



Bergvesenet

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Rapportarkivet

Bergvesenet rapport nr	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
5238				
Kommer fra arkiv	Ekstern rapport nr	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Elkem Skorovas AS		Skorovas Gr.		
Tittel				
ORE RESERVE ESTIMATION FROM 47 LNØ, LNV, LSV				
Forfatter		Dato	Ar	Bedrift (oppdragsgiver og/eller oppdragstaker)
Ian Jerriday		15.02	1975	
Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Namskogan	Nord-Trøndelag		18242	
Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)		
Malmberegning		Skorovas grube		
Råstoffgruppe	Råstofftype			
Malm/metall	Kis			

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

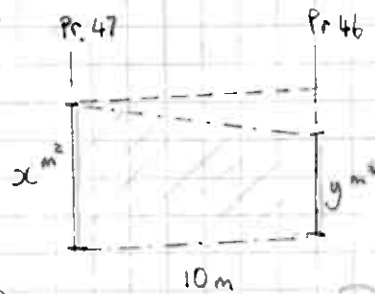
Malmberegningene omfatter bare mindre områder i gruen. Kartunderlag er vedlagt rapporten.

Sheet 1

m²

ORE RESERVE ESTIMATION FROM 47 LND, LNV, LSV

EXAMPLE OF METHOD:



- i) determine m^2 from $\bar{o}-v$ profiles
 ii) volume between profiles $= \left[(x)10 \right] - \left(\frac{x-y}{2} \right)10$ note: use x or y according to $y =$ lesser area

note: this is ideal for perfect rectangles with no dip to N-S profiles
 with low dips there is a small error, but this tends to underestimate the volume of ore between $\bar{o}-v$ profiles rather than over-estimate.

● i) BODIES A+B

a) 48.56-47.56s : 2-4.5V

$$Res = (39 \times 10) - \left(\frac{39-26}{2} \right)10 = 325 m^3$$

: 4.5-6V

$$Res = (50 \times 10) - \left(\frac{50-29}{2} \right)10 = 495 m^3$$

b) 47.56-46s : 2-4.5V

$$Res = (39 \times 15.6) - \left(\frac{39-4}{2} \right)15.6 = 235 m^3$$

: 4.5-6V

$$Res = (50 \times 15.6) - \left(\frac{50-28}{2} \right)15.6 = 608 m^3$$

c) 46-45s : 2-4.5V
 Projections of the A+B bodies do not reasonably occur in this volume.
 $\therefore$ Assumed reserves = 0.

: 4.5-6V.

$$Res = (28 \times 10) - \left(\frac{28-9}{2} \right)10 = 145 m^3$$

6-7V a) 48.56-47.56s

$$Res = (20 \times 10) - \left(\frac{20-10}{2} \right)10 = 150 m^3$$

b) 47.56-46s

$$Res = (28 \times 15.6) - \left(\frac{28-10}{2} \right)15.6 = 304 m^3$$

c) 46-45s

$$Res = (28 \times 10) - \left(\frac{28-9}{2} \right)10 = 185 m^3$$

$\therefore$ Estimated ore reserves (BODIES A,B) : 2-7V, 45-48.56s = 2,447 m³

(assuming s.v = 4.38 (p/m³)) Res = 10,720 tonne

ii) BODIES C, D.

NOTE: RESERVES DIFFICULT TO DETERMINE AS BOTH BODIES (POSSIBLY BEING THE SAME BODY) ARE INTERSECTED ONLY ONCE (D IN upper ventilation shaft), C in upper 47 LNö), AND AT WIDELY SPACED POINTS ON Ö-V PROFILES

Reserve calculations therefore estimate minimum reserves.

a) $48.56 - 47.56 \text{ s.}$

$$\text{Res} = (62 \times 10) - \frac{(62-0)10}{2} = 310 \text{ m}^3$$

b) $47.56 - 46 \text{ s.}$

$$\text{Res} = (62 \times 10) - \frac{(62-6)10}{2} = 340 \text{ m}^3$$

c) $46 - 45 \text{ s.}$

$$\text{Res} = (6 \times 10) - \frac{(6-0)10}{2} = 30 \text{ m}^3$$

$\therefore$ Minimum estimate, bodies C, D = 680 m^3 .

