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REPORT ON THE TENAS PROJECT

105 K/1

for

Boliden-Preussag Exploration

R. WARES

Vancouver, B. C.

December 1975

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1:0 GENERAL INFORMATION

1:1 General

This report outlines in broad terms the results and interpretations of the drilling programme on the Tenas claims carried out in November 1975.

The drill programme, totalling 1003' of BQ wireline, was hampered by severe weather, necessitating extra water line heaters. The programme comprised two holes drilled to test magnetic, Turam and geochemical anomalies.

1:2 Geology

The geology[1] has been described elsewhere and only minor details need be referred to. The amount of outcrop is sparse and suggests that the northwest portion of the property is underlain by chlorite phyllites ± graphite which abut against granitic rocks at the north end of the grid. There is no clear field evidence of the strike and dip of the units but the geophysical data is clearly suggestive of an easterly strike and low but variable southerly dips of 30° to 50°, perhaps steepened locally by faulting.

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1. Report on the 1975 Program on the Tenas Claims. J.B.P. Sawyer, September 5, 1975

2:0 GEOCHEMICAL DATA

2:1 Distribution of Pb

The distribution of Pb + Zn has been referred to elsewhere[1]. In essence (fig.1) there are six anomalous areas in the northwest portion of the property (P1 to P6).

Anomaly P1 has a peak value of 635 ppm and is a spot anomaly while P2 is an elongate but narrow anomaly with values up to 870 ppm though the apex of the anomaly is generally lower. Anomaly P3 is sub-parallel to P2 with somewhat lower values.

The cluster of P4 and P5 suggest that they are, in fact, one anomalous broad area with values up to 510 ppm Pb. Anomaly P6 is an isolated anomaly downslope from the cluster of P4 and P5.

2:2 Distribution of Zn

The distribution of Zn in the northwest portion of the Tenas claims is more complex than that of Pb.

The distribution is essentially that of two broad areas with nine sub clusters in these broad areas with peak values up to 2150 ppm Zn. The highly anomalous areas are Z2, Z3, Z6, Z7 and Z9 which exhibit a close correlation with geophysical data. The anomalies all have a marked easterly trend, reflecting both bedrock and topographic patterns.

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1. Report on Additional Geochemical and Geophysical Work on the Tenas Claim Group, J. B. P. Sawyer, October 20, 1975.

The broad zinc distribution pattern is attributable to bedrock values and hydromorphic dispersion, which is characteristically greater in the case of Zn than Pb. Anomalies Z2 and Z6 exhibit a good correlation with both mag and Turam conductors while Z3, 7 and 8 are spatially but not intimately associated with conductive or magnetic zones.

2:3 Dispersal Pattern

It is evident that in the Tenas claims there is a combination of primary dispersion from anomalous bedrock, glacial dispersion and a hydromorphic dispersion from the first two factors.

The direction of ice movement appears to have been in a westerly direction on the basis of drumlinoid features. In the area of economic interest, there is variable but not generally thick till which has been affected by downslope solifluction phenomena giving a terraced or ribbed appearance. It is probable that hydromorphic dispersion of the anomalous areas has taken place and that the lower anomalous areas P3, P6 and Z5 and Z9 are secondary hydromorphic anomalies. These are the anomalous areas not correlative with geophysical anomalies.

The other areas all exhibit a good to moderate correlation with geophysical anomalies, though the broader distribution of Zn reflects in part anomalous bedrock values of graphitic bearing phyllites.

3:0 GEOPHYSICAL DATA

3:1 Magnetic Data

The magnetic data has been described elsewhere[1] and can be described (fig.3) and can be described simply as four anomalous areas. Anomaly M-1 is a narrow but variable zone which has an easterly trend with an apex at 545E, 155N. Anomaly M-2 is an elongate anomaly open to the north and not accompanied by either geochemical or Turam anomalies. The geological evidence clearly indicates that this anomaly is at the contact of the granitic intrusive and probably represents minor pyrrhotite in the contact skarn.

Of interest is the subtle magnetic low running from 550E, 152N to 560E, 165N and the generally low subdued relief in the southern portion of the property. The northeast-trending low is correlative with an inferred fault which displaces the graphitic conductors. The subdued pattern in the southern portion probably represents a masking by thick glacial and fluvoglacial gravels.

3:2 Turam Data

Turam conductors[2] T1 and T2 (fig.4) exhibit a marked correlation with magnetic data and probably represent the north and south limbs of the inferred antiform. They exhibit a moderate to good geochemical correlation and are caused by the graphitic units in the phyllite sequence.

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1. Report on Additional Geochemical and Geophysical Work on the Tenas Claim Group, J. B. P. Sawyer, October 20, 1975

2. Geophysical Report on a Turam Electromagnetic Survey, Tenas, Bar and Mal Claim, P. E. Walcott, July 1975.

Conductor T3, which changes character along strike does not exhibit any significant geochemical or magnetic correlation and is interpreted as an overburden conductor.

Conductors T4, T5 and T6 which are correlative with geochemical anomalies exhibit a partial correlation with magnetic anomalies. It is strong in the case of T4 while T5 is in the flank of a broad anomaly. Conductor T6, a moderate conductor, is correlative with a strong magnetic anomaly though continues along strike from the magnetic anomaly.

Anomaly T7 is in most probability an overburden conductor at a break in slope.

There is noticeable discordance in the conductor pattern which is coincidental with a subtle magnetic low, trending north-eastwards. This is probably a fault zone displacing the graphitic conductors.

4:0 DRILL DATA

4:1 Drill Hole 75-1

Drill hole No. 75-1 was collared to test the coincident magnetic, Turam and geochemical anomaly centered on line 154N. (Pages D1 to D4).

Profile data indicates that the moderate Turam conductor is coincidental with the apex of the magnetic high while the geochemical data show a pattern of a broad anomaly straddling part of the geophysical anomaly out downslope from it. The magnetic data is suggestive of a steeply dipping source with a depth to the source of 200 feet (figs. 5, 7, & 9).

The drill hole intersected a heterogeneous assemblage of chlorite graphite phyllites with subordinate sericite chlorite phyllites and strongly graphitic zones from 46' - 51'; 126' - 133'; 215' to 287'.

The profile data clearly indicate that the geophysical anomaly is correlative with the strongly graphitic section from 215' to 287' (fig. 7). The drill section does not indicate any strong sulphide zone with nowhere over 1/2% po over 5 foot sections (fig.5).

