

O.G. + W.C. (Observed Gravity Anomaly  
including water depth correction)  
in milligals, assuming  $\sigma = -1.3 \text{ gm/cm}^3$

W.D = water depth in feet

regional anomaly involves

- (a) regional geological anomaly
- (b) terrain effect as profiles approach shore line
- (c) latitude effect as profiles go from S  $\rightarrow$  N  
 $\sim 0.22 \text{ mgals/1000'}$

$\rightarrow$  Water depth correction

is  $+0.01695 \text{ mgals/ft of water}$

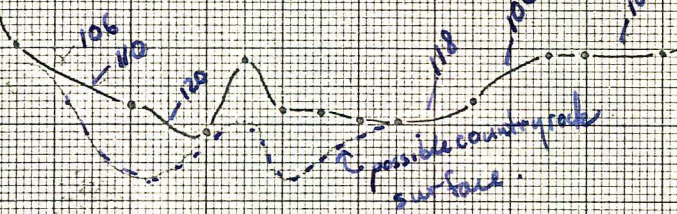
using  $\sigma = -1.3 \text{ gm/cm}^3$

Obs. gravity + Water Depth Correction (mgals.)

Line 74-W

0 W.D.  
20  
40  
60  
80  
100  
120  
Water Depth (ft)

Water Depth (W.D.)



Obs. Gravity (corrected for varying W.D.)

↓ 70 mgals

Residual

↑ Interpreted Regional Anomaly

possible effects

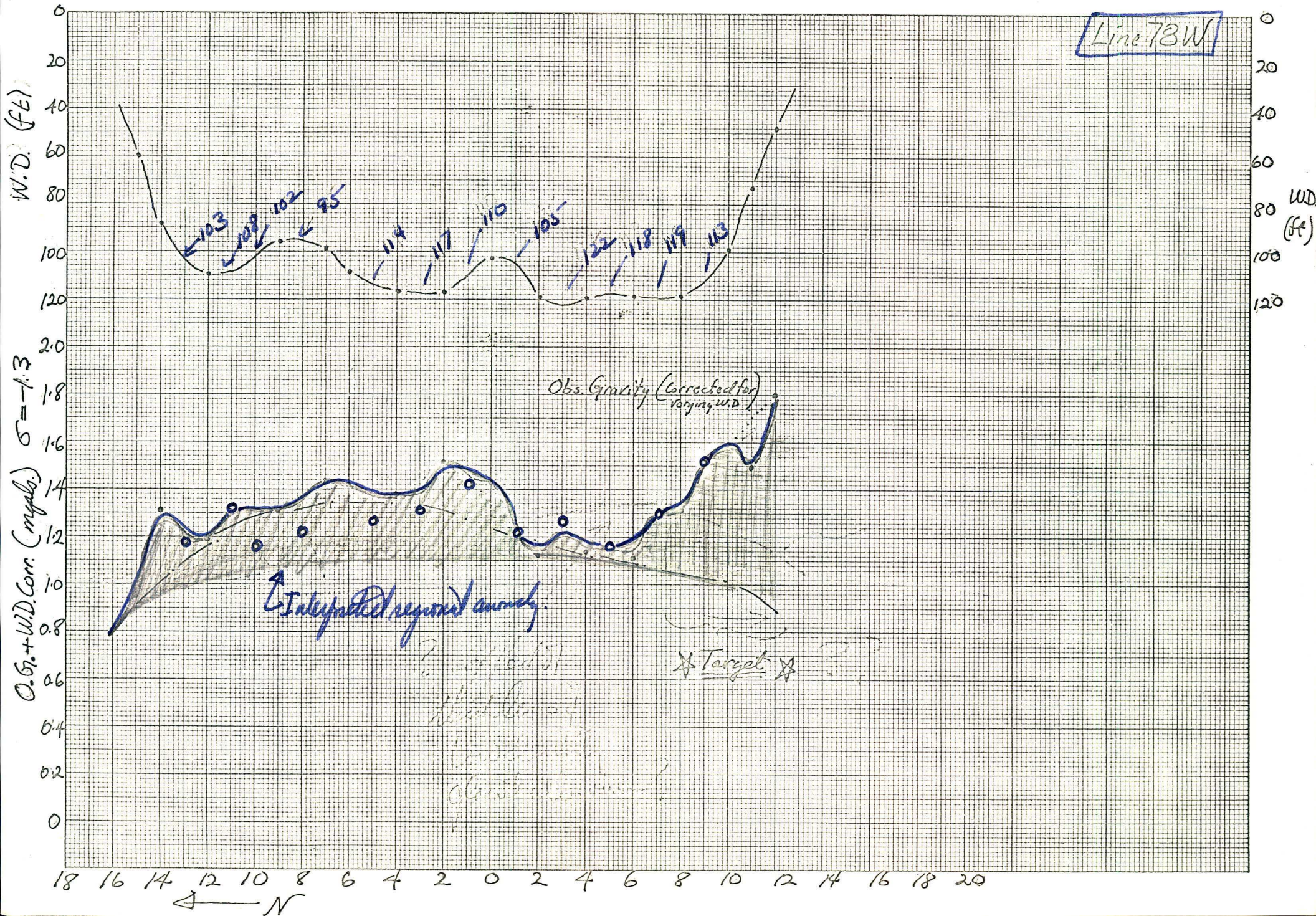
noise possible effects ice oscillations (20-0.05 mgals.)

