



42H035W0012 63.4812 DARGAVEL

010

DARGAVEL TOWNSHIP

<u>Anomaly No.</u>	<u>Remarks</u>
63-1-63	No conductor located - found old telephone line. See Mabee Township.
63-1-64	No conductor located.
63-1-165	Weak conductor located. South part on side of magnetic high.
1-05A	No conductor located.
1-06	No conductor located.
1-06A	Very weak, short conductor north of magnetic zone.
1-06C	Weak-medium conductor located west of response and north of magnetic zone. Drilled BH-27092 - poor explanation for conductor (minor pyrite and pyrrhotite) but magnetics explained by iron formation and magnetite in peridotite.
1-06E	Two short, weak conductors south of magnetic zone.
1-07	Medium conductor on south flank of broad magnetic zone. Conductor joins 1-13B and 1-14. Drilled BH-25014 - conductor and magnetics explained by pyrite, pyrrhotite and magnetite in peridotite.
1-08	Medium conductor associated with weak magnetic high. Drilled BH-25013 - conductor and magnetics explained by pyrrhotite, pyrite and iron formation.
1-08A	Medium conductor east of narrow magnetic zone.
1-10	Medium-weak conductor with good magnetic association - work also covers 2-10 and north response of 4-01. Drilled BH's 25015, 25016 - conductor and magnetics explained by pyrrhotite, pyrite and iron formation.
1-13A	No conductor located on response.
1-13B	Short, weak conductor within high magnetic area east of response. Conductor joins 1-07.
1-14	Medium-strong conductor (which is extension of 1-07) south of high magnetic area over part of

Dargavel Township

<u>Anomaly No.</u>	<u>Remarks</u>
	length. Drilled BH-27099 - conductor and magnetics explained by graphite, pyrite and magnetite in peridotite.
1-15	Weak, non-magnetic conductor.
1-16	Medium conductor on south edge of broad magnetic high. Another, very weak, conductor located to north. Former conductor drilled BH-27037 - explained by graphite, pyrrhotite and pyrite.
1-17	No conductor located on northernmost responses.
1-17A	No conductor located on southern responses or most northern response of 1-24.
1-19	No conductor located.
1-20	Very weak, non-magnetic conductor.
1-21	No conductor located.
1-22	No conductor located.
1-23	One definite indication and several weak ones found but no conductor established.
1-24A	No conductor located on northern responses.
1-24B	No conductor located.
1-24C	No conductor located.
1-26	No conductor located.
1-27	Very weak conductor north of weak magnetic zone - work also covers most western response of 1-07.
1-28	No conductor located.
1-A	Magnetic detail outlined broad magnetic zone which is extension of the zone on anomaly 1-07.
2-21	No conductor located - work also covers 2-20.
2-22	No conductor located.
2-23	No conductor located.

Dargavel Township

<u>Anomaly No.</u>	<u>Remarks</u>
3-13A	Strong, magnetic conductor which also covers 3-62 and one response of 3-14. Weak-medium conductor to north. Drilled BH-25012 - strong conductor explained by pyrrhotite, pyrite and iron formation.
3-14	No conductor located.
3-15	No conductor located on western responses.
3-15A	Weak conductor which cuts across magnetic zone.
3-22	No conductor located.
3-22A	Several weak indications but no conductor established.
3-61	No conductor located.
3-62A	Short, weak, non-magnetic conductor on eastern responses of 3-14.
3-62B	Weak-medium, non-magnetic conductor on eastern responses of 3-13.
3-66	No conductor located.
3-67	Weak, non-magnetic conductor.
3-70	Weak conductor associated with weak magnetic high.
3-71	No conductor located.
3-72	Weak-medium conductor in area of moderately high magnetics. Drilled BH-25019 - conductor explained by pyrrhotite.
3-85	Several weak indications but no conductor established.
3-86	Very weak, non-magnetic conductor and several other weak indications.
3-87A	No conductor located.
4-01	Medium-weak conductor with good magnetic association. Drilled BH-25017 - conductor and magnetics explained by pyrrhotite, pyrite and iron formation.

Dargavel Township

<u>Anomaly No.</u>	<u>Remarks</u>
4-02	Weak, non-magnetic conductor.
4-02C	No conductor located.

DARGAVEL TOWNSHIP

<u>Borehole</u> <u>No.</u>	<u>Anomaly No.</u>	<u>Depth</u>	<u>Remarks</u>
25012	3-13A	844.0	Po, py, graphite, I.F.
25013	1-08	362.0	Po, py, I.F.
25014	1-07	1,505.0	Graphite, py, po, perido- tite, trace asbestos, chromite up to 13.35% over 1.0'
25015	1-10	56.0	Abandoned in ob.
25016	1-10	465.0	Po, py, I.F.
25017	4-01	415.0	Po, py, I.F.
25019	3-72	584.0	Po, py
27037	1-16	543.0	Graphite, py
27092	1-06C	909.0	Po, py, I.F., peridotite band
27099	1-14	658.0	Graphite, py, peridotite, trace asbestos

Total - 10 holes

6,341.0 feet

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY Abitibi A_{nom.} 3-13 H

SAMPLING RECORD

SHEET NO. 1

HOLE NO. 25012 DEPTH 844' ANGLE 55° STRIKE E ELEVATION — CO-ORDINATES 6400 S 11750 W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	OTHER Total Pm's	
0.0	Collar									
170.0	Overburden Clay - 87' Sand & gravel - 94' Clay - 170'									
	Casing BX 174 BX 175									
200.6	Schist, mic, fol at 20-30° cut by qtz stri and veins to and across fol, few specks of Py.									
210.0	MVW Qtz, mgr, impure fol at 25°, cut by few qtz stri, to fol. 2-3% Po, fgr, in irreg. stri.									
215.0	5% Py, fgr. MVW Qtz, mgr, fol. at 25°, mic, cut by qtz stri, to fol. 3-5% Po, fgr, in irreg. stri.	F228800	9.4	.04	.07	0.11	Pd .003	PT <.001	Au <.001	.004
220.0	MVW Schist, chloritic, schistose at 25°, cut by qtz stri, to schistosity some dissem. mag. 3-4% Po, fgr, dissem.	F228801	5.0	.03	.04	.07				Nil
225.0	MVW Schist, chloritic, loc. sil, some dissem. mag. 2-4% Po, fgr, dissem. and in patches.	F228802	5.0	.04	.05	.09				Nil
230.0	MVW Schist, schistose at 25°, cut by few qtz stri. to fol, some carb. alteration some dissem. mag. 2-3% Po, fgr. 1% Py, highly oxidized.	F228803	5.0	.04	.08	0.12				trace
		F228804	5.0	Nil	.05	.05				Nil

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 4

CO-ORDINATES

HOLE NO. 25012 DEPTH ANGLE STRIKE ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	Total Pm's	
420.0										
425.0	with gtz. and in patches MW Graph Schist, schistose at 35°, cut by gtz stri. to fol. develop. of boudins to schistosity. 10-12% Po, fgr. in stri. to schistosity and in patches	F228815	5.0	.03	.03	.06			Nil	
430.0	MW Schist, schistose at 35°, loc. sil, some gtz. patches. Graph boudins. 12-14% Po, fgr. in stri and veins (a2 @ 427) and patches.	F228816	5.0	.03	.03	.06			Nil	
440.0	MVW Schist, schistose at 35° highly sil, cut by gtz stri. to schistosity, some gtz patches, loc brecciated some boudins some graph boudins 6-8% Po, fgr. in stri and patches.	F228817	5.0	.01	.05	.06			Trace	
450.0	MVW Qte, fol. at 35° brecciated, loc schistose 6-8% Po, fgr. in irreg. stri. and patches.	F228818	10.0	.03	.05	.08			Nil	
455.0	MVW Qte, fgr. fol. at 30° highly brecciated, cut by gtz stri. and veins (fluorite- bearing), to fol. mic. 3-5% Po, fgr. in irreg. stri. and patches.	F228819	10.0	.01	.01	.02			Nil	
475.0	Qte, fgr. fol. at 30° highly brecciated. No vis. min.	F228820	5.0	.03	.03	.06			Nil	
496.0	Qte, fgr to mgr. mass to loc. fol. at 35°, cut by gtz stri.	F228821	20.0?	.01	.02	.03			Nil	

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY

SAMPLING RECORD

SHEET NO. 5

CO-ORDINATES

HOLE NO. 25012 DEPTH ANGLE STRIKE ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	Total Ppm's	
491.0										
497.5	MVW Qte, fgr. to mgr., sli. fol. at 35° to loc. banded, cut by irreg. qtz stri. 4-6% Pe, fgr., in irreg. stri. and patches.	F228822	6.5	.02	.04	.06			Nil	
528.0	Qte, fgr. to mgr., mass to sli. fol. at 35°, cut by few irreg. qtz stri.									
533.0	MVW Qte, fgr. to mgr., fol. at 30°, loc. brecciated. 3-5% Pe, fgr., in irreg. stri. and patches.	F228823	5.0	.02	.02	.04			Nil	
538.0	MVW Qte, fgr., sli. fol. at 35°, loc. brecciated, cut by few qtz stri. to fol. 3-5% Pe, fgr., in irreg. stri. and patches. 6 carb. bands	F228824	5.0	.02	.03	.05			Nil	
550.0	Qte, fgr. to mgr., fol. at 45°									
555.0	MVW Qte, fgr., sli. fol. at 35°, loc. brecciated. 2-4% Pe, fgr., in irreg. stri.	F228825	5.0	.01	.03	.04			Nil	
560.0	MVW Qte, fgr. to mgr., sli. fol. at 35°. 2-4% Pe, in stri. to fol.	F228826	5.0	Nil	.05	.05			Nil	
565.0	MVW Schist, schistose at 35°, loc. sil., cut by irreg. qtz and carb. stri., some qtz patches, loc. graphitic. 2-4% Pe, fgr., in irreg. stri.									
575.0	2% Py, fgr. MVW Schist, schistose at 35°, loc. sil., phyllitic, cut by qtz and carb. stri. to silic. testy, loc. graphitic	F228827	5.0	Tr.	.07	.07			Nil	

SAMPLING RECORD

SHEET NO. 7

CO-ORDINATES

HOLE NO. 25012 DEPTH ANGLE STRIKE ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		DEPTH Total Pm's
681.0	phyllitic, cut by few qtz- carb. stri.									
	2-4% Po, fgr, dissem.									
	2-4% Py, fgr.	F228835	10.0	Nil	.02	.02				Nil
691.0	MVW Schist, as above.									
	3-5% Py, fgr.									
	2-4% Po, fgr.	F228836	10.0	.01	.01	.02				Nil
701.0	MVW Schist, as above									
	3-5% Py, fgr.									
	2-4% Po, fgr, in irreg. stri.	F228837	10.0	.04	.02	.06				Nil
710.0	MVW Schist, as above.									
	2-4% Po, fgr, in irreg. stri.									
	2-4% Py, fgr, assoc. with qtz. stri. Amph.	F228838	9.0	.05	.02	.07				Nil
714.0	MVW Qz, mgr, highly metamorphosed, some develop. of pyroxene, sli. fol. at 55°; cut by few carb. stri. across fol.									
	2-4% Py, mgr, dissem.	F228839	4.0	.04	.03	.07				trace
724.0	MVW Schist, schistose at 65°, loc. phyllitic and graphitic cut by few qtz and carb. stri.									
	3-5% Po, fgr, assoc. with qtz. stri.									
	1-2% Py, fgr, dissem.	F228840	10.0	.04	.03	.07				Nil
734.0	MVW Schist, as above with few qtz patches.									
	3-5% Po, fgr, assoc. with qtz. stri.									
	1-2% Py, fgr.	F228841	10.0	.02	.02	.04				Nil
739.0	MVW Schist, as above									
	2-4% Po, fgr, replacing qtz patches.									
	2-4% Py, fgr, replacing qtz.	F228842	5.0	.05	.03	.08				Nil

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 8

CO-ORDINATES

HOLE NO. 25012 DEPTH ANGLE STRIKE ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		CUMUL Total PM's
							COPPER	NICKEL		
739.0										
749.0	MVW Schist, as above, cut by num. qtz. patches and few carb. stri.									
	8-10% Py., mgr., replacing qtz. patches.	F228843	10.0	.06	.04	.10				traces
759.0	MVW Schist, schistose at 35°, cut by num. qtz. stri and patches, sil. zone from 761-762.4.									
	6-8% Py., mgr., replacing qtz. patches and in irreg. stri.	F228844	10.0	.04	.02	.06		PT. .004		.004
764.0	MVW Schist, schistose at 35°, cut by few qtz. patches and irreg. stri.									
	4-6% Py., replacing qtz. patches and asses. with qtz. stri.	F228845	5.0	.04	.05	.09				Nil
769.0	MVW Schist, cut by num. qtz. stri. and patches									
	10-12% Py., replacing qtz.	F228846	5.0	.05	.03	.08	Zn .05			Nil
779.0	MVW Schist, cut by num. qtz. stri. and patches, loc. graphitic.									
	8-10% Py., mgr., replacing qtz. patches.	F228847	10.0	.05	.03	.08				Nil
784.0	MVW Schist, schistose at 55°, cut by num. qtz. stri and patches, some boudins, loc. graphitic.									
	8-10% Py., replacing qtz.	F228848	5.0	.02	.02	.04				Nil
787.5	MVW Schist, schistose at 45°, chloritic, cut by few irreg. qtz. and carb. stri.									
	1-2% Py., mgr. in irreg. stri. 2% po in talc bands	F228849	3.5	.02	.08	.10				Nil

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY Abitibi Anom. 3-13 A

SAMPLING RECORD

SHEET NO. 10

CO-ORDINATES

HOLE NO. 25012 DEPTH 844.0 ANGLE 55° STRIKE E ELEVATION 6700.5 11750W

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	CU. & NI.	
	log Summary									
0.0	Collar									
175.0	Casing BX 174'									
	BX 175'									
	Overburden Clay 87.0									
	Sand & gravel 99.0									
	Clay 170.0									
200.6	Schist.									
215.0	MVW Qte.									
230.0	MVW Schist									
235.0	MVW Qte.									
245.0	Qte.									
260.0	MVW Qte.									
290.0	Qte.									
370.0	Chlorite-schist									
378.0	Garnet-schist									
384.0	MVW Garnet-schist									
405.0	MVW Qte.									
440.0	MVW-MW Schist									
455.0	MVW Qte.									
491.0	Qte.									
497.5	MVW Qte.									
528.0	Qte.									
538.0	MVW Qte.									
550.0	Qte.									
560.0	MVW Qte.									
660.0	MVW Schist									
671.0	Phyllite									
710.0	MVW Schist									
714.0	MVW Qte.									
796.0	MVW Schist									
844.0	Qte.									
	End of Hole									

Acid Inclination Test

Depth Dip

Casing (180) 4.6

300 44

400 42.5°

500 42

600 38

700 36

Started April 19, 1964.

Completed April 30, 1964.

Drilled by Heath & Sherwood

Hole site R.X.

Logged by Jim Zimmerman

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 1

PROPERTY Abitibi Rhom. 1-08

CO-ORDINATES

HOLE NO. 25013 DEPTH 362.0 ANGLE 55° STRIKE S ELEVATION —4700N 10700E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		GRAND Total Ppm
0.0	Collar									
85.0	Overburden 85' sandy clay Casing NX-85.0									
114.0	Meta-diorite, cgr, consists of urcalite and potash feldspar with 5% qtz, loc chloritized, cut by few irreg qtz stri and patches.									
116.0	MVW Meta-diorite, cgr, loc. chloritized, cut by few irreg. qtz stri.									
	1.5-2% Py, fgr, in thin stri at 115.0.									
183.7	1% Sp, fgr. Meta-diorite, cgr, consists of urcalite and potash feldspar (increasing), loc. chloritized, cut by few qtz stri. (recrystallization of amp. around contacts)	E228852	2.0	.04	.02	.01				Nil
193.0	Rhyolite, fgr, massive, shows some flow banding.									
196.4	MVW Rhyolite, massive, shows some flow banding.									
200.0 M.S.	21% Py, fgr, in patches Massive Rhyolite, fgr, loc. chloritized, some dissem. mag. 20%.	E228853	3.4	.02	.03	.05				trace
201.5	65-70% Py, fgr, massive and in patches.	E228854	3.6	.04	.05	.09	Zn-trace		Au. 020	.020
	MW Rhyolite, fgr, cut by qtz vein at lower contact.									
	14-16% Py, fgr, in irreg vein.									
	2-3% Py, mgr, assoc. with P.	E228855	1.5	.01	.02	.03			Au. 017	.017

PROPERTY Abitibi 1-08

SAMPLING RECORD

SHEET NO. 4

CO-ORDINATES

HOLE NO. 25013 DEPTH 362 ANGLE 55° STRIKE S ELEVATION —

4400N 10100E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
Log Summary										
0.0	Collar									
85.0	Overburden - 85' sandy clay									
	Casing NX - 85.0									
114.0	Meta-diorite									
116.0	MVW Meta-diorite									
183.7	Meta-diorite									
193.0	Rhyolite									
196.4	MVVW Rhyolite									
201.5	MW to Mass. Rhyolite									
205.2	MVW Qtz vein									
211.1	MVW T.F.									
220.0	MVW Volcanic breccia									
224.0	Rhyolite									
243.0	Garnet-schist									
251.8	Andesite									
260.8	Rhyolite									
265.0	Garnet-mica schist									
284.7	Rhyolite									
288.0	Garnet-mica schist									
310.0	Andesite									
316.4	Rhyolite									
332.0	Andesite									
362.0	Rhyolite									
	End of Hole.									
	Started May 5, 1969									
	Completed May 10, 1969									
	Drilled by Keith & Sherwood									
	Hole size A.X									
	logged by Jim Zimmerman									

Acid Inclination Test
 Depth Dip
 Casing (88) 48°
 200' 45 1/2°
 300' 43 1/2°

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 2

CO-ORDINATES

HOLE NO. 25014 DEPTH ANGLE STRIKE ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		Total Pm's
							COPPER	NICKEL		
386.0	35°, cut by few gtz stri. Few specks of py (locally oxidized)									
393.0	chlorite-schist, schistose at 30°, loc. talcose sil.									
399.0	M.V.W. Graphite-schist, schistose at 40°, 15-20% graphite, cut by few irreg. gtz stri, small fault at 395'									
406.0	2-4% Py, fgr. in stri. to schistosity.	F228861	6.0	.05	.05	.10				trace
407.5	h.c.									
407.5	M.V.W. Graphite-schist, schistose at 30°									
411.0	2-3% Py, fgr. in stri. to schistosity.	F228862	1.5	.04	.08	.12				Nil
413.0	h.c.		3.5	.03	.09	.11				
413.0	M.V.W. Graphite-schist, schistose at 35°, cut by few gtz-carb stri. to schistosity.									
414.0	2-3% Py, mgt, assoc. with gtz	F228863	2.0	.03	.11	.14				Nil
419.0	h.c.		1.0	.02	.08	.10				
419.0	M.V.W. chlorite-schist, loc. graphitic, some develop. of amp, cut by few gtz-carb stri.									
424.0	<1% Py, fgr, dissem.	F228864	5.0	.02	.07	.09				Nil
426.0	h.c.		5.0	.04	.07	.11				
426.0	M.V.W. Graphite-schist, schistose at 30°, 5-10% graphite, some serpentine along fracture planes, cut by few gtz-carb stri.									
	2-3% Py, fgr, in stri. to schistosity.	F228865	2.0	.05	.08	.13				Nil

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 14

CO-ORDINATES

PROPERTY _____
HOLE NO. 25014 DEPTH _____ ANGLE _____ STRIKE _____ ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.		FEET X PER CENT		Total Pm's
				%	%	%		COPPER	NICKEL	
1291.2	sharp colour contact at 1289, cut by few irreg. carb stri, sli magnetic.									
1293.0	Chromite, fgr, dips at 30° some feldspar crystals concentrated along margins. 40% chromite	F246843	5.6	.02	.21	.23				
1294.3	Peridotite, mgr to cgr, brownish- grey. Chromite band fgr, from 1293.4-1293.5, contains some anhedral feldspar crystals. 35% chromite.	F246844	1.8	.02	.25	.27	Cr ₂ O ₃	11.09		trace
1309.3	Peridotite, mgr, brownish- grey, spotted appearance, sheared (1308.6-1309.3), some blue clay alteration develop on fracture planes, cut by few irreg carb stri.	F246845	1.3	.01	.24	.25	Cr ₂ O ₃	5.11		Nil
1320.1	Peridotite, mgr to cgr, brownish-grey, (pyroxenite?), cut by few irreg carb stri, some loc colour banding at 10° sheared § 1309.3-1310.8, 1313.1-1317.8									
1321.6	sli mag. Peridotite, mgr to cgr, greenish-grey, spotted appearance Chromite band (1320.6-1320.8), fgr, contains some anhedral feldspar crystals.	F246846	15.0	.02	.23	.25				
1336.6	Peridotite, mgr to cgr, brownish-grey, (pyroxenite?), some blue clay alteration along fracture planes, sli magnetic.	F246847	10.8	.02	.33	.35				
1351.6	Peridotite, mgr to cgr,	F246848	1.5	.02	.37	.39	Cr ₂ O ₃	2.88		Nil
		F246849	15.0	.02	.21	.23				

SAMPLING RECORD

HOLE NO. 25014 DEPTH ANGLE STRIKE ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	CU. & NI.
1441.6	grey, spotted appearance, some colour banding at 8°, cut by few irreg. mag. stri., small shear at lower contact.	F246856	15.0	.01	.18	.19				
1456.6	Peridotite, mgr. to sgr, spotted appearance, loc. serpentinized, sli. magnetic.	F246859	15.0	.02	.19	.21				
1471.6	Peridotite, fgr. to mgr., brownish-grey, spotted appearance, some colour banding at 8°, cut by few irreg. stri. of mag. small shear near lower contact.	F246858	15.0	.02	.17	.19				
1486.6	Peridotite, mgr., brownish-grey, (pyroxenite?), spotted appearance, some blue-clay alter. along fracture planes, sli. mag. One asbestos veinlet (1/8") at 1486.0 (cross-fiber)	F246859	15.0	.02	.24	.26				
1501.6	Peridotite, mgr., brownish-grey, spotted appearance, some dissem. mag. (1490.0 - 1490.5, 1500.9 - 1581.0), some clay and carbonate alter. along fracture planes.	F246860	15.0	.02	.19	.21				
1505.0	Peridotite, mgr., brownish-grey, (pyroxenite?), spotted appearance, sli. mag. End of Hole	F246861	15.0	.02	.24	.26				

PILOT PLANT

Asbestos Section

Shipper:- Canadian Nickel Company Ltd.
Copper Cliff, Ont.

Project No:- 474-2

Lot No:- 3

Diamond Drill Hole:- 25014

Length of core:- 1,000-1,060'

Location of the sample:- Anomaly 1-07

Date of reception:- July 23rd 1964.

TEST RESULTS

	<u>Lbs</u>	<u>Ounces</u>	<u>Percentage</u>
Gross weight of sample:-			
Moisture:-			
Net weight of sample:-	88.75	1420.0	
Weight of long fibre:-			
Weight of medium fibre:-		14.6	1.03
Weight of short fibre:-			
Dust collector fraction:-		20.0	1.41
Weight of tailings:-		1376.0	96.90
Loss:-		9.4	0.66

CLASSIFICATION

Quebec Standard	1/2"	1/4"	10-m	35-m	Pan	Group
			9.0	3.2	2.4	

Quebec, July 29th 1964.

48M tailings = 416 oz
48M " = 960 oz

By Arthur Baillet-Latour

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 17

PROPERTY Abitibi, Anom 1-07

CO-ORDINATES

400 W 200 S

HOLE NO. 25014 DEPTH _____ ANGLE _____ STRIKE _____ ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	CU. & NI.	
0.0	Collar									
248.0	Overburden									
378.0	Chlorite-schist (talcase)									
386.0	Greywacke									
393.0	Chlorite-schist									
432.0	MVW Graphite-schist									
445.0	MVW to MVW Chlorite-schist									
451.0	MVW Graphite-schist									
470.0	Diorite									
472.0	Graphite-schist									
475.0	Chlorite-schist									
476.5	MVW Qte.									
514.0	Diorite									
604.0	Qte.									
616.0	Mica-schist									
628.5	MVW Graphite-schist									
641.0	Schist									
704.0	Qte.									
727.0	Rhyolite									
728.5	Contact-rock (chloritic)									
825.0	Peridotite									
850.0	Peridotite 8-10% Asbestos									
917.2	Peridotite									
1082.3	Peridotite 8-10% Asbestos									
1083.1	Chromite band									
1085.0	Peridotite 8-10% Asbestos									
1091.2	Peridotite - occ. band									
	of chromite, few asbestos veinlets.									
1293.0	Chromite band									
1505.0	Peridotite - occ. band									
	of chromite, few asbestos veinlets									
	End of Hole									

Summary

Drilled by Heath & Sherwood
 Started May 7 1964
 Completed May 26 1964
 Hole size 8" BX
 All casing removed
 Logged by Jim Zimmerman

Acid Inclusion Tests

Depth	Dip
180	40°
248	40°
350	40°
450	51°
550	51°
650	47°
750	46.5°
850	43°
950	43°
1150	43.5°
1250	42.5°
1350	41.5°
1450	45°

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 5

PROPERTY Abitibi Anom. 1-10

CO-ORDINATES

HOLE NO. 25016 DEPTH 465' ANGLE 55° STRIKE W ELEVATION —

4100S 2100E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.		FEET X PER CENT		
				%	%	%		COPPER	NICKEL	CU. & NI.
0.0	Collar									
146.0	Overburden - sandy clay									
272.0	Rhyolite									
282.0	MVW Rhyolite									
288.0	M Rhyolite									
328.9	MVW Rhyolite									
371.0	Rhyolite									
385.0	MVW Rhyolite									
465.0	Rhyolite									
	End of Hole									
	Hole started May 14/64									
	Hole completed May 17/64									
	Drilled by Heath & Sheppard									
	Hole size 8X									
	logged by Jim Zimmerman									

Acid Inclination Tests
 Depth Dip
 casing (150') 53°
 250 54°
 350 51°
 450 52°

Nbitibi Area
4-01

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED
SAMPLING RECORD

SHEET NO. 1

PROPERTY

CO-ORDINATES
0100 2130 N

HOLE NO. 25011 DEPTH 415 ANGLE 55° STRIKE S ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		Total gm's
0.0	Collar									
102.0	Overburden - sandy clay 97' boulders-102'									
	Casing NX - 96.0 FX - 112.0									
104.5	Diorite, cgr, sli. fol. at 85°, some chloritiz, cut by few qtz - carb. stri. to fol., few specks of py.									
134.0	Diorite, mgr, sli. fol. at 75°, cut by few qtz - carb. stri., sli. chloritiz.									
154.5	Porphyry, mgr, dioritic in comp. with large phenocrysts of qtz, cut by few irreg. qtz stri.									
174.5	Amphibolite, cgr, consists of cgr. fibrous amp. with 10-20% feldspar and 5% qtz, some chloritiz. of amp., cut by few small irreg. qtz. stri.									
176.0	Amphibolite, cgr., highly chloritiz. at lower contact. No vis. min.	F216818	1.5	.05	.02	.07				Nil
181.4	MVW Sericite schist, light grey, schistose at 90°, cut by num. irreg. qtz. veins and stri., cut by few carb. stri. at lower contact. 3-5° Py, fgr. to mgr, in irreg. stri. and patches, some lead. of Py. 2-4% Po, fgr, asses. with Py.									
185.3	MVW T.F., fgr, consists	F216819	5.4	.03	.03	.06				Nil

SAMPLING RECORD

SHEET NO. 3

CO-ORDINATES

PROPERTY _____ HOLE NO. 25017 DEPTH _____ ANGLE _____ STRIKE _____ ELEVATION _____

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		CUMULATIVE Total Ppm's
							COPPER	NICKEL		
225.5										
228.3	Chlorite-schist, light green, schistose at 75°, loc. develop. of amp., garnetif. loc. sil.									
242.9	T.F., banded at 70°, fgr. to mgr. consists of irreg. bands of honey coloured amp. and qtz.									
248.3	Sericite-schist, light grey, soft, schistose at 80°									
249.4	Chlorite-schist, garnetif., schistose at 75°, some interbands of sericite schist (contain crystals of amp.), some dissem. mag.									
251.0	Sericite-schist, fgr., light grey, schistose at 80°									
252.5	Chlorite-schist, schistose at 80°, some interbands of sericite-schist (contain large amp. crystals), some dissem. mag., garnetif.									
256.3	M.W. Chlorite-schist, fgr., garnetif., abundant mag. (dissem. and in patches), cut by carb. stri. from 253.9 to 259.1), contains some highly chloritiz. inclusions. 10-12% Pb, fgr. in irreg. stri. and around margins of the inclusions. 2-3% Py., mgr., assoc. with Pb.	F246823	1.5	.04	.03	.07				Nil
261.4	M.W. Chlorite-schist, poorly banded at lower contact at 75°, abundant mag. as dissem. and	F246824	3.8	.03	.01	.04		PT.002		.002