Quartz augen and stringers are evident throughout, more especially in the graphitic bearing sections. Quartz veins are locally up to 8" in width and carry blebs of pyrrhotite up to 1/2" diameter but nowhere forming significant concentrations.

Minor folding is evident in the drill core with several strongly crenulation zones and apices of small isoclinal folds. These are more evident in the graphitic zones.

The information is suggestive (fig.7) of a steepened portion of a southerly dipping belt of metasediments. There is little firm evidence to substantiate an inclined isoclinal fold though it is possible that the weak anomalies P2 - 24 are a repetition of the graphitic horizon.

Mineralization is almost entirely phyrrhotite with only minor pyrite. Assay data (A-1) all gave low values of no economic interest. Rock geochemical data on 6" sample core and semiquantitative spectrographic analyses (A-2 and A-3) gave inconclusive data. One sample, 36603 and 740358 gave high vanadium values, not surprising in a graphitic sediment. No fine grained and perhaps unsuspected mineralization appears to be present.

The profile data (fig.7) clearly indicates that the coincidental Turam, magnetic and geochemical anomaly is attributable to the broad graphitic horizon from 215' to 287' and is suggestive of a downslope accumulation of Pb + Zn at 150N by hydromorphic in addition to some dispersion around a possible repetition at 545E, 151N.

4:2 Drill Hole 75-2

This drill hole was collared to test a coincidental lead and zinc geochemical anomaly which is flanked on the south by a moderate Turam conductor and on the north by a low order Turam and magnetic anomaly (fig.6, 8 &9).

The hole consisted essentially of chlorite phyllites, variably graphitic with intercalated meta-tuff units present. The southerly Turam conductor is clearly caused by the graphitic zones from 56.5' to 139' with traces of po in this section causing the weak magnetic response.

From 368' to the end of the hole there is widespread but minor pyrrhotite with strong graphitic zones. It is suggested that the narrow magnetic anomalies are caused by these pyrrhotite stringers and lenses at 160N and that these shallow dipping zones were intersected in the lower portion of the drill hole. The low order Turan conductor is attributable to the graphitic zones intercalated in the tuffaceous horizons from 368' - 401'; 459' - 467'.

The assay data are all inconclusive with two small sections with 0.6% Zn (277' - 278'5') and 367'. These were pyrrhotite-rich sections but the values are not of economic interest.

Rock geochemical data and semi-quantitative spectrographic analyses (A-2 and A-3) did not reveal any unidentified mineralization or information of economic interest. It is of academic but not economic interest that the assay data in the tuffaceous units exhibits a minor but interesting zinc content.

The profile data (fig.8) is suggestive of a gently-dipping sequence of graphitic phyllites and interbedded tuffs with a dip of 30° to 35° to the south. The hole intersected the two Turam conductors and suggests that the geochemical anomaly that flanks the more northerly Turam conductor is a combined anomaly attributable to both high background in interbedded tuffs and graphitic units and hydromorphic accumulation in elongate solifluction terraces.

4:3 Interpretation

The drilling information clearly indicates that the geophysical anomaly T1, magnetic anomaly M1 and geochemical anomalies Z2 and P1 are attributable to the belt of graphitic rocks intercalated in the phyllitic sequence, with magnetic response coming from the widespread but minor pyrrhotite.

Anomaly T2 appears to be a continuation of anomaly T1 perhaps repeated by isoclinal folding. Anomalies Z3 and P2 appear to flank a weak magnetic response and are probably a combination of hydromorphic dispersion and bedrock geochemistry. Anomalies T3, P3 and Z5 appear to be overburden anomalies developed at a pronounced break in topographic slope.

A fault is postulated (fig.10) which brings the anomalous graphitic zone to 565E, 164N. It is suggested that anomalies T4 and T6 are comparable to anomalies T1 and T2 and exhibit a comparable geochemical dispersion from graphitic phyllites with minor tuffs. The broader distribution in this eastern zone is caused by a flattening of dip of the phyllites.

The magnetic response appears to be attributable to the presence of pyrrhotite in the graphitic zones in particular.

There appears to be a low probability of the geochemical and geophysical expression being developed from a massive sulphide body and none were encountered in the drilling.

5:0 SUMMARY

5:1 The Tenas property has a number of coincidental magnetic, Turam and geochemical anomalies in an easterly-trending zone.

5:2 There appears to be glacial and hydromorphic dispersion pattern superimposed on top of the primary geochemical dispersion from the graphitic zones.

5:3 Drill results clearly indicate that the magnetic/Turam coincidental anomalies are attributable to pyrrhotite-bearing graphitic phyllites intercalated in chloritic phyllites and, in Hole No. 75-2, meta-tuffs.

5:4 The pyrrhotite is present as small stringers and blebs in quartz augen and veins and stringers with one zone in No. 75-2 of 3-5% po over 5'.

5:5 Assay data, rock geochemistry and semi-quantitative spectrographic analyses do not indicate any zones of economic interest and indicate that the anomalous zone is one of high background values.

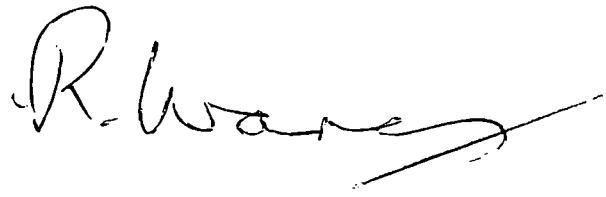
5:6 Scattered Turam and geochemical anomalies in the southern portion of the grid near the baseline are attributable to overburden conductors or dispersion near a break in topographic slope.

6:0 CONCLUSIONS

6:1 The Tenas property is located in an area of economic potential and the drill data have clearly indicated that the anomalous areas are attributed to pyrrhotite - bearing graphitic zones.

6:2 Though further investigations are of geological merit, the drill data is not suggestive of the presence of deposits of economic significance close to surface and the probability of such a discovery by further drilling is not high.

6:3 For this reason, no further work should be contemplated and the option should be dropped.



