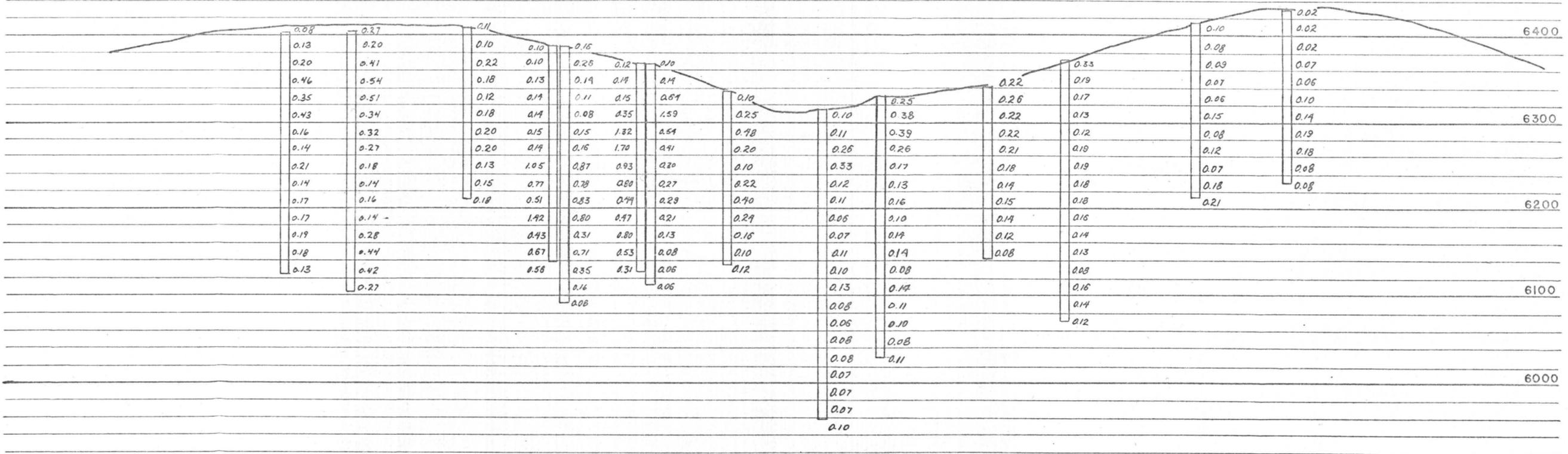
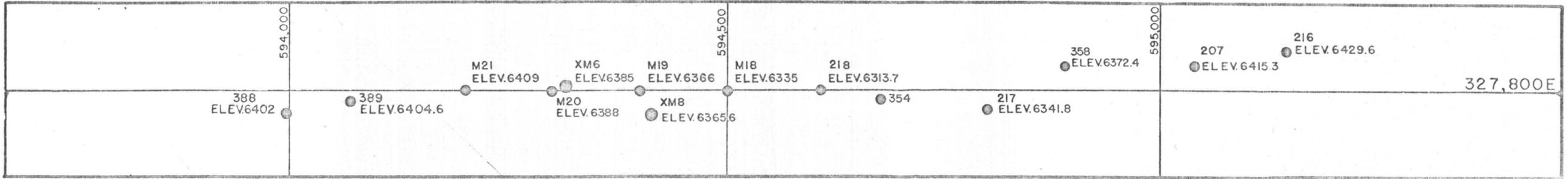