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 7

PROPERTY (Own Area) Anom 4-01
Atib. (Agree)

CO-ORDINATES

HOLE NO. 25017 DEPTH 415.0 ANGLE 55° STRIKE S ELEVATION 0100 2130 N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	CU. & NI.
0.0	Collar									
102.0	Overburden									
134.0	Diorite									
154.5	Porphyry									
176.0	Amphib.									
181.4	MVW Sericite-schist									
185.3	MVW I.F.									
188.5	Greywacke									
195.2	Qte.									
197.0	MVW Chlorite-mica-schist									
210.0	Qte.									
225.0	I.F.									
228.3	Chlorite-schist									
242.9	I.F.									
248.3	Sericite-schist									
249.4	Chlorite-schist									
251.0	Sericite-schist									
252.5	Chlorite-schist									
261.4	MW Chlorite-schist									
267.0	MVW Garnet-chlorite-schist									
270.0	Garnet-chlorite-schist									
272.5	MVW Garnet-chlorite-schist									
276.5	Garnet-chlorite-schist									
300.0	Sericite-schist									
322.0	Garnet-chlorite-schist									
326.5	Sericite-schist									
332.0	Garnet-chlorite-schist									
357.9	Greywacke									
362.9	MVW Garnet-mica-schist									
370.0	Garnet-mica-schist									
375.0	MVW I.F.									
378.0	MVW Chlorite-schist									
393.1	Greywacke									
400.1	I.F.									
415.0	Garnet-mica-schist									
	End of Hole									

Started May 20, 1964
 Completed May 24, 1964
 Drilled by Heath and Sherman
 Hole size 8X
 Logged by Jim Zimmerman

Acid Inclination Test
 Depth Dip
 Casing (102') 56.5°
 200' 56°
 300' 56°
 400' 55°

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY

Fnom. 3-72

SAMPLING RECORD

SHEET NO. 2

CO-ORDINATES

HOLE NO. 25019 DEPTH ANGLE STRIKE W ELEVATION 0700 3700 E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	CHANGING Total P.M.
337.0	grey, loc b'nded at 65° sil. 1-2% Pa, fgr, in irreg. band (336.2- 338.5) 1% Cpy, fgr, assoc. with pa.	F246914	2.0	Nil	Nil				Nil	
338.0	MVW Amphib. as above 1% Pa, fgr, in qtz. band (1 1/2") at 337.4	F246915	1.0	Nil	.05	.05	338.0		trace	
345.0	Amphib. mgr, greenish-grey, fol. at 65°, cut by few irreg. qtz. stri. sil, sli chloritiz						345.0			
349.0	MVW Amphib. mgr, b'nded at 60°, consist of green and/or honey coloured amp, sli. chloritiz, loc sil. 1-2% Pa, fgr, assoc. with qtz. stri.	F246916	4.0	Nil	.01	.01	349.0		Nil	
355.0	Amphib. mgr, greenish-grey, fol. at 60°, cut by few irreg. qtz. stri, highly chloritiz, loc sil.						355.0			
357.0	MVW Amphib., greyish- green, poorly b'nded at 60°, sil, highly chloritiz. 1% Pa, fgr, small stri. at 356.4	F246917	2.0	Nil	.03	.03	357.0		Nil	

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 3

PROPERTY

Anom. 3-72

CO-ORDINATES

HOLE NO. 25019 DEPTH ANGLE STRIKE ELEVATION 0100 3700 E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		COPPER	NICKEL	Total Ppm
370.0	Amphib, mgr, greenish-grey, fol at 55° to poorly bided at 55°, cut by few irreg. qtz. stri.						370.0			
373.5	MVVW Amphib, mgr, grey, poorly bided at 60°, cut by few irreg. qtz. stri, loc. sil. <1% Po, fgr, in irreg. stri.	F246918	3.5	Nil	.02	.02				Nil
386.0	Amphib, mgr, fol. at 60° to poorly bided at 60°, sil, cut by num. irreg. qtz. stri, sli. chloritiz.						386.0			
389.0	MVW Amphib, mgr, greenish-grey, fol. at 65°, cut by num. irreg. qtz. stri. 1-2% Po, fgr, in small irreg. stri. at 386.6 and at 387.6	F246919	3.0	Nil	.01	.01				Nil
393.0	Amphib, mgr, as above, poorly bided at 70°.						393.0			
416.7	Greywacke mgr, grey, mic, loc. chloritiz, cut by few irreg. qtz. stri, highly chloritiz. at lower contact.						416.7			
422.0	Amphib, mgr, greenish-grey, sli. fol. at 60°, sil.						422.0			
423.0	MVW Amphib, mgr, green-grey, fol. at 60°, sil, chloritiz.						423.0			

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 4

CO-ORDINATES

PROPERTY

HOLE NO. 25019 DEPTH ANGLE STRIKE ELEVATION 0+00 3+00 E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		CUMUL. Total pms
423.0	2-3 % Py, fgc, in irreg. stri.									
432.4	1-2 % Py, mgr. Amphib. mgr. grey-green, fol. at 60°, sil, sli. chloritiz, mic, cut by few irreg. qtz. carb. stri.	F246920	1.0	.03	.04	.07	432.4			Nil
444.0	Chlorite-schist, green, loc. mic. cut by num. irreg. qtz. stri.						444.0			
453.0	Amphib. mgr. to sqc., poorly binded at 60°, cut by num. irreg. qtz. carb. stri, sil, sli. chloritiz.						453.0			
473.5	Chlorite-schist, green, same interbinded qtz, sil, loc. mic., cut by num. irreg. qtz. carb. stri.						473.5			
480.0	Amphib. mgr., green grey, cut by num. qtz. carb. stri.						480.0			
584.0	Qte, fgc. to mgr., mass. loc. mic, same inter binded garnetif. amph. (528.0 - 529.0; 532.3-533.0) End of Hole						584.0			

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 5

CO-ORDINATES

3100E

PROPERTY Owl Area Anom. 3-72

HOLE NO. 25019 DEPTH 584.0 ANGLE 58° STRIKE W ELEVATION

0100

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	CU. & NI.	
0.0	Collar									
297.0	Overburden									
325.0	Amphib.									
328.6	MVW Amphib.									
323.5	Amphib.									
338.0	MVW to MVW Amphib.									
345.0	Amphib.									
349.0	MVW Amphib.									
355.0	Amphib.									
357.0	MVW Amphib.									
370.0	Amphib.									
373.5	MVW Amphib.									
386.0	Amphib.									
389.0	MVW Amphib.									
393.0	Amphib.									
416.7	Greywacke									
422.0	Amphib.									
423.0	MVW Amphib.									
432.4	Amphib.									
444.0	Chlorite-schist									
453.0	Amphib.									
473.5	Chlorite-schist									
480.0	Amphib.									
584.0	Qte									
	End of Hole									
	Started May 29/64									
	Completed June 9/64									
	Drilled by Heath & Sherwood									
	Hole size HX									
	Hole not plugged									
	logged by Jim Finnesman									

Acid Inclination Tests
 Depth Dip
 Collar 58°
 Casing (300') 59°
 400 61°
 500 62°

PROPERTY OWL 1-16

DARGAVEL TWP. SAMPLING RECORD

SHEET NO. 1NE $\frac{1}{2}$, N $\frac{1}{2}$, L4, CV.

CO-ORDINATES

HOLE NO. 27037 DEPTH 543.0' ANGLE 50° STRIKE North ELEVATION 1700E 2450S

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH Feet Total Pm's	PROGRESSIVE TOTALS			
				COPPER	NICKEL	CU. & NI.		FEET X PER CENT			
				%	%	%		COPPER	NICKEL	Total Pm's	
00.0	Collar										
256.0	Overburden Bedrock										
256.0	Start of Coce										
318.0	Meta Dacite: fg, dk gy; flow folding with siliceous feldspathic zones, carb'd, cross cutting carb stringers, general banding @ 25°										
323	MuvW Meta Dacite: as for 318.0 sulp. 2.6% mass py clusters; trace Fe	F266837	6.0'	.02	.01	.03	6.05			Nil	
325.0	MuvW Meta Dacite: as for 318.0 sulp. 1.5% mass py; some Fe	F266838	2.0'	.01	.01	.02	6.05			Nil	
327.0	MuvW Meta Dacite: as for 318.0; Wall Rock Sample; f ~ 20; Trace py	F266839	2.0'	.01	.02	.03	6.05			Trace	
327.8	MuvW Meta Dacite: as for 318.0; sulp. 1.3% mass py; trace Fe	F266840	0.8'	.02	.01	.03	6.05			Trace	
332.8	MuvW Meta Dacite: as for 318.0; Wall Rock Sample Trace py	F266841	6.0'	.01	.03	.04	6.05			Nil	
352.8	Meta Dacite: as for 318.0; f ~ 15° Fragmented; becoming more siliceous										
357.8	MuvW Meta Dacite: as for 318.0; local carb'd vesicles & locally rich in phlogopite sulp. 2.1% concordant stringers mass py	F266842	5.0'	.02	.03	.05	6.05			Nil	
358.5	MuvW Meta Dacite: as for 318.0, epidotized some limonite staining sulp. 1.5% concordant stringers mass py	F266843	0.7'	.02	.02	.04	6.05			Trace	
363.5	MuvW Meta Dacite: siliceous feldspathic sh'd zone; 363-363.5 carbonized phase with limonite staining sulp. 2% diss py	F266844	5.0'	.02	.02	.04	6.05			Nil	

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY OWL 1-16 DARGAVEL TWP. SAMPLING RECORDSHEET NO. 2NE 1/4, N 1/2, L 4, C 1/2

CO-ORDINATES

HOLE NO. 27037 DEPTH 543 ANGLE 50° STRIKE North ELEVATION 1400 F 2+50 S

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET Zn (KRF)	PROGRESSIVE TOTALS		
				COPPER	NICKEL	CU. & NI.		FEET X PER CENT		
				%	%	%		COPPER	NICKEL	OTHER Total Ppm's
374.6	Meta. Dacite: highly shrdl becoming schistose, chlorid, epidotized & talcose; occ graphitic sh. planes; siliceous zones; locally carbd, foliation variable 0-15°									
380.5	Talc Chlorite Schist: mg; gy - schistosity variable 0-15°, locally granulated									
390.5	Meta Dacite: as for 374.6									
404.0	Rhyolite: fg, gy, locally fragmented & shrdl; carbd; some limonite staining; occ thin covering of sulp along shrdl. Py, Fe									
426.6	Meta Dacite: fg; gy - green; chlorid, epidotized, carbd, highly shrdl; cross cutting carb veins & nests; sulp c.c. traces; diss Py; occ clusters mass Py & Fe									
434.2	Carbonized Argillite: fg; dk. gy; highly carbonized; Fe-25; carbd; epidotized, talcose; limonite staining; sulp c.c. occ concordant stringers mass Py									
439.2	MvW Carbonized Argillite: as for 434.2; Wall Rock Sample; trace Py	F266845	5.0'	.01	.01	.02	<.05			Nil
440.5	MvW Carbonized Argillite: as for 434.2; sulp c. 2% concordant stringers Py	F266846	1.3'	.03	.01	.04	<.05			Nil
450.5	MvW Carbonized Argillite: as for 434.2; sulp 20.5% occ mass Py stringers	F266847	10.0'	.01	Nil	.01	<.05			Nil
472.2	Carbonized Argillite: as for 434.2; sulp c.c. occ concordant stringers Py									
487.2	MvW Carbonized Argillite: as for 434.2; Wall Rock Sample; Py c.c. diss & stringers	F266848	10.0'	.01	Nil	.01	<.05			Nil

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY OWL 1-16 DARGAVEL TWP. SAMPLING RECORD
NEL, N $\frac{1}{2}$, L4, CV.SHEET NO. 4

CO-ORDINATES

HOLE NO. 27037 DEPTH 543' ANGLE 50° STRIKE North ELEVATION 1400E 2+50S

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	CU. & NI.	
	<u>Summary of Hole.</u>									
<u>00.0</u>	<u>Collar</u>									
<u>256.0</u>	<u>Overburden Bedrock</u>									
<u>323.0</u>	<u>Meta Dacite</u>									
<u>358.5</u>	<u>MvW-MvW Meta Dacite: Py, Po</u>									
<u>426.6</u>	<u>Meta Dacite (Locally Rhyalitic & Schistose)</u>									
<u>482.2</u>	<u>MvW-MvW Carbonized Argillite: Py</u>									
<u>485.5</u>	<u>MvW Carbonaceous Meta Tuffite: Py</u>									
<u>543.0</u>	<u>MvW-MvW Meta Tuffite:</u>									
<u>543.0</u>	<u>Bottom of Hole.</u>									
	<u>Date Started: September 9th 1965</u>									
	<u>Date Completed: September 23rd 1965</u>									
	<u>Drilled by: Heath & Sherwood Drilling Ltd</u>									
	<u>Core Size: Ax</u>									
	<u>Hole not plugged</u>									
	<u>Acid Tests: 256' - 48'</u>									
	<u>356' - 48'</u>									
	<u>456' - 44.5'</u>									
	<u>530' - 50'</u>									
	<u>Casing Lost: B x 2 x 10'</u>									
	<u>A x 5 x 10'</u>									
	<u>Logged by B.D. Milne</u>									

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 2

PROPERTY

CO-ORDINATES

HOLE NO. 21092 DEPTH 909.0 ANGLE -50 STRIKE S ELEVATION 4000E 1100N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET Zn (KRF)	PROGRESSIVE TOTALS				
				COPPER % (KRF)	NICKEL % (KRF)	CU. & NI %		FEET X PER CENT		COPPER	NICKEL	Total (KRF)
322.4												
321.0	Metadiorite, felds, amp, bio, chlor, mg, shrd and contorted @ 60-70°; occ calcite stringers											
338.1	Metaval. intermed. basic, fq; locally fq-mg, felds, amp, chlor, altered at beginning of entry; lineation @ 65-70°; occ calcite stringers.											
356.3	Metadiorite, fq-mg, chloritized, felds, chlor, amp, bio, shrd and contorted @ 55-65°											
370.3	Metaval. intermed. fq, felds, amp, chlor, contorted at beginning of entry; lineation @ 80°											
371.7	Metaval. intermed. basic, fq, felds, chlor, amp, chloritized, lineation @ 85°; 15% mag.											
381.9	Diorite, mg, altered, felds, bio, chlor, tremolite, contact with above @ 85°; occ calcite bands and stringers.											
396.3	Metagab, fq, felds, amp, chlor, bio, calcite bands, 1.0-2.5; grain size increasing towards end of entry.											
406.2	Mvwx, Metagab, fq, felds, amp, chlor, some bio in stringers; occ calcite stringers, occ spks, py, pe, zns or hematite											
		F291404	10.0	4.05	4.05		4.05					Pd...003
410.0	Mvwx, Metagab, fq, mg at end of entry, felds, amp, chlor, bio; occ calcite stringers and bands, occ spks py.											
		F291405	4.7	4.05	4.05		4.05					Nil

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 7

CO-ORDINATES

HOLE NO. 21032 DEPTH 909.0 ANGLE -50 STRIKE S ELEVATION 4005 1410N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET Feet Zn (KRF)	PROGRESSIVE TOTALS		
				COPPER % (KRF)	NICKEL % (KRF)	CU. & NI. %		COPPER	NICKEL	CUMUL. Total (KRF)
748.5										
756.1	MvW Metased. Tf. asto 748.5, occ calcite bands, <1% sulph in blebs and spks. po.	F291414	7.6	✓ 2.05	2.05		2.05			trace
757.4	MvW. Qtz band with occ metased remnants, 2%-5% sulph in clusters. po, 5% mag.	F291415	1.3	✓ 2.05	2.05		2.05			Nil
760.7	MvW. Metased? felds amp, chlor, bio, locally chloritized, banding felsic and mafic min, locally mag. fol @ 70°, occ qtz stringers, 3% sulph maps and stringers. po.	F291416	3.5	✓ 2.05	2.05		2.05			Nil
762.5	MvW. Metased. fq:mq:felds; amp, bio, chlor, qz, some banding felsic and mafic min, fol @ 75°, 8% sulph finely diss, and stringers. po, minor py, cp. - tr	F291417	1.8	.10	2.05		2.05			Nil
765.7	MvW. Metavol. basic felds, amp, chlor, with bands metased felds, amp, bio, chlor, mag, banding felsic and mafic min, fol @ 75°, occ qtz stringers, <1% sulph in clusters and spks. po. - 2-3%	F291418	5.2	✓ 2.05	2.05		2.05			trace
783.7	MvW. Peridotite. vfg, some serp. carbonitized, bxd. shrd @ 75-80°, contact with above @ 85-90°, non mag, <1% sulph in spks, po, py.	F291419	15.0	✓ 2.05	.16		2.05			trace
794.7	MvW. Peridotite. vfg, carbonitized non mag, shrd @ 75-80°, occ spks po.	F291420	11.0	✓ 2.05	.13		2.05			trace

SAMPLING RECORD

CO-ORDINATES

PROPERTY

HOLE NO. 27092 DEPTH 909.0 ANGLE 50 STRIKE 6 ELEVATION 4100 E

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER %	NICKEL %	CU. & NI %		COPPER	NICKEL	CU. & NI.
748.5	log summary (cont'd)									
762.5	Mvw-Mvw Metased. po, py, sp.									
768.7	Mvw. Metavol. basic; po									
794.7	Mvw. Peridotite; po.									
878.7	Amphibolite									
909.0	Metadiorite									
909.0	foot of hole									
				Date started: April 1966						
				Date completed: April 1966						
				Drilled by: Heath and Sherwood Drilling Limited.						
				BBS II						
				Casing pulled; 50.0' of casing left in hole.						
				Axt core.						
				Corrected Acid tests:						
				147.00' @ 140.0'						
				46.00' @ 240.0'						
				46.30' @ 340.0'						
				43.00' @ 440.0'						
				41.00' @ 540.0'						
				40.30' @ 640.0'						
				39.00' @ 740.0'						
				33.30' @ 824.0'						
				Logged by W.M. Atkins and T.R. Gallant						

Dargand

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 1

PROPERTY Owl Area Room. 1-14

CO-ORDINATES

HOLE NO. 27099 DEPTH 658.0 ANGLE -50° STRIKE S ELEVATION - 6400W 5440N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER	NICKEL	OTHER:		FEET X PER CENT		
				% (XRF)	% (XRF)	Zn (XRF)		COPPER	NICKEL	Total Ppm
0.0	Collar									
198.0	Overburden									
210.0	Casing BX-198 Perid, fgr, light green, some asbes. veinlets (<1/16") at 40° cut by few irreg. carb. str.	F291256	12.0	4.05	.30		210.0			
220.0	Perid, fgr, green, sil. magnetic, few asbes. veinlets (1/16") at 40°	F291257	10.0	4.05	.27		220.0			
230.0	Perid, as above, small shear (45°) at 223'	F291258	10.0	4.05	.26		230.0			
240.0	Perid, as above	F291259	10.0	4.05	.31		240.0			
250.0	Perid, as above	F291260	10.0	4.05	.30		250.0			
260.0	Perid, as above, few asbestos veinlets (1/16")	F291261	10.0	4.05	.32		260.0			
270.8	Perid, as above, some mag. in str. and along slip planes.	F291262	10.8	4.05	.30		270.8			
280.0	Perid, fgr, green, some mag. in irreg. fractures.	F291263	9.2	4.05	.28		280.0			
290.0	Perid, fgr, green, some mag. in irreg. fractures, few asbestos veinlets (<1/16")	F291264	10.0	4.05	.31		290.0			
300.0	Perid, as above.	F291265	10.0	4.05	.35		300.0			
310.0	Perid, as above.	F291266	10.0	4.05	.29		310.0			
320.0	Perid, as above.	F291267	10.0	4.05	.27		320.0			
330.0	Perid, as above.	F291268	10.0	4.05	.30		330.0			
340.0	Perid, as above.	F291269	10.0	4.05	.25		340.0			
345.9	Perid, as above.	F291270	5.9	4.05	.23		345.9			
351.7	No vis. min. Contact-rock, gray-green, some cgr. enph., cut by irreg. sil. str. and sands	F291271	5.8	4.05	.13	4.05	351.7			trace

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 2

PROPERTY Owl Area Area. 1-14.

CO-ORDINATES

HOLE NO. 27099 DEPTH 658.0' ANGLE -50° STRIKE S ELEVATION - 6400 W 5440 N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER (% (KRF))	NICKEL (% (KRF))	COBALT (% Zn (KRF))		FEET X PER CENT		
							COPPER	NICKEL	Cobalt Total Ppm's	
151.7										
359.2	No vis. min. Talc-chlorite-shist, schistose at 55°, light green, loc. graphitic.	F291272	7.5	2.05	.19	2.05	359.2		Nil	
376.0	Amphib. mgr, green-green, cut by few glc-carb. str.									
378.9	MVW Amphib, as above, shear at 277.4-377.9 (graphitic with some leaching and oxidation)									
401.0	2-4% Py, assoc. w. shear Amphib, mgr, light green, fol. at 65°, cut by few glc str.	F291273	2.9	2.05	2.05	2.05	378.9		Nil	
439.2	Meta-sed, fgr, grey, bedded at 55°, cut by some carb. str. to bedding, loc. some py. to bedding planes.									
441.0	MVW Graphite-shist, fgr, black, schistose at 60°, some glc-carb. str. to schistose. 4% Py, mgr, assoc. with str.	F291274	1.8	2.05	2.05	2.05	441.0		Nil	
450.0	Meta-sed, fgr, grey, bedded at 55°									
460.0	MVW Graphite-shist fgr, black, schistose at 50°, cut by carb. str. to schistose. 4-6% Py, thin skin and str. to schistose.	F291275	10.0	2.05	2.05	2.05	460.0		Nil	
470.0	MVW Graphite-shist, as above.	F291276	10.0	2.05	2.05	2.05	470.0		Nil	
477.0	MVW Meta-sed, fgr, grey, fol. at 60° loc. sil. some irreg. glc-carb. str. to fol. 4-6% Py, fgr, in strand patches	F291277	7.0	2.05	2.05	2.05	477.0		Nil	

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

SAMPLING RECORD

SHEET NO. 3

PROPERTY Owl Area Assm. 1-14

CO-ORDINATES

HOLE NO. 27099 DEPTH 658.0' ANGLE -50° STRIKE S ELEVATION - 6400 W 5400 N

DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS FEET X PER CENT		
				COPPER (XRF)	NICKEL (XRF)	COBALT (XRF)		COPPER	NICKEL	COBALT Total Ppm's
477.0										
486.0	MVW Amphib. mgr, green, fol. at 70° loc. mic, few irreg. carb. patches, sli. magnetic. 3-5% Py, mgr. dissem.	F291278	11.0	1.05	1.05	1.05	486.0			Nil
491.0	MVW Graphite-shist, fgr, black, shistose at 60°, cut by few irreg. grt-carb. str. and patches. 4-6% Py, fgr, assoc. with carb. patches.	F291279	5.0	1.05	1.05	1.05	491.0			Nil
493.5	MVW Amphib. mgr, mass. 2-4% Py, mgr. dissem.	F291280	2.5	1.05	1.05	1.05	493.5			Nil
501.6	MVW Graphite-shist, fgr, black, shistose at 65°, cut by few irreg. grt-carb. str. and patches. 6-8% Py, fgr, in str. and patches.	F291281	8.1	1.05	1.05	1.05	501.6			Nil
524.0	Meta-seds, mgr, grey-green, fol. at 65°, cut by few grt str. to fol.; few specks of py.		22.4							
532.5	MVW Graphite-shist, fgr, black, shistose at 65°, cut by few grt-carb. str. to shistose. few sil. patches. 6-8% Py, fgr, assoc. w. sil. patches and in str.	F291282	8.5	1.05	1.05	1.05	532.5			Nil
561.5	Graywacke, fgr, green, fol. at 60°, cut by few carb. str.		29.0							
565.7	MVW Graphite-shist, fgr, black, shistose at 50°. 6-8% Py, fgr, in str.	F291283	4.2	1.05	1.05	1.05	565.7			Nil

NOTE: SHEETS 1-5 NOT SUBMITTED
 Recd.

FORM 288-A

THE INTERNATIONAL NICKEL CO. OF CANADA, LIMITED

PROPERTY OWL 1-16. DARGAVEL TWP. SAMPLING RECORD
SE 4, S 3, L 4, C II.

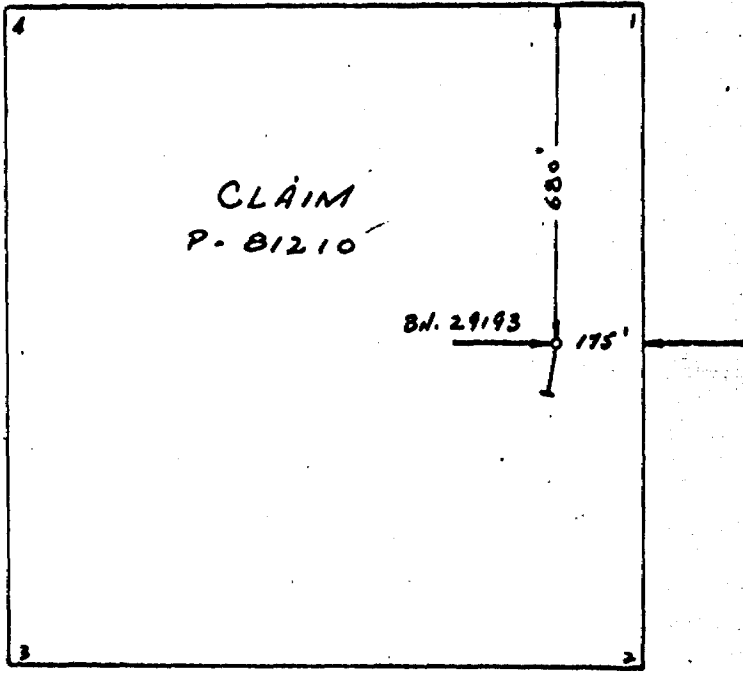
SHEET 6

CO-ORDINATES

HOLE NO. 29193 DEPTH 1504 ANGLE 50° STRIKE South ELEVATION 00.0 14+00 N

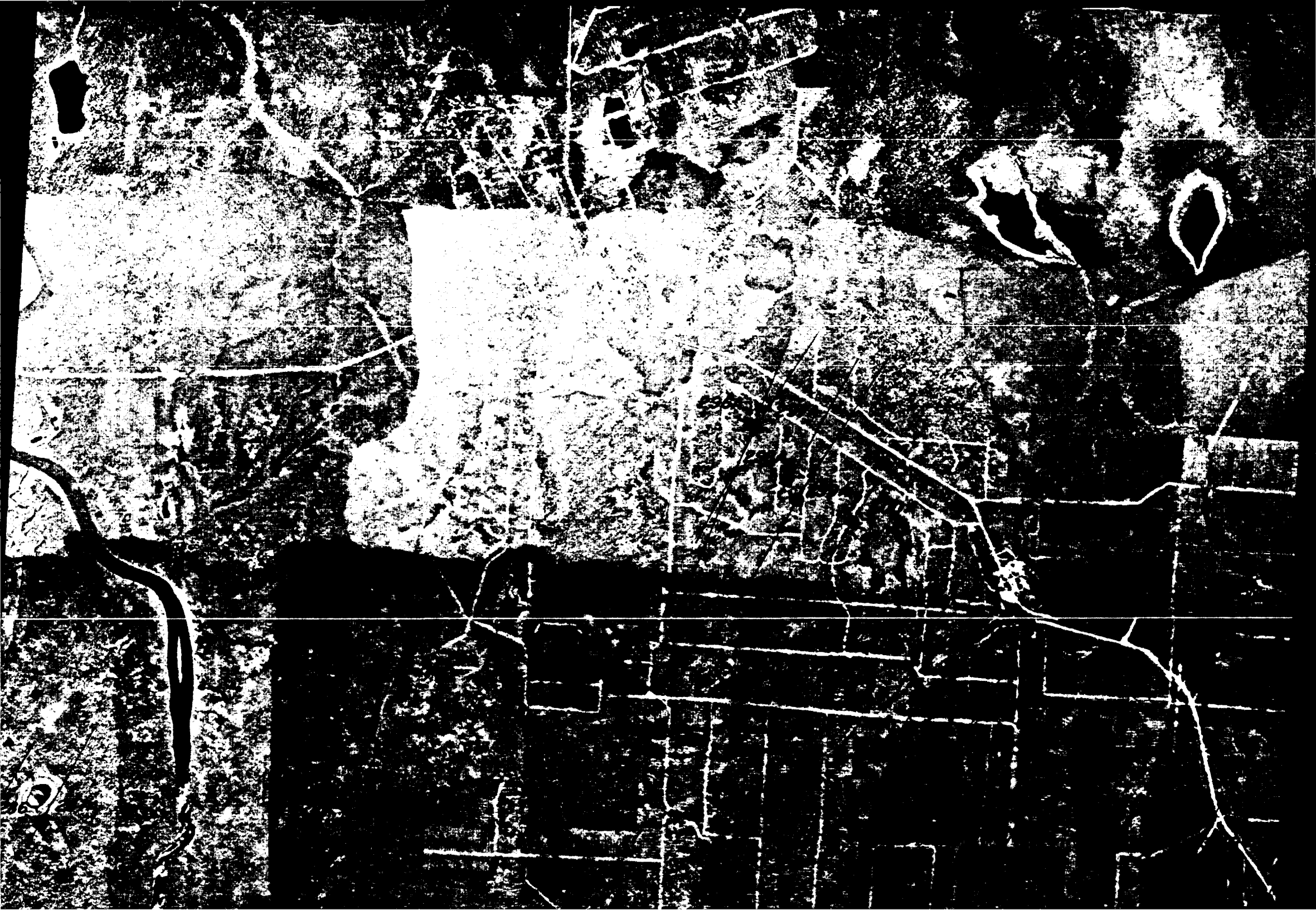
DEPTH FEET	FORMATION	SAMPLE NO.	LENGTH FT.	ANALYSIS			LENGTH FEET	PROGRESSIVE TOTALS		
				COPPER %	NICKEL %	CU. & NI. %		FEET X PER CENT		
							COPPER	NICKEL	CU. & NI.	
<u>Summary of Hole</u>										
00.0	Collar									
276.0	Overburden Bedrock									
409.0	Talc Chlorite Schist									
510.0	Serpentine									
660.0	Talc Chlorite									
672.0	Serpentine									
728.0	Serpentinized Basic Rock (Pyroxenite)									
1267.6	Serpentinized Pyroxenite: Chromites 2%									
1298.9	Marginal Phase									
1427.9	Talc Chlorite Schist									
1457.3	Carbonaceous Argillite									
1504.0	Chlorite Schist									
1504.0	Bottom of Hole:									
Claim: 81210 - 680'S & 175' W of Post 11										
Date Started: 25 th September, 1965										
Date Completed: 25 th October, 1965										
Drilled by: Heath & Sherwood Drilling Ltd										
Core Size: Ex										
Hole not plugged										
Casing Lost: None										
Acid Tests: 277' - 51° 1377' - 55.5°										
377' - 53° 1477' - 58.0°										
477' - 53.5°										
577' - 53.5°										
677' - 53.5°										
777' - 53.5°										
877' - 52°										
977' - 52°										
1077' - 50.5°										
1177' - 50.5°										
1277' - 54°										
Logged by: B.D. McKee										

Z



SE $\frac{1}{4}$, S $\frac{1}{2}$
LOT 4, CON. VI.