R. WARES

DIAMOND DRILL RECORD

PROPERTY TENAS HOLE No. 75-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-1 Sheet No. 1
Section
Date Begun 11/11/75
Date Finished 21/11/75

Lat. 154 + 25W
Dep. 539 + 50E
Bearing N25°E at -50'
Elev. Collar 3010'

Total Depth 500'
Logged By RW
Claim Tenas #1
Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 5'	Casing						
5 - 39'	Quartz-Chlorite phyllite, greyish green, fine grained, strongly foliated, thin 1 mm siliceous laminations, more graphitic from 9' - 11', 20 - 21, 31 - 33', scattered minor po in pin head blebs in this quartz laminel, 8" quartz vein at 17' with 1/4" blebs of po, 1-1/2" bedding plane tringer at 22' with 1 - 2% po, 1" cross cutting stringer at 23', with blebs po, sparse blebs po at 35.5 becoming biotite rich at 37' - 39', cleavage at 75° to C.A.						
39' - 46'	Chlorite phyllite $\pm$ graphite, strong cleavage, sparse quartz stringers, brown chlorite(?)						
46' - 51'	Graphite schist $\pm$ chlorite, sparse quartz stringers, bedding plane stringers at 80° to C.A., strongly crenulated at 48 to 49'.						
51' - 122'	Sericite phyllite $\pm$ chlorite, pale grey, strong cleavage, thin silty units 1/4" to 1/2", brown chlorites present, broad cyclical sedimentary characteristics evident with more massive sections from 57' - 59', 65' - 67', 92 - 95', 74 - 76', 105', bedding parallel to cleavage at 80° to C.A. at 75', widespread scattered small blebs of po.						

DIAMOND DRILL RECORD

PROPERTY TENAS HOLE No. 75-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-1 Sheet No. 2 Lat. Total Depth

Section Dep Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
57 - 122' (Cont)	(S 1/4%), 1" quartz vein at 73' with 1/4" blebs of po, 8" quartz vein at 78'						
122' - 126'	Chlorite - graphite phyllite, strong cleavage, cleavage controlled quartz stringers and scattered augen with traces po, minor epidote along fractures						
126' - 133'	Graphitic phyllite, dark grey, with thin quartz chlorite phyllite beds, bedding at 45° to C.A. minor po in silty beds			Cu	Pb	Zn	Ag
133' - 162'	Chlorite sericite phyllite $\pm$ quartz, med. grey/green, strong cleavage, 9" quartz vein, at 153' with 1/4" blebs of po, strongly crenulated at 157' - 159' bedding. Cleavage at 70° to C.A. at 153', minor cross cutting 1/8" quartz stringers from 140 - 144'	36601 (162')	12"	0.01	0.01	0.01	0.01
162 - 183.5'	Graphitic phyllite $\pm$ chlorite, strongly crenulated with kink banding and overfold axis at 171', quartz augen and stringers with scattered blebs of po, cleavage at 70° to C.A. at 180'.						
183.5' - 215'	Chlorite phyllite $\pm$ sericite, $\pm$ quartz, grey/green, more massive in character, with cleavage at 45° to C.A. at 210', sparse epidote fractures, 6" quartz vein at 199' with blebs of po 1/4" diameter.						

DIAMOND DRILL RECORD

PROPERTY TENAS HOLE No. 75-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-1 Sheet No. 3 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
215' - 287'	Graphite schist ± chlorite, variable angles of cleavage			Pb	Zn	Ag	
	to C.A., 45° to C.A. at 215', 35° at 248', strongly	36602	3'	-	0.01	0.01	
	crenulated at 222 to 224', locally small breccia at 230',	(248'	- 251')				
	porphyritic andesitefrom 266 - 269', traces po throughout	36603	2'	0.01	0.01	0.01	
	with small blebs in quartz augen + quartz stringers	(255'	- 257')				
	(1/4% over 5')	also semi-quantitative spec. analysis					
287' - 334'	Chlorite phyllite ± graphite ± sericite, pale grey,						
	strong cleavage, thin silty members, cleavage at 10° to						
	bedding at 314, 65° to C.A., more graphitic from 287 to						
	298, 314 to 317, more massive + silty from 318 - 321.						
	Graphitic schist from 293 to 299' with 2" stringers of						
	po, dilatant quartz gashes from 300 - 315 with trace po						
	throughout especially in quartz stringers but less than						
	1/2%. 6" quartz vein at 330'(kink banding locally present)						
334 - 353'	Graphite - chlorite phyllite, dark grey, sparse quartz						
	stringers and augen, 4" quartz vein at 345', traces po,						
	cleavage at 75° to C.A.						
354 - 365'	Chlorite - quartz phyllite, dark to med. green, strong						
	cleavage, massive aspect, quartz gashes and stringers						
	from 358 - 365' with sparse po.						

DIAMOND DRILL RECORD

PROPERTY TENAS HOLE No. 75-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-1 Sheet No. 4 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collor. Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
365' - 427'	Chlorite - graphite phyllite ± sericite, dark to med.			Cu	Pb	Zn	Ag
	grey, with interbedded chlorite + graphite sections,	36604	3'	0.01	0.02	0.01	0.01
	thin silty members (1/2") present, graded bedding indi-	(370'	- 373')				
	cates "tops up hole". From 381 - 382', 384 - 387'						
	abundant quartz stringers with blebs of po, cleavage						
	60° to C.A. at 370', trace sphalerite(?) at 404', blebs						
	of po up to 1/4" in quartz augen + stringers but 1/2%						
	over 5' section, 1/2" stringer of po at 420'. Crenulated						
	zone 384 - 386'						
427 - 444'	Chlorite - sericite phyllite, pale grey/green, traces po						
	in quartz stringers, 6" quartz vein at 437'						
444' - 492'	Chlorite phyllite ± graphite (minor) with silicified						
	zone 458 - 460', 2" quartz vein with minor po at 447',						
	overfold at 472', cleavage at 78° to C.A. at 480'.						
492' - 500	Chlorite graphite phyllite, with sparse po in quartz						
	augen, 2" quartz vein at 494' with rare 1/4" blebs of						
	po. Cleavage at 85° to C.A. at 495.						
500'	End of hole.						