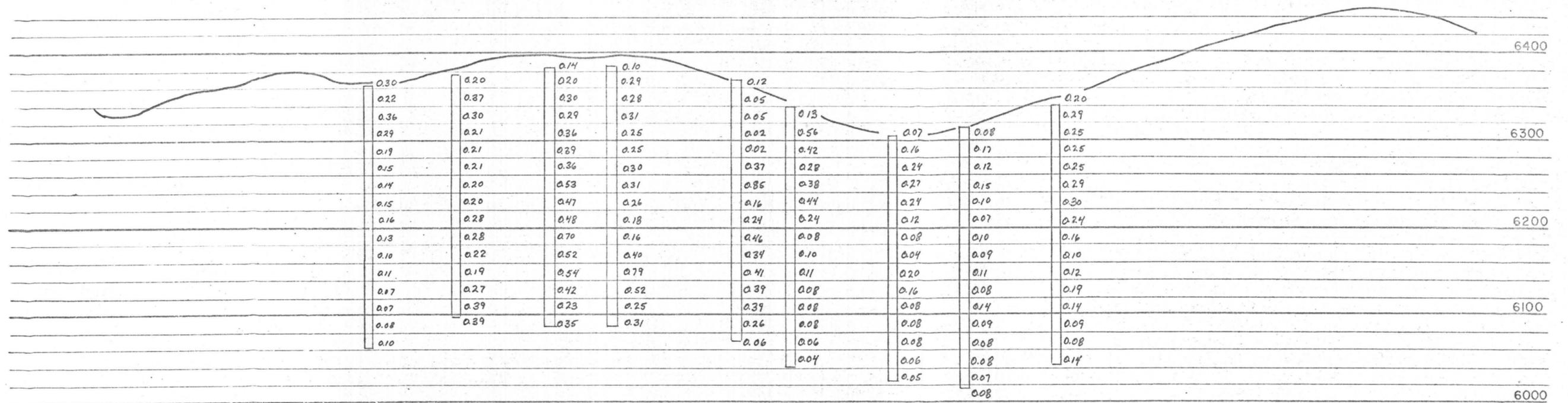
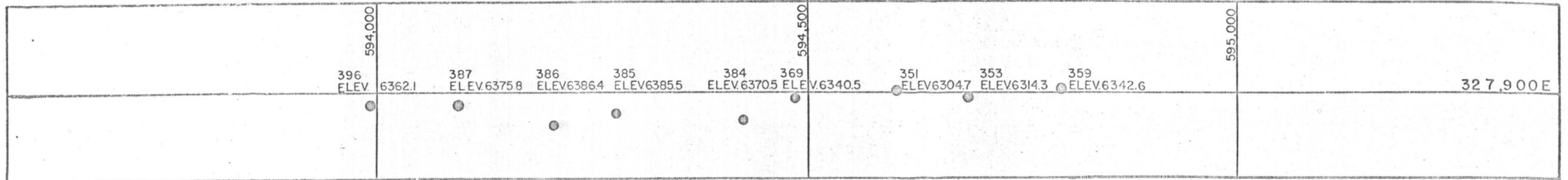
USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 327,600 EAST  
 SCALE HORZ. & VERT. 1" = 100'



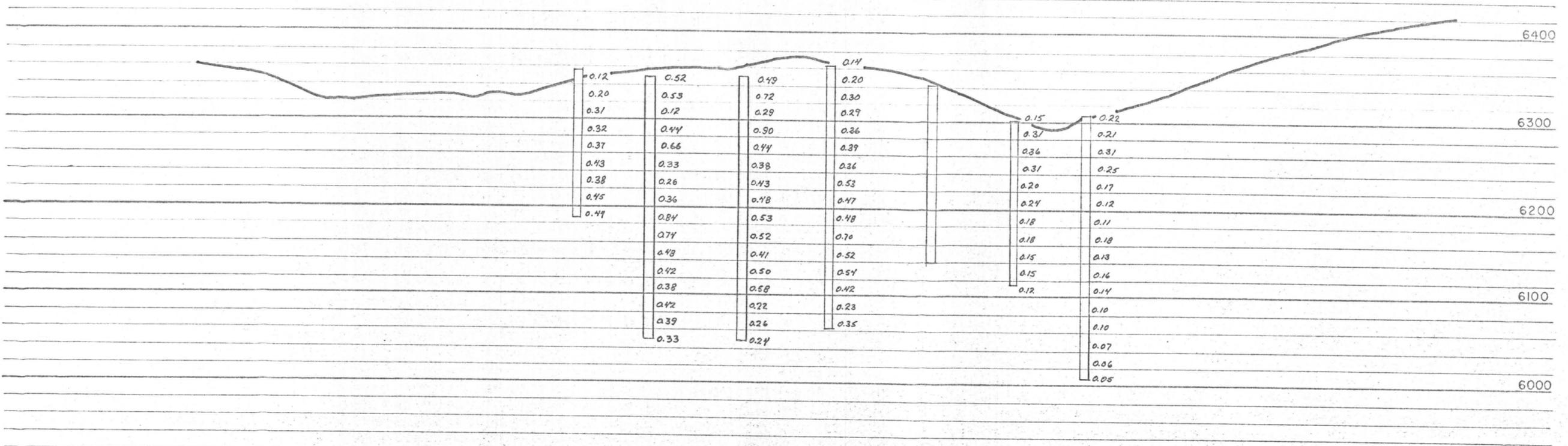
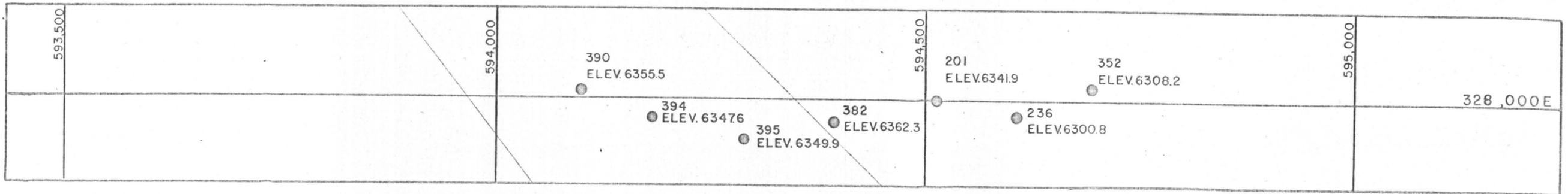