LOCATION SKETCH
of Bore Hole: 29193
LOCATED ON CL. 81210
DARKEVEL TWP.
SCALE: 1 INCH = 400 FT.



E.M. ANOMALY DATA SHEET

Anomaly No: DARGAVEL 1
Conductor No: _____
Block: 04
Project: KINGSMILL 2110

V.L.F. or

V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. Stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN III ha _____ 1-km _____

Complete Incomplete No. Lines: 2

LINE	<u>0+00</u>	<u>1+50 W</u>						
RATIO								
WIDTH								

Details: _____

MAGNETIC DATA Gear: SCINTREX MP-2 ha _____ 1-km _____

Complete Incomplete No. Lines: 2

LINE	<u>0+00</u>	<u>1+50 W</u>						
GAMMA								
SHAPE								

Details: _____

TRENCH DATA Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

<u>Graphite</u>		<u>Non-Econ. Sulphides</u>		<u>Econ. Sulphides</u>		<u>Other:</u>	
Bedrock <input type="checkbox"/>		Bedrock <input type="checkbox"/>		Bedrock <input type="checkbox"/>		Bedrock <input type="checkbox"/>	
Float <input type="checkbox"/>		Float <input type="checkbox"/>		Float <input type="checkbox"/>		Float <input type="checkbox"/>	

Details: OR TOO DEEP

GEOCHEMICAL DATA ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING ha _____ 1-km 2.05

GEOLOGY NO OTC

OTHER METHODS ha _____ 1-km _____

ANOMALY TRACED OUT WITH ELEAST

RECOMMENDATIONS

Conductor No. _____
Anomaly No: DARGAVEL 1

DATE 1981-07-15 BY MPC

DARGAVEL 1

GRID	LINE	ANOMALY	SURVEY	F	LOCATION	DEPTH	OE	DIP	WIDTH	COMMENTS
DAR 1	I		EI Post	675	3+25	150	3	—	—	
				2025	3+25	96	2	S	—	
	H			675	3+40	130	3	—	—	
				2025	3+25	130	4	—	—	
	F			675	3+75	95	2	—	—	
				2025	3+85	78	4	—	—	
	E			2025	3+90	80	7	—	—	

MODELLING

Current Phase

I

2025

310

120

17

150°

DAGGAUFL 1

Loop 2

25 Hz range change Problem removed

No Significant Anomalies

Loop 1

25 Hz Near wire problem - Small range change

No 1017 data Lines shown?

Conductor

Breakdown

at

relatively deep
lines
Centrally

Weak - mod or

other weak conductors are

- are probably cause of 3 3-4 then wire
- anomalies across top of grid
- other main road could be the only
- weak not conductors to south

DARGUEL 1

17002L

250 80

130

130

120

315

300

300

310

10

20

17

17

135

160

150

150

16/10/81

MIKE :

RETURNING THE HL FIELD NOTES ALONG WITH
SOME INTERPRETATIONS FOR DARGAUEL 1 & 4.

SORRY FOR THE DELAY WITH THESE. I CAUGHT YOUR
COLDS AND HAVE BEEN OUT FOR HALF THE WEEK.

THE I.P. DATA IS DEFINITELY POSITIVE THOUGH THE
RESISTIVITIES ON DARGAUEL 4'S ARE NOT SYMMETRIC.
YOUR TARGETS ARE MOST LIKELY MASSIVE & VERY
NARROW. THAT'S JUST A GUT FEELING, THE DRILLING
WILL TELL ALL.

LET ME KNOW HOW THINGS GO. THESE WILL MAKE
INTERESTING CASE STUDIES ONE WAY OR THE
OTHER.

REGARDS

BOB.

DARGAVEL #1

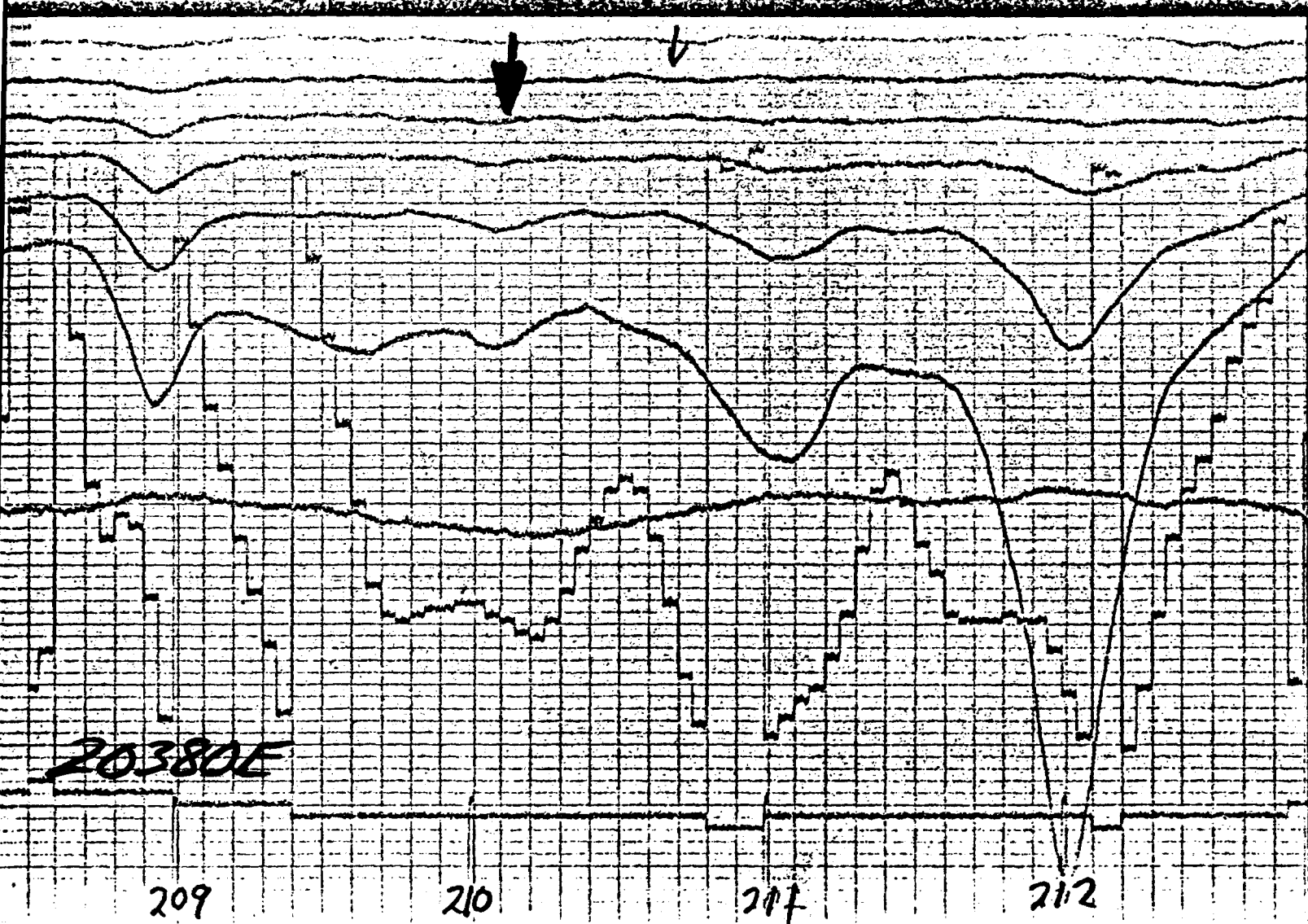
THE IP? SUGGESTS YOUR BEST TARGET AT 0+50'S
ON L 0+75 W, OBVIOUS FROM THE SECTIONS.

AL BAYS SUGGESTS THAT THE TURAM ANOMALIES
ARE SLIGHTLY (20-30m) NORTH OF THE TRUE
CONDUCTOR LOCATIONS.

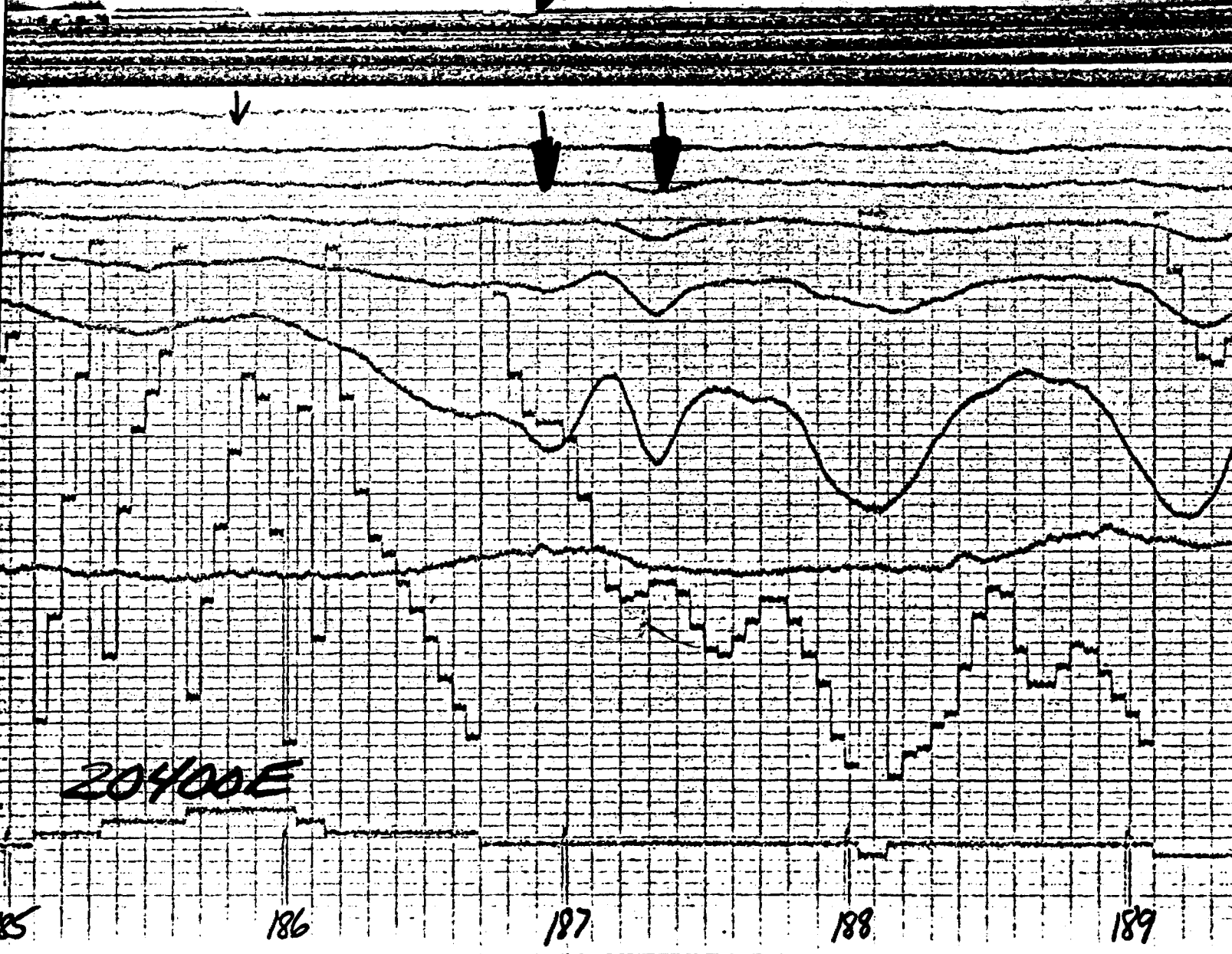
DEPTH QUOTES BY AL KING (TURAM DATA) ARE
PROBABLY GREATER THAN TRUE DEPTH. AL BAYS
ESTIMATES THESE AT 70M FOR LINE E TO
90M ON LINE I.

A SECOND CONDUCTOR AT 2+50 LINE E TO 1+50
LINE I IS ALSO APPARENT AND HAS SIMILAR
DEPTHS.

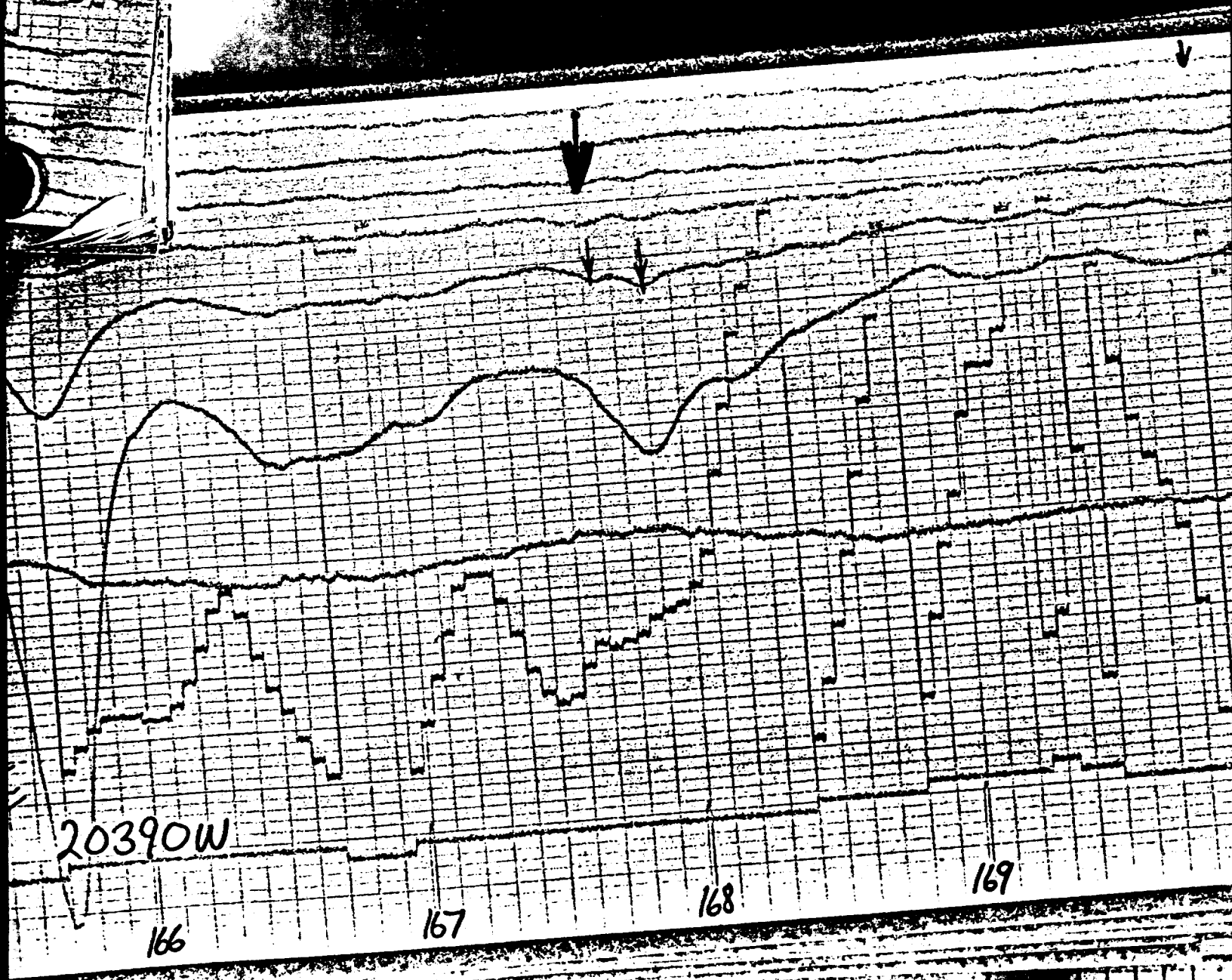
DARGAVEL-1

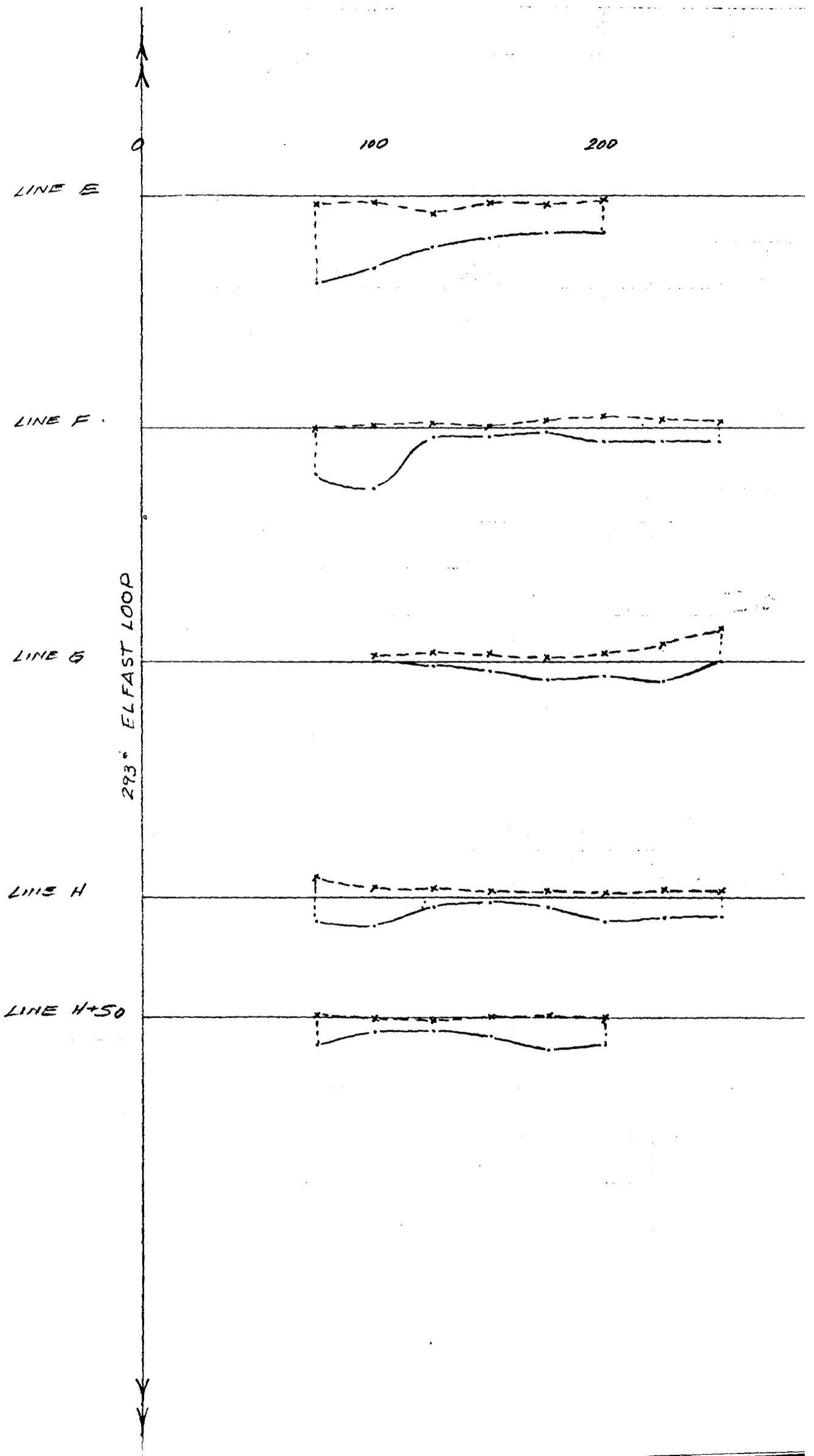


DARGAVEL-1

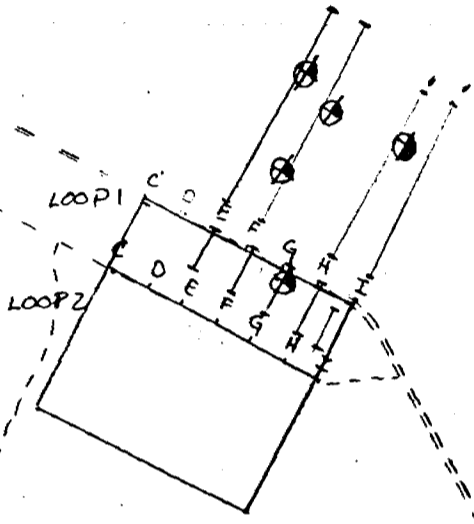


20390W
20390W

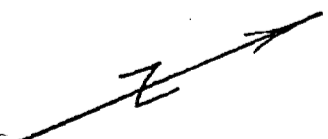




DARGAVEL-1



INDEX MAP
1:20000 1CM = 200M.
* INPUT RESPONSE
— ELFAST LINES



KINGSMILL PROJECT.
HUBBAY MINING LTD.
DARGAVEL 1
LOOP 2
ELFAST SURVEY
FREQ 25 HZ.
SCALE: HORIZ. 1CM = 20M.
1:2000
VERT. 1CM = 10% RFSR
1CM = 5° PHASE
DATE: MARCH 1961.
OPERATORS A O
SHEET 1 OF 1

Subtracting 25Hz from 675 Hz

- No real assistance here

~~2~~

--- RFSR 1cm = 10%
---x--- $\Delta\phi$ 1cm = 5°

DARSANEL 1 LOOP 2

ELFAST
675 Hz

SHEET 2 of 6

LINE E

0 100 200

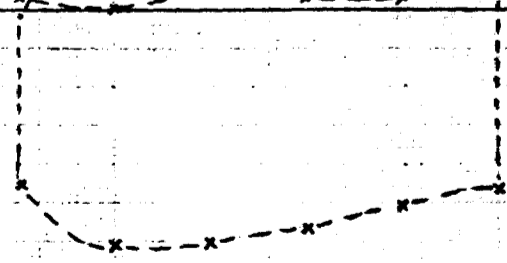
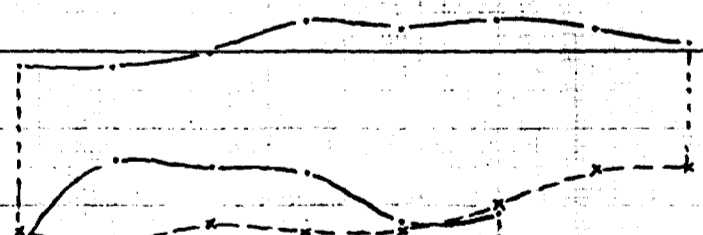
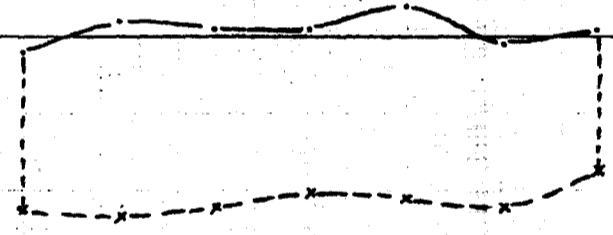
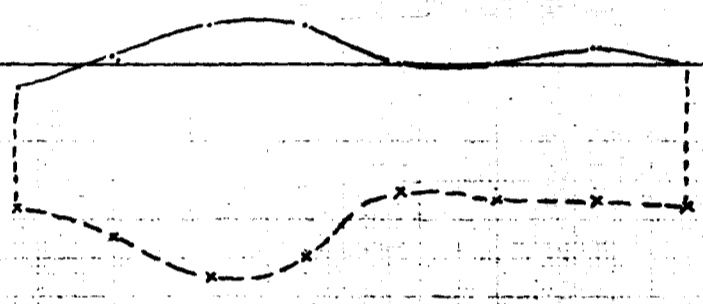
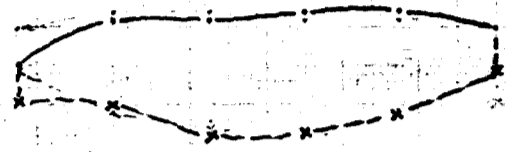
LINE F