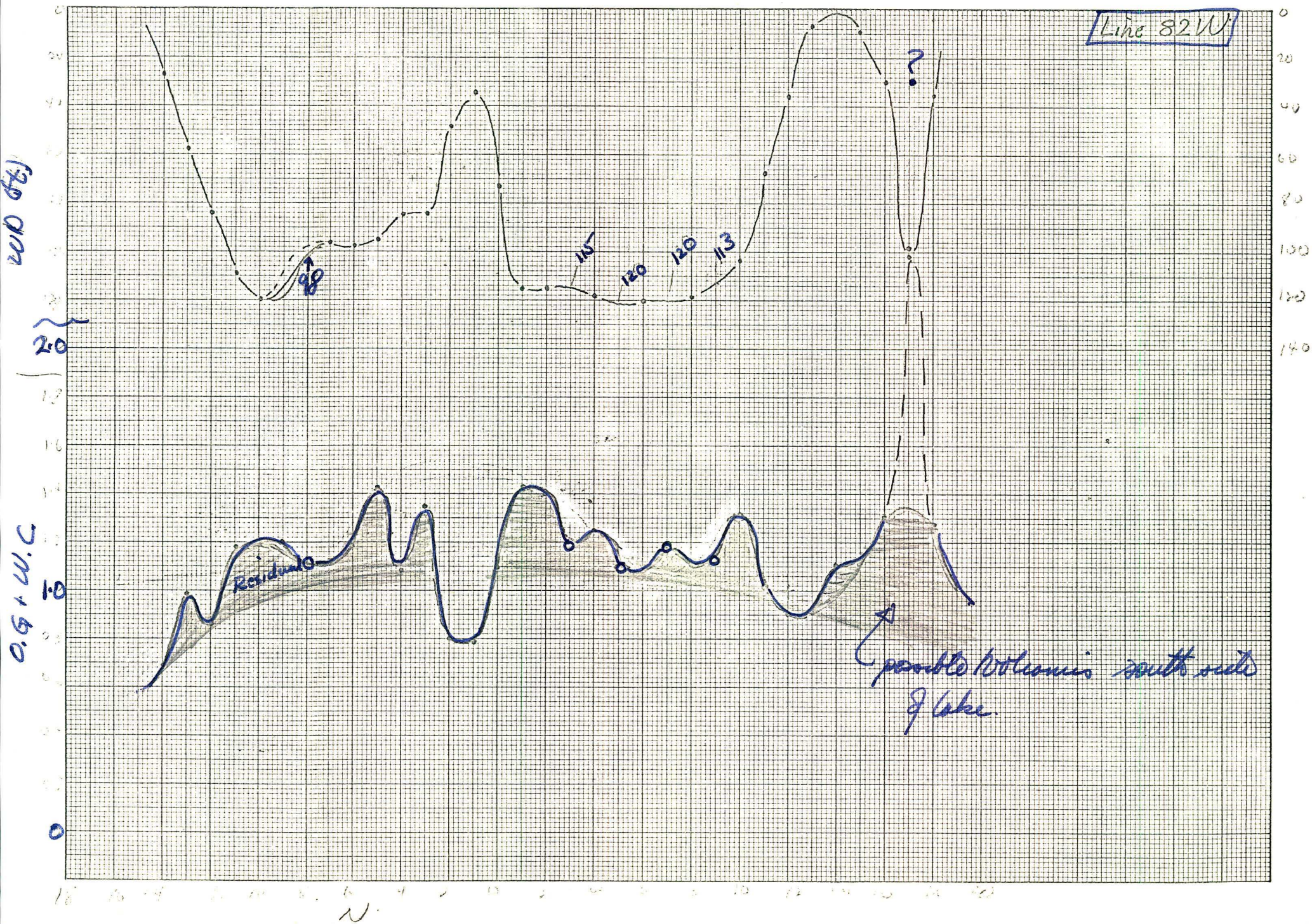
○ using true water depth  
 ⊙ using interpolated water depth

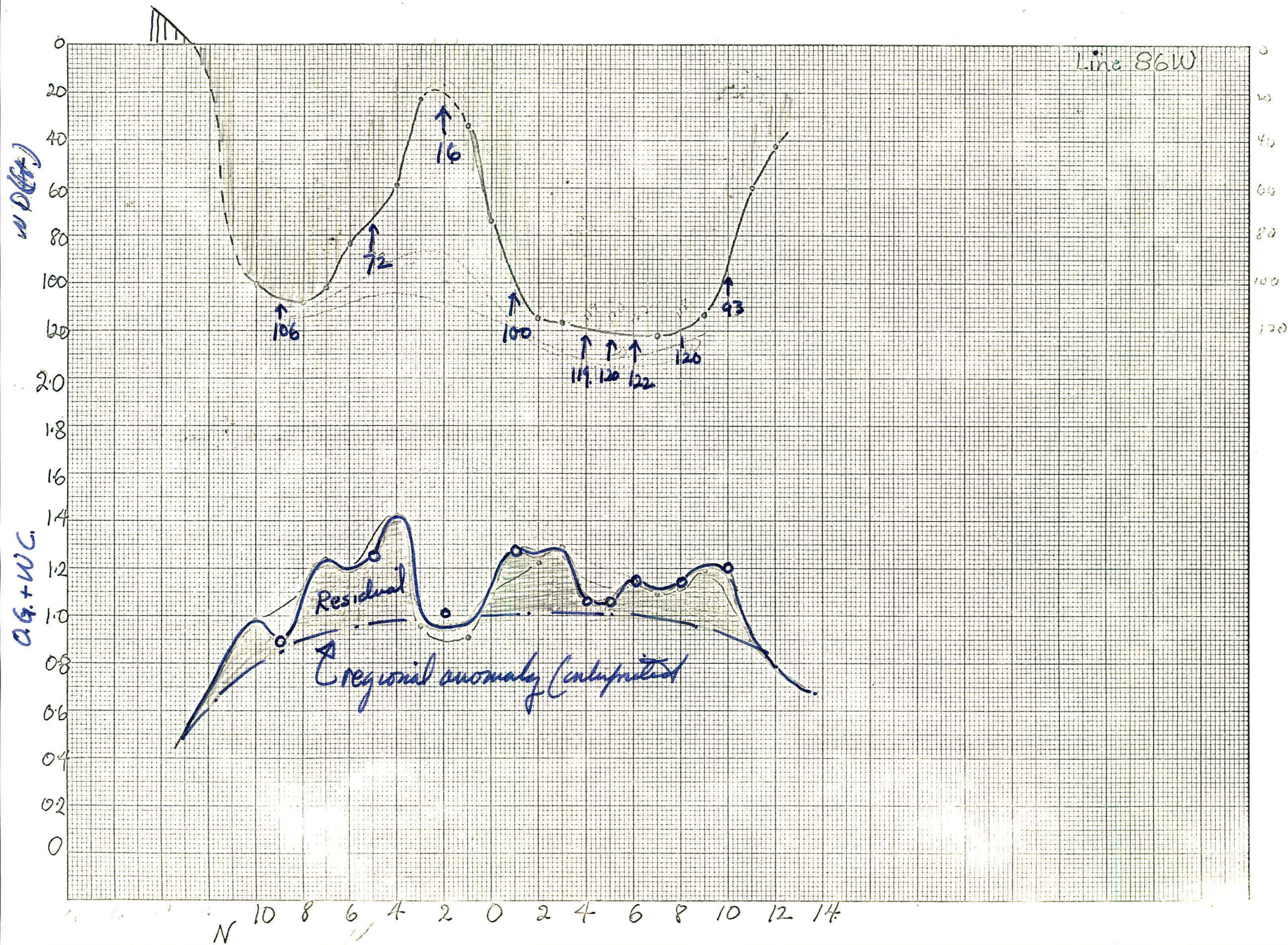
18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16