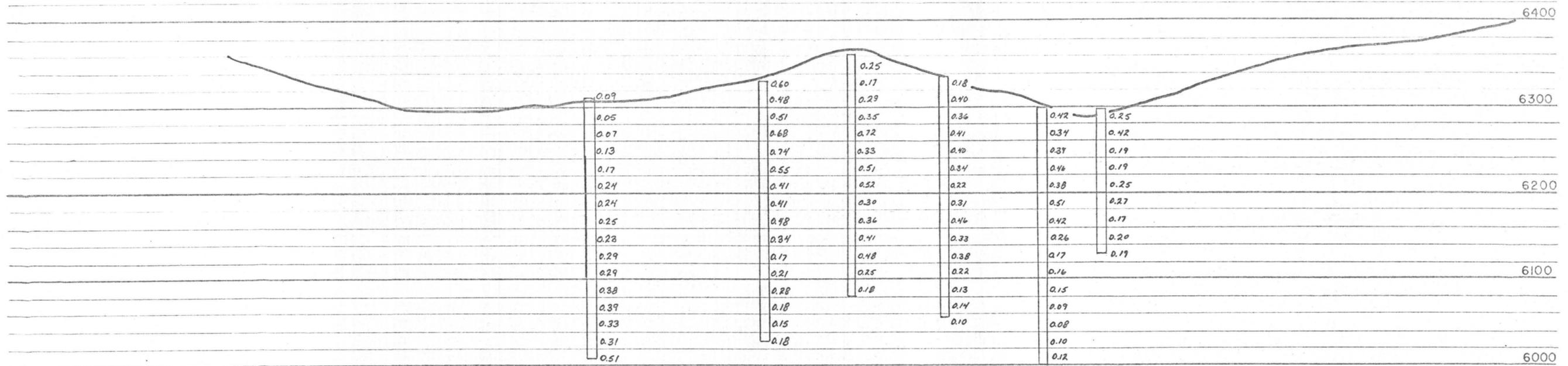
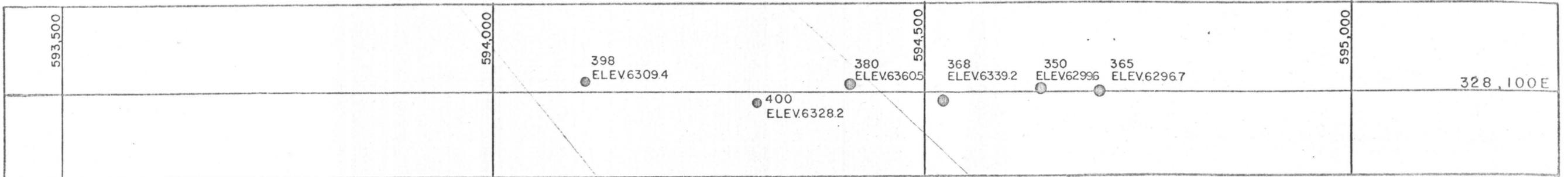
USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 327,800 EAST  
 SCALE HORZ. & VERT. 1" = 100'