LINE G

LINE H

LINE 4+50

ELFAST LOOP AZ. 293°



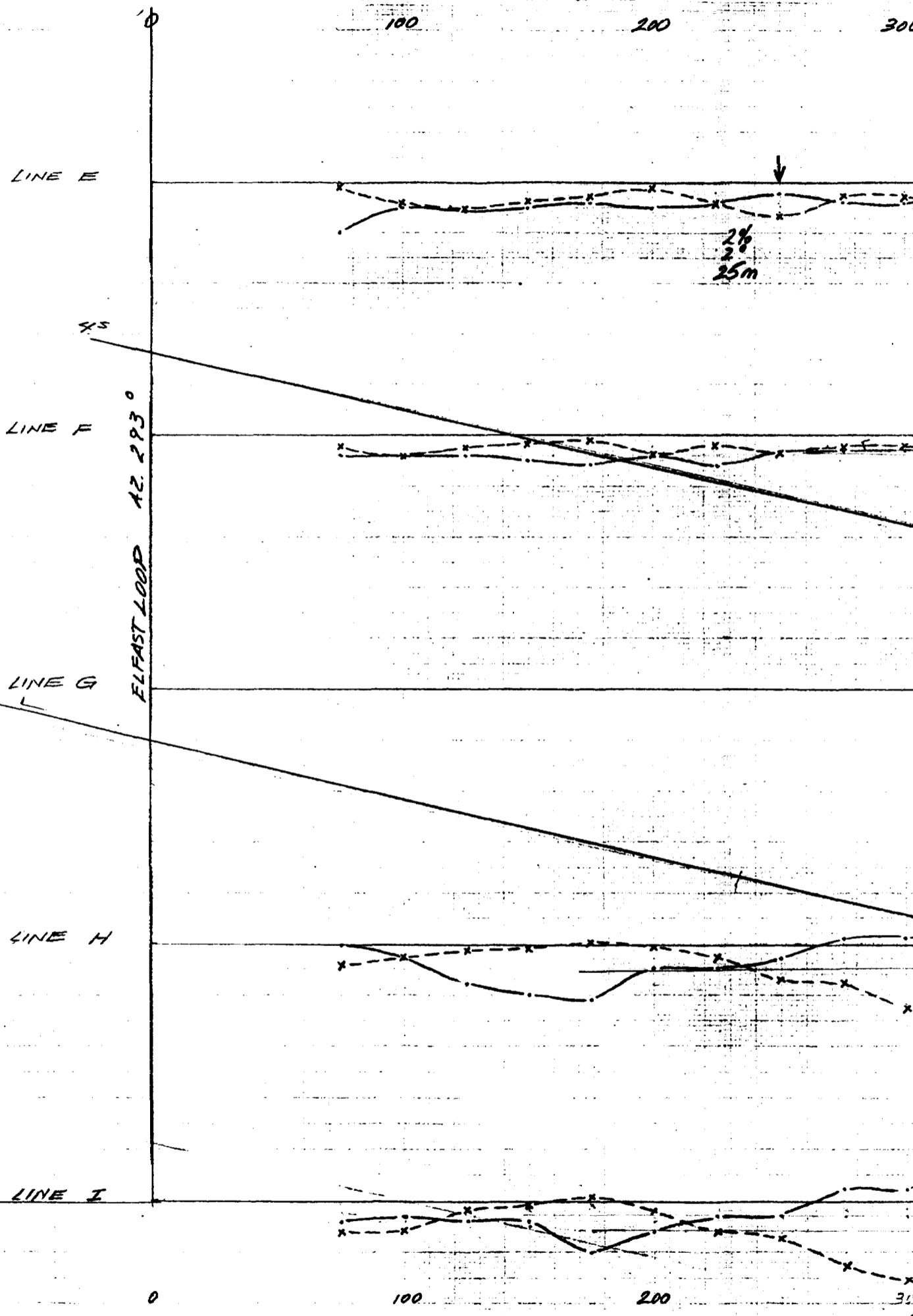
~~7~~

--- RFSR 1cm = 10%
--- Δφ 1cm = 50

DARGAVEL 1 LOOP 2

ELFAST

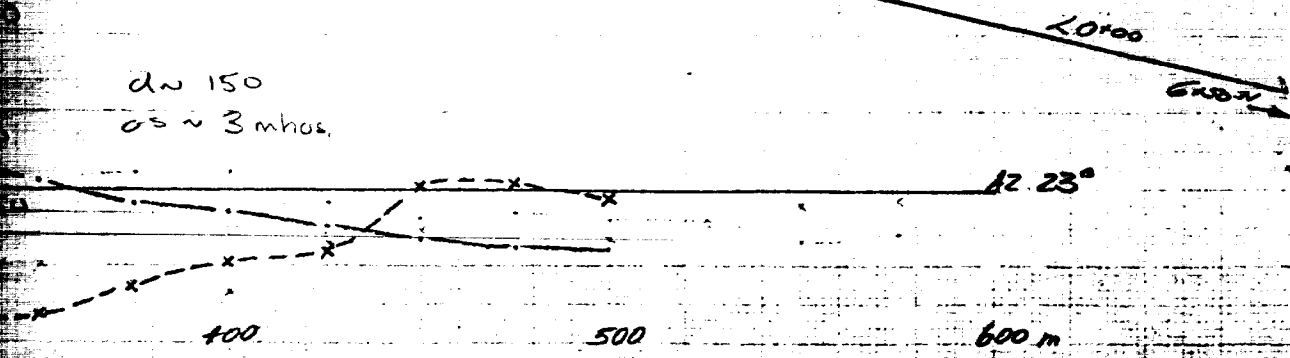
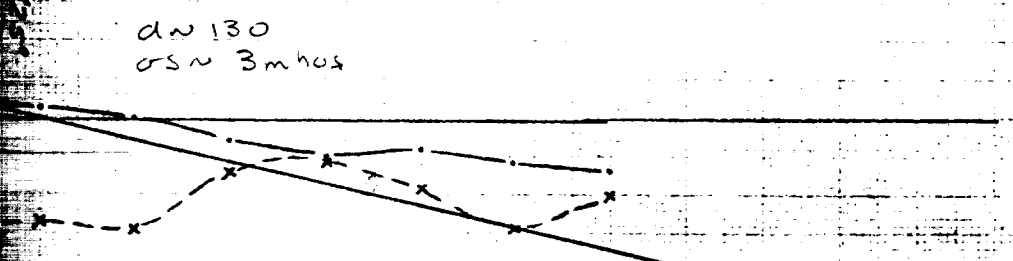
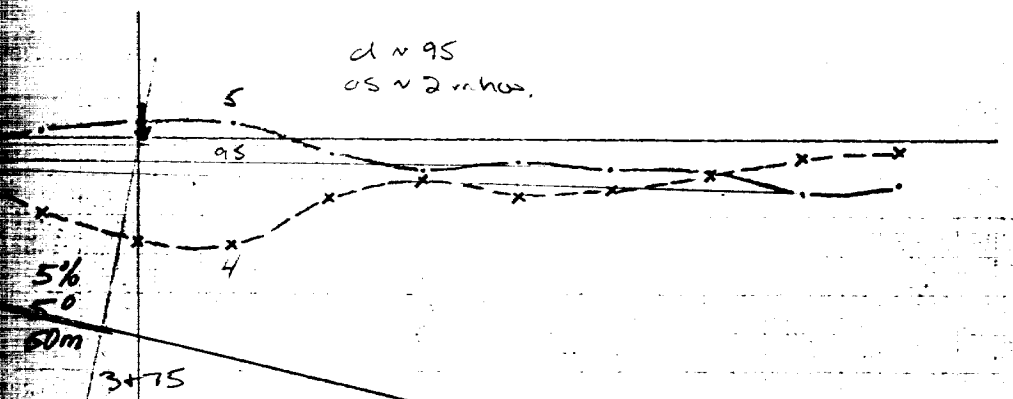
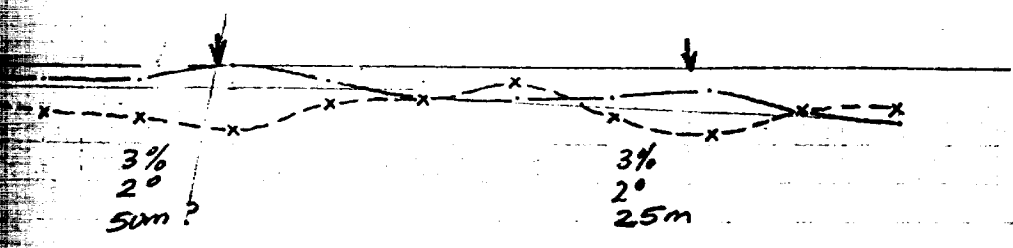
2025 H2



400

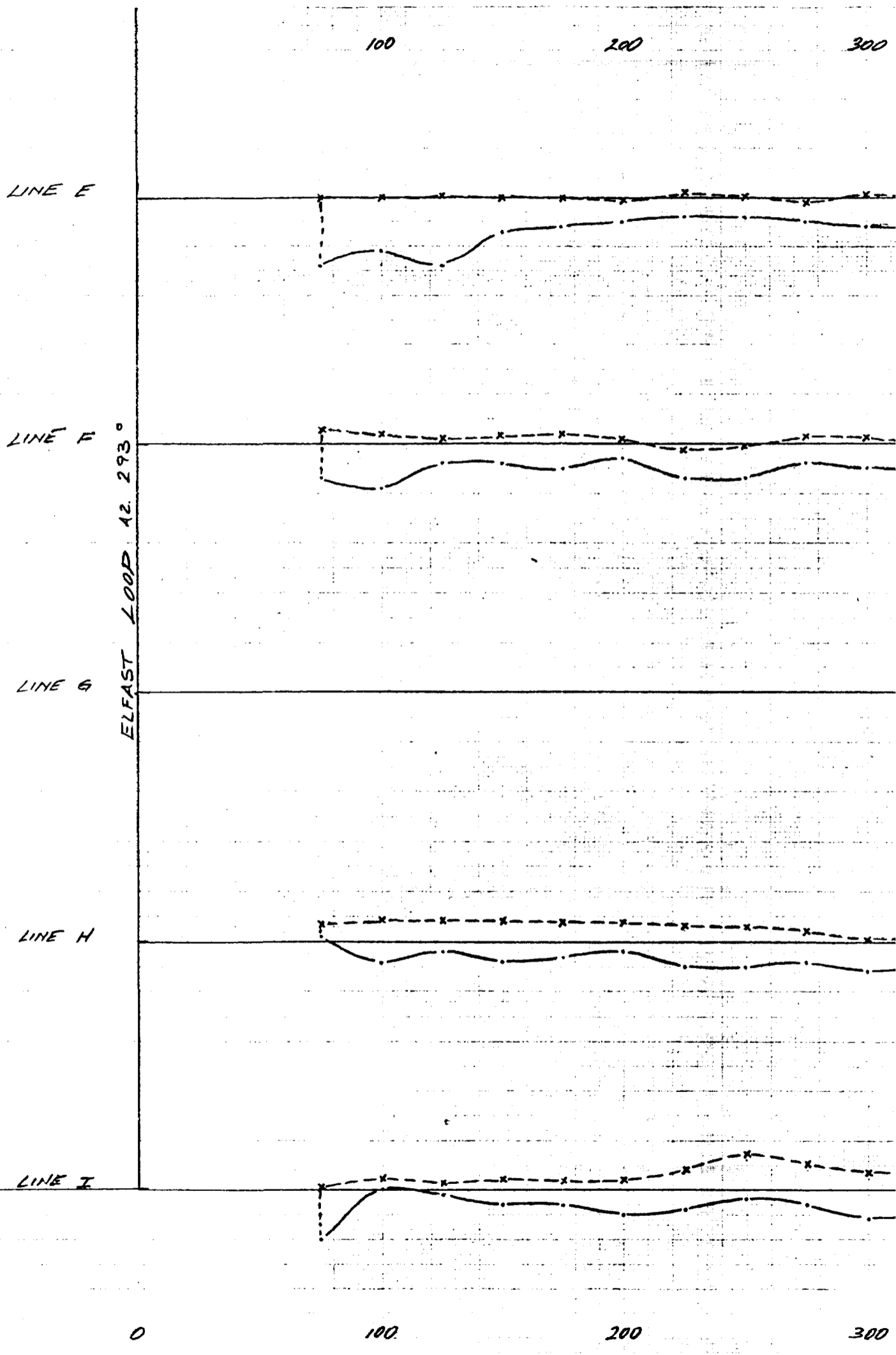
500

600



$1\text{cm} = 10\%$ — — — — — RFSR
 $1\text{cm} = 5^\circ$ - - - - - PHASE

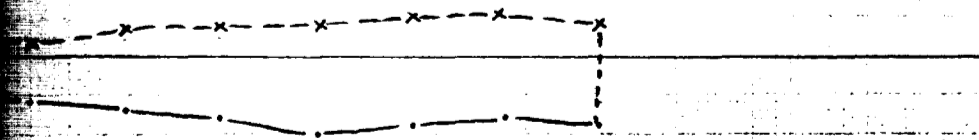
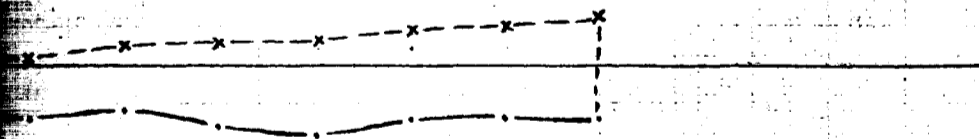
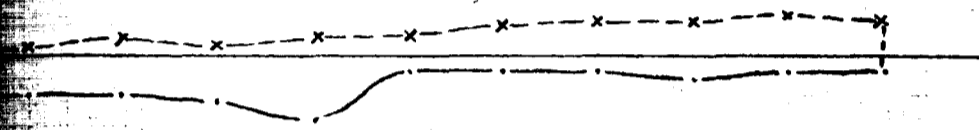
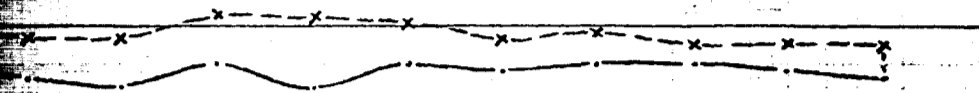
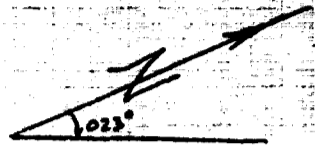
DARSANEL 2 LOOP F
 ELFAST



400

500

600



12.23°

400

500

600m

1cm = 10%
 1cm = 50

---x--- RFSR
 -x-x-x PHASE

DARSANEL 1 LOOP 1

ELFAST

0

100

LINE E

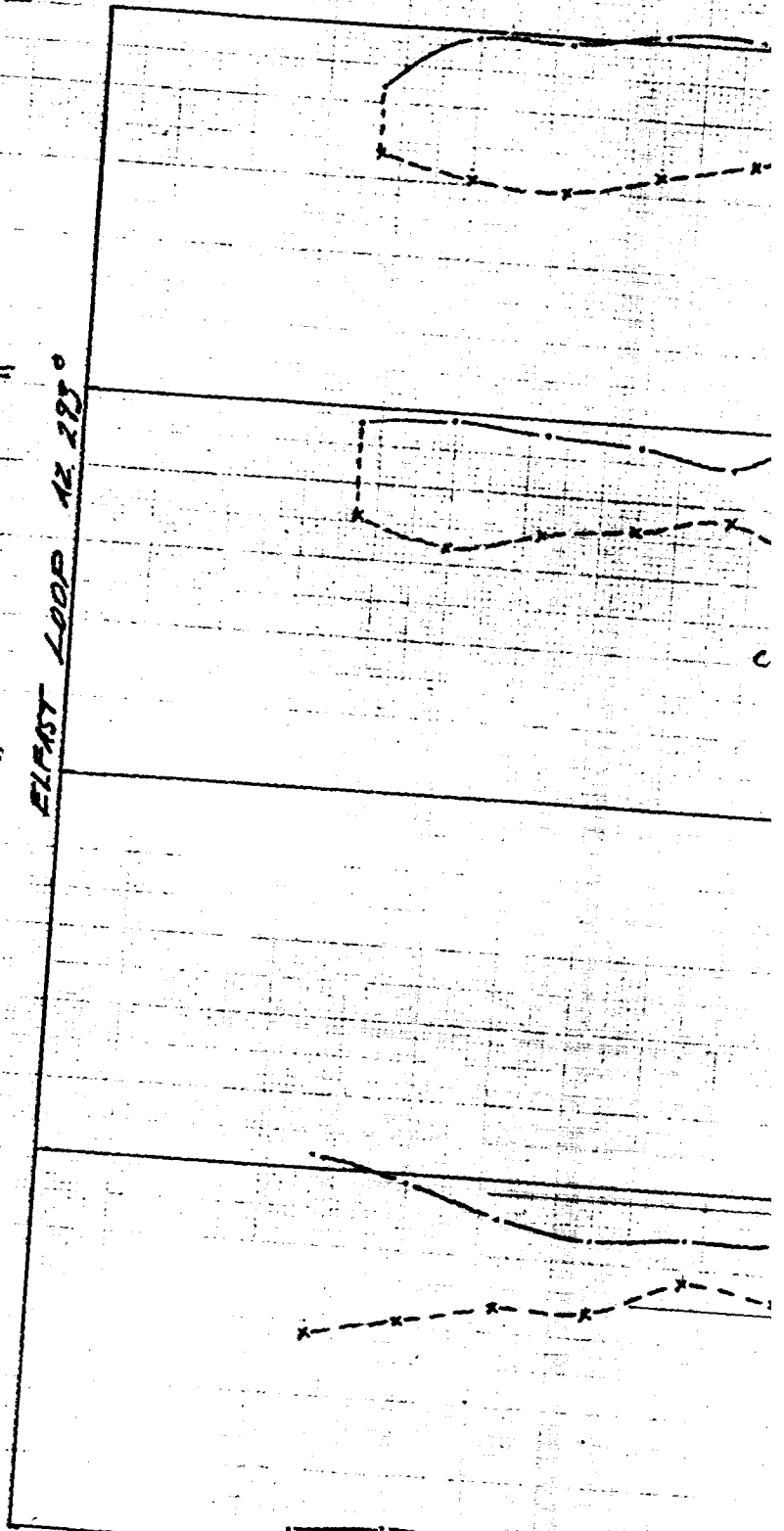
LINE F

LINE G

LINE H

LINE I

ELFAST LOOP 14 285°



0

100

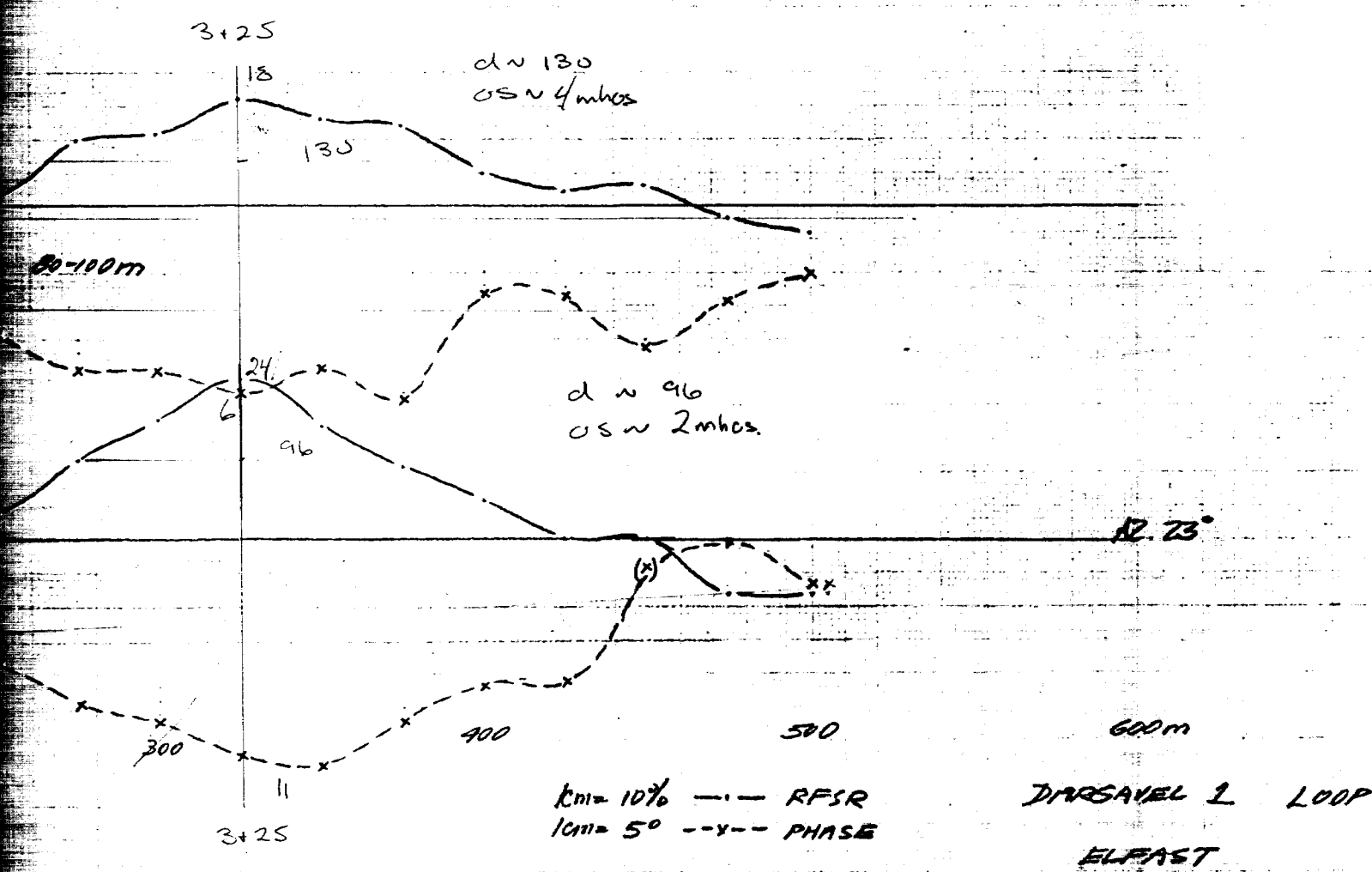
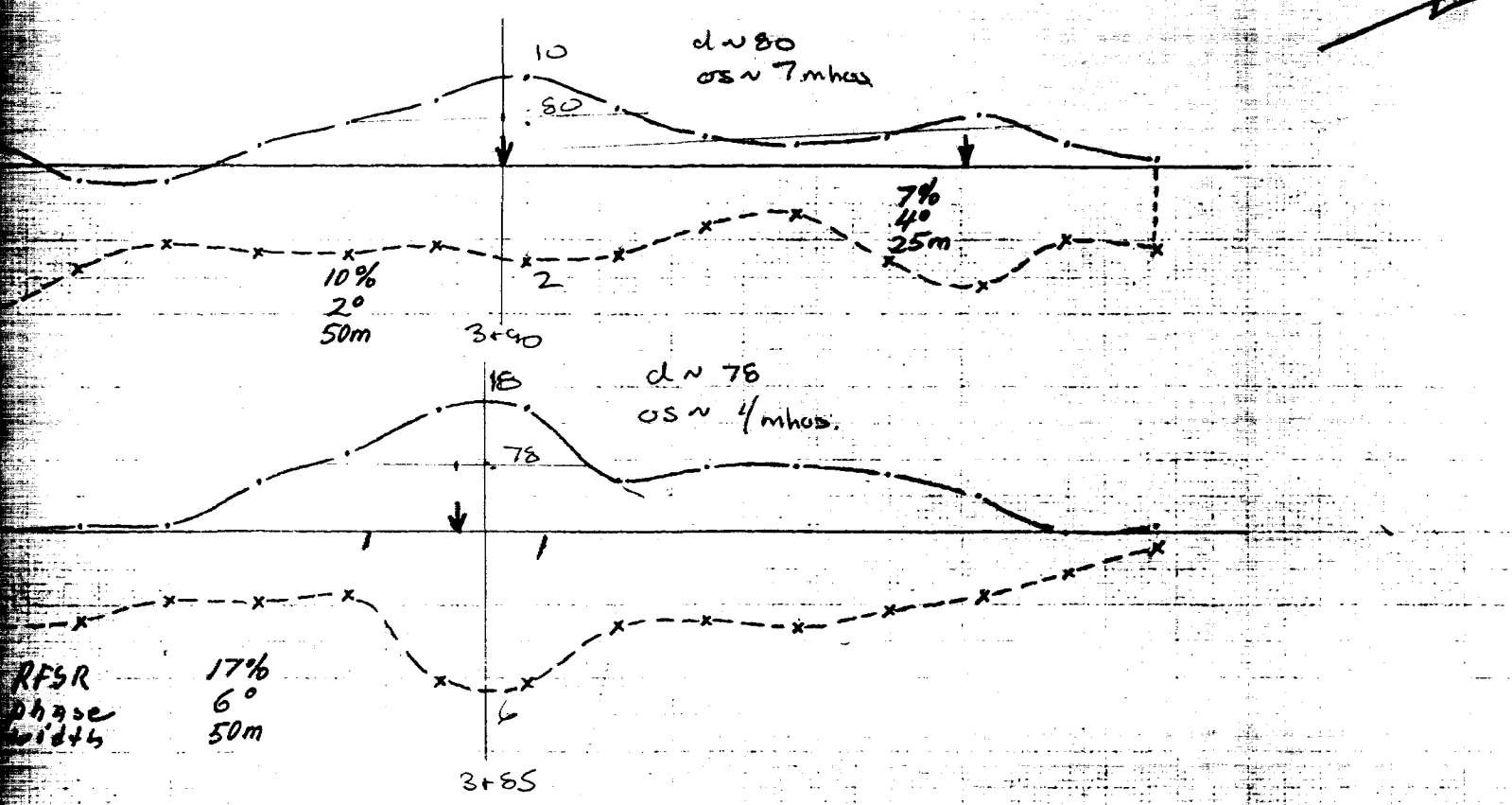
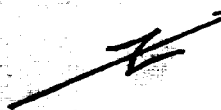
200

300

400

500

600



SHEET 6 of 6

DARSANEL 1 LOOP

ELFAST

2025HE

Dargavel Twp

#27092

112'

147'

INCO

OE

DIORITE

MC

Volcanic?

- tuffaceous looking

384'

Metagabbro

- no min. mentioned

Mafic Tuff

- 5-80% py
- magnetite

459'

Basic Metavolc.

Andesitic Tuff

- graded beds apparent

469'

Metased

Metased with inter-bed volcs., actinolite x'tals (spineliferous?)

- bands of magnetite
- carb'd gtz veins

500'

Metased, IF

BIF

- carb'd stringers
- .5-2cm bands of mag.

583'

Granodiorite

Bio - Feld Schist/Breccia

- strong bio. lamination
- remnant (.5 cm) frags?

593

Granodiorite?

Int. Crystal Tuff

- schistose
- some lapilli
- grading upwards into a volcanoclastic (magnetic)

WORKSHEET

DATE _____

FILE NO. _____

BY _____ CHK.D _____

SHEET NO. _____ OF _____

27092 (cont'd)

597'

INCO
Metased. ? Int.

MC
And. - Doc. Tuff
- grading
- banding visible
- frag. elongation?
- carb. stringers

619'

Metagab.

And Tuff / flow
- 25% carb.
- chlor'zed
- lapilli rims
- gross grading

658'

Metased.

Metased
- carb. stringers
- gneissic
- magnetite bands
as above

667'

Metased / IF

678'

as above

as above

709'

Basic Metavolc.

And Tuff
- graded banding
- carb. d.

747'

Metased / IF

BIF
- mag.

748'

as above

Andesitic Tuff
- carb. stringers

813'

Amphibolite

Andesitic Tuff
- 30-40% carb.
- minor offsets
(< 1 cm)

WORKSHEET

DATE _____
FILE NO. _____
BY _____ CHK.D _____
SHEET NO. _____ OF _____

27092 (con'd)
847'

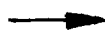
Dues
Amphibolite

MC
Andesite Tuff / Flow
- neg.
- carb. clots

896'

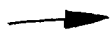
Metadiorite

OK (probably)
- m. gr.
- 1-2% carb. in matrix



28499

no drill logs



27037
270'

Metadacite

diacitic
flow? .5cm
blue gty eyes
- v. poor specimen
- carb. on fract. plane

340'

as before

- possibly a sed.
- neg.
- Q-C bands

430'

Carbonized Argillite

OK
- 1mm graphitic bands

490'

Meta Tuffite

And / Dues ^{Argilli} Tuff
- 10% Carb. stringers
- extremely low angle (ie < 5°) TCA
- chloritized

Dargavel Turp

#27099

Inco

MC

425'

Metased

OK (Possibly a
MAFIC TUFF)
- v. siliceous
- graphitic?
- dark (black) dent?

425'

as above

Graphitic metased
- carb. stringers
+ py.

631'

Greywacke

OK (Q-F granite,
dirty)
- 1 mm mag. bands
- t. carb.