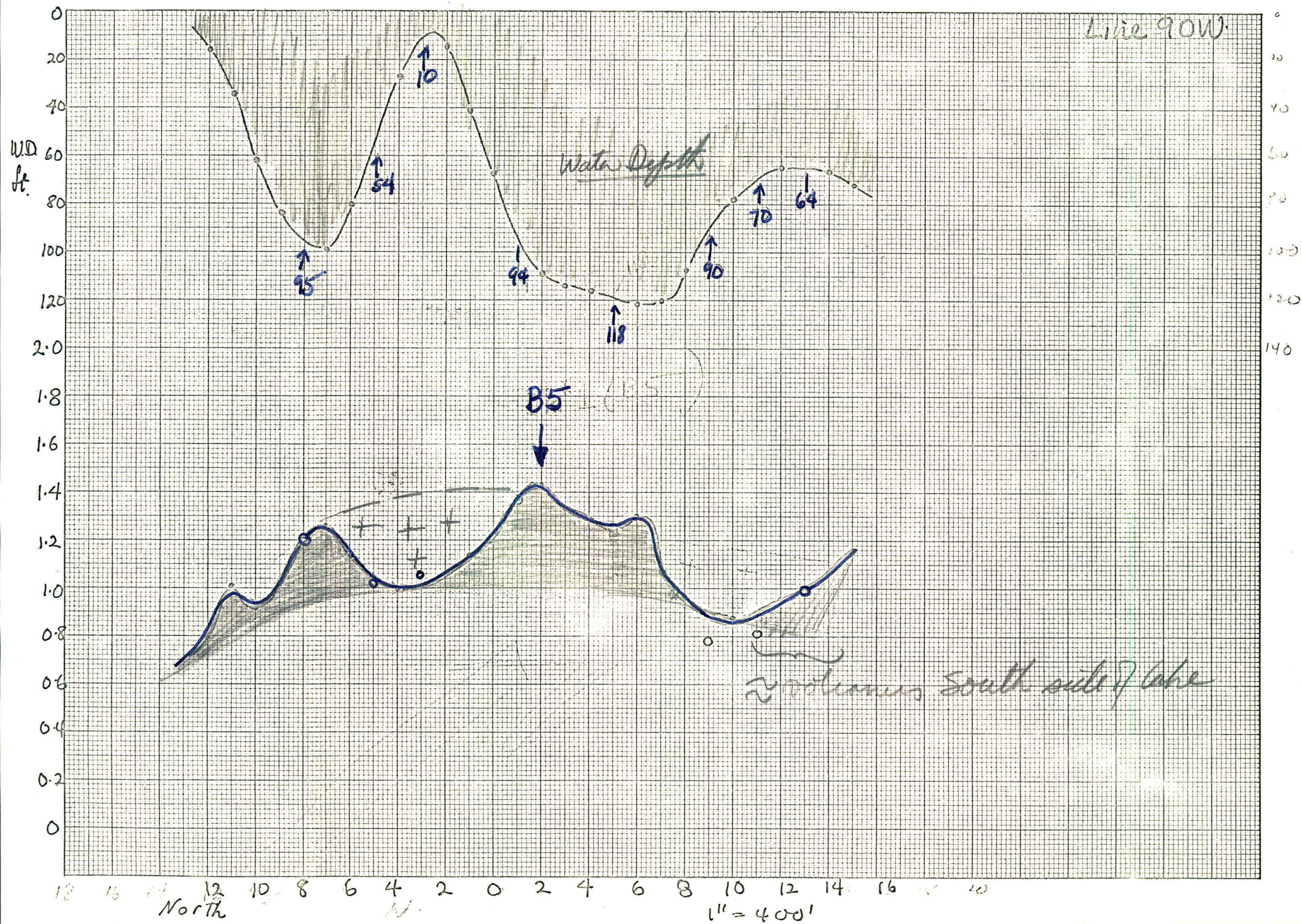
← North

1" = 400'