ORE GRADES

OREBODY LENS A : 2.2 Cu 1.9 Zn (46.6S, 3.6V)

B : 1.14 Cu 6.4 Zn 43.3S (44.5S, 7.5V)

C : NO CERTAIN ANALYSES AVAILABLE, FROM B.H. 302 : Cu values highest at 1.10 - 2.00%

D : 0.51 Cu 3.12 Zn 34.8S, 0.48 Cu 2.3 Zn 38.3S (47.5S, 6V)

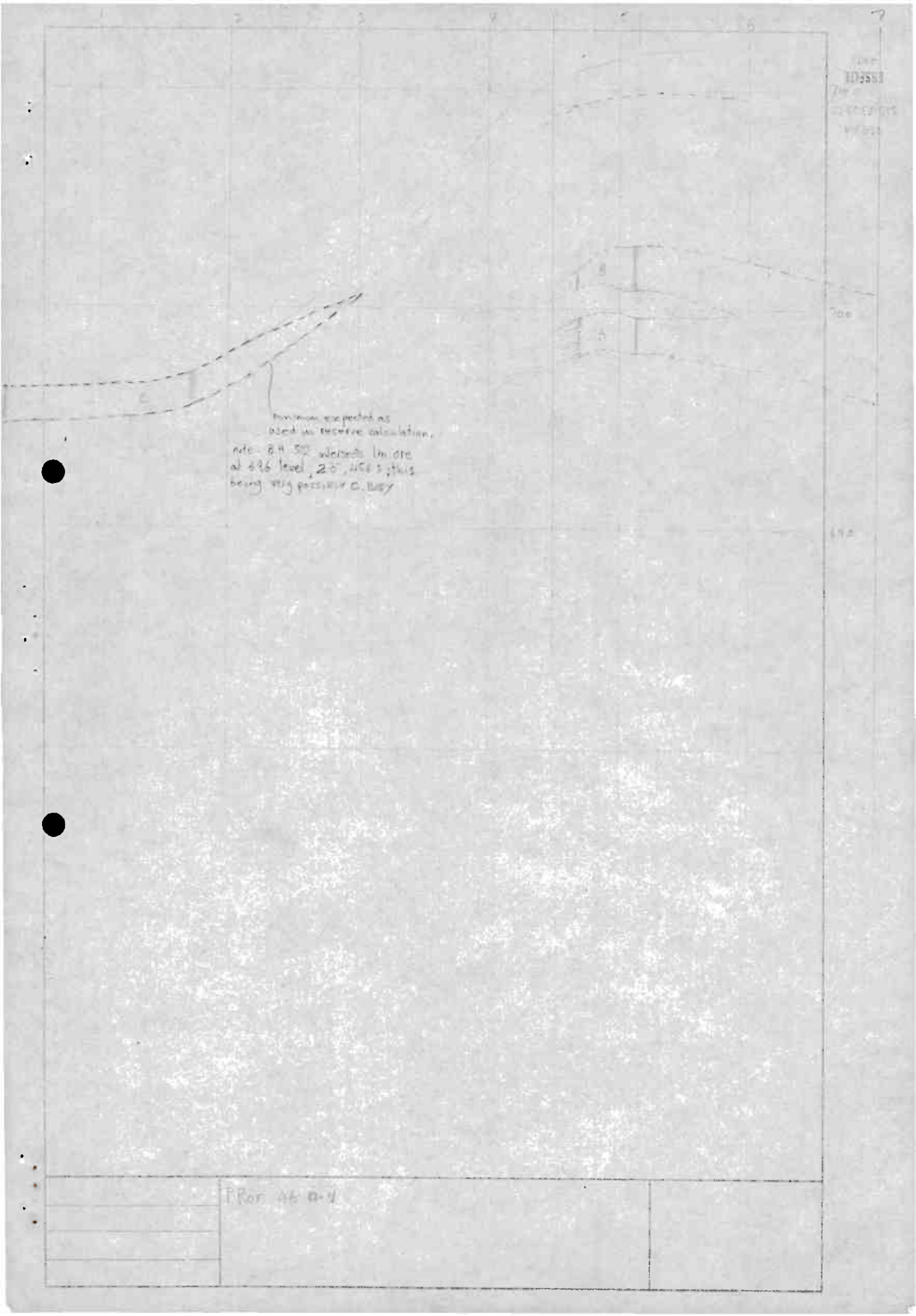
A+B : 0.40 Cu 4.22 Zn 45.7S (47.4S, 4.8V)

1.87 Cu 0.6 Zn 45.4S (48S, 3.5V)

1.18 Cu 44.6S (BH 207, 1V, 686 m.)

Tan ¹Friday 15/2/75.