WORKSHEET

DATE _____

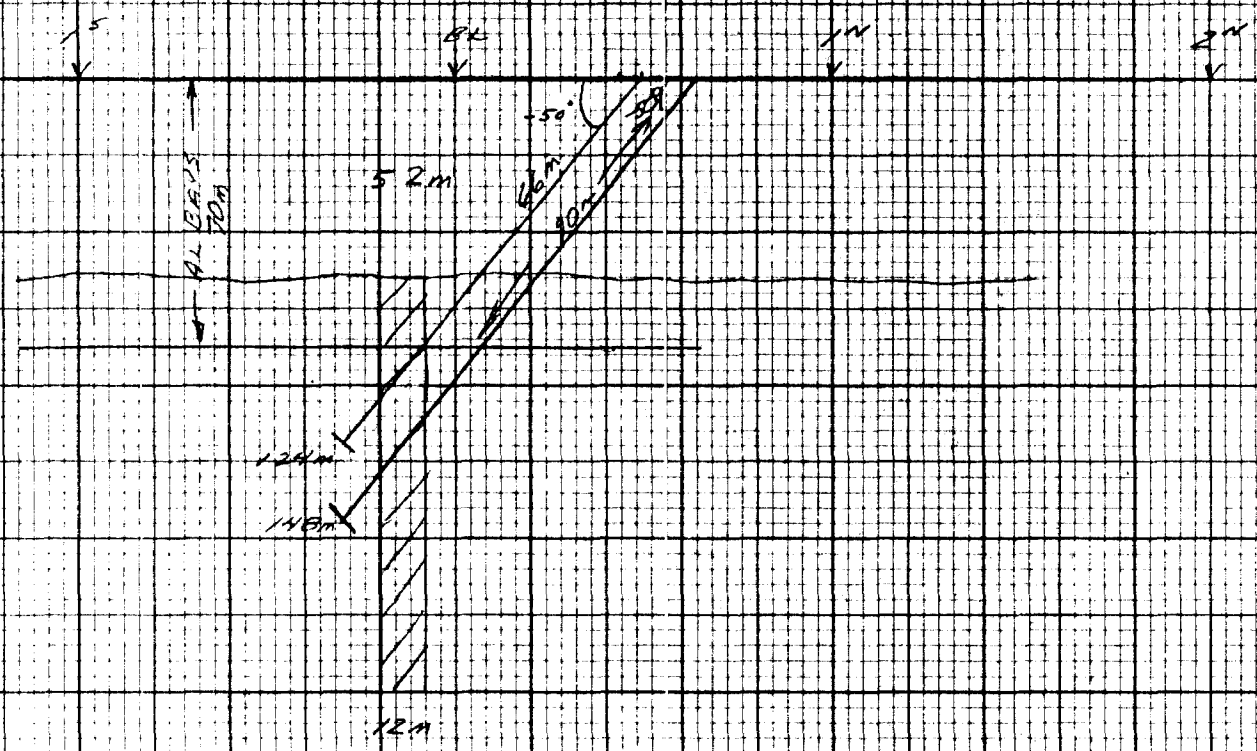
FILE NO. _____

BY _____ CHK.D _____

SHEET NO. _____ OF _____

K814

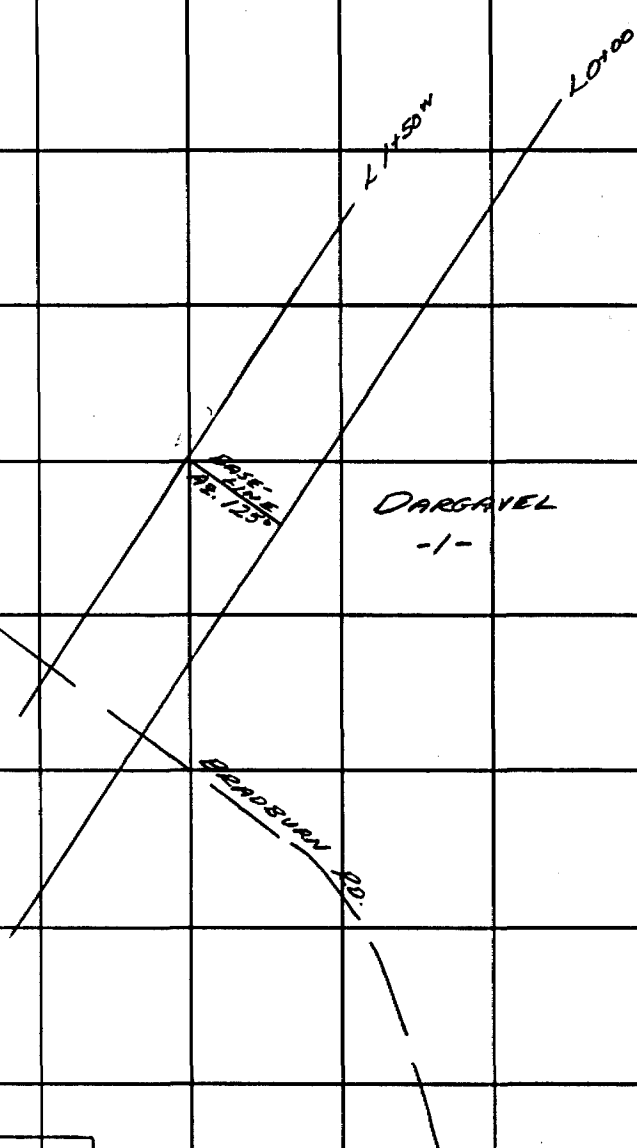
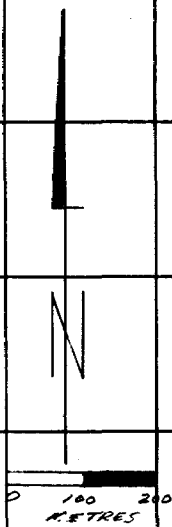
1000



$\sigma = 3.6 + 4.6 \text{ mhos}$

DARGAVEL I

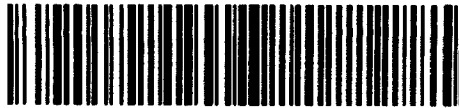
1cm = 20m



DDH K-81-
INCL. → -50°
AZ. → 215° (GRID SOUTH)
DEPTH → 148m (48')
OB EXPECTED → 90m (295')
COORDS → L 1450N; O164N

COPY OF THIS MAP RECEIVED BY:

DATE: 1981-



DARGAVEL ZA

→ L 2+00^N

1777 { COND. @ 0+74^S TO 1+74^S = 100m
 DIP ~ VERT
 DEPTH = 250 x .16 = 40m
 IP/OP = -26/-16 = 1.63

888 { COND @ 0+70^S TO 1+86^S = 116m
 DIP ~ VERT
 DEPTH = 250 x .2 = 50m
 IP/OP = -15/-14 = 1.07

444 { COND @ 0+84^S TO 2+46^S = 132m
 DIP ~ VERT
 DEPTH = 250 x .3 = 75m
 IP/OP = -6/-7 = 0.86

WORKSHEET

DATE _____
 FILE NO. _____
 BY _____ CHK.D _____
 SHEET NO. _____ OF _____

SANDGRAVEL 2A (con'd)

→ L 0+00

1777 { COND @ 0+24^W TO 0+74^W = 50m
 DIP → VERT TO STEEP EAST
 DEPTH = 250 × .21 = 52.5
 IP/OP = -26/-11 = 2.36

888 { COND @ 0+20^W TO 0+92^W = 72m
 DIP ~ VERT TO STEEP EAST
 DEPTH = 250 × .24 = 60m
 IP/OP = -19/-11 = 1.73

444 { COND @ 0+40^W TO 1+12^W = 72m
 DIP ~ VERT TO STEEP EAST
 DEPTH = 250 × .27 = 67.5m
 IP/OP = -13/-11 = 1.18

→ L 1+50^S

1777 { COND @ 1+00^W TO 1+28^W = 28m
 DIP → STEEP EAST
 DEPTH = 250 × ? = SHALLOW
 IP/OP = -38/-20 = 1.9

888 { COND @ 1+10^W TO 1+20^W
 DIP → STEEP EAST
 DEPTH = 250 × ? = SHALLOW
 IP/OP = -22/-22 = 1

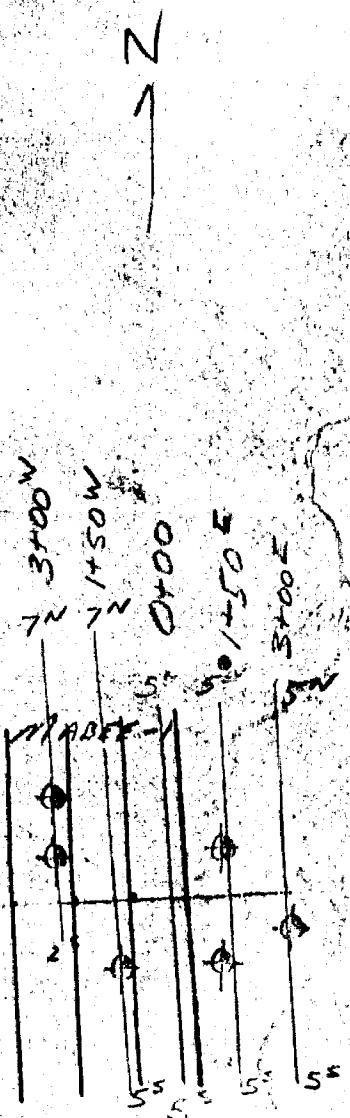
444 { COND @ 0+96^W TO 1+76^W
 DIP → ~ VERT.
 DEPTH = 250 × .11 = 27.5m
 IP/OP = -19/-19 = 1

→ L 3+00^S

NO INTERPRET. POSSIBLE IE. POOR 444 RESPONSE

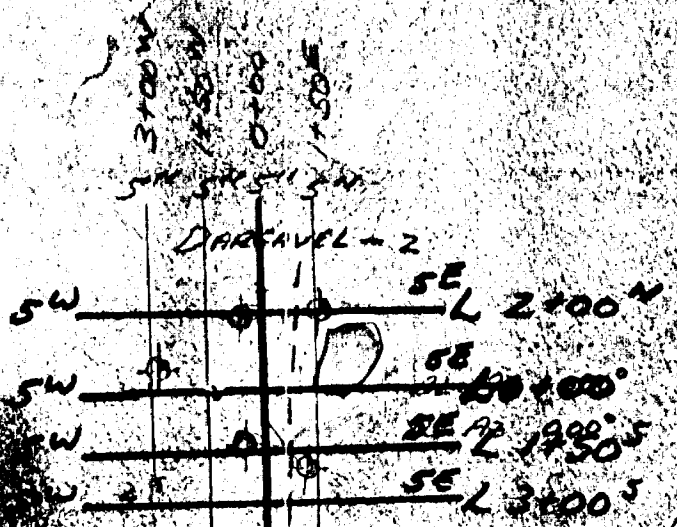
WORKSHEET

DATE _____
 FILE NO. _____
 BY _____ CHK.D _____
 SHEET NO. _____ OF _____



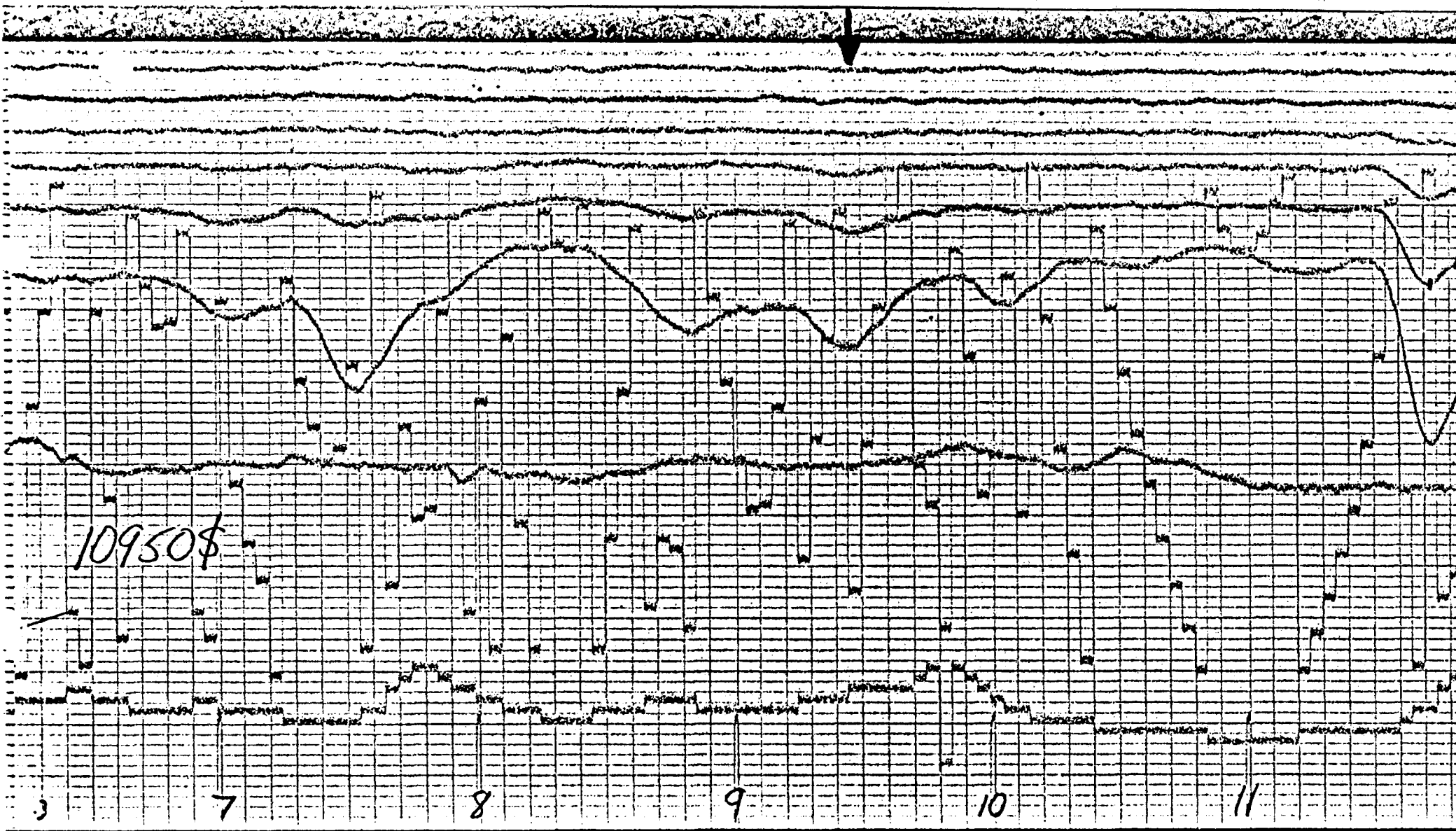
2

04 AD
14 AD



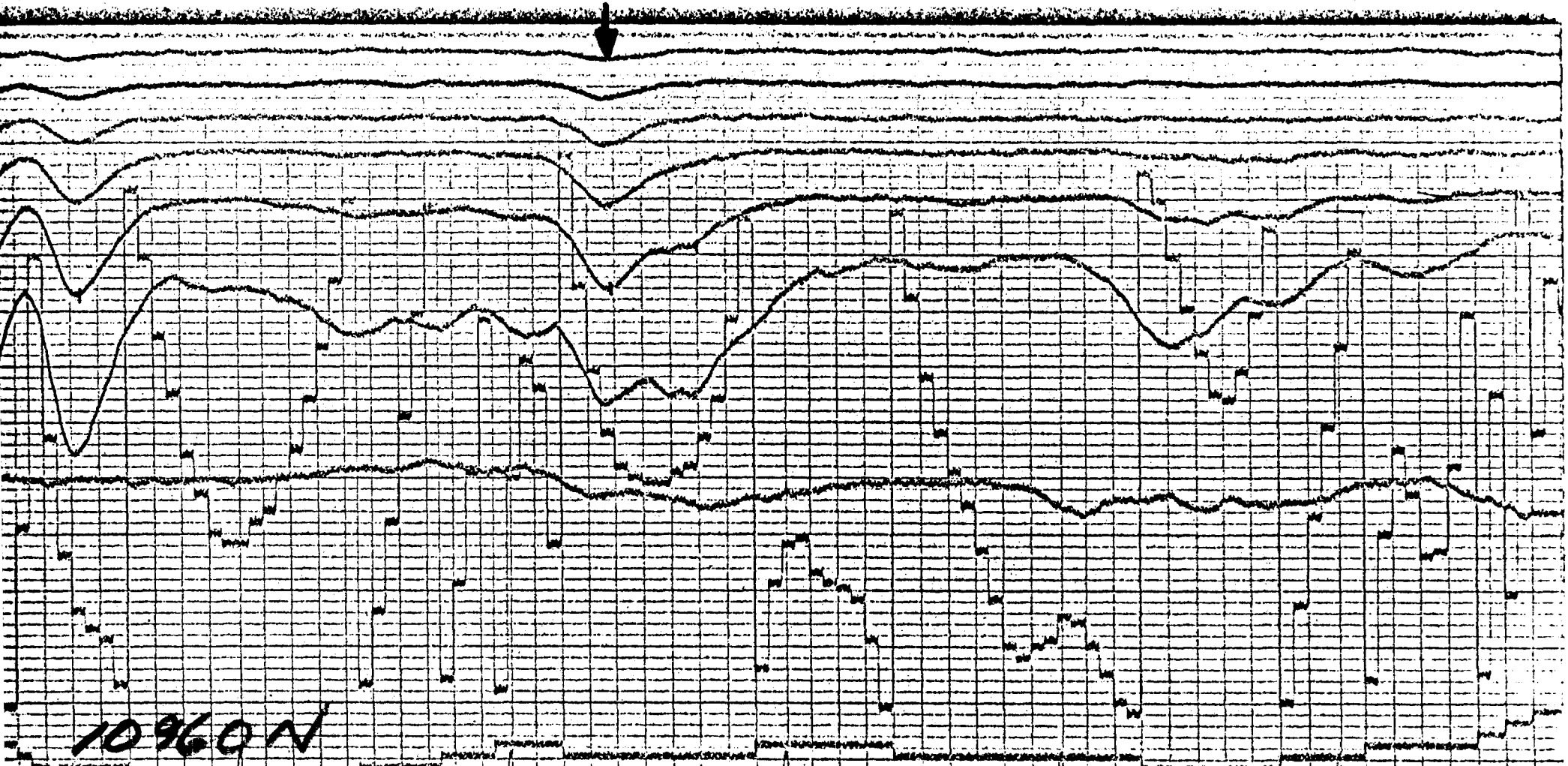
SHEET
#10

DARGAVEL-2



DARGAVEL-2

DARGAVEL 2



10960 N

53

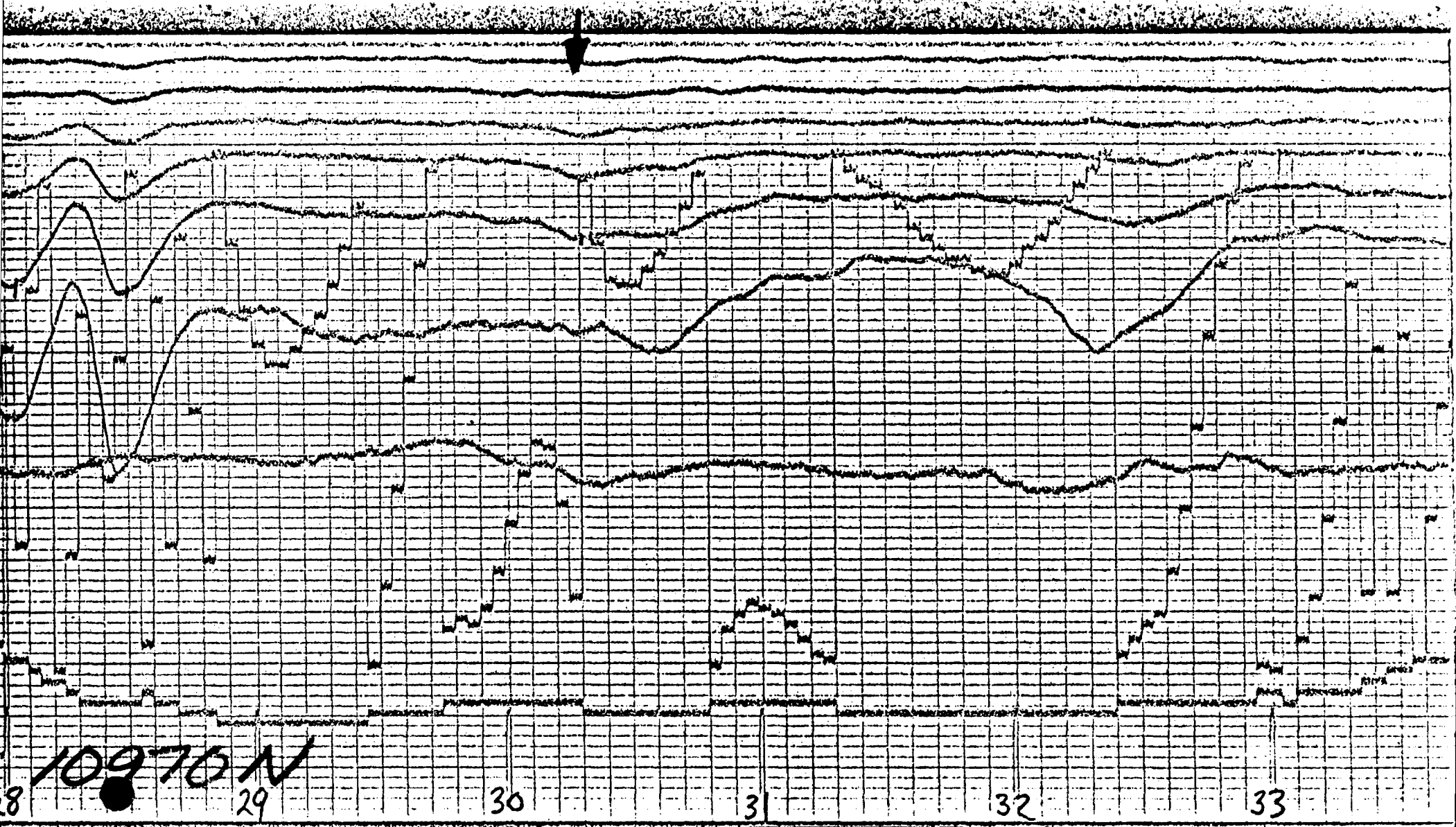
54

55

56

57

DARGAVEL - 2



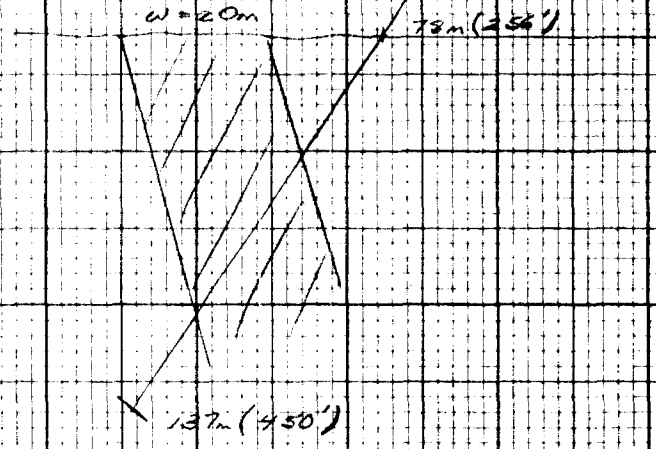
1W

BL 0710E

1E

10100

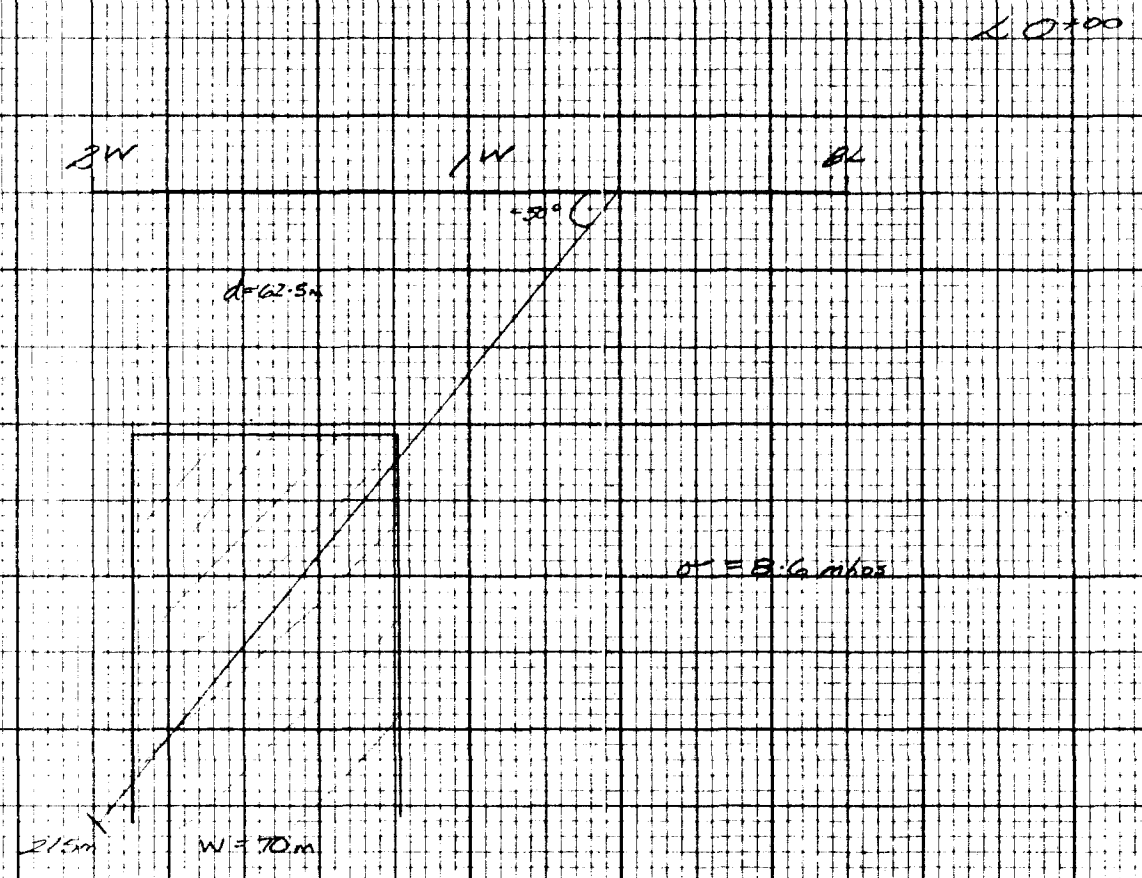
d = 65m



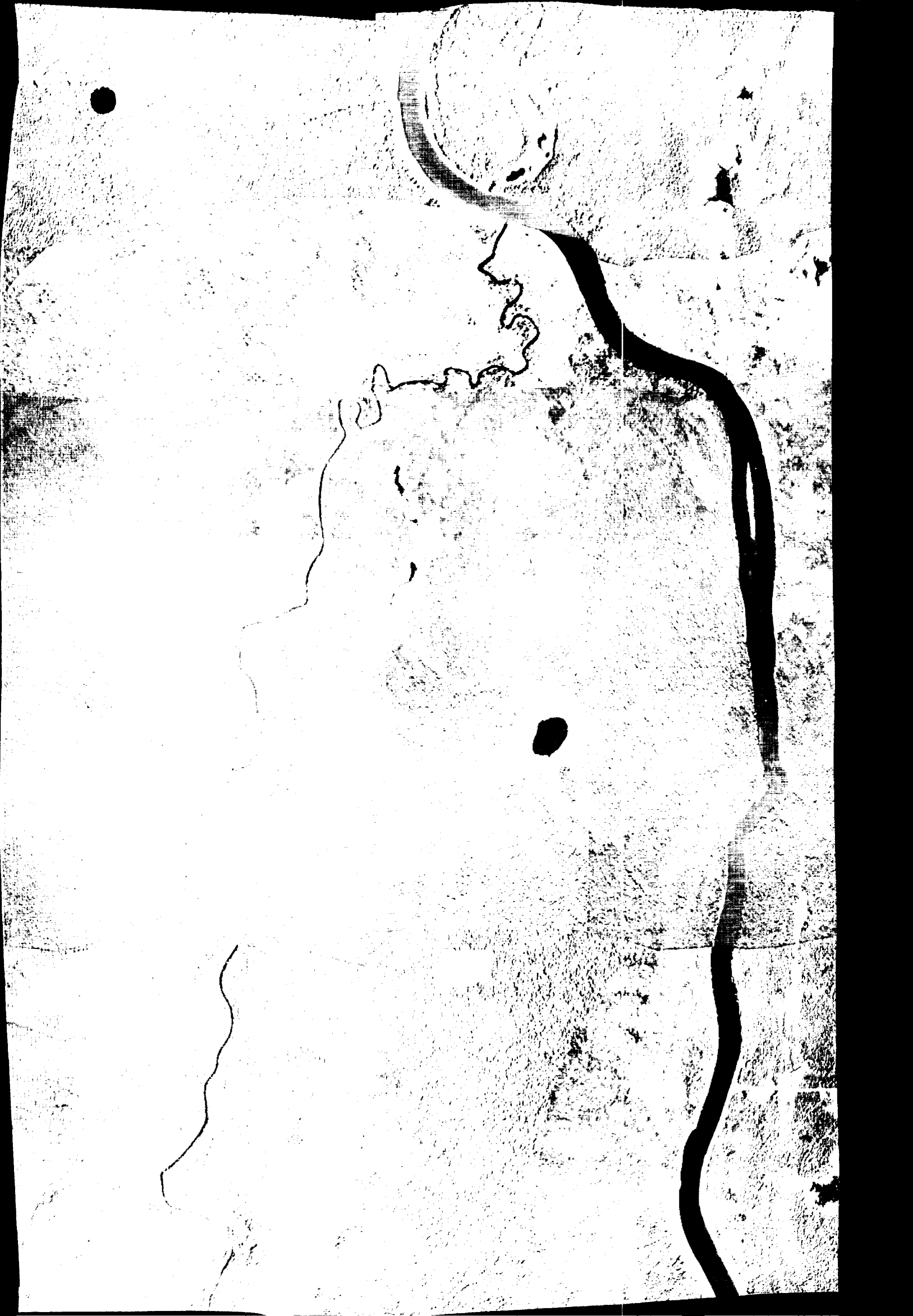
DARGAVEL #2

71-35.3 m/ps (100 ?)