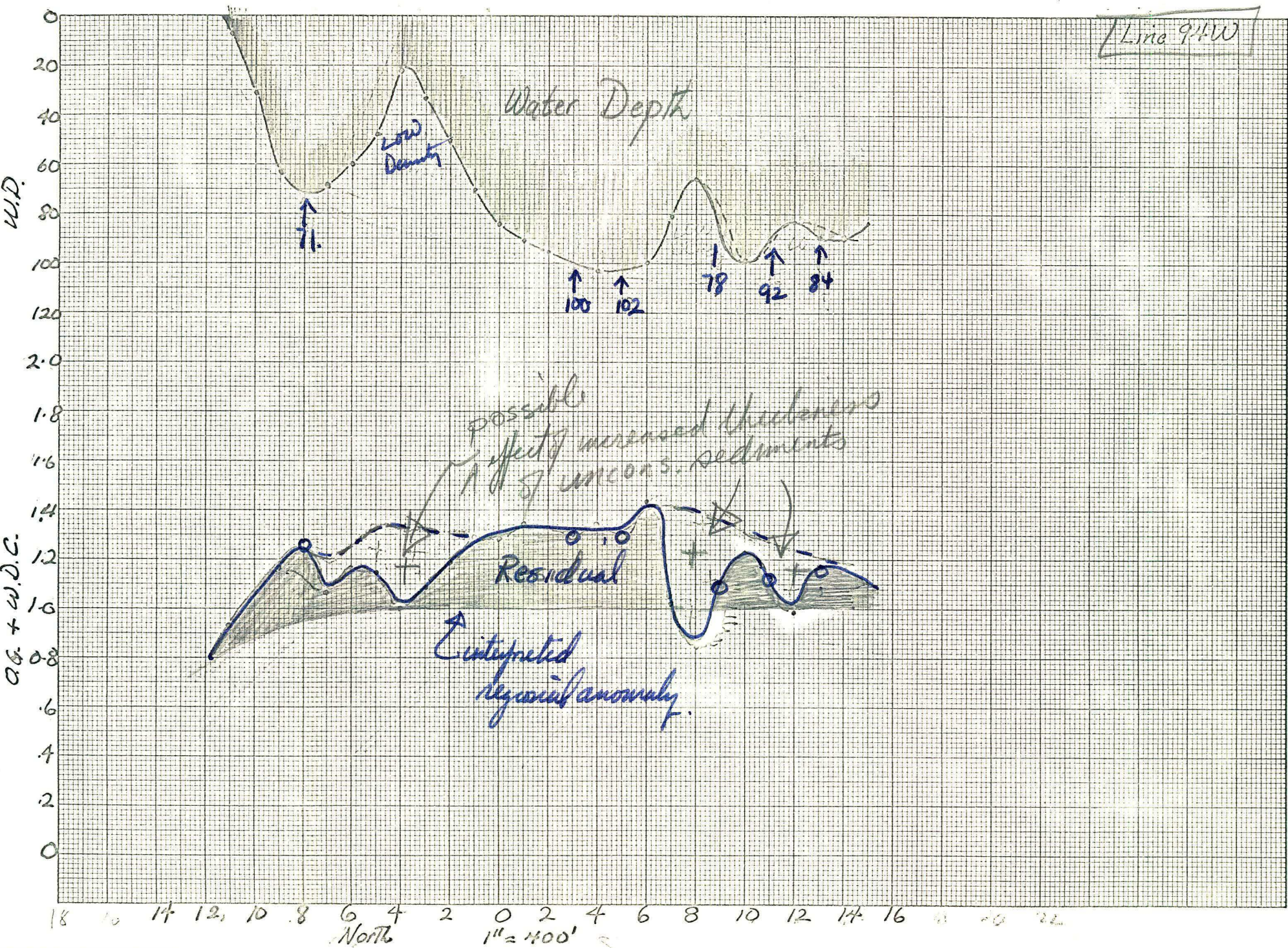


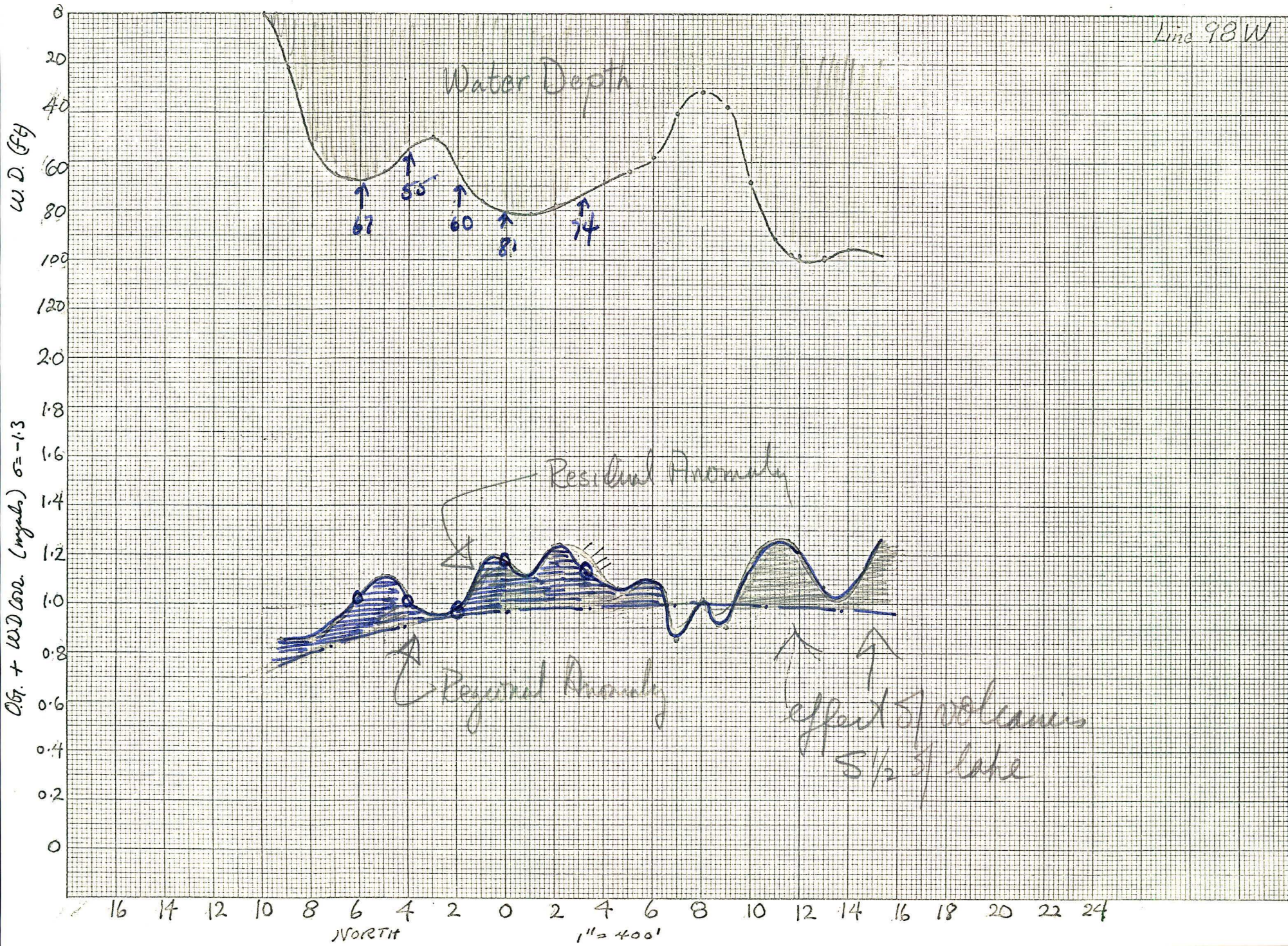