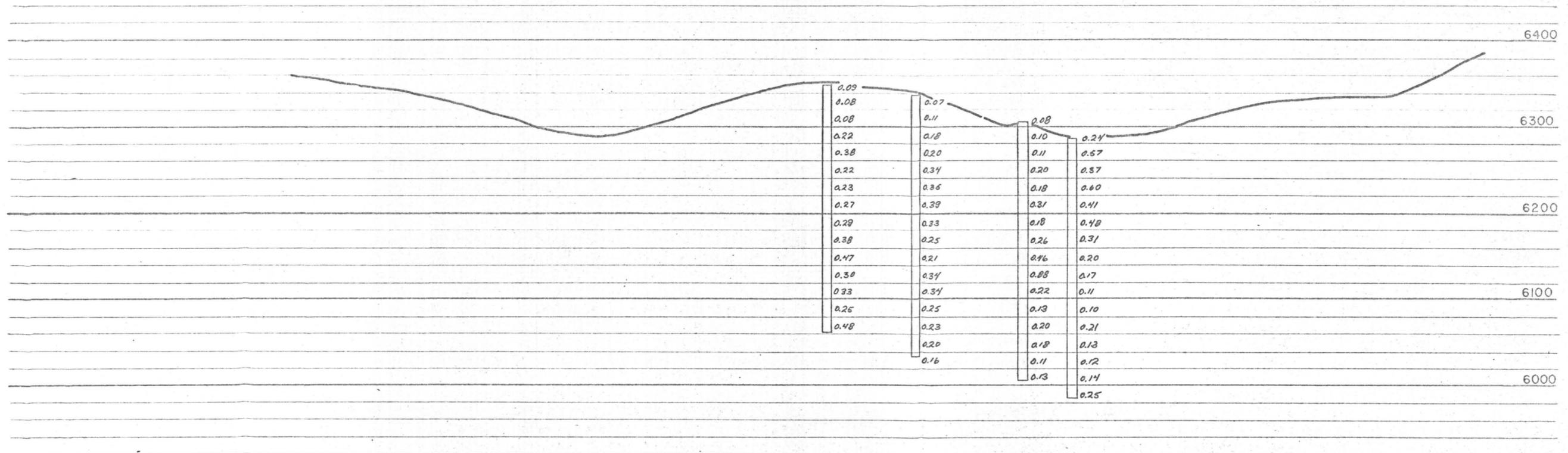
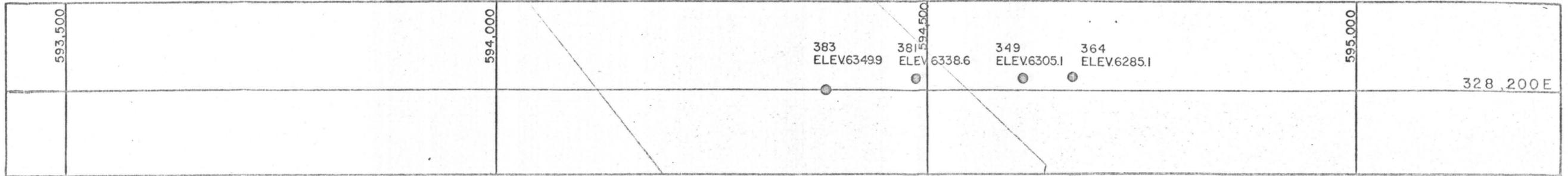
USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 327,900 EAST  
 SCALE HORZ. & VERT. 1" = 100'



USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 328,000 EAST  
 SCALE HORZ. & VERT. 1" = 100'

