

FILE

# CORPORATION FALCONBRIDGE COPPER

MEMORANDUM

DATE: May 13, 1985  
TO: D. H. Watkins  
COPIES TO: M. J. Knuckey, D. V. Lefebure  
DE FROM: A. J. Davidson  
SUJET SUBJECT: MT. SICKER PROPOSED DIAMOND DRILL PROGRAMME

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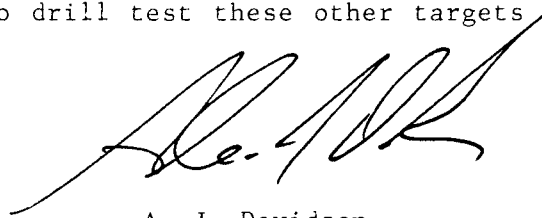
Although all holes proposed in DVL's February 26 Mt. Sicker drill program are worthwhile and have excellent technical merit, not all can be drilled in 1985.

Budget restrictions and delays in finalizing both the Fording Coal and Pacific Forest (CIP) agreements necessitate that priorities be established among the eleven holes planned and that the drilling program be carried out in two stages.

The first stage is to begin in late May and will concentrate on the Postuk-Fulton Option where CFC controls both the base and precious metal rights. It is proposed to drill Holes P1, P2 and P4 (905m) as shown on the accompanying table and long section.

The second stage of drilling will total about 1020m and will consist of holes that test the NE Copper Zone and the Mona Horizon. It is proposed at this time to drill holes P5, P6, P8 and P9 (1020m).

No funds are thus available in 1985 to test such other high priority targets such as Tom's Shaft zone, the PF-NE Copper Horizon or the Gabriel Chert. It is imperative that funding to follow up 1985 results and to drill test these other targets become available in 1986.



A. J. Davidson

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TABLE 1 LIST OF PROPOSED DIAMOND DRILL HOLES FOR 1985 Mt. SICKER PROJECT

Hole No.	Depth (m)	Dip	Azimuth	Grid Coordinates	Cost *	Comments
<u>Postuk-Fulton Horizon</u>						
P1	235	-60	180	1+22E 2+38N	\$15,040	- to test the P-F Horizon 130m ESE along strike from the MTS 3 intersection of 10.4m of chert and semi-massive sulphides - best assay from MTS 3 was 2.15% Cu, 0.05% Zn, 10.5 g/T Ag and 0.25 g/T Au over 0.5m
P2	260	-70	180	0+00E 3+00N	16,640	- to intersect the P-F Horizon immediately downdip of MTS 3 and to provide a PEM conduit to look updip towards MTS 3 (a blocked hole) - Horizon thickens downdip from S72-1 to MTS 3 and may continue to do so - 0.26% Cu over 6.4m in S72-1
<del>P3</del>	350	-60	180	3+22E 2+70N	22,400	- to test the P-F Horizon 200m along strike from P1 under diorite - Deepem anomaly continue onto diorite
P4	410	-75	180	2+00E 3+20N	26,240	- to cut the P-F Horizon approximately 200m downdip of P1 and 160m from P3 intersection - results from P1, P2 and P3 will influence the location of this hole
<u>Northeast Copper Horizon</u>						
P5	220	-60	180	21+00E 1+88N	14,080	- spotted to test NE Cu chert 270m downdip from strongest Deepem response in 1984 survey - area of sodium depletion in outcrop and anomalous zinc in rock and soil
P6	300	-60	180	19+80E 3+42N	19,200	- to intersect the NE Cu chert 400m downdip of 4.1m of chert with 0.2% Cu which is underlain by chloritized "schist" containing 0.08% Cu over 1m as disseminations and stringers of py and cp - area of sodium depletion in outcrop and downdip from intense chloritization ( 0.2% Na <sub>2</sub> O) and pyrite and chalcopyrite stringers near Fortuna Adit
<del>P7</del>	120	-60	180	24+00E 1+00S	7,680	- to intersect both NE Cu chert and possible deeper horizon which is cut by Tom's Shaft - massive sulphide boulders (py, cp) from Tom's Shaft are up to 1m across - best grab sample contains 0.43% Cu, 0.01% Zn, 7.0 g/T Ag and 1.0 g/T Au - coincident Ba (rock), Cu (soil) and Deepem anomalies
P8	250	-60		23+00E 1+60N	16,000	- spotted to intersect NE Cu chert 380m downdip of surface showings and Deepem response at NE Copper - downdip of centre of strongest Dighem anomaly on Mt. Sicker - located to north of diorite dyke