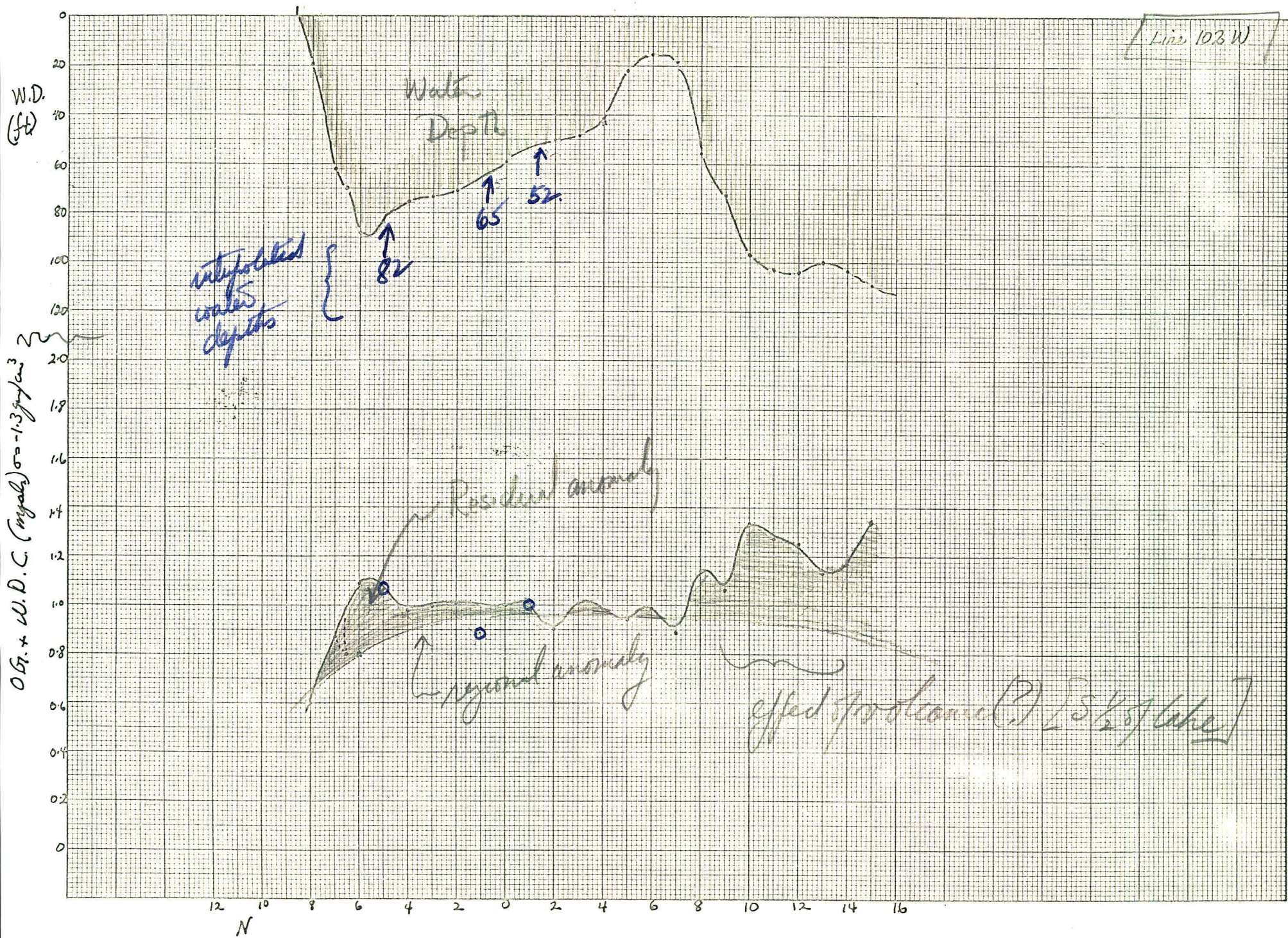




Line 94W







Line 103 W

W.D.  
(ft)