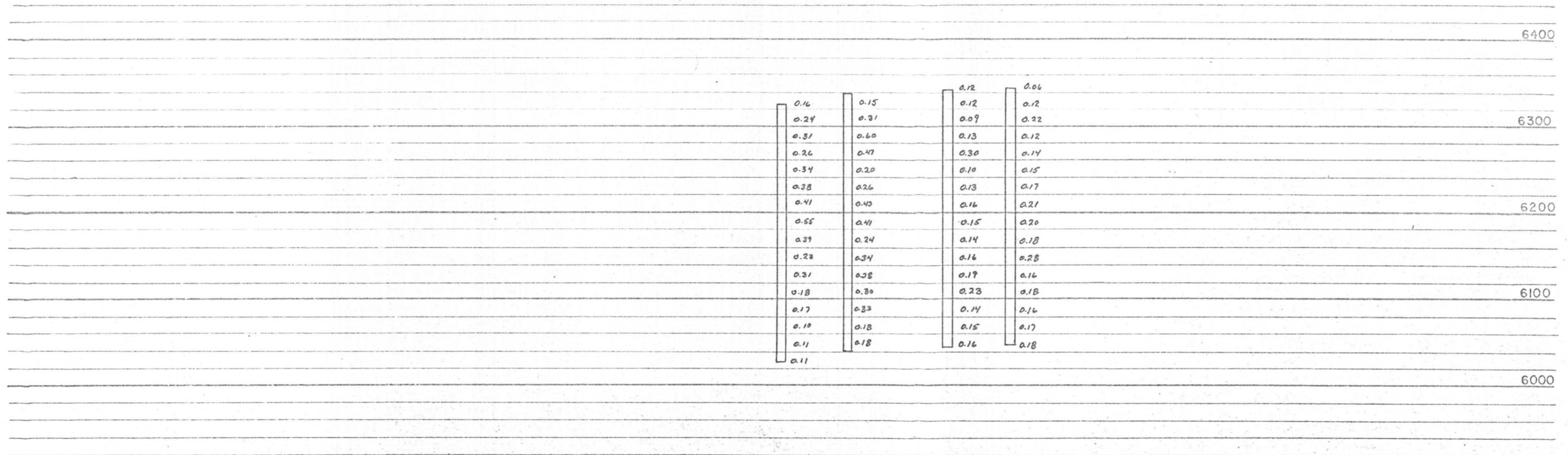
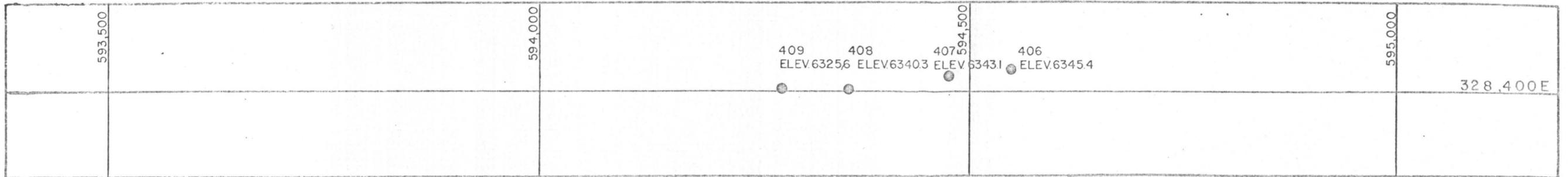


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 328,100 EAST  
 SCALE HORZ. & VERT. 1" = 100'