<u>Hole No.</u>	<u>Depth (m)</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Grid Coordinates</u>		<u>Cost*</u>	<u>Comments</u>
<u>Mona Horizon</u>							
P9	250	-60	0	9.20E	9.85S	16,000	<ul style="list-style-type: none"> <li>- to test the Mona Horizon between Mona Shaft and previous drill holes</li> <li>- massive sulphide boulders (py, po, cp) can be found on Mona Shaft dump</li> <li>- surface exposure of Mona Horizon contains 1.64% Cu, 0.02% Zn, 0.05% Pb, 19.5 g/T Ag and 1.35 g/T Au</li> </ul>
<u>Postuk-Fulton/Northeast Copper Horizon</u>							
<del>P10</del>	300	-60	180	13.00E	1.00N	19,200	<ul style="list-style-type: none"> <li>- stepout hole to test P-F/NE Cu Horizon 500m west of Fortuna intersection in S72-3</li> <li>- close to Fortuna Fault, a major structure on Mt. Sicker</li> <li>- will intersect horizon downdip of intense sodium depletion and weak Dighem anomaly</li> </ul>
<del>P11</del>	400	-60	180	8.00E	2.00N	25,600	<ul style="list-style-type: none"> <li>- stepout hole to test P-F/NE Cu Horizon 500m west of P10 and 500m east of P3</li> <li>- copper anomaly in diorite could represent contamination or leakage from underlying sulphide lens</li> </ul>
Total	3095	1925				\$198,080	