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Profile expected as
 used in the calculation.
 note: 24 32 wheels inside
 at 296 level, 20' 40" 5, this
 being the possible C. Bay

For at 0-4	

2

3

4

5

6

7

10-
101803

10000 15
20000

13 m

107 m

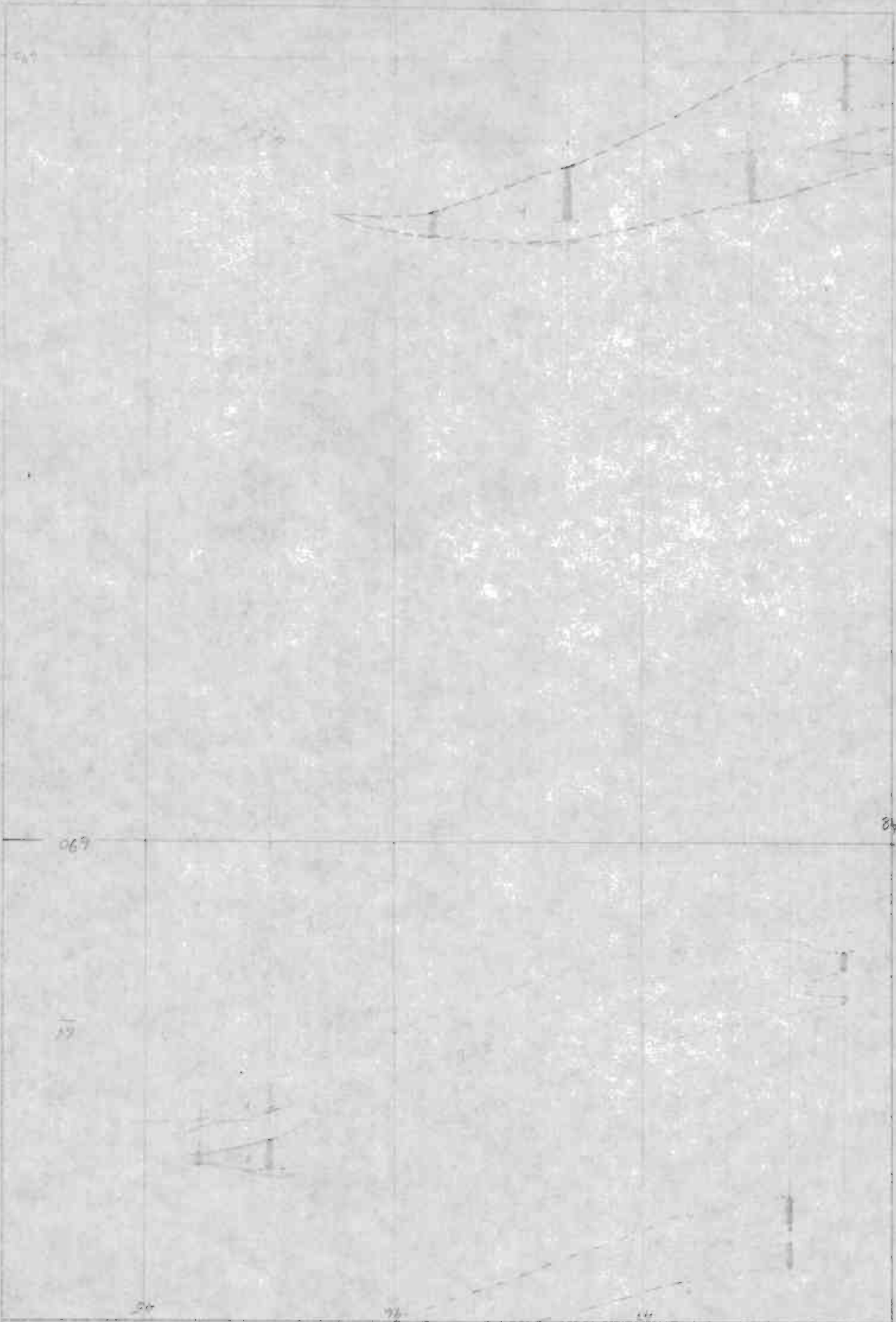
A - B

proposed
from 0

PROFILE ON 57-86

7343553

PROF 4856 S



	N S profiles 47 LNV - FL 48 - VENT SHAFT.	1.00 M.H.
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670

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7/5



6

4

7

0



PR. 45 5-V