DIAMOND DRILL RECORD

PROPERTY TENAS CREEK HOLE No. 75-2

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-2 Sheet No. 1 Lat. 154+50N Total Depth 503'
Section Dep. 570E Logged By RW
Date Begun 21/11/75 Bearing N25°E Claim Tenas #6
Date Finished 24/11/75 Elev. Collar 2930' Core Size BQ

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 14'	Casing						
14 - 56.5'	Chlorite phyllite, pale to med. green, fine-grained, (strong cleavage) becoming more graphitic towards 56, cleavage at 90° to C.A. traces pyrite present.						
56.5 - 77'	Chlorite-graphite phyllite, dark green/grey, fine-grained, strong cleavage, scattered minor po in quartz augen and ribs, 1/2% po throughout, traces pyrite, cleavage 80° to C.A.			Pb	Zn	Ag	
77 - 132'	Sericite-chlorite phyllite, pale grey, grades from section above, sparse quartz augen and then siliceous ribs, (1/4"), traces po, thin quartz ribs, 1/2% po from 128-132	36605 (128' - 132')	4'	0.01	0.01	0.01	
132 - 139	Chlorite-graphite phyllite, dark grey, fine-grained, strong cleavage, 70° to C.A., some kink banding moderately sheared, traces po in quartz augen and silty (1/4") beds						
139 - 161	Meta-tuff, grey/green, fine to med. grained, chlorite $\pm$ epidote $\pm$ hornblende $\pm$ magnetite, traces po in hornblende porphyroblasts, mottled zone from 146' - 156'.	36608 (141' - 153')	2'	-	0.01	0.03	

DIAMOND DRILL RECORD

PROPERTY TENAS CREEK HOLE No. 75-2

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-2 Sheet No. 2 Lat. Total Depth.

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collor Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
161 - 172'	Meta-tuff, pale green, fine grained, chlorite + epidote						
	$\pm$ quartz becoming darker + more graphitic towards 172'.						
172 - 184'	Graphite schist, dark grey, boudinaged quartz ribs,						
	scattered quartz augen, scattered po present (1/4% to						
	1/2%), 6" quartz vein at 184' with minor hematite.						
184' - 209'	Meta-tuff, med. green, fine grained, impersistent						
	cleavage, actinolite $\pm$ chlorite, grading to a sericite						
	+ chlorite $\pm$ graphite zone from 194' towards 209', 1"						
	quartz vein at 206, blebs of po 1/2" diameter,			Cu	Pb	Zn	Ag
209 - 252'	Chlorite phyllite $\pm$ graphite $\pm$ quartz, fine grained,	36607	2'	-	0.02	0.02	0.03
	strong cleavage, becoming paler at 247', minor kink	(245' - 247')					
	banding present, traces po throughout, 2 - 3% po from						
	245 to 247, 1%, 242'-247', sparse quartz ribs present						
252 - 284'	Meta-tuff, chlorite - quartz $\pm$ actinolite, almost	36608	1.5'	0.03	0.02	0.54	0.06
	talcose in aspect, bedding characteristics becoming	(277' - 278.5')					
	evident from 280' to 284', small 1/3" stringers po from						
	255 to 256', 3" quartz vein at 258', 6" breccia at 278						
	(15 - 20% po), scattered blebs of po, 1/2" dram.						
	280' - 281'.						

DIAMOND DRILL RECORD

PROPERTY TENAS CREEK HOLE No. 75-2

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-2 Sheet No. 3 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
284 - 341'	Chlorite phyllite $\pm$ graphite, $\pm$ sericite, med. to dark						
	grey, graphitic partings present, strong cleavage, 72°						
	to C.A., interbedded characteristics with siltier units						
	evident from 335 to 341' with strong graphitic zone from						
	335 to 337', traces pyrite present along cleavage, traces						
	po in 1/8" blebs in sparse quartz augen and quartz ribs,						
	kink banding locally present.			Cu	Pb	Zn	Ag
341 - 368'	Meta-tuff, pale grey/green, chlorite $\pm$ epidote $\pm$ actino-	36609	6"	-	-	0.60	0.07
	lite $\pm$ quartz, impersistent cleavage, 6" quartz vein at	(367')					
	358', gradational into phyllite at 368'						
368 - 401'	Chlorite, phyllite $\pm$ graphite, almost schistose, strong	36610	5'	0.01	0.02	0.02	0.01
	cleavage, 70° to C.A., strongly bedded sections from	(375' - 380')					
	373 - 374, 382 - 387, "tops" up the hole(?), strongly						
	crenulated zone at 382 - 384, tension gashes at 40° to	36611	5'	0.01	0.02	0.07	0.06
	C.A. with 1 - 3% po at 391 - 394, blebs of po in silty	(383' - 388')				Au =	0.003
	members, traces po throughout, 1 - 2% po from 375 - 380,	Also semi-quantitative spec.					
	trace sphalerite(?), barite, in fractures, 3 - 5% po						
	from 383' - 388' in bedding replacements and minor frac-						
	tures, quartz augen with sparse po present.						

DIAMOND DRILL RECORD

PROPERTY TENAS CREEK HOLE No. 75-2

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. 75-2 Sheet No. 4 Lat. Total Depth

Section Dep. Logged By

Date Begun Bearing Claim

Date Finished Elev. Collar Core Size

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
401 - 441'	Meta-tuff, pale grey/green, chlorite ± epidote ± sericite				Zn	Ag	
	actinolite ± quartz, impersistent cleavage, possibly	36612	12"		0.06	0.01	
	agglemoratic at 411 - 412, darker graphitic phyllite	(415'	- 416')				
	sections at 414' - 416', 418' - 419', becoming bedded at						
	432' - 441', 2" quartz vein at 406', 6" vein at 437' with						
	1/2" blebs of po, traces po in graphitic sections						
441 - 446'	Phyllite, dark grey, chlorite ± graphite, fine grained	36613	2'		0.01	0.01	
	cleavage at 70° to C.A.	(442'	- 444')				
446 - 459'	Meta-tuff, med. green, chlorite actinolite, fine lamina-						
	tion becoming more evident from 454' - 459' traces po,						
	2" quartz vein at 447.						
459 - 462'	Graphitic Schist, dark grey, silicified, quartz augen						
	and quartz veins present, small 1/4" stringers of po						
	present.						
462 - 473'	Phyllite, grey/green, chlorite ± graphite, traces pyrite						
	present, strong cleavage, 80° to C.A.						
473 - 503'	Phyllite (meta-tuff) grey/green, chlorite ± quartz ±						
	sericite ± actinolite, trace cpy at 494, minor po						
	present, strong cleavage, 500, cleavage at 90° to C.A.						

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• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

A-1

CERTIFICATE OF ASSAY

CERTIFICATE NO. 30901

TO: Boliden Preussag Explor.
414 - 850 W. Hastings,
Vancouver, B.C.