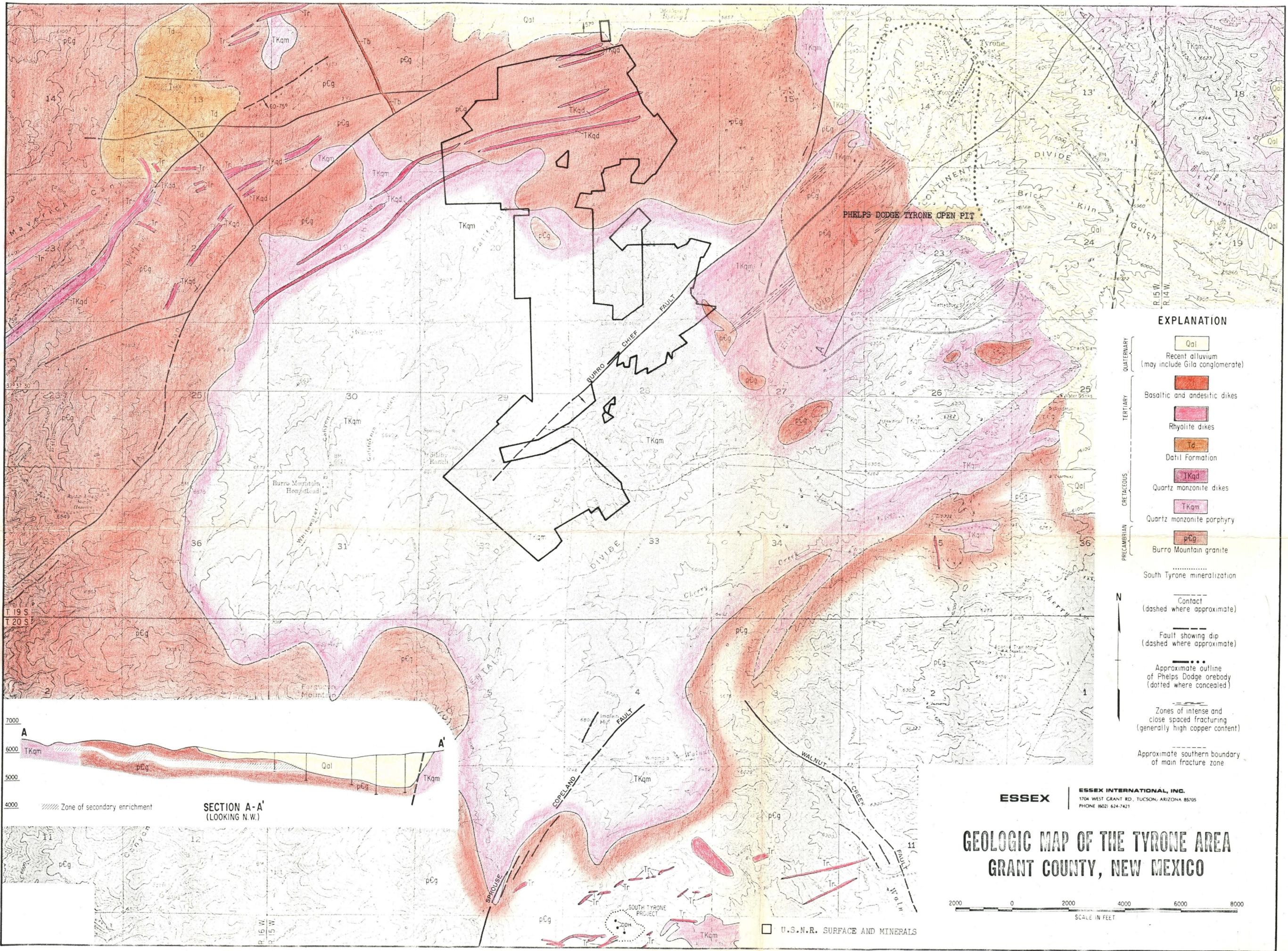


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 328,200 EAST  
 SCALE HORZ. & VERT. 1" = 100'



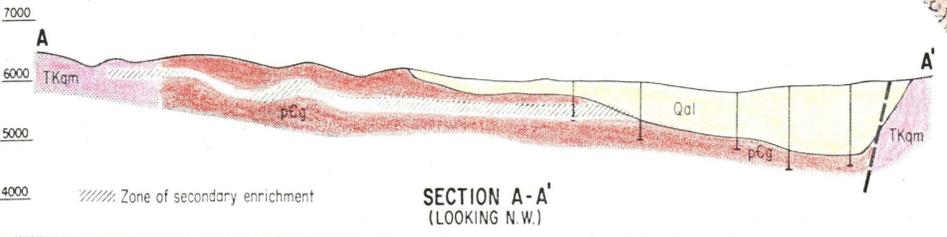


USNR MINING & MINERALS, INC.  
 COPPER MOUNTAIN MINE  
 COPPER MOUNTAIN PIT  
 CROSS-SECTION 328,400 EAST  
 SCALE HORZ. & VERT. 1" = 100'



**EXPLANATION**

- QUATERNARY
  - Qal Recent alluvium (may include Gila conglomerate)
- TERTIARY
  - Basaltic and andesitic dikes
  - Rhyolite dikes
  - Tc Datil Formation
- CRETACEOUS
  - TKad Quartz monzonite dikes
  - TKqm Quartz monzonite porphyry
- PRECAMBRIAN
  - pCg Burro Mountain granite
- South Tyrone mineralization
- Contact (dashed where approximate)
- Fault showing dip (dashed where approximate)
- Approximate outline of Phelps Dodge orebody (dotted where concealed)
- Zones of intense and close spaced fracturing (generally high copper content)
- Approximate southern boundary of main fracture zone