\* 1984 direct drilling cost - Res Gold

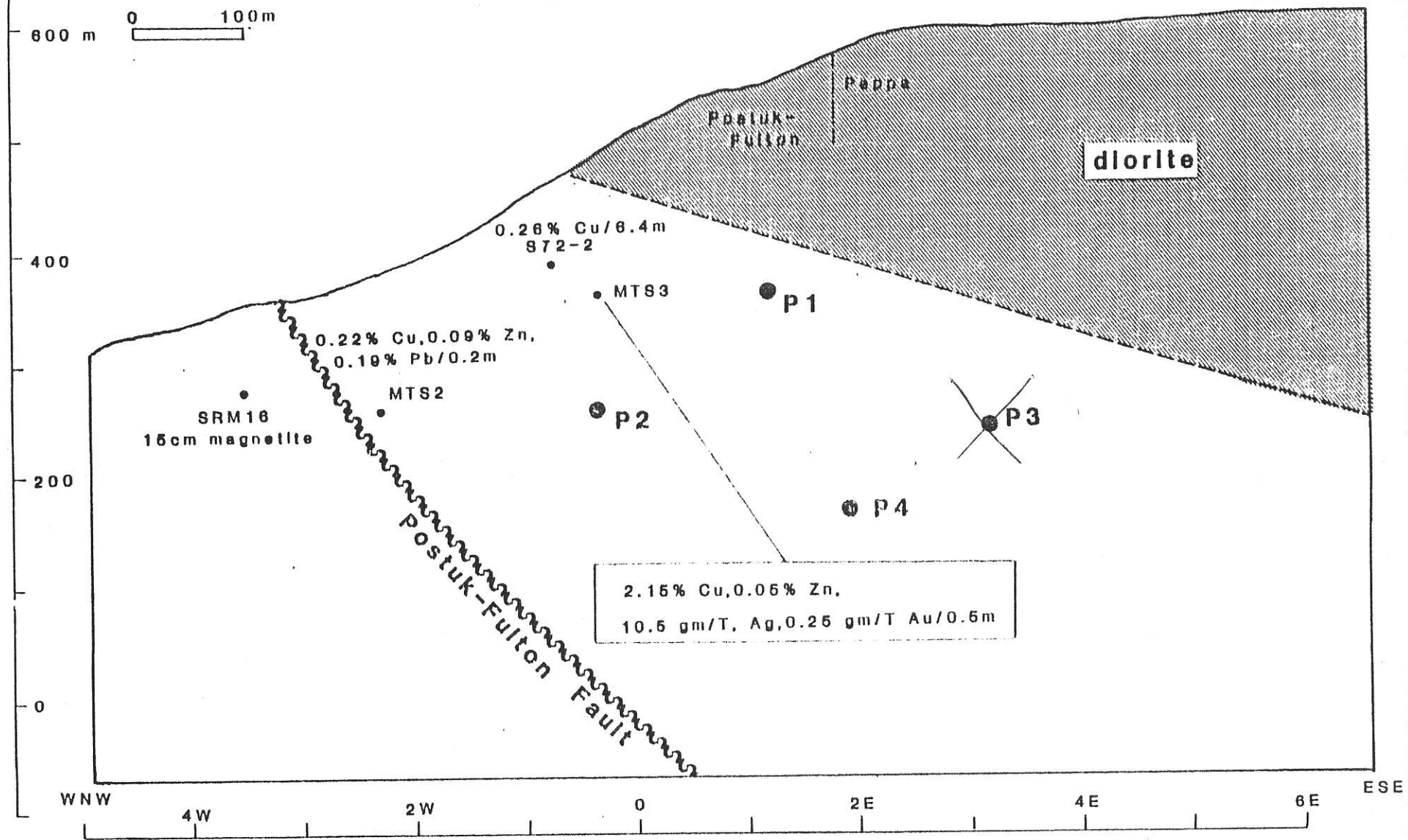


Figure 3. Vertical longitudinal section of Postuk-Fulton Horizon showing proposed holes.

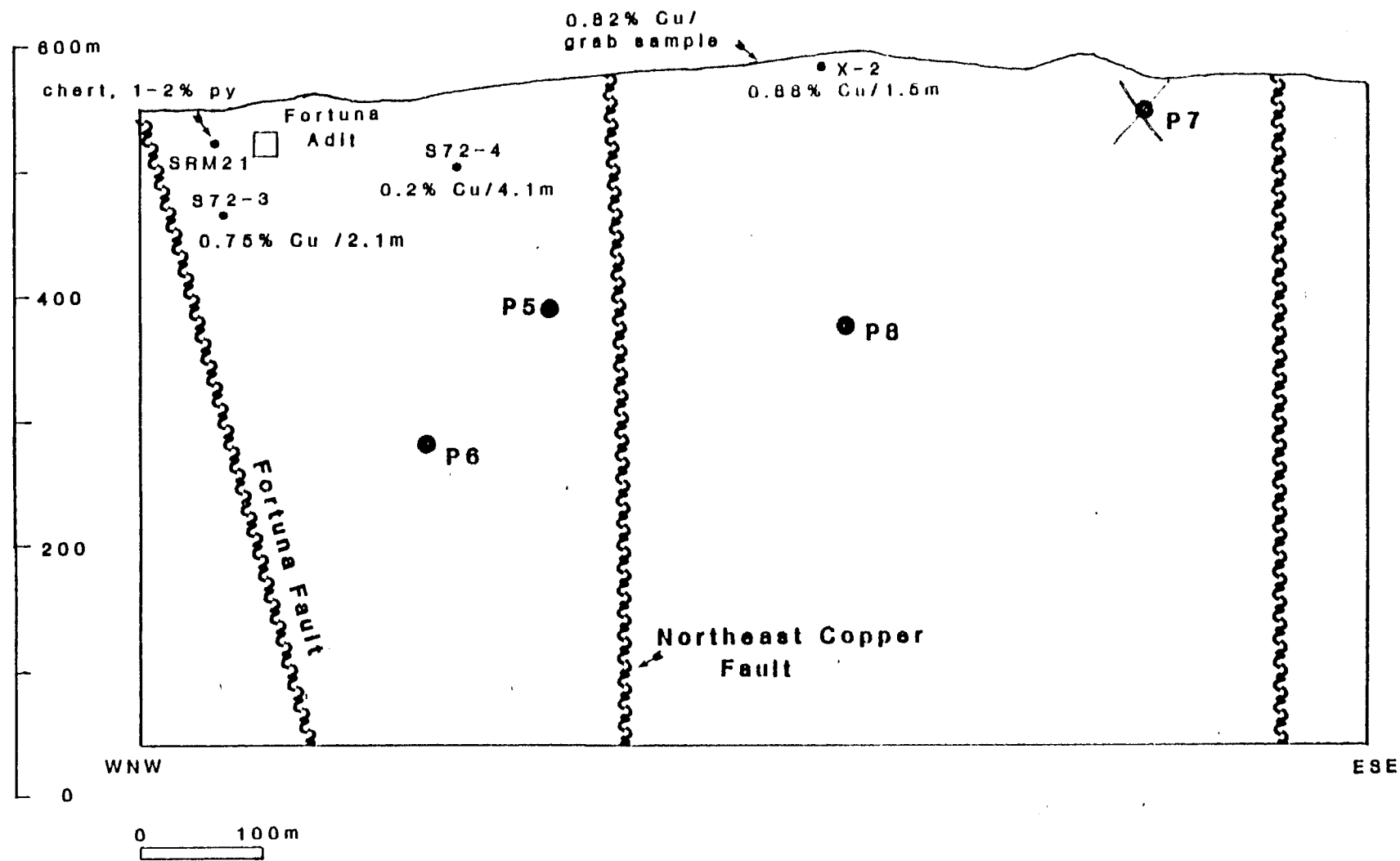


Figure 4. Vertical longitudinal section of Fortuna - Northeast Copper Horizon showing proposed drill holes.