INVOICE NO. 15919

RECEIVED Dec. 5/75

ATTN:

ANALYSED Dec. 15/75

SAMPLE NO.	% Copper	% Lead	% Zinc	Oz/Ton Silver	Oz/Ton Gold
36601A	<0.01	0.01	<0.01	<0.01	
36602			<0.01	<0.01	
36603		0.01	0.01	<0.01	
36604	<0.01	0.02	0.01	<0.01	
36605		0.01	<0.01	<0.01	
36606			0.01	0.03	
36607		0.02	0.02	<0.01	
36608	0.03	0.02	0.54	0.06	
36609			0.60	0.07	
36610 A	<0.01	0.02	0.02	0.01	
36611	0.01	0.02	0.07	0.06	<0.003
36612			0.06	<0.01	
36613			0.01	<0.01	

Spectro to follow on samples 36603,36611 & 36605

CTA MEMBER CANADIAN TESTING ASSOCIATION

REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604

CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

A-2

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 36489

TO: Boliden Preussag Explor.
414 - 850 W. Hastings,
Vancouver, B. C.

INVOICE NO. 15913

RECEIVED Dec. 10/75

ATTN:

ANALYSED Dec. 15/75

SAMPLE NO.	D.D.H.	footage	unit	PPM Copper	PPM Lead	PPM Zinc	PPM Vanadium	PPM Tungsten	Rock Geochem
740351	75-2	144'		152	20	120	260	<4	
740352	"	32 '		146	24	285	170	< 4	
740353	"	333'		40	28	420	1340	4	
740354	"	358'		18	16	120	120	< 4	
740355	"	433'		60	60	86	460	< 4	
740356	"	383'		10	26	248	400	4	
740357	"	495'		72	30	80	100	< 4	
740358	75-1	255		74	20	375	1960	30	
740359	"	319		80	54	211	440	< 4	
740360	"	68		54	72	160	100	< 4	
740361	"	297		46	16	174	190	4	

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Stan Ammenini

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 985-0648
AREA CODE: 604
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. SP 1011

TO: Boliden Preussag Explor,
414 - 850 W. Hastings,
Vancouver, B.C.
V6C 1E1

INVOICE NO. 15905

RECEIVED

ATTN:

ANALYSED Dec. 11/75

SAMPLE NO.	Lower Concentration Limit (PPM)	75-1 255' 36603 257	75-2,128' - 36605 132'	75-2, 383' - 36611 388'	
Antimony	50	bcl	bcl	bcl	
Arsenic	50	50	bcl	bcl	
Barium	5	2000	1000	1000	
Beryllium	5	5	bcl	bcl	
Bismuth	5	bcl	bcl	bcl	
Boron	20	100	50	50	
Cadmium	20	bcl	bcl	bcl	
Calcium	0.05%	0.5%	0.2%	5%	
Chromium	10	200	200	200	
Cobalt	10	20	10	20	
Copper	1	100	50	100	
Gallium	2	20	20	20	
Germanium	20	bcl	bcl	bcl	
Iron	0.05%	2%	2%	2%	
Lead	5	20	10	20	
Magnesium	0.02%	2%	1%	1%	
Manganese	5	1000	200	1000	
Molybdenum	10	20	bcl	10	
Nickel	5	100	50	50	
Niobium	50	bcl	bcl	bcl	
Silver	1	bcl	bcl	bcl	
Strontium	20	200	50	500	
Tantalum	200	500	bcl	200	
Tellurium	200	bcl	bcl	bcl	
Thorium	100	bcl	bcl	bcl	
Tin	10	10	bcl	bcl	
Titanium	5	5000	5000	5000	
Vanadium	10	1000	100	500	
Zinc	50	100	50	1000	
Zirconium	20	200	500	200	

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

>5000 ppm = > 5000 ppm		50 ppm	= 25–100 ppm
5000 ppm = 2500–10000 ppm		20 ppm	= 10–50 ppm
2000 ppm = 1000–4000 ppm		10 ppm	= 5–20 ppm
1000 ppm = 500–2000 ppm		5 ppm	= 2–10 ppm
500 ppm = 250–1000 ppm		2 ppm	= 1–4 ppm
200 ppm = 100–400 ppm		1 ppm	= 0.5–2 ppm
100 ppm = 50–200 ppm		bcl	= below concentration limit