**SECTION A-A'**  
(LOOKING N.W.)

**ESSEX** | **ESSEX INTERNATIONAL, INC.**  
1704 WEST GRANT RD., TUCSON, ARIZONA 85705  
PHONE (602) 624-7421

**GEOLOGIC MAP OF THE TYRONE AREA**  
**GRANT COUNTY, NEW MEXICO**



U.S.N.R. SURFACE AND MINERALS



1. Essex - USNR management Agreement
2. Essex pays USNR % of Operating Profit before Depr. & Depl. as follows: starting in 1973 and until Essex recovers all of its Capital USNR is paid 25% of Operating Profit; then 50% of the Operating Profit.
3. In addition Essex pays USNR \$ 120,000 in 1972
4. Essex receives a % of the Gross Income for its Management Expenses & Over head as follows: 5% of 1st. \$3,000,000, 4% of next \$2,000,000 then 3% of the balance.

A. Copper Mountain Mine		
1.	7,088,000 Tons	0.46% Cu
2.	1,143,000 "	0.61% "
	8,321,000 "	0.476% "
B. Copper Leach Mine		
1.	1,572,000 Tons	0.48% "
C. Total Reserves		
	14,146,000 tons	

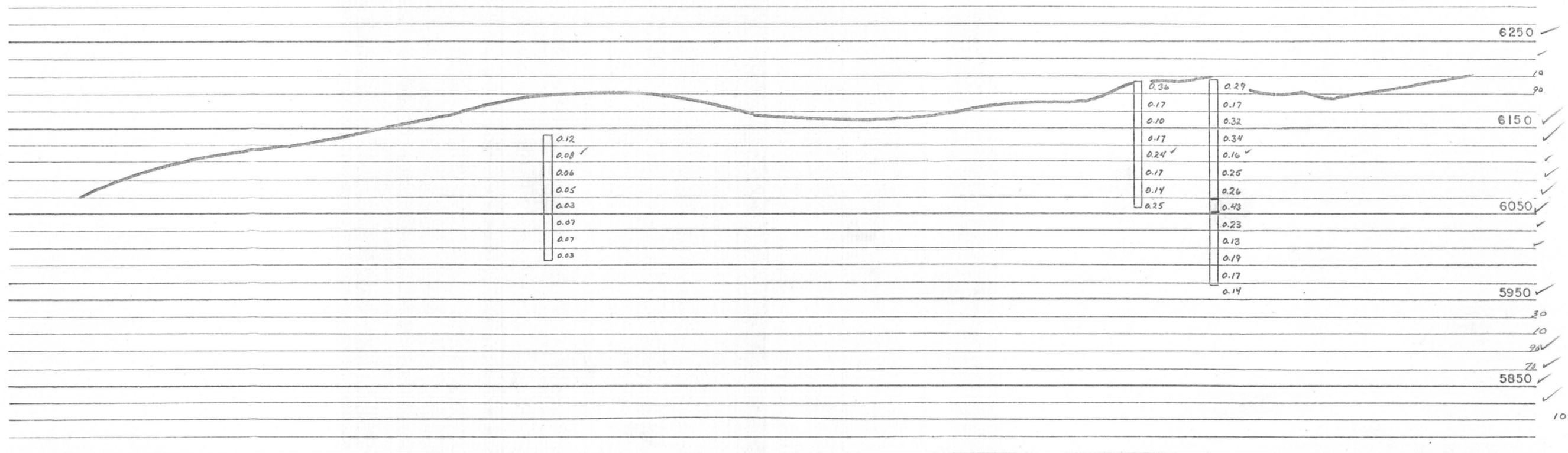
1. Open Pit Mines ... Two Mines
2. One Milling Plant:  
 Crush/Screen making two products  
 2700 TPD a. Coarse size 5/8" x 6 mesh  
 1300 " b. Fine " minus 6 mesh  
 Vat leach coarse size... Mech. Agitate Fine size  
 Make liquid-solid separation using C.C.D. techniques
3. Process Cu solutions with LIX - EW to produce EW Cathode copper. Selling price 51.5¢/lb.
4. Lease/Rent/Option all mining equipment  
 " " " mobile equipment for crusher & vats  
 " " " Crushing & Screening equipment.