1:1000



DARGAVEL ZA
1cm = 20m.



Anomaly No: DARGAVEL 2A
Conductor No: _____
Block: 04
Project: KINGSMILL 2110

V.L.F. or
V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. Stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN II (EXSICS) ha _____ 1-km _____

Complete Incomplete No. Lines: 4

LINE RATIO WIDTH	2100 ^N	0100	1150 ^S	3100 ^S				

Details: _____

MAGNETIC DATA Gear: MP-2 ha _____ 1-km _____

Complete Incomplete No. Lines: 4

LINE GAMMA SHAPE	2100 ^N	0100	1150 ^S	3100 ^S				

Details: _____

TRENCH DATA Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

Graphite Bedrock <input type="checkbox"/>	Non-Econ. Sulphides Bedrock <input type="checkbox"/>	Econ. Sulphides Bedrock <input type="checkbox"/>	Other: Bedrock <input type="checkbox"/>
Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>

Details: OB TOO DEEP

GEOCHEMICAL DATA ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING ha _____ 1-km 4.45

GEOLOGY

OTHER METHODS ha _____ 1-km _____

RECOMMENDATIONS

Conductor No. _____
Anomaly No: _____

DATE _____ BY _____

E.M. ANOMALY DATA SHEET

Anomaly No: DARGAVEL 2
Conductor No: _____
Block: 04
Project: KINGSMILL 2110

V.L.F. or
V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. Stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN III ha _____ 1-km _____

Complete Incomplete No. Lines: 4

LINE RATIO WIDTH	<u>3100^W</u>	<u>1150^W</u>	<u>0100</u>	<u>1150^E</u>				

Details: _____

MAGNETIC DATA Gear: MP-2 ha _____ 1-km _____

Complete Incomplete No. Lines: 4

LINE GAMMA SHAPE	<u>3100^W</u>	<u>1150^W</u>	<u>0100</u>	<u>1150^E</u>				

Details: _____

TRENCH DATA Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

Graphite	Non-Econ. Sulphides	Econ. Sulphides	Other:
Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>
Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>

Details: OR TOO DEEP

GEOCHEMICAL DATA ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING ha _____ 1-km 4.45

GEOLOGY

OTHER METHODS ha _____ 1-km _____

RECOMMENDATIONS

Conductor No. _____
Anomaly No: DARGAVEL 2

DATE _____ BY MPC



DARGAVEL 3

- L 6+00W No INTERP. POSSIBLE
- L 4+50W " " "
- L 3+00W " " "
- L 1+50W " " "

→ L 0+00

1777 { COND @ 1+02^s TO 1+98^s = 96m
 DIP ~ VERT.
 DEPTH = 250x ? IP/OP = -18/10 =

888 { COND @ 1+01^s TO 1+99^s = 98m
 DIP ~ VERT
 DEPTH = 250x .42 IP/OP = -15/-2
 = 105m = 7.5

444 { COND @ 1+83^s TO 2+01^s = 18m
 DIP ~ VERT.
 DEPTH = 250x .5 IP/OP = -9/-3
 = 125m = 3

→ L 1+50E

1777 { COND. @ 1+58^s TO 2+27^s = 69m
 DIP ~ VERT
 DEPTH = 250m x .25 IP/OP = -32/0
 = 62.5

888 { COND. @ 1+72^s TO 1+82^s = 10m
 DIP ~ VERT.
 DEPTH = 250x .2 IP/OP = -19/-14
 = 50m = 1.36

WORKSHEET

DATE _____

FILE NO. _____

BY _____ CHK D _____

SHEET NO _____ OF _____

DARGAVEL 3 (con'd)

→ L 1+50^E (con'd)

444 { COND @ 1+49^S TO 2+19^S = 69m
 DIP ~ VERT.
 DEPTH = 250 x .28
 = 70m

IP/OP = -12/-10
 = 1.2

→ L 3+00^E

1777 { COND @ LINE COND
 DIP - ⁰⁰SHALLOW TO NORTH
 DEPTH = 250 x .18
 = 45m

IP/OP = -16/-16
 = 1

888 { COND @ LINE COND
 DIP - NORTH
 DEPTH = 250 x .12
 = 30m

IP/OP = -17/-19
 = 0.89

444 { COND @ 1+86^S TO 2+00^S = 14m
 DIP ~ VERT TO STEEP NORTH
 DEPTH = 250 x .16
 = 40m

IP/OP = -10/-14
 = 0.71

→ L 4+50^E

1777 { COND @ 1+86^S TO 2+00^S = 14m
 DIP - SHALLOW TO NORTH
 DEPTH = 250 x ?

IP/OP = -30/+2
 =

888 { COND @ 1+66^S TO 1+97^S = 31m
 DIP - MOD. SHALLOW TO NORTH
 DEPTH = 250 x .16
 = 40m

IP/OP = -32/-15
 = 2.13

WORKSHEET

DATE _____
 FILE NO. _____
 BY _____ CHK.D _____
 SHEET NO. _____ OF _____

DARGAVEL 3 con'd

→ L 4+50^E (con'd)

444 { COND @ 1+50^S TO 2+00^S = 50m ^{28m}
 DIP → STEEP TO NORTH
 DEPTH = 250 x .21 = 52.5 m
 IP/OP = -22/-14 = 1.57

→ L 6+00^E

1777 { COND @ 1+09^S TO 1+26^S = 17m
 DIP → MOD. SHALLOW TO NORTH
 DEPTH = 250 x .38 = 95 m
 IP/OP = -20/-1 = -20

888 { COND @ 0+88^S TO 1+18^S = 30m
 DIP → MOD STEEP TO NORTH
 DEPTH = 250 x .27 = 67.5 m
 IP/OP = -19/-9 = 2.11

444 { COND @ 0+50^S TO 1+40^S = 90m
 DIP → ~ VERT
 DEPTH = 250 x .29 = 72.5
 IP/OP = -15/-9 = 1.67

WORKSHEET

DATE _____
 FILE NO. _____
 BY _____ CHK.D _____
 SHEET NO. _____ OF _____



DARGAVEL 6.3

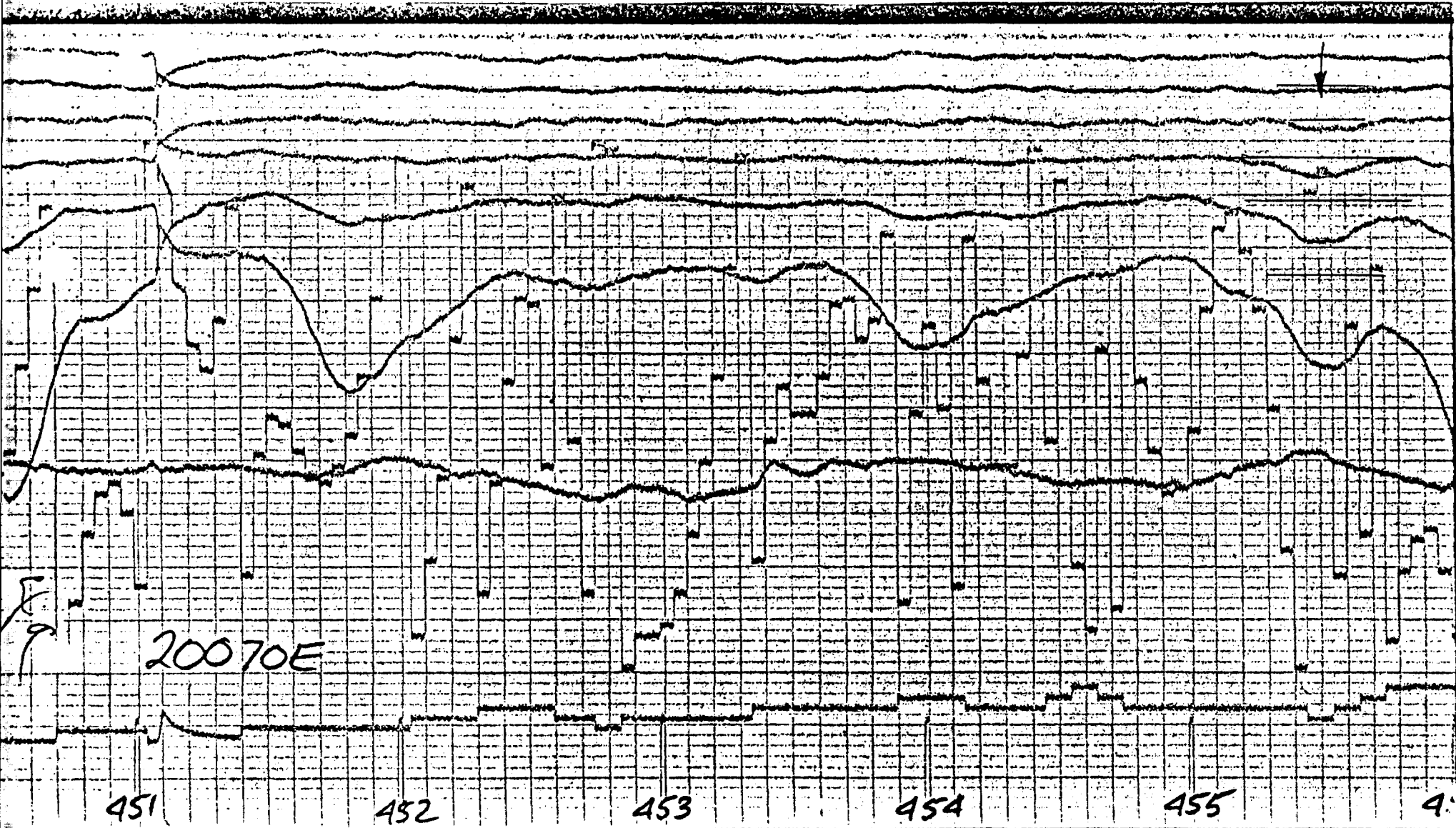
DARGIVEL #3

CHANNEL	20070E AMP.(mm)	20080W	20110E
1	17	45	42?
2	7.5	13	24
3	3.5	2.8	10.5
4	1.6	2.0	5.5
5	0.9	1.5	2.5
6	—	0.5	1.5
FIT	V. Good	No GOOD!	POOR
DEPTH	~61m		~40m