Ranges for Iron, Calcium & Magnesium are reported in %

CTA MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: A. Bishop

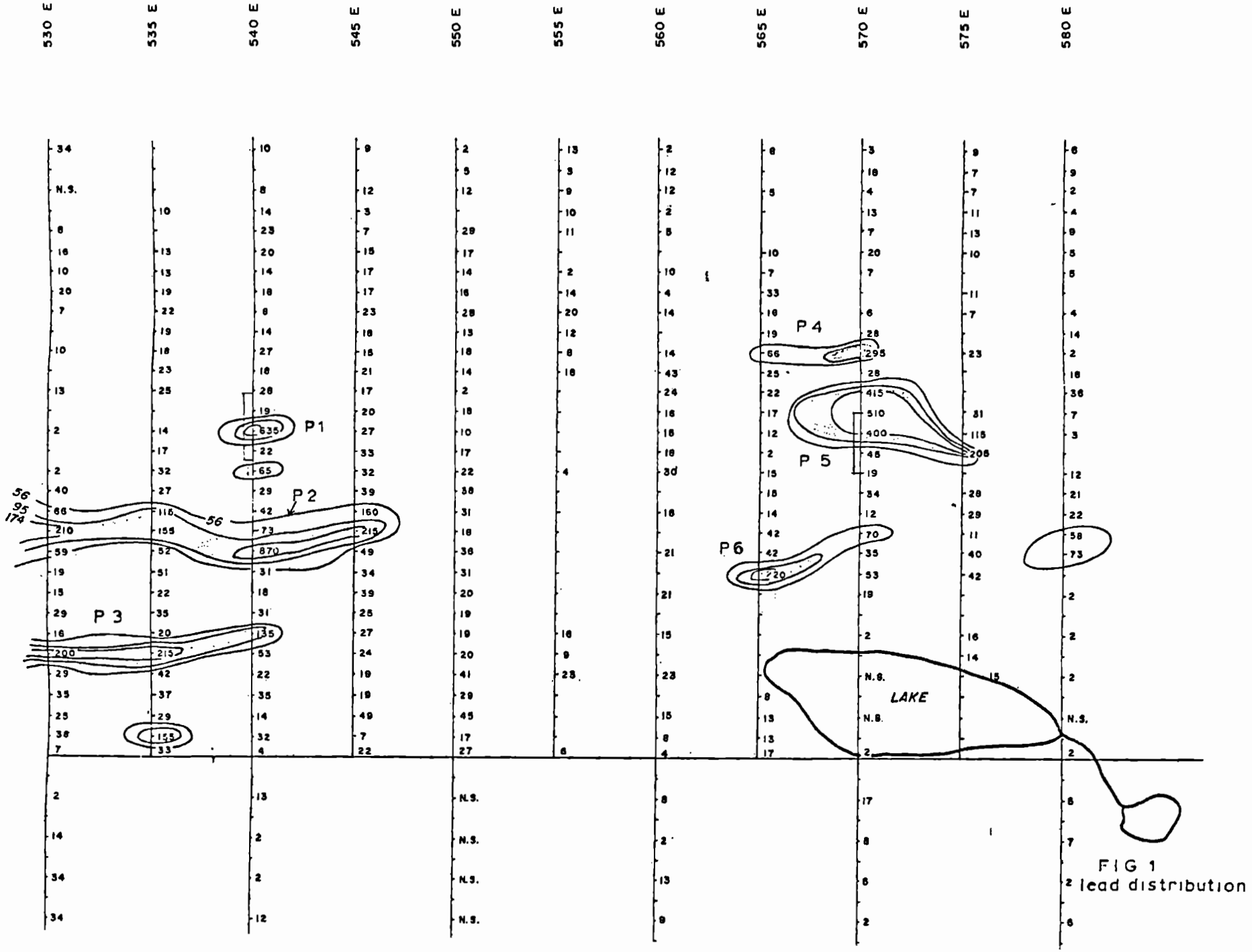


FIG 1
lead distribution

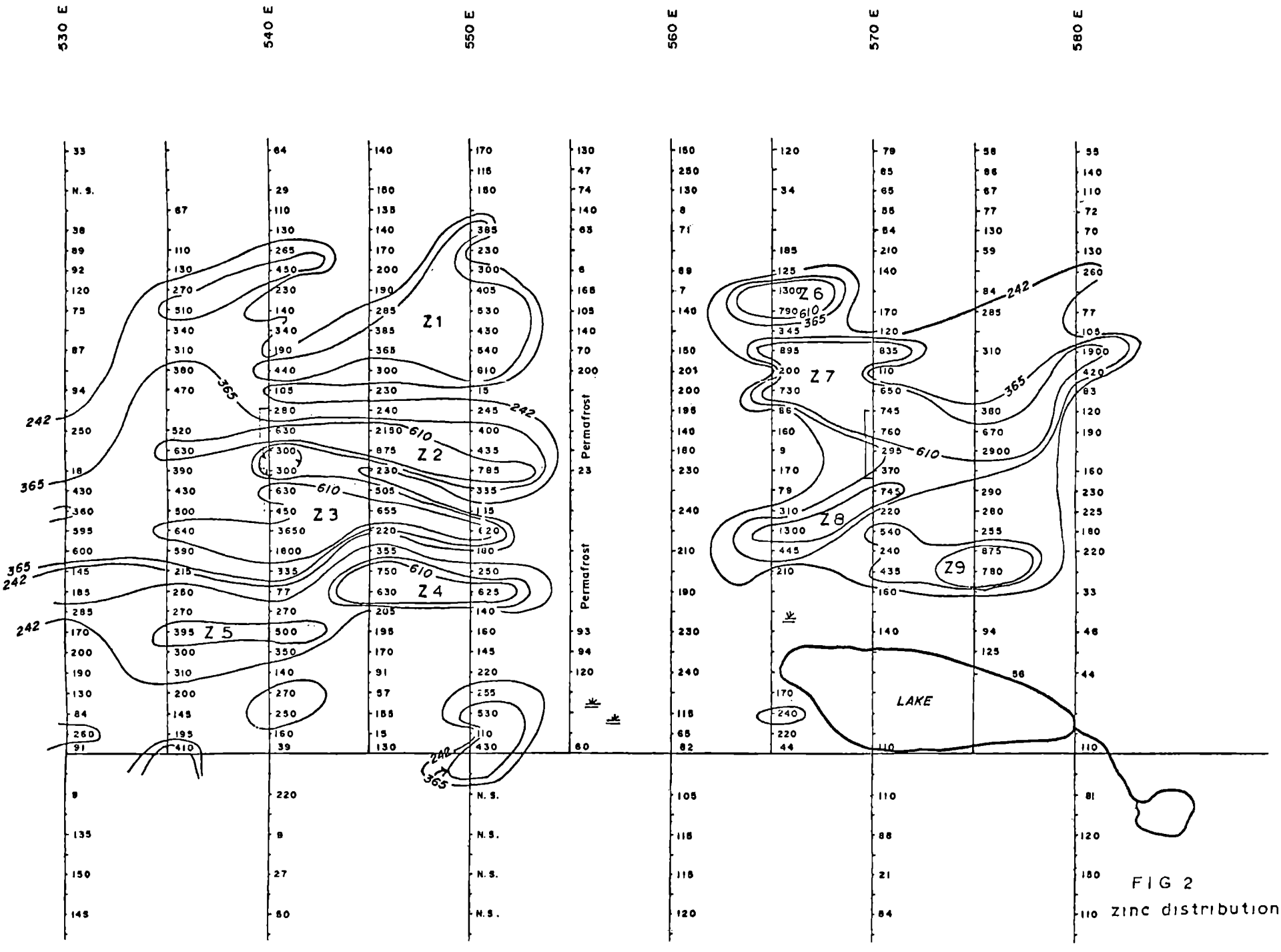


FIG 2
zinc distribution

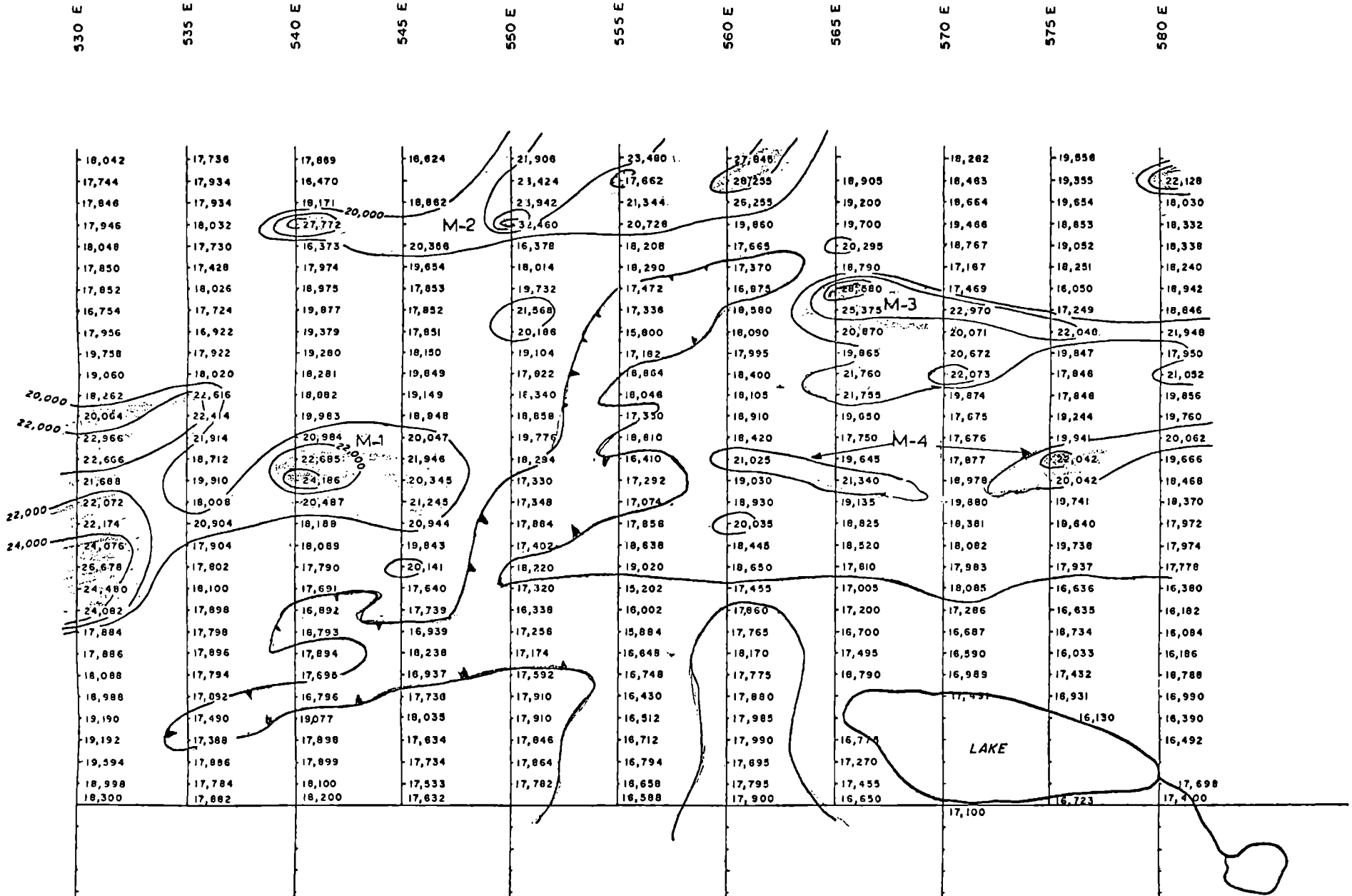