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	TOTALS
<b>Copper Production</b>													
1. Copper Mtn. Mine lbs. x 1000		3403	10136	10136	10136	10136	10136	5510					59593
2. Copper Leach Mine " "								4601	10080	10080	10080	6417	41258
<b>Capital Investment</b>													
1. Ore Reserves & Metallurgical Study	100												
2. Acquire Land Surface Rights	150												
3. Water, Install Pumps & Line	150												
4. Process Plant, Engr. & Design		267											
5. " " Construction		2735						775					
6. Working Capital		400											
<b>Economic Evaluation</b>													
Gross Income, Cu Sales @ 51.5¢		1752	5220	5220	5220	5220	5220	5207	5191	5191	5191	3305	51937
Less Operating Costs		(1095)	(2384)	(2384)	(2384)	(2384)	(2384)	(2699)	(2966)	(2966)	(2966)	(1943)	26555
" Royalty P.D. & MacA.		PD (72)	PD (217)	(182)	MPA (140)	(140)	(140)	(94)	1853				
" Lease / Rental		(294)	(529)	(529)	(529)	(529)	(408)	(255)	(255)	(255)	(255)	(173)	4011
" Property Rental USNR		(120)											120
" Essex Management Expense	(25)	(88)	(237)	(237)	(237)	(237)	(237)	(235)	(235)	(235)	(235)	(157)	2395
Operating Profit before D. & D.	(25)	83	1853	1853	1853	1853	1853	1836	1595	1595	1595	938	16907
" " Essex (loss)	(25)	83	.75 1389	.75 1389	.75 1389	.75 1389	.5 926	918	797	797	797	469	10318
Less Essex Depreciation		(213)	(449)	(359)	(287)	(230)	(120)	(182)	(228)	(179)	(179)	(114)	2540
Essex Operating Profit	(25)	(130)	940	1030	1102	1159	806	736	569	618	618	355	7778
Less Depletion		cost (5)	(470)	(515)	(551)	(579)	(403)	(368)	(284)	(309)	(309)	(177)	(3970)
Taxable Income	(25)	(135)	470	515	551	580	403	368	285	309	309	178	3970
Taxes @ 53 %	13.2	71.5	249	273	292	307	214	195	151	164	164	94	2188
Essex net Profit (loss)	(11.8)	(63.5)	221	242	259	273	189	173	134	145	145	84	1790
<b>CASH FLOW</b>													
NET Earnings (loss)	(11.8)	63.5	221	242	259	273	189	173	134	145	145	84	1790
Add Depreciation		213	449	359	287	230	120	182	228	179	179	114	2540
" Depletion		5	470	515	551	579	403	368	284	309	309	177	3970
" Net Management charge		13	162	162	162	162	162	160	160	160	160	107	1570
Less Interest Cost 8%	(10.6)	(125)	(292)	(212)	(126)	(36)	PAID OUT						802
" Capital Investment	(400)	(3002)						(775)					4177
" Working Capital		(400)											400
Cash Flow In (Out)	(422.4)	(3232.5)	1010	1066	1133	1208	874	108	806	793	793	482	4618
Cum. " " In (Out)		(3654.9)	(2644.9)	(1579)	(446)	762	1636	1744	2550	3343	4136	4618	
													ADD WORKING CAPITAL CREDIT
													400
													5018
PAY OUT - 3.7 YRS. FROM START OF OPERATION D.C.F. R.O.I - CASH FLOW - 21.47% (P.W. = 3,654,900) " " 4.4 " " DATE OF AGREEMENT " " " + W.C. - 21.88% A. PRESENT WORTH OF PROJECT DISCOUNTED @ 21.47% FOR 10 YRS = \$ 3,654,900 B. " " " " " " @ 10% " " = \$ 5,431,000													
USNR Share of Operating Profits		120	464	464	464	464	926	918	797	797	797	469	6680

C 98  
9/15/71



602,000	601,500	601,000	600,500	321,400E
	1004 ● ELEV. 6145'		LA-4 ● ELEV. 6206'      LA-3 ● ELEV. 6208'	



**USNR MINING & MINERALS, INC.**  
**COPPER MOUNTAIN MINE**  
 COPPER LEACH PIT  
**CROSS-SECTION 321,400 EAST**  
 SCALE HORZ. & VERT. 1" = 100'