WORKSHEET

DATE _____
 FILE NO. _____
 BY _____ CHK.D _____
 SHEET NO. _____ OF _____

DARGAVEL 3



20070E

451

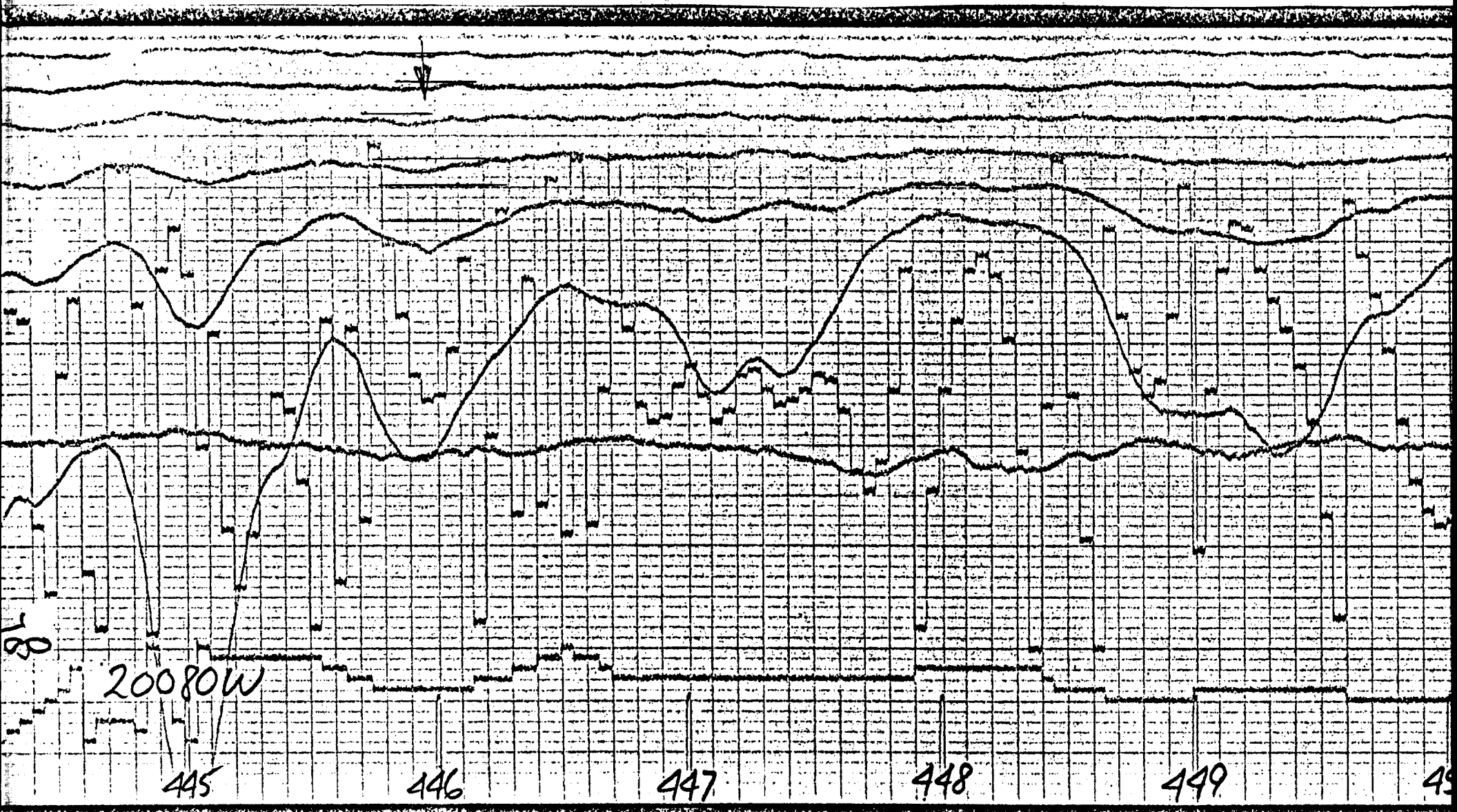
452

453

454

455

4



20080W

445

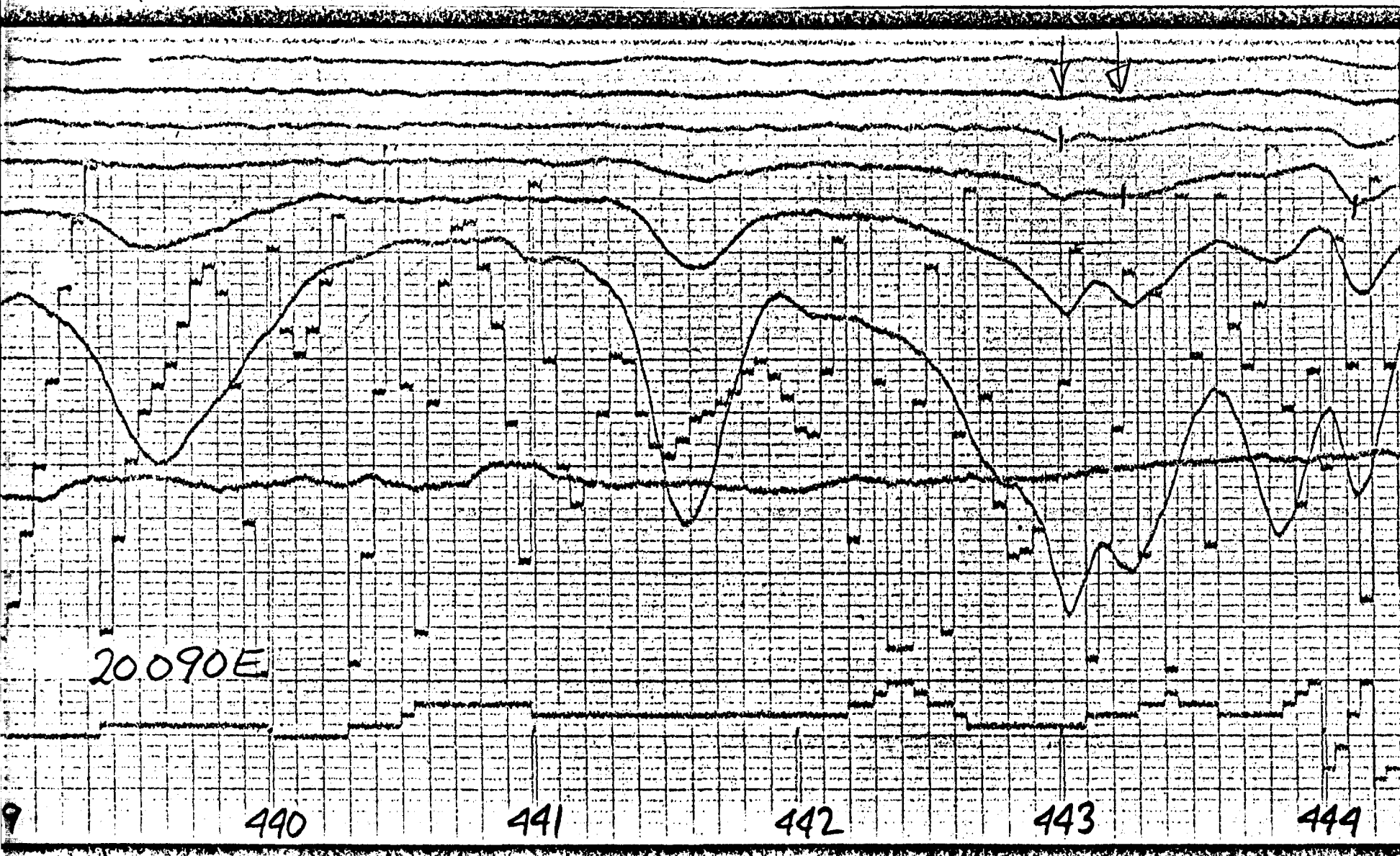
446

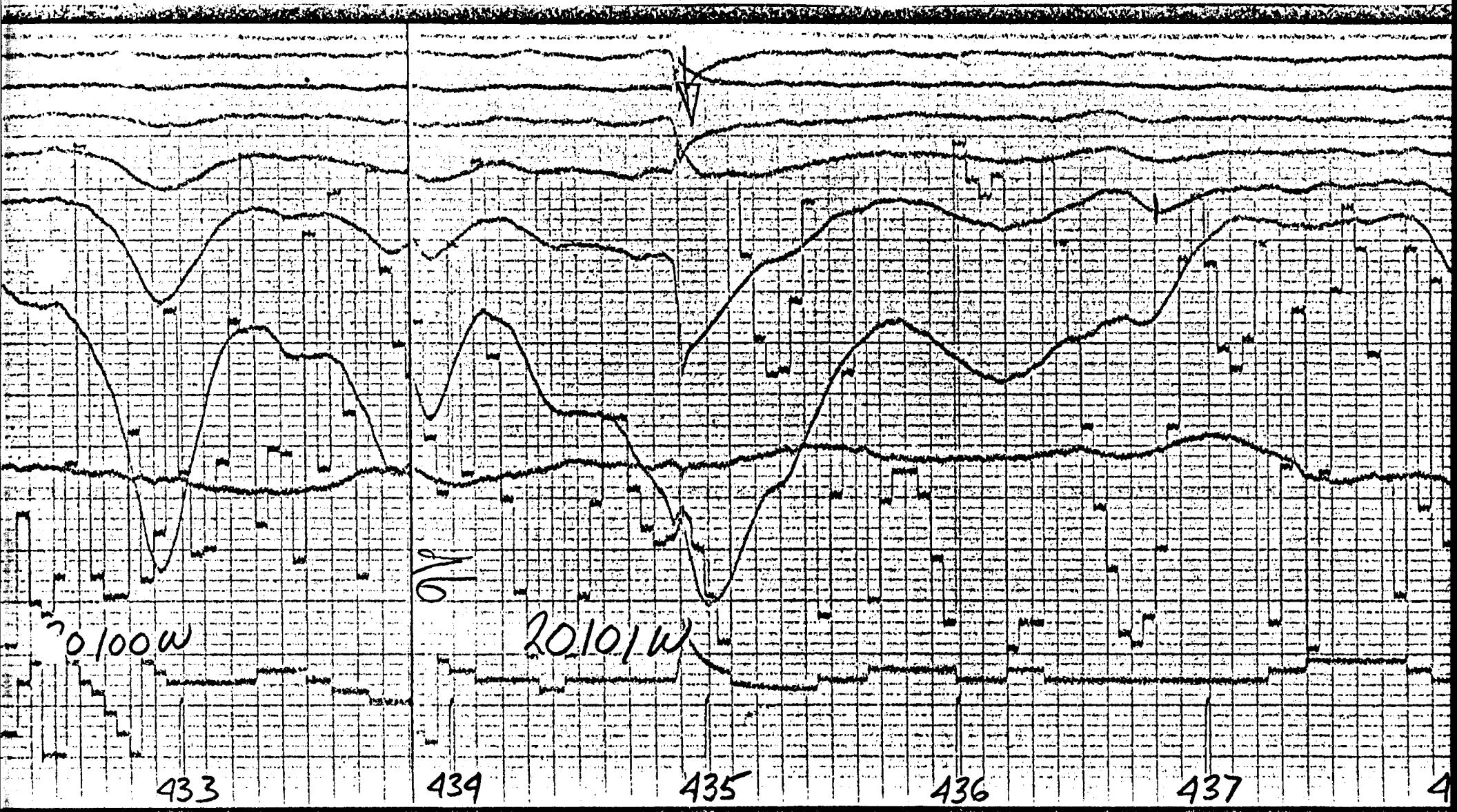
447

448

449

450





0.100W

20.101W

433

434

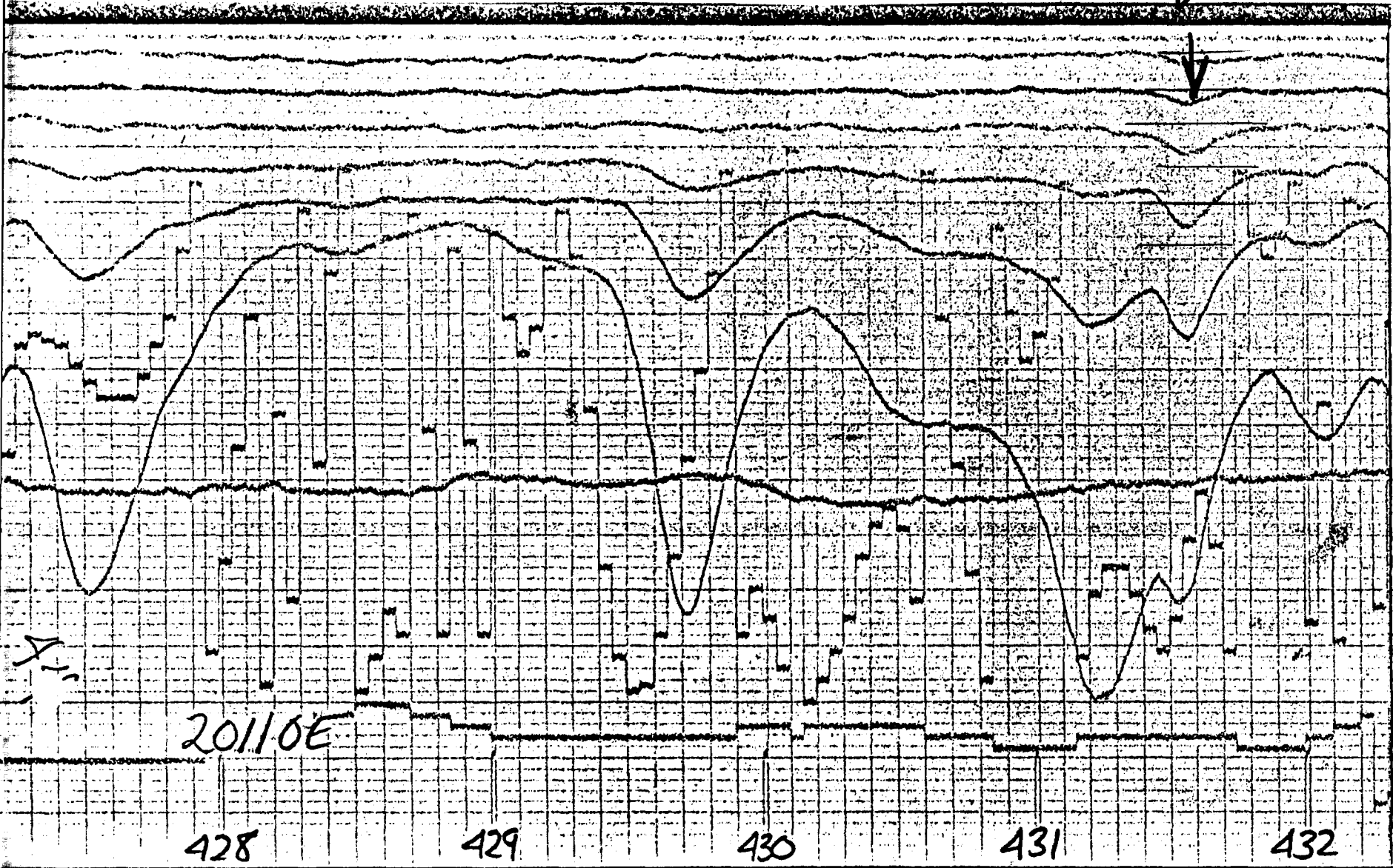
435

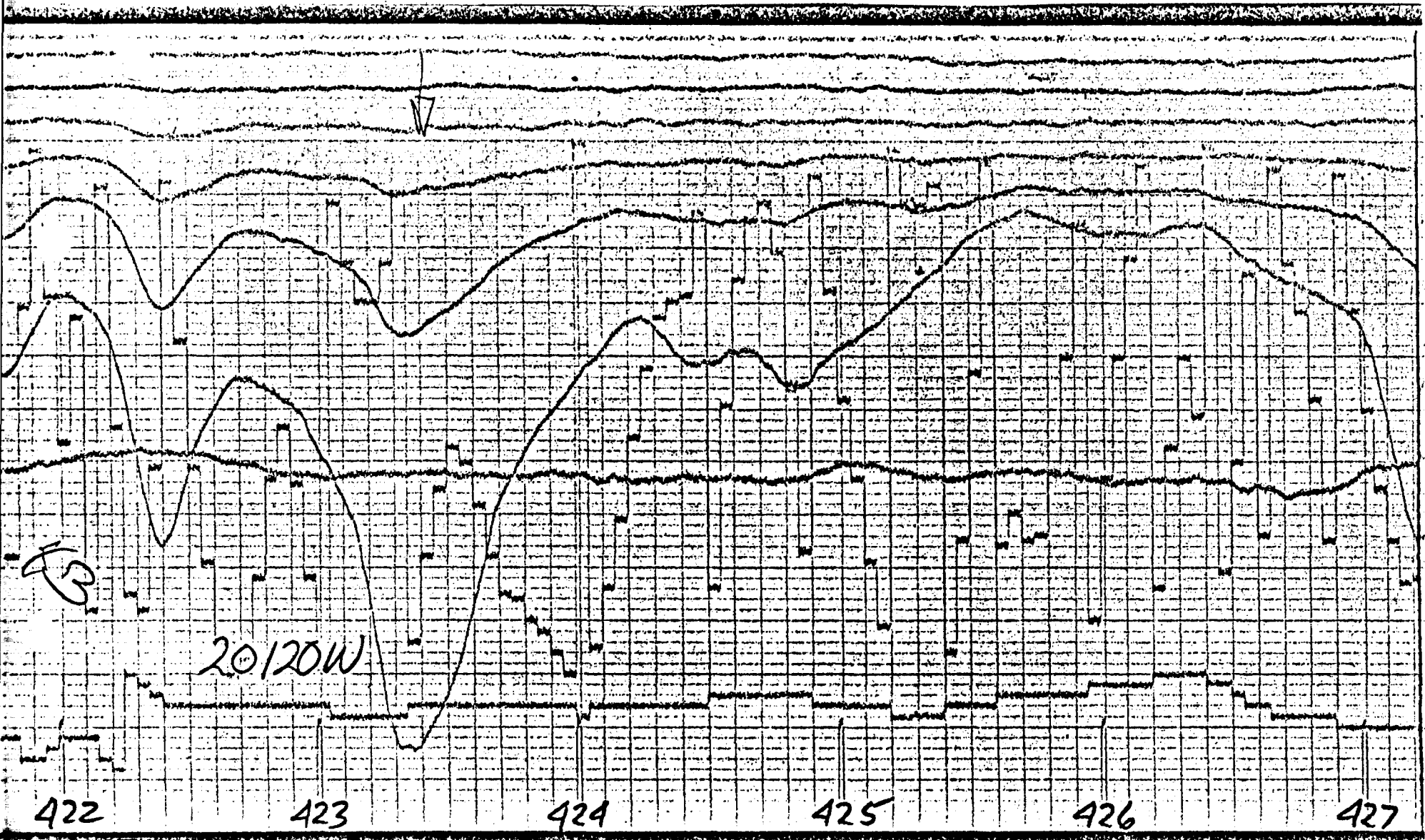
436

437

4

DARGAVEC 3





422

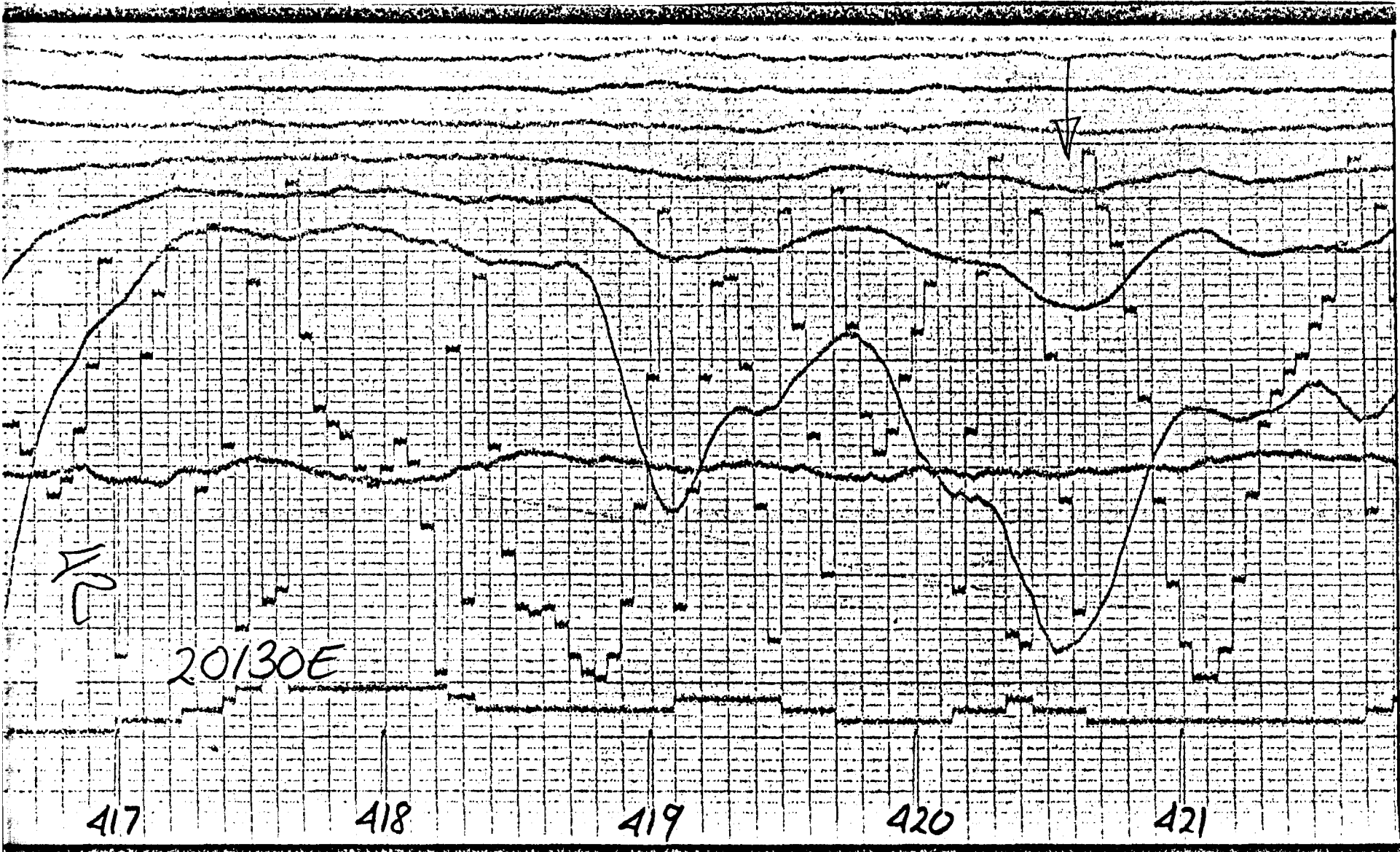
423

424

425

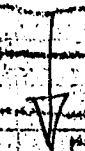
426

427



P

20130E



417

418

419

420

421

Anomaly No: DARGAVEL 3
Conductor No: _____
Block: 04
Project: KINESMILL 2110

V.L.F. or

V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. Stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN II (EXSICS) ha _____ 1-km _____

Complete Incomplete No. Lines: 9

LINE RATIO WIDTH	<u>6100^w</u>	<u>4150^w</u>	<u>3100^w</u>	<u>1150^w</u>	<u>0100</u>	<u>1150^E</u>	<u>3100^E</u>	<u>4150^E</u>

Details: _____

MAGNETIC DATA Gear: MP-2 ha _____ 1-km _____

Complete Incomplete No. Lines: 9

LINE GAMMA SHAPE	<u>6100^w</u>	<u>4150^w</u>	<u>3100^w</u>	<u>1150^w</u>	<u>0100</u>	<u>1150^E</u>	<u>3100^E</u>	<u>4150^E</u>

Details: _____

TRENCH DATA

Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

Graphite Bedrock <input type="checkbox"/>	Non-Econ. Sulphides Bedrock <input type="checkbox"/>	Econ. Sulphides Bedrock <input type="checkbox"/>	Other: Bedrock <input type="checkbox"/>
Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>

Details: _____

GEOCHEMICAL DATA

ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING

ha _____ 1-km 10.2

GEOLOGY

OTHER METHODS

ha _____ 1-km _____

RECOMMENDATIONS

Conductor No. _____
Anomaly No: DARGAVEL 3

DATE 1981-07-24 BY MPC

E.M. ANOMALY DATA SHEET

Anomaly No: DARREVEL 3
Conductor No: _____
Block: 04
Project: KINGSMILL 2110

V.L.F. or
V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. Stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN II (EXSIC) ha _____ 1-km _____

Complete Incomplete No. Lines: _____

LINE	<u>6700'</u>							
RATIO								
WIDTH								

Details: _____

MAGNETIC DATA Gear: MP-2 ha _____ 1-km _____

Complete Incomplete No. Lines: _____

LINE	<u>6700'</u>							
GAMMA								
SHAPE								

Details: _____

TRENCH DATA Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

Graphite	Non-Econ. Sulphides	Econ. Sulphides	Other:
Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>
Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>

Details: _____

GEOCHEMICAL DATA ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING ha _____ 1-km _____

GEOLOGY

OTHER METHODS ha _____ 1-km _____

RECOMMENDATIONS

Conductor No. _____
Anomaly No: DARREVEL 3

DATE 1981-07-24 BY MPC

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

MINERALS EXPLORATION DEPT.

D.D. Hole No. K-81-4

Property KINGSMILL

Percussion

Core Bit

PERTINENT HOLE DATA

Located on Claim No. DARGAVEL #3

in Claim Group No. _____

Coord. of Collar L 4+50E O +80S

Date Collared 1981-11-03 19__

Strike 126° (GRID SOUTH)

Date Stopped 1981-11-07 19__

Inclination at Collar -50°

Proposed Depth: 164m

Inclination at Bottom -46°

Final Depth: 178.3m

Inclination at 71.9m -49°

Depth Overburden: 71.9m

Inclination at _____

Core Recovery _____

Core Size: AQ From 71.9 metres to 178.3 metres

X From _____ metres to _____ metres

X From _____ metres to _____ metres

Cementing Required at NIL & at _____ & at _____

Mineralization: From 92.95 to 94.25 Average Grade 1-3% Pb+Py IN DIS & STRINGERS (LOCALLY TO 40%)

From 101.40 to 123.60 Average Grade 5-8% Pb IN STRINGERS + DIS & GRANITE

From 130.30 to 138.80 Average Grade 3-5% DIS, Pb+Py + STRINGERS
151.80 168.50 5-8% Pb + Py IN STRINGERS + GRANITE

Sample Nos. #279-300 = 22 Sack # _____
476 - 486 = 11
33

Assays by: _____ Assayed For: Cu/Pb/Zn Ag/Pg 30elem

REMARKS: ① 2 SEPERATE CONDUCTORS LOCATED (92.95 → 136.80 & 151.8 → 168.5)
② COND. EXPLAINED BY Pb+Py STRINGERS + GRANITE/Pb BANDS

③ NO CASING LEFT IN HOLE.

Property/Prospect KINGSMILL

Area: DARGAVEL #3

File: _____

D.D. Hole No. K-81-4

DIAMOND DRILL RECORD & LOG

LOCATION:

PROPERTY: Kingsmill

HOLE NO: K-81-4

LATITUDE: L4+50E DEPARTURE: 0+80S
 INCLIN: -50°
 AZIMUTH: 196° (Grid South)
 STARTED: 1981-11-03
 COMPLETED: 1981-11-07
 PURPOSE: To Test EM Conductor, Dargavel #3 Zone

LENGTH: 178.3 m
 CORE SIZE: AQ
 DIP TESTS: 1 @ 71.9 m -49°
 1 @ 178.3 m -46°

ELEVATION:
 DRILLED BY: Bradley Bros. Ltd.
 DRILLED FOR: Hudbay Mining Ltd.

CLAIM NO.
 SECTION:
 LOGGED BY: M.P. Corrigan
 DATE LOGGED: 1981-11-08

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS				
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T	
0	71.93	Overburden - clay, sand and gravel									
71.93	105.90	<u>Andesitic Flows (Ultramafic?)</u> - dark green to grey - generally fine grained, but medium to coarse grained spinifexed flow tops occur - 60-70% olivene - plagioclase occurs interstitially to olivene and is most abundant in spinifex zones; 20-30% plagioclase ± quartz - 10-15% carbonate alteration including stringers - numerous 1-2 cm "bleached" chill zones as @ 74.5-74.8 m; very soft and glassy; chill zones contain coarse to very coarse grained biotite "books" and garnets and chlorite clots (all are probably porphyroblasts) - unit is very highly chloritized - intermixing occurs toward the base of the unit, with siliceous, arkosic psammites. - spinifex defines approx. 15-20 flows which range in thickness from tens of cm's up to 1.0 m - lower contact sharp @ 70° TCA <u>86.75-105.90 - Intra-Flow Psammite Zone</u> - psammites are dark grey to black, fine to medium grained - flows within this zone lack spinifex and are generally more chloritic									
			279	92.95	94.25	1.30	tr	0.01	0.02	tr	
			280	101.40	102.90	1.50	nil	0.01	0.01	nil	
			281	102.90	104.40	1.50	nil	0.01	0.01	nil	
			282	104.40	105.90	1.50	nil	tr	0.02	tr	

PROPERTY: Kingsmill

PAGE NO: 2 of 5

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T
105.90	111.70	<ul style="list-style-type: none"> - beds range from 10-60 cm in thickness - biotite/phlogopite define a moderately strong foliation @ 50° TCA - carbonate abundance displays a sympathetic increase with increased mineralization - 1-10% finely disseminated po and py and occasional stringers <p><u>Graphite</u></p> <ul style="list-style-type: none"> - black - fine grained - siliceous, very hard - 0.5-1 cm concentric po "balls"; radial growth apparent; graphitic centres - 5-6 cm oval shaped, graphitic structures @ 106.5 m; shape is highlighted by 1 mm po stringers; some of the structures appear crenulated and have undulatory shapes which are parallel TCA; possibly algal-related <p>108.1-108.7</p> <ul style="list-style-type: none"> - 50% quartz-carbonate stringers; 0.5 cm to 2 cm thick; ~ 30° TCA - 3-5% po and py in stringers, "balls", and disseminations - lower contact sharp @ 60° TCA 	283	105.90	107.40	1.50	nil	0.01	0.16	nil
			284	107.40	108.90	1.50	tr	0.01	0.08	tr
			285	108.90	110.40	1.50	0.003	0.02	0.08	nil
			286	110.40	111.70	1.30	0.03	0.01	0.02	nil
111.70	131.30	<p><u>Andesitic Flow (Ultramafic?)</u></p> <ul style="list-style-type: none"> - grey-green to medium green - fine grained, massive; grain size increases downhole - predominantly olivene; "fresh", very little chlorite (<10%) - <5% carbonate in 1 mm to 2 cm thick veinlets; no matrix carbonate - @ 121.1 m, 15 cm white quartz vein - lower 55 cm of unit sausseritized - 1-10% finely disseminated po and occasional stringer, locally to 30% over 30 cm - lower contact sharp @ 60° TCA 	287	111.70	113.20	1.50	nil	tr	0.01	nil
			288	113.20	114.70	1.50	nil	nil	0.01	nil
			289	114.70	116.20	1.50	nil	nil	0.01	nil
			290	116.20	117.70	1.50	nil	0.01	0.01	nil
			291	117.70	119.20	1.50	nil	tr	0.01	nil
			292	119.20	120.70	1.50	tr	0.01	0.01	nil
			293	120.70	121.80	1.10	0.001	tr	0.02	nil
			294	121.80	122.10	0.30	0.001	0.04	0.14	tr
			295	122.10	123.60	1.50	tr	tr	0.02	nil

PROPERTY: Kingsmill

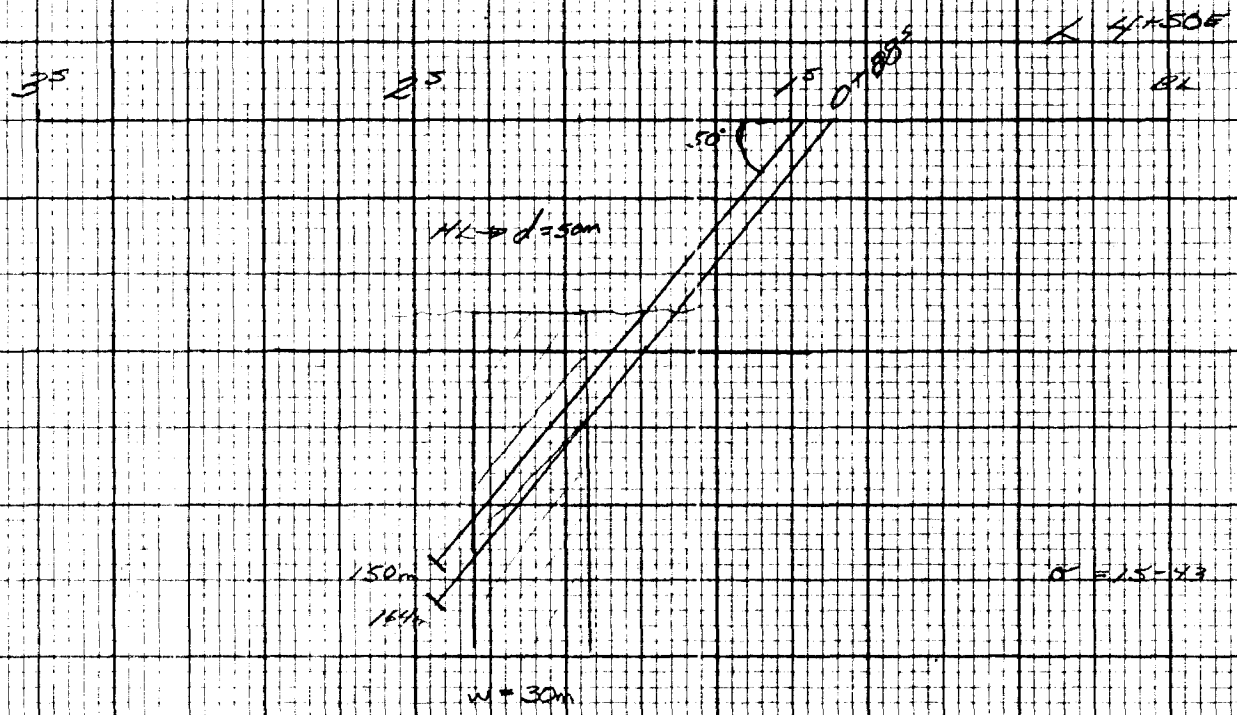
PAGE NO: 3 of 5

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Au oz/T
		121.8-122.1 - <u>Cherty Sulfide Zone</u> - flow-chert contact sharp @ 50° TCA - light grey to whitish - fine grained - 1-2 cm po bands and disseminations - ~50% chert and 50% po - 20 cm either side of the zone is sausseritized (within flow)	296	130.30	131.30	1.00	nil	0.01	0.02	nil
131.30	132.00	<u>Graphite</u> - black, banded @ 70° TCA - very "dirty", i.e. psammite bands constitute 80% of unit - several po bands, < 1 mm thick - upper contact marked by a 15 cm quartz vein - lower contact sharp @ 55° TCA	297	131.30	132.00	0.70	nil	nil	0.07	nil
132.00	134.80	<u>Andesitic Flow</u> - as before @ 111.70-131.30 except: - 10-15% sausseritized - 1-8% disseminated po and stringers and blebs - lower contact sharp @ 65° TCA	298 299	132.00 133.50	133.50 134.80	1.50 1.30	nil 0.003	tr tr	0.01 0.01	nil tr
134.80	136.80	<u>Graphite</u> - black, very siliceous - several po "balls" - interbedded with 1.0-10.0 cm psammites and sausseritized flows (flows are ~50% po) - rare 0.5 m to 1.0 cm py bands - 15-20% po and py in stringers, bands and occasional "balls" - lower contact sharp @ 55° TCA	300	134.80	136.80	2.00	tr	0.01	0.06	nil
136.80	153.70	<u>Andesitic Flow</u> - as before @ 111.70-131.30 except: - lower 2.80 m is mixed with fine to medium grained psammites (tuffs?) as @ 86.75-105.90 - % po increases towards lower contact; sympathetic increase in matrix carbonate	476 477	136.80 151.80	138.80 153.70	2.00 1.90	tr nil	0.01 0.01	0.01 0.02	nil nil

PROPERTY: Kingsmill

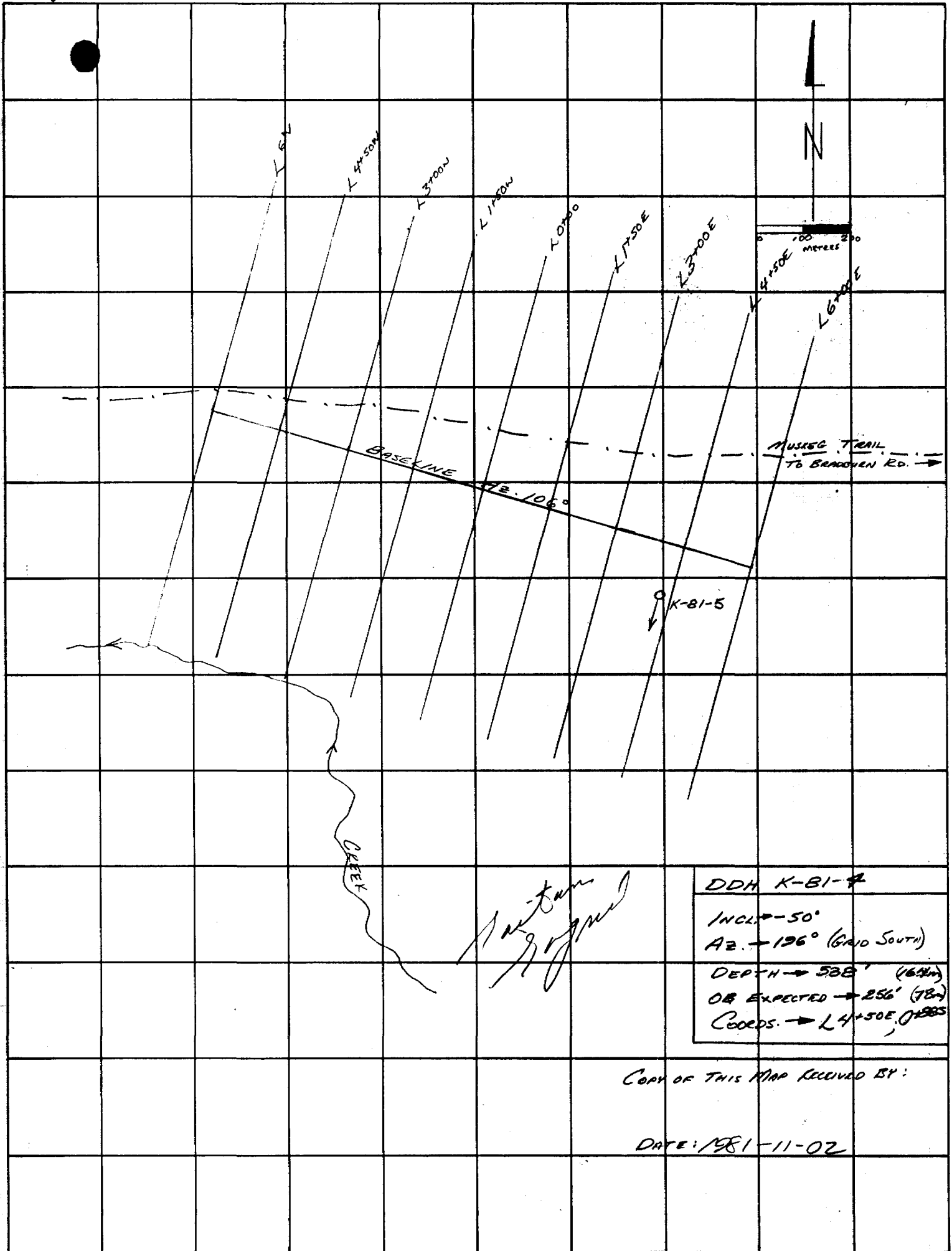
PAGE NO: 4 of 5

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T
153.70	154.50	<ul style="list-style-type: none"> - trace po and py; locally to 10% finely disseminated po - lower contact sharp @ 55° TCA <p><u>Graphite</u></p> <ul style="list-style-type: none"> - as before @ 131.30-132.00 except: - no po bands or quartz veins - quartz-carbonate stringers, to 3 mm, are common - % graphite > % psammite - banding not as prevalent - 3-5% finely disseminated po and occasional stringers - lower contact gradational @ 65° TCA 	478	153.70	154.50	0.80	nil	nil	0.02	nil
154.50	157.20	<p><u>Intra-Flow Psammities (Tuffs?)</u></p> <ul style="list-style-type: none"> - as before @ 86.75-105.90 except: - 3-8% finely disseminated po and occasional stringers - lower contact gradational @ 55° TCA 	479	154.50	156.00	1.50	nil	0.01	0.02	tr
			480	156.00	157.20	1.20	tr	0.01	0.04	tr
157.20	158.70	<p><u>Graphite</u></p> <ul style="list-style-type: none"> - black, very siliceous - finely banded, < 1 cm - 0.1-1.0 cm po and py bands and disseminations - graded bedding @ 158.10-158.30, coarsening downhole - numerous 0.5 cm quartz-carbonate stringers - 0.5-1.0 cm subrounded labile clasts @ 158.80 m; aligned parallel to banding (65° TCA); sulfide clasts?? - 20-25% finely po and bands to 0.5 cm and occasional stringers - lower contact sharp @ 65° TCA 	481	157.20	158.70	1.50	nil	0.01	0.07	tr
158.70	166.50	<p><u>Andesitic Flows</u></p> <ul style="list-style-type: none"> - as before @ 71.93-105.90 except: - no spinifex - chill zones present - upper and lower contacts characterized by 1.0 m of intra-flow psammities (as @ 86.75-105.90) - 20-30% carbonate - plagioclase phenocrysts absent 	482	158.70	159.70	1.00	nil	tr	0.01	tr
			483	165.00	166.50	1.50	nil	0.01	0.01	tr



DARGAVEL 3

1cm = 20m



DDH K-81-5
INCL. -50°
AZ. -126° (GRID SOUTH)
DEPTH -> 538' (164m)
OR EXPECTED -> 256' (78m)
COORDS. -> L 4450E, 0780S

COPY OF THIS MAP RECEIVED BY:

DATE: 1981-11-02

HUBBAY MINING LTD.
DDH K-814
(DARKVEL #3)
LOOKING WEST
1cm = 10m

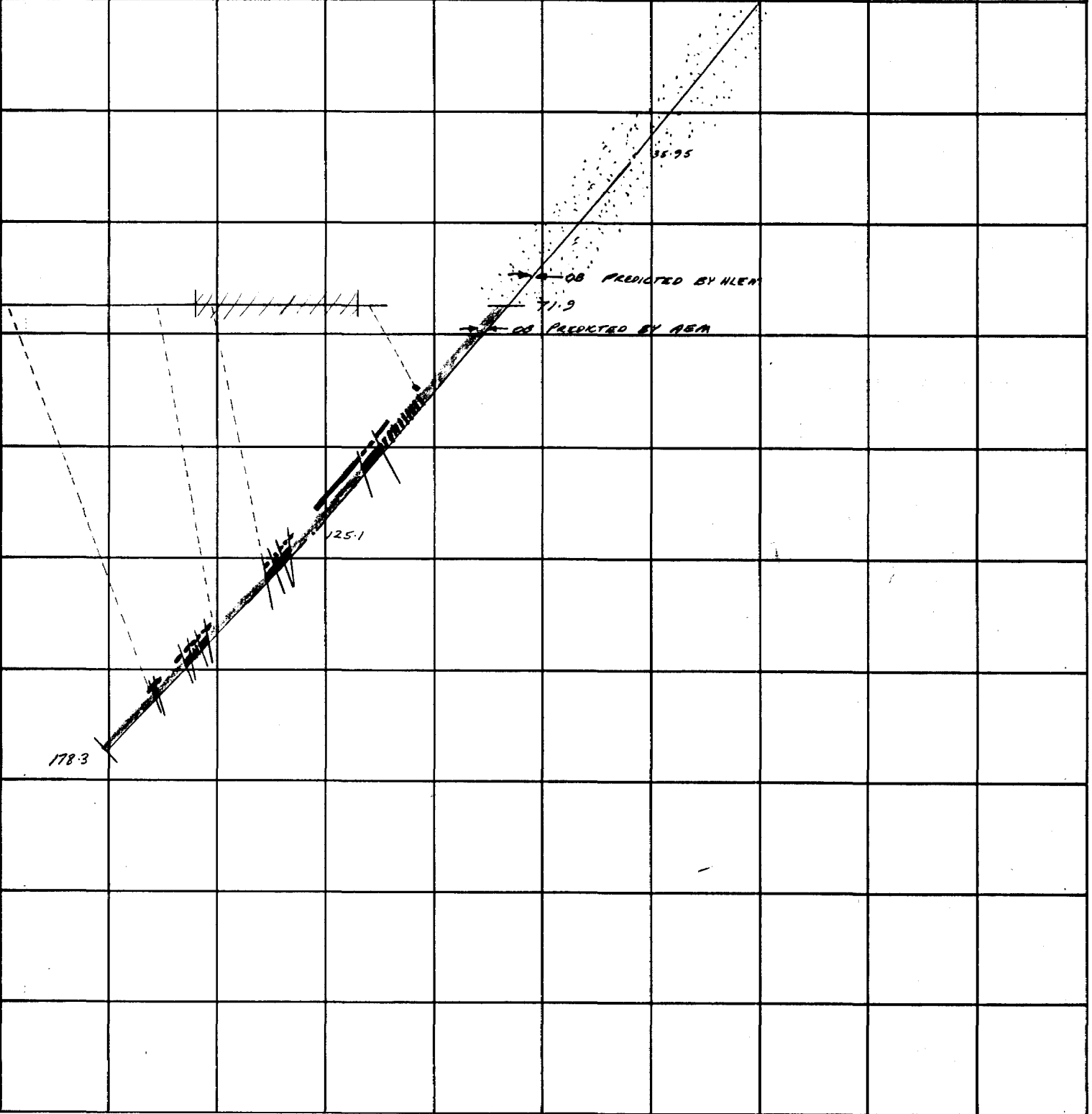
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HL ANOMALY



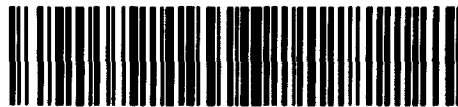
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L450E