0.67 + W.D.C. (mgals)  $\sigma = -1.3 \text{ gm/cm}^3$

unfoliated  
water  
deposits

Water  
Depth

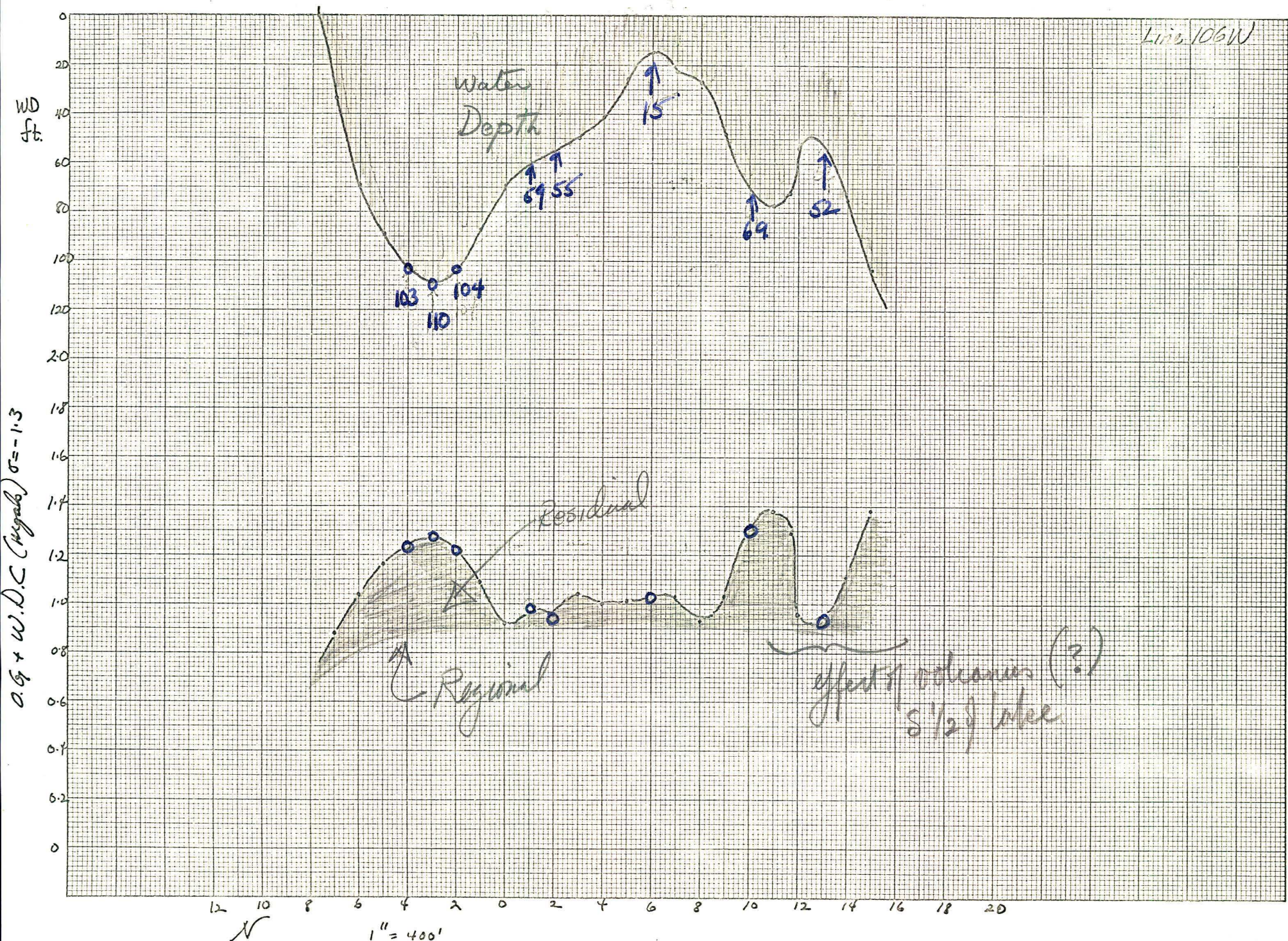
82  
65  
52