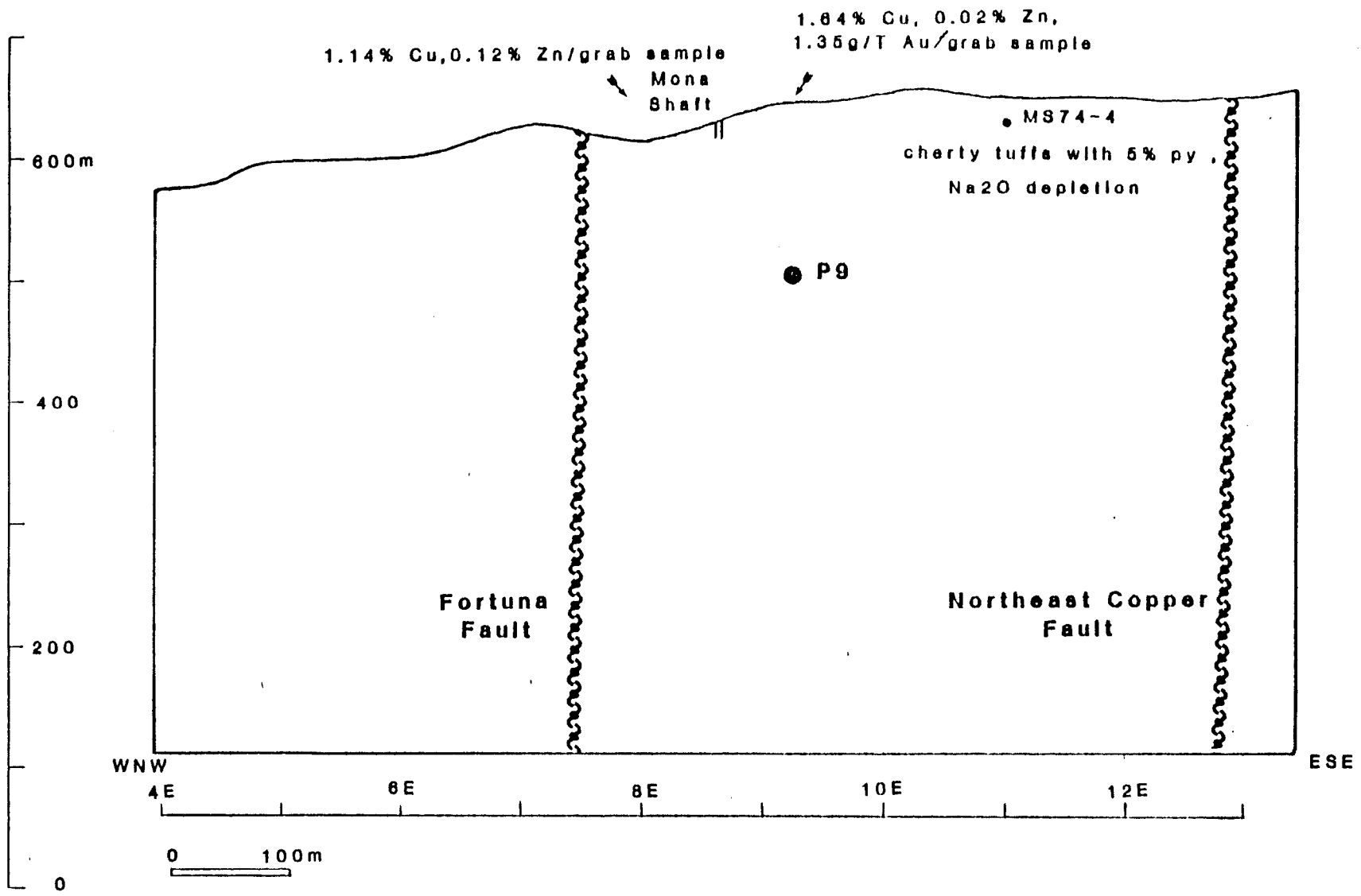


Figure 5. Vertical longitudinal section of Mona horizon showing proposed hole.