FIG 3
magnetic data

530 E
540 E
550 E
560 E
570 E
580 E
0·5
1·0
1·5
-25°
0°
+25°
phase difference
field strength
2
"A"
1
T1
T2
T3
T4
T5
T6
T7
LAKE
FIG 4
TURAM data

530 E

540 E

550 E

560 E

570 E

580 E

granite

2

graphitic
belt

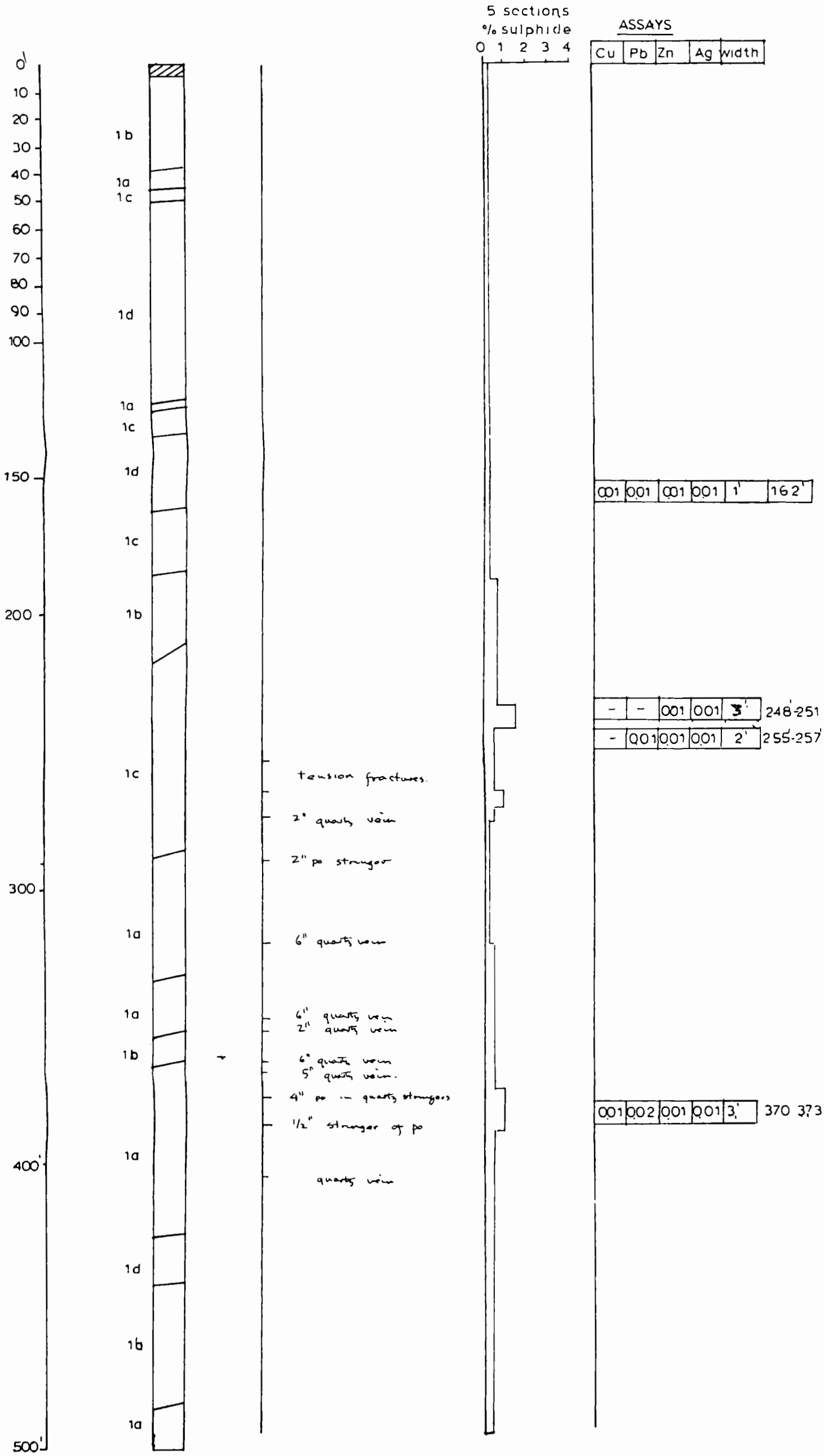
"A"