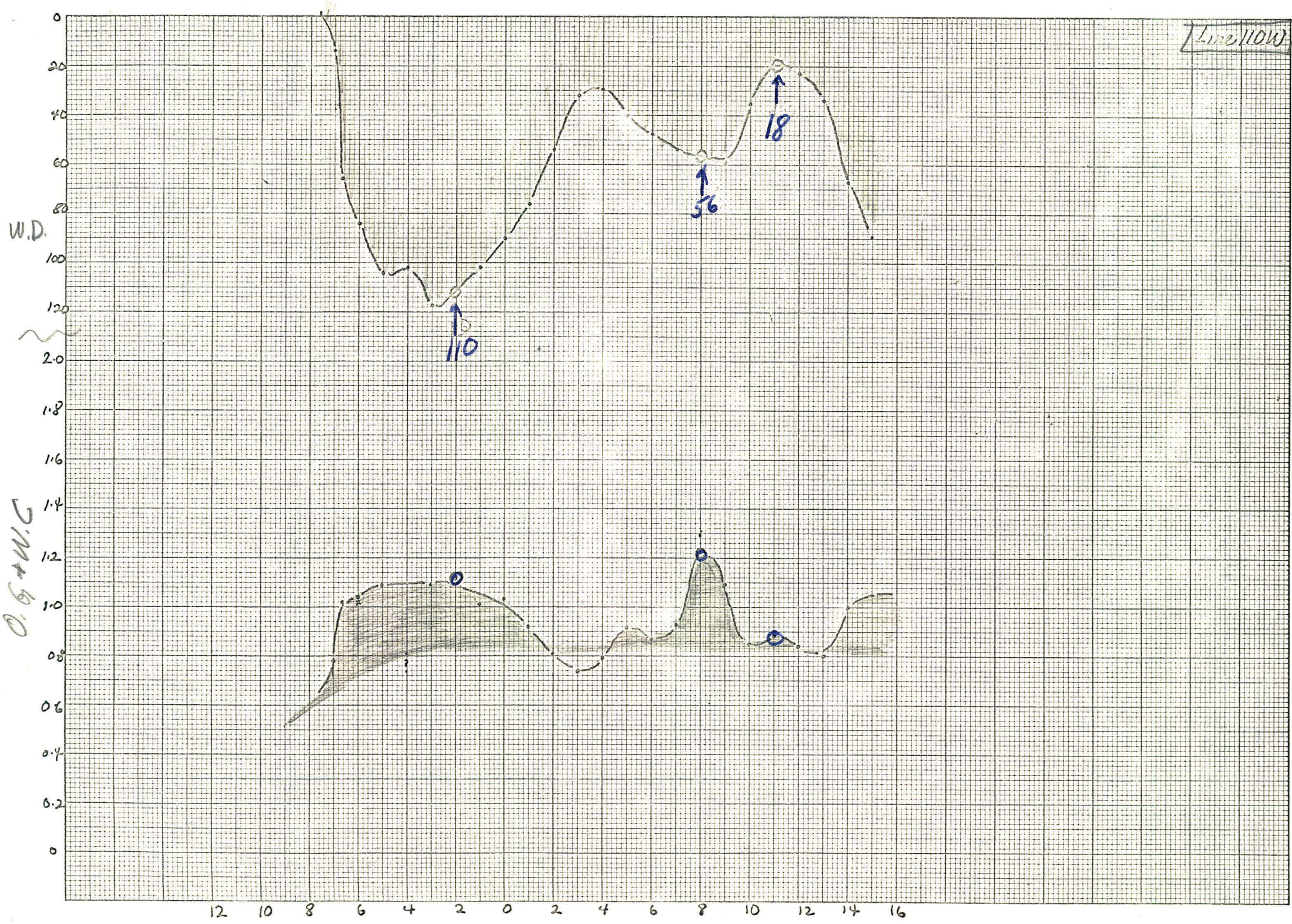
Residual anomaly

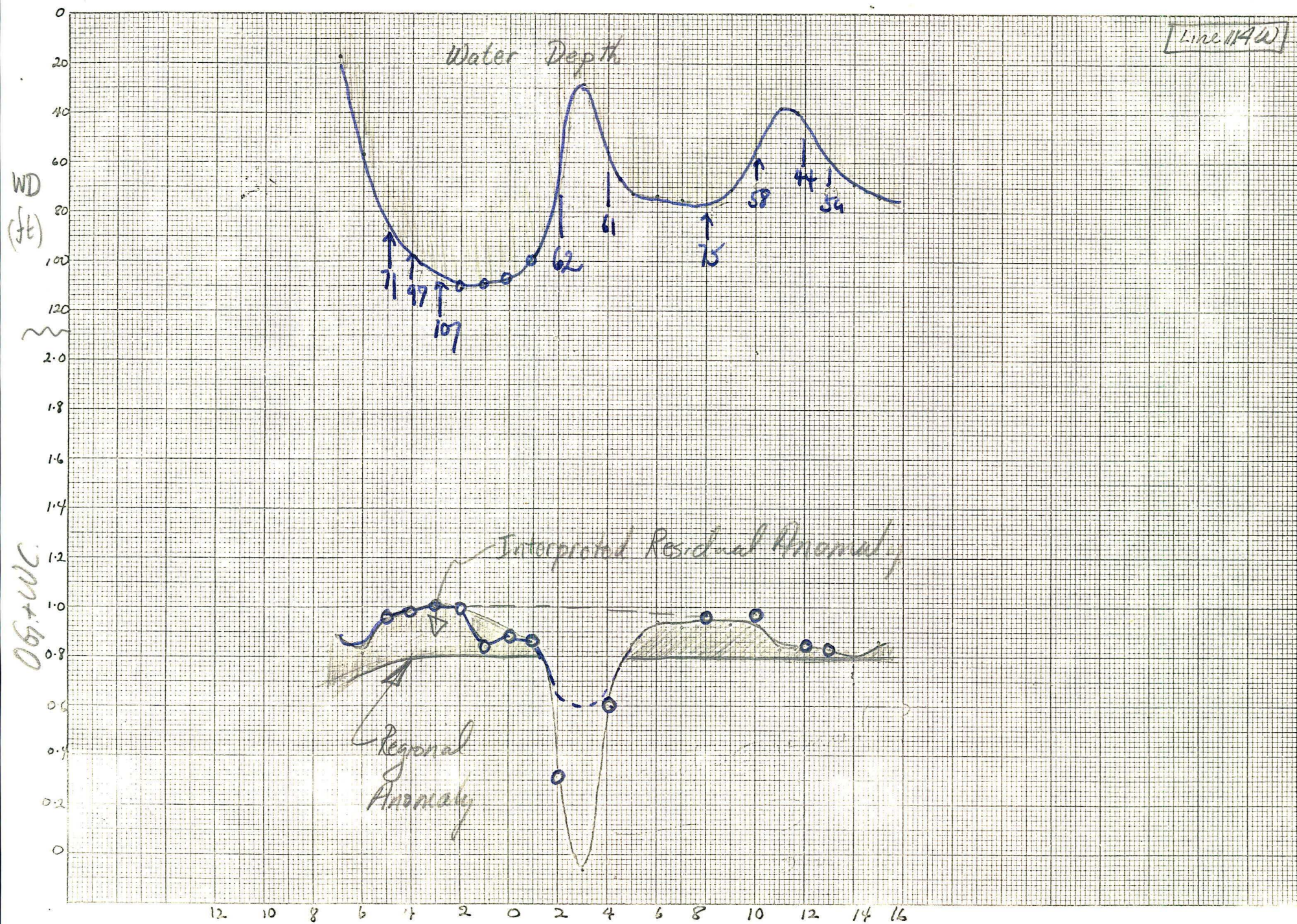
Residual anomaly

effect of proclinal (?) [5 1/2 of lake]