1

1

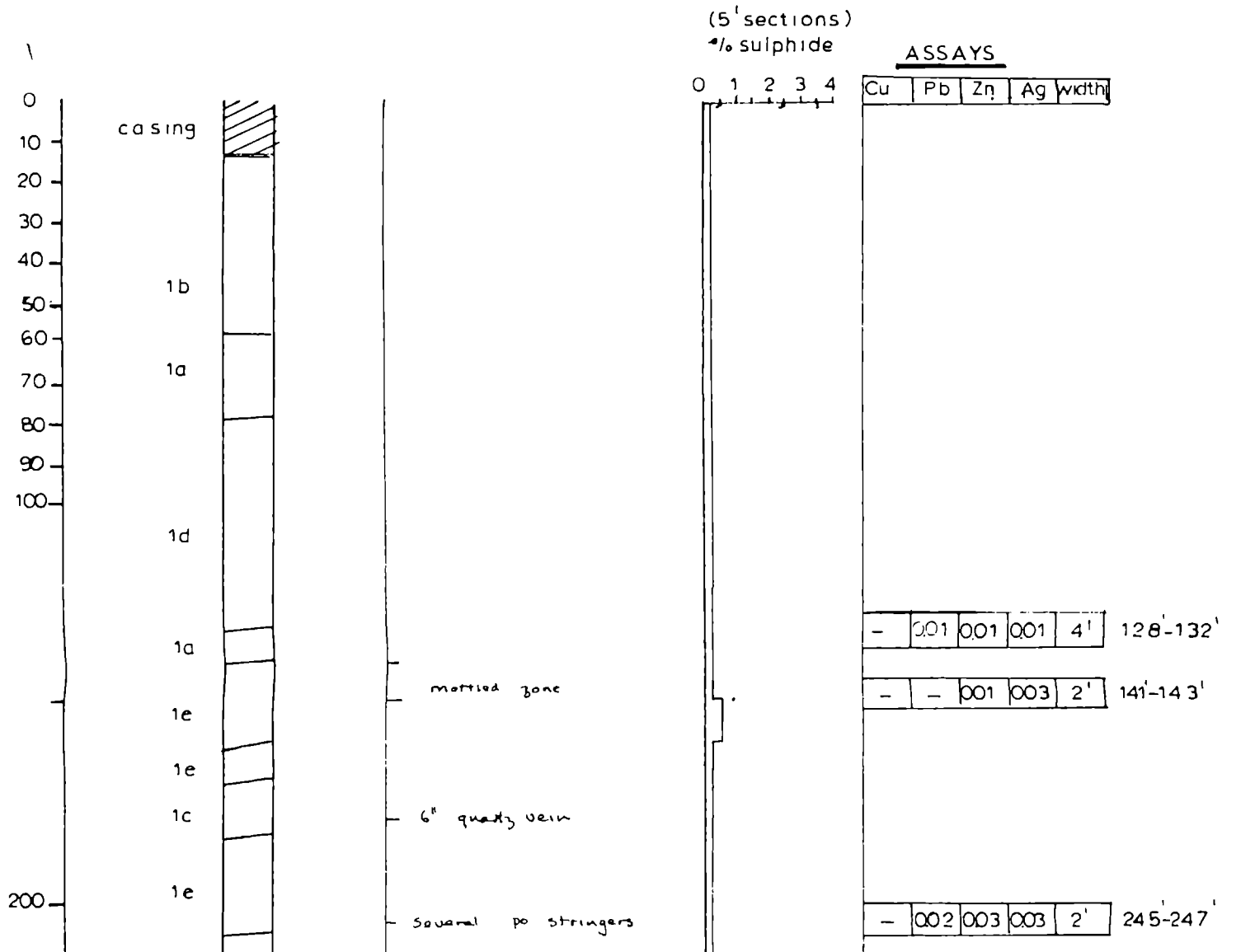
LAKE

fig 10



LEGEND ON MAP #6

BOLIDEN - PREUSSAG
TENAS CLAIMS
DRILL SECTION 75-1
FIG 5



1a – chlorite-graphite phyllite

1b – chlorite phyllite

1c – graphite schist phyllite

1d – sericite chlorite phyllite

1e – meta tuff

BOLIDEN-PREUSSAG
TENAS CLAIMS
DRILL SECTION 75-2
FIG. 6

B.L.

140N 142N 144N 146N 148N 150N 152N 154N 156N 158N 160N 162N 164N 166N 168N 170N

870

685

300

200

ppm Pb

100

0

3650

1800

1000

750

ppm Zn

500

250

0

2770

2500 ɣ

2250 ɣ

magnetic data

2000 ɣ

1750 ɣ

T 1

25°

phase difference

0°

-25°

pd

ls

1.5

TURAM

1.0 field strength

0.5

granite

?

1b 1a 1d 1c 1a 1b 1d 1b 1c 1a 1b 1a 1d 1b 1a

LEGEND

- chlorite graphite phyllite
- chlorite phyllite
- graphite schist
- sericite chlorite phyllite
- meta tuff

2250

3000

2750'

BOLIDEN-PREUSSAG

SECTION 540-E

TENAS CREEK

fig 7

inches 0 1

0 1 2 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the original image so it can be used as a reference for the original size.

BL.
140 N 142 N 144 N 146 N 148 N 150 N 152 N 154 N 156 N 158 N 160 N 162 N 164 N 166 N 168 N 170 N

510
400
415

300
200
ppm Pb
100
0

1000
750
500
ppm Zn
250
0

2500 γ
2250 γ
magnetic data
2000 γ
1750 γ

T-4
T 5
T 7
T 6
25°
phase difference
0°
29°
p.d.
f.s.

1·5
TURAM field strength
1·0
0·5

3250'
3000'
2750'
2500'

75-2
-50°
LAKE
LEGEND (as fig 7)

BOLIDEN - PREUSSAG

SECTION 570-E

TENAS CREEK

fig 8

inches
centimetres
This reference scale bar has been added to the original drawing. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.