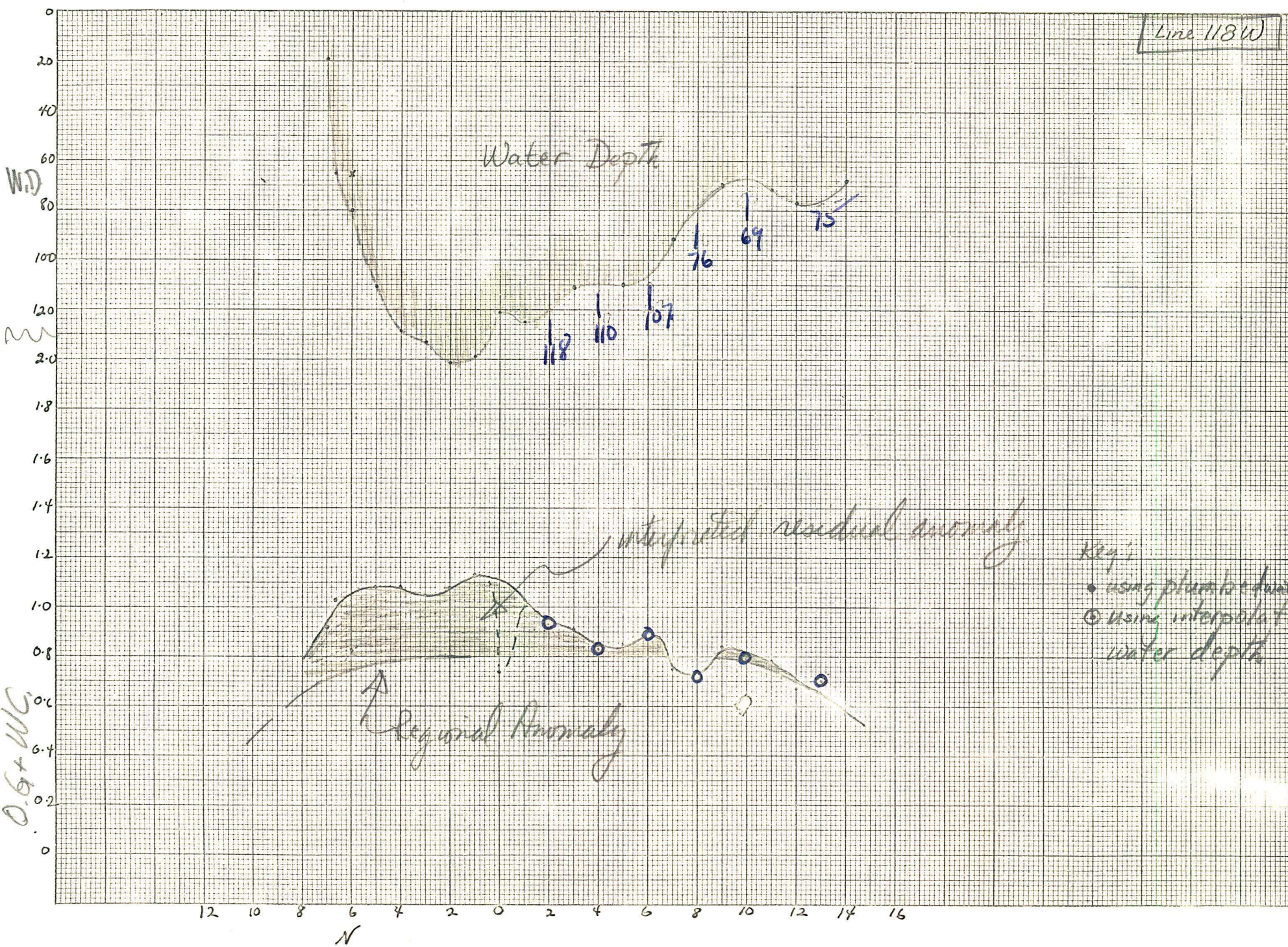
N







Line 118W



Swim Lanes "BL" Group, Y.T.

March, 1967

Water Depth Measurements

To: PMK  
MAR 30 1967

- W.S.P.
- K.C.G.
- J.H.S.
- E.F.
- R.D.S.
- B.C.B.
- P.M.K.
- G.W.M.
- R.D.M.
- C.K.W.
- J.B.S.
- G.P.R.
- K.E.L.
- J.I.B.
- E.C.I.

Sta.	LINE 158W	LINE 154W
0+00 N	198.5'	
2+00 S	199.5	
5	199.5	
7	198.5	
8	197	
10 +00 S	189	
12	183.5	
14	182	
16	160	
17	147	
18	132	139'
19	120	
20 +00 S	110	
21	111	102
23	132	89
24	130.5	
25	128	
26	121.5	
28	97.5	
30+00 S	83.5	

**RECEIVED**  
MAR 29 1967

KERR & MASON MINES LTD.  
Per .....

*[Handwritten signature]*