<p>INCLINATION INCLINATION COLLAR → -50° 72m → -42° 1783 → -46</p>	<p>HURBAY MINING LTD. KINGSMILL PROJECT → DDH K-81-4 ← DAGGAVEL #3</p>
<p>0-71.23 OVERBURDEN</p>	<p>Loc. L 4+50E, 0+80S AZ: 196° (GRID SOUTH) DEPTH: 178.3 SIZE: A.Q.</p>
<p>71.93-105.9</p>	<p>Collared: 1981-11-03 Completed: 1981-11-07 Logged by: M. CURRIAN 1cm = 2m 1 of 3</p>
<p>*ANDESITIC FLOWS (UM?) - DK. GREEN/GREY - GENERALLY F.GR., BUT A. + C.GR.</p>	<p>MINERALIZATION 71.93-32.95 No visible MINERAL.</p>
<p>SPINIFEXED FLOW TOPS (SPINIFEX DEFINES ~15-20 FLOWS OF 10'S OF CM TO ~1m IN THICKNESS IN UPPER 15m OF UNIT) - PREDOMINATELY OLIVINE ~60-70% - FLAG. OCCURS INTERSTITIALLY TO</p>	<p>71.93 75 79</p>
<p>OLIVINE IS MOST APPARENT IN SPINIFEX 20-30% (PROBABLY QZ AS WELL) - 10-15% CARB. ALTERATION, + STRINGERS (< 1cm IN WIDTH) - NUMEROUS 1-2cm "BLEACHED"</p>	<p>83 87</p>
<p>CHILL ZONES AS @ 74.5-74.8 (V. SOFT & GLASSY LOOKING) ** - RARE 1-2cm SUBSERIAL GARNETS IN CHILL ZONE - V. HIGHLY CHLORITIZED - UNIT BECOMES INTERMIXED WITH PSAMMITES AS NOTED BELOW (SEVERAL FLOWS ARE STILL VISIBLE IN THIS SECTION) - LWR. CONTACT OF UNIT SHARP @ 70° TCA</p>	<p>91</p>
<p>86.75-105.9 INTER-FLOW SEDIMENT ZONE - F. - M. GR. DK. GREY TO BLACK ARKOSIC PSAMMITES INTERBEDDED WITH FLOWS AS ABOVE (FLOWS ARE GENERALLY MORE CHLORITIC & SPINIFEX IS ABSENT) - ARKOSIC BEDS ARE 10cm → 60cm IN THICKNESS</p>	<p>95 99</p>
<p>- V. SILICEOUS, ~ 60-80% Qtz + FELD(?) - BIOTITE/RHODOCHROITE (A BROWN ALCA) LEAVES A MOD. STRONG FOLW @ 50° TCA (PROBABLY PRIMARY, IE FOLDING PLANES) ~10%</p>	<p>102</p>
<p>- % CARB. VARIES FROM 1-2% IN UNMINERALIZED PSAMMITES TO ~ 50% IN MINERALIZED PSAMMITES - FLOWS HAVE 30-40% CARB. IN MATRIX, + 2cm STRINGERS</p>	<p>102 102</p>
<p></p>	<p>102 102</p>
<p>* THE CHILL ZONES DISPLAY C. - V.C GR. BIOTITE BANDS + GARNETS + CHLORITIC CLOTS, GENERALLY. A METAMORPHIC ORIGIN (IE. PORPHYROBLASTS) IS SUSPECTED.</p>	<p>102 102</p>

105.2 - 111.7	* <u>GRAPHITE</u> - BLACK/MASSIVE - V.V. HARD (SILICEOUS) - 0.5cm CONCENTRIC Pb BALLS. - RADIAL GROWTH: APPARENT, GRANITIC CENTRES - 5-6cm OVAL-SHAPED GRAPHITIC STRUCTURES @ 106.5m (SHAPE IS OUTLINED BY Pb STRAINERS (<1mm))	107	HUDRAY MINING LTD. KINGSMILL PROJECT DRA K-81-4 (DRAVEL #3) 2 of 3
	- @ 106.9m GRAPHITIC STRUCTURES AS ABOVE, BUT OF INDEFINITE SIZE (V. LARGE); GIVES APPEARANCE OF CREMATED/UNDULATORY BEDDING // TCA; Pb/Py DEFINES "BEDDING". Pb/Py ALSO OCCURS AS STRAINERS @ 70° TCA ? STROMATOLITE MATS? - LWR CONTACT SHARP @ 60° TCA - V. SILICEOUS, CHERTY	111	<u>MINERALIZATION</u>
108.1 - 108.7	ZONE OF ~50% Q-C STRAINERS (1.5-2cm IN THICKNESS) @ ~30° TCA	#284	107.4-108.9 =1.5m 3-5% Pb + Py(?) IN STRAINERS + DISS. OCC. Pb "BALL" IN GRAPHITE
108.7 - 111.7	ZONE OF PSAMMITIC BEDS/GRAPHITE - PSAMMITES ARE SAME AS THOSE @ 86.75-105.9m	#285	108.9-110.4 =1.5m 3-5% Pb AS BLEBS, "BALLS", STRAINERS + DISS. IN GRAPHITIC PSAMMITES
		#286	110.4-111.7 =1.3m " " "
		#287	111.7-113.2 =1.5m 5-8% F. DISS. Pb
		#288	113.2-114.7 =1.5m 5-8% F. DISS. Pb + STRAINERS
		#289	114.7-116.2 =1.5m 1-3% F. DISS. Pb
111.7 - 121.3	* <u>ANDESITIC FLOW</u> - GRAY-GREEN TO MED. GREEN - F. GR., MASSIVE; GR. SIZE 1/2-1mm - PREDOMINATELY OLIVINE (FRESH, V. LITTLE CHLORITE, <10%; V. HARD) - < 5% CARB., NO MATRIX CARB.! - CARB. OCCURS IN Q-C VEINLETS 0.1cm - 2cm THICK (VEINLETS ARE CONTAINED TO ~5m OF CORE) - @ 121.1, 15cm, WHITE, QTR. VEIN - LWR CONTACT SHARP @ 50° TCA - LWR. 55cm SAUSSURITIZED <u>CHERTY-SULFIDE ZONE</u> - FLAT-CHERT CONTACT SHARP @ 50° TCA (UPPER FLOWER) - 1-2cm Pb BANDS + DISS. - LT GRAY TO WHITISH CHERT BANDS - ~50% CHERT / 50% Pb - ~20cm OF FLOW (EITHER SIDE OF THE ZONE) IS SAUSSURITIZED	#290	116.2-117.7 =1.5m 8-10% F. DISS. Pb + OCC. STRAINERS
		#291	117.7-119.2 =1.5m 7-1% F. DISS. Pb, OCC. BLEBS
		#292	119.2-120.7 =1.5m 3-5% F. DISS. Pb + OCC. STRAINERS
		#293	120.7-121.8 =1.1m 1-3% F. DISS. Pb
121.8 - 122.1		#294	121.8-122.1 =0.3m 25-30% Pb IN BANDS + DISS. Tr Carb + Gr(?) NATIVE Ag(?)
		#295	122.1-123.6 =1.5m Tr-1% DISS. Pb + OCC. STRAINERS + 1cm MASS. Sph BAND
		#296	123.6-130.3 No SIGNIF. MINERAL.
		#297	130.3-131.3 =1.0m 1-3% F. DISS. Pb + BLEBS Pb(?)
131.3 - 132.0	* <u>GRAPHITE</u> - BLACK, BANDED @ ~70° TCA - V. "DIRTY" I.E. PSAMMITIC BANDS CONSTITUTE ~80% OF UNIT - SEVERAL <1mm Pb BANDS - UPPER CONTACT MARKED BY A 15cm Q.V. + CARB.; FRAGMENTED - LWR. CONTACT SHARP @ 65° TCA	#298	131.3-132.0 =0.7m DISS. TCA Pb IN GRAPHITIC SEGS
		#299	132.0-133.5 =1.5m 1-3% Pb AS DISS. + OCC. STRAINERS
		#300	133.5-134.8 =1.3m 5-8% DISS. Pb + BLEBS
		#301	134.8-136.8 =2.0m 15-20% Pb + Py IN STRAINERS, "BALLS", DISS. IN GRAPHITE
132.0 - 134.8	* <u>ANDESITIC FLOW</u> AS BEFORE, 111.7-131.3 EXCEPT: 10-15% SAUSSURITIZED - Pb DISS. @ 60° TCA	#302	136.8-138.8 =2.0m 8-10% F. DISS. Pb
	- LWR CONTACT GRADATIONAL @ 55° TCA	#303	138.8-151.8 No SIGNIF. MINERAL.
134.8 - 136.8	* <u>GRAPHITE</u> - BLACK, V. HARD - SEVERAL Pb BALLS AS AT 105.2-111.7	#304	
	- INTERBEDDED WITH 1-10cm PSAMMITIC + SAUSSURITIZED(?) FLOWS (FLOWS ARE ~50% Pb) - 0.5-1.0cm Pb BANDS (RARE) - LWR. CONTACT @ 55° TCA, SHARP	#305	



42H03SW0012 63.4812 DARGAVEL

040

Part 4 of 5

63.4812
(4)

54-1 P.B.

HUDSON'S BAY OIL AND GAS COMPANY LIMITED
MINERALS EXPLORATION DEPT.

D.D. Hole No. K-81-3
Property KINGSMILL
Percussion
Core Bit

PERTINENT HOLE DATA

Located on Claim No. DARGAVEL #4 in Claim Group No. _____
Coord. of Collar L3+00W; 1+64S Date Collared 1981-10-27 19__
Strike 032° (GRID NORTH) Date Stopped 1981-11-01 19__
Inclination at Collar -50° Proposed Depth: 150.0m
Inclination at Bottom -46° (151.2m) Final Depth: 151.2m
Inclination at 86.6m -49° Depth Overburden: 82.9m
Inclination at _____ Core Recovery 99%

Core Size: AQ From 82.9 metres to 151.2 metres
X From _____ metres to _____ metres
X From _____ metres to _____ metres

Cementing Required at NIL & at _____ & at _____

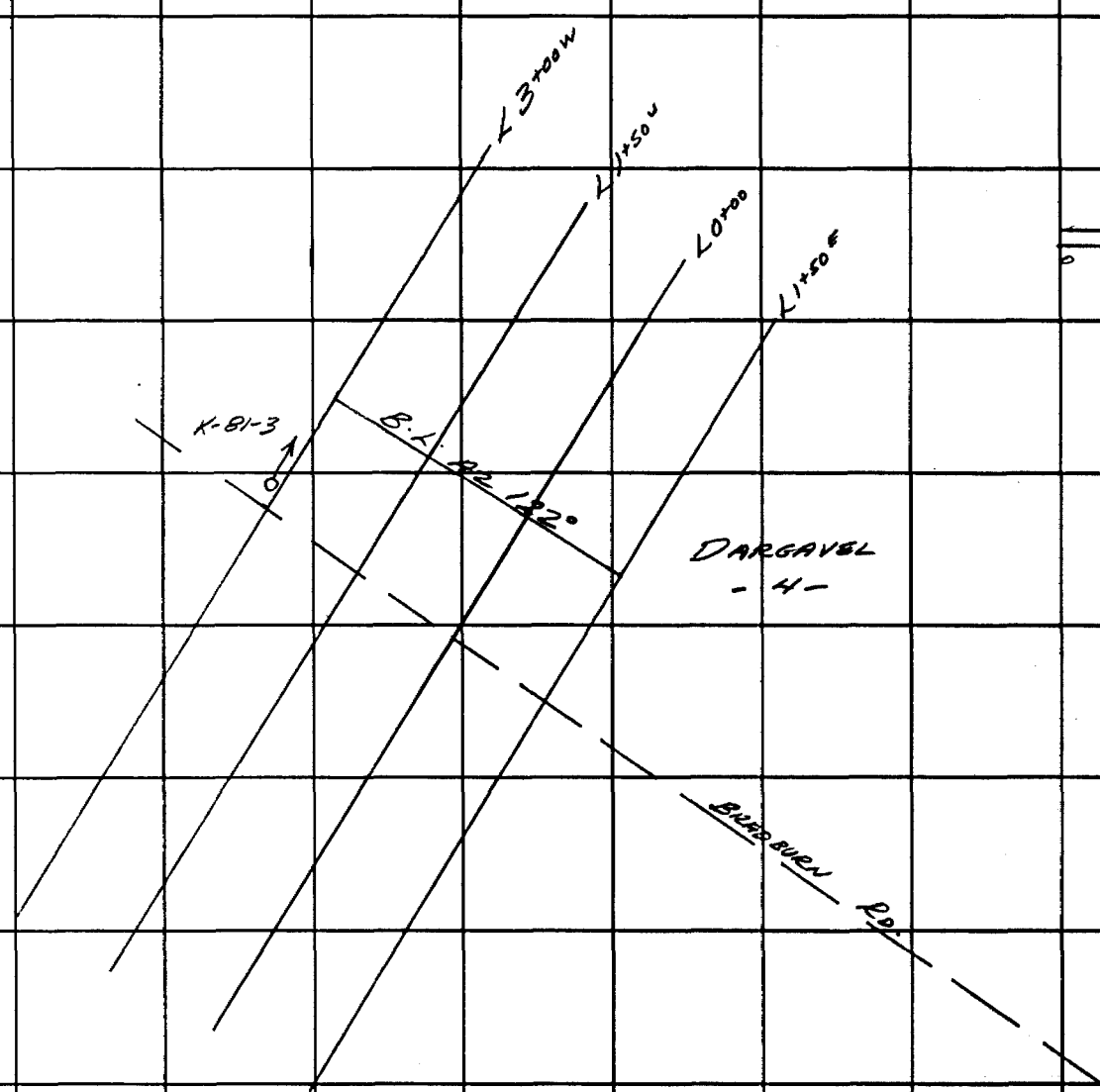
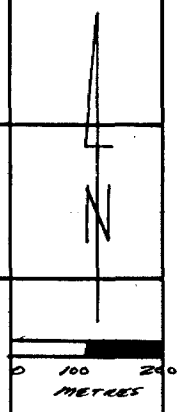
Mineralization: From 91.95m to 107.50m Average Grade 5-10% Po/Py (Locally to 20%)
1-2% Sph Locally
From 113.15m to 126.90m Average Grade 1-5% Po/Py
From 126.90 to 151.20m Average Grade ~1-3% Po/Py Locally

Sample Nos. 255 -> 278 Sack # _____
= 24 SAMPLES

Assays by: X-RAY Assayed For: Cu/Pb/Zn Au/Ag 30ELEM.

REMARKS: ① CONDUCTOR EXPLAINED.
② OB > TWICE THE EXPECTED DEPTH (DEPTH ESTIMATES FROM REM ~ OB DEPTH ENCOUNTERED).

Property/Prospect KINGSMILL Area: DARGAVEL #4
2110-04 File: _____
D.D. Hole No. K-81-3

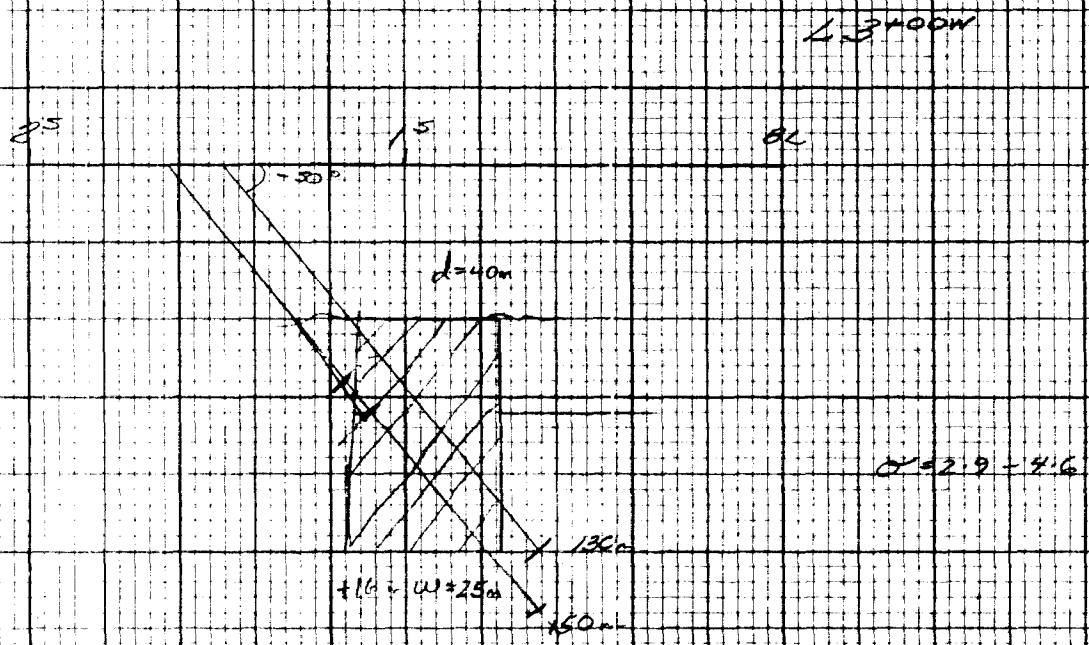


DDH K-81-3
INCL → 50°
AZ → 032° (GRID NORTH)
DEPTH → 130m (427')
OB EXPECTED → 52m (171')
COORDS. → L3+00W, 1+55

Copy of this Received by:

DATE: 1981-10-20

*Gaitan
Soyuz*



DARGAVEL 4

1cm = 20m

DIAMOND DRILL RECORD & LOG

LOCATION:

PROPERTY: Kingsmill

HOLE NO: K-81-3

LATITUDE: L3+00W DEPARTURE: 1+64S
 INCLIN: -50°
 AZIMUTH: 032° (Grid North)
 STARTED: 1981-10-27
 COMPLETED: 1981-11-01
 PURPOSE: To Test EM Conductor, Dargavel #4 Zone

LENGTH: 151.2 m
 CORE SIZE: AQ
 DIP TESTS: 1 @ 86.6 m - 49°
 1 @ 151.2 m - 46°

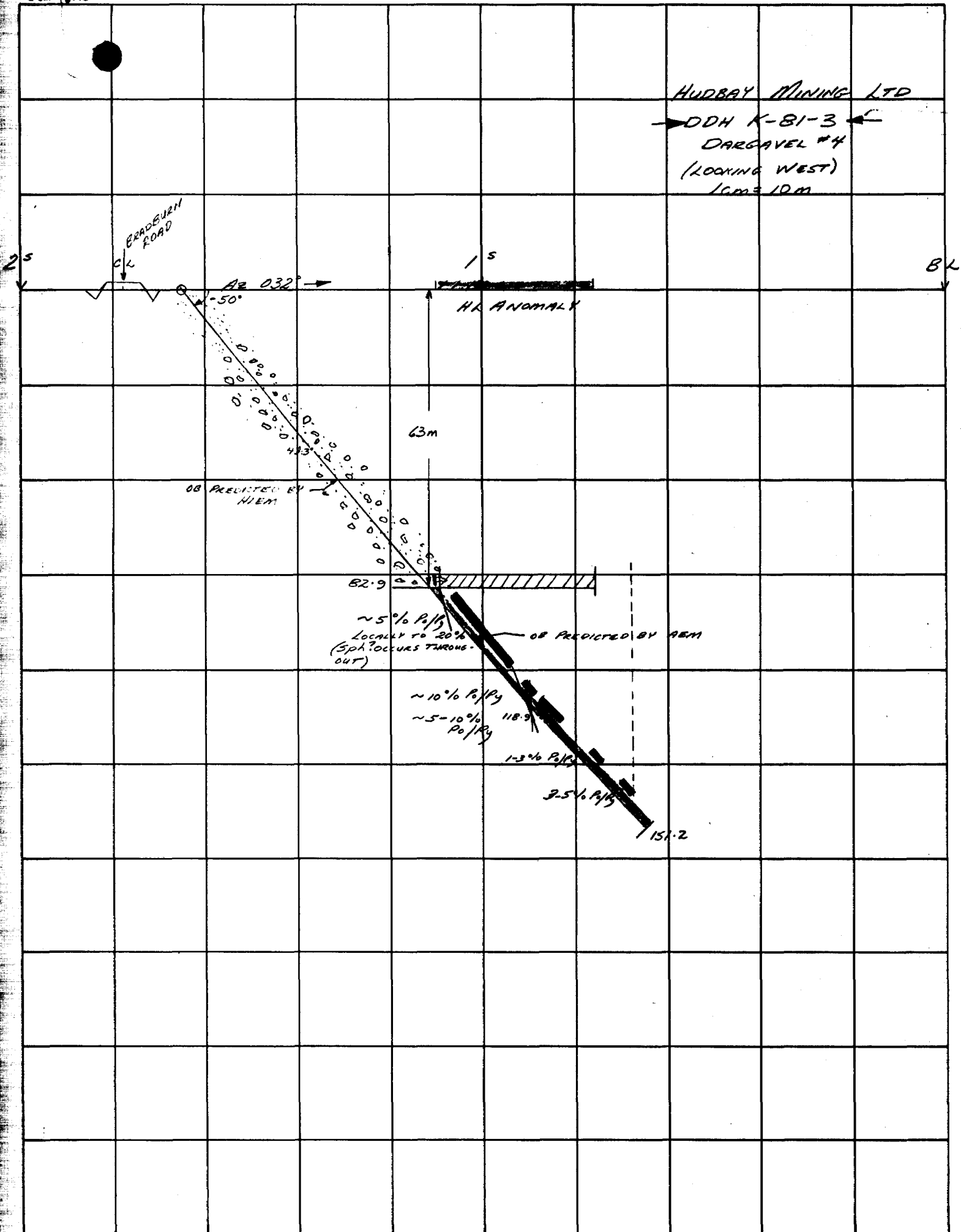
ELEVATION:
 DRILLED BY: Bradley Bros. Ltd.
 DRILLED FOR: Hudbay Mining Ltd.

CLAIM NO.
 SECTION:
 LOGGED BY: M.P. Corrigan
 DATE LOGGED: 1981-11-02

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS				
From	To			From	To		Au ppb	Cu ppm	Zn ppm	Ag ppm	
0	84.7	Overburden - sand and gravel, boulders									
84.7	151.2	<u>Gabbro</u> - dark green to black - fine to coarse grained; matrix is aphanitic to fine grained, while medium to coarse grained chloritized amphiboles impart a porphyritic appearance - 40-65% chloritized amphiboles - 5-10% quartz - 20-30% carbonate in matrix, plus numerous 1-2 mm quartz-carbonate stringers @ various angles (generally 20-30° TCA) - unit is characterized by rhythmic layering and cryptic variations; SiO ₂ content and amphibole content varies with successive layers - 3-5% finely disseminated po, locally to 15%; trace sph									
		84.7-86.2 - aphanitic matrix with distinctive 1-2 mm chlorite clots - fractured @ 50° TCA - 15-20% carbonate; 0.5 mm carbonate phenocrysts occur in upper 60 cm of unit - lower contact gradational									
			255	84.70	86.30	1.60	< 2	110	44	0.5	
			256	91.95	93.00	1.05	< 2	84	44	0.5	
			257	93.00	94.00	1.00	< 2	98	110	0.5	
			258	94.00	95.50	1.50	< 2	98	51	0.5	
			259	95.50	97.00	1.50	< 2	92	47	0.5	
			260	97.00	98.50	1.50	< 2	86	74	0.5	
			261	98.50	100.00	1.50	< 2	100	68	0.5	
			262	100.00	101.50	1.50	< 2	36	42	0.5	
			263	101.50	103.00	1.50	< 2	82	51	0.5	
			264	103.00	104.50	1.50	< 2	53	45	0.5	
			265	104.50	106.00	1.50	< 2	84	56	0.5	
			266	106.00	107.50	1.50	< 2	70	45	0.5	
			267	113.15	114.40	1.25	< 2	110	38	< 0.5	
			268	114.40	115.10	0.70	< 2	67	140	< 0.5	
			269	115.10	116.70	1.60	< 2	75	50	0.5	
			270	117.80	119.30	1.50	< 2	100	37	0.5	
			271	119.30	120.80	1.50	< 2	73	36	0.5	
			272	120.80	122.30	1.50	< 2	110	42	0.5	
			273	125.90	126.90	1.00	< 2	27	29	0.5	
			274	131.80	133.30	1.50	< 2	72	36	0.5	
			275	133.30	134.80	1.50	< 2	53	34	0.5	
			276	140.90	142.40	1.50	< 2	180	28	< 0.5	
			277	142.40	143.90	1.50	4	110	26	< 0.5	
			278	147.80	149.30	1.50	< 2	130	26	0.05	

HUBBAY MINING LTD

DDH K-81-3
DARGAVEL #4
(LOOKING WEST)
10m = 10m



INCLINATION

COLLAPSED → -50°
86.6 → -49°
151.2 → -46°

HUBBAY MINING LTD.
KINGSMILL PROJECT
→ DDH K-81-3
(DAREVEL #4)

0-84.7 OVERBURDEN

Loc 2 → 3100W; 1 AGY^S
AZ. → 032° / GRID NORTH
DEPTH → 151.2m
SIZE → AQ
COLLAPSED → 1981-10-27

84.7-86.2 * DACITIC FLOW

- DK. GREEN → BLACK
- F.G.R. WITH 1-2mm CHLORITE CLOTS
- WEAK CHLORITE LINATION NEAR LWR CONTACT

FINISHED → 1981-11-01
LOGGED BY: MPC
1cm = 2m
PAGE 1 of 2

- MASSIVE APPEARANCE
- FRACTURES @ 50° TCA
- 15-20% CARB. ↓ DOWNHOLE (0.5mm CARB. PHENO. IN UPPER 0.6m)
- 25-30% CHLORITE

MINERALIZATION

#255 84.7-86.3 1-3% DISS. PO/PY
(= 1.6m)
INC. 30cm L.C.
V.F.G.R.
LOCALLY UP TO 8-10%

- APHANITIC MATRIX (GLASSY?) MOD. HARD.
- LWR. CONTACT GRADATIONAL

86.2-114.4 * ANDESITIC FLOW

- DK. GREEN (CARBONIC TERNED) QTB. VEINLET
- MASSIVE, M-COR. CHLORITIZED AMPHIBOLES GIVE UNIT AN INTENSIVE APPEARANCE (PORPHYRITIC)
- % OF AMPH. ↓ DOWNHOLE; SIZE ↓ DOWNHOLE AS DOES INTERGRANULAR SPACES; UNMOUNTED SUBHEDRAL CRYSTALS

#256 86.2-91.95 7% DISS PO/PY
#256 91.95-98.0 10-15% PO/PY DISS.
= 1.05m V.F.G.R.
LOCALLY UP TO 20%

- 1mm LT. BLUE QTB. GRAINS
- V. HIGHLY CARB'D. UP TO 60% LOCALLY
- 40-65% CARB. AMPH.
- 5-10% QTB. GRAINS

#257 98.0-94.0 15-20% DISS PO/PY
= 1.0m CONC. ABOUT Q-C VEINLETS

- 20-30% CARB. (MATRIX) (+ NUMEROUS 1-2mm Q-C STRINGERS @ VARIOUS ANGLES TCA) [0° → 80°]
- LWR. CONTACT GRADATIONAL
- 93.0 → 94.0 FINER OR TUFFACEOUS-LOOKING SECTION, LACKS CHLORITIC KNOTS

#258 94.0-95.5 1-3% DISS PO/PY
= 1.5m

114.4-115.1 * DACITIC TUFF

- DK. GREEN - BLACK
- APHANITIC MATRIX

#259 95.5-97.0 3-5% " "
= 1.5m

#260 97.0-98.5 3-5% " "
= 1.5m

- OCC. SILICEOUS LAPILLI (ANGULAR TO SUB-ROUNDED) IN LWR. SECTION
- PO ALIGNED ~ ⊥ TCA, PY // TO LWR. CONTACT (I.E. @ 40° TCA)
- NO CARB.

#261 98.5-100.0 3-5% " "
= 1.5m

#262 100.0-101.5 1-3% " "
= 1.5m

- GLASSY MATRIX, SOME CHLORITIC CLOTS
- LWR. CONTACT SHARP

#263 101.5-103.0 3-5% " "
= 1.5m LOCALLY TO 10%

#264 103.0-104.5 3-5% DISS. PO/PY
= 1.5m

115.1-151.2 * ANDESITIC FLOW (TUFF?)

- AS BEFORE 86.2-114.4
- EXCEPT: - MORE FELSIC, QTB. GRAINS MORE ABUNDANT
- MINERALIZATION, GENERALLY RESTRICTED TO Q-C. VEINLETS, + BORDERING 1-2cm OF HOST ROCK
- VARIABLY CARBONATIZED, 10-70%

#265 104.5-106.0 1-3% " "
= 1.5m CONC. ABOUT Q-C VEINLETS

#266 106.0-107.5 3-5% DISS PO/PY
= 1.5m

#267 107.5-113.15 NO VISIBLE MINERAL.

#268 113.15-114.40 8-10% F. DISS. PO/PY
= 1.25m

#269 114.40-115.10 10-15% F. DISS. PO/PY
+ STRINGERS
= 0.7m

#270 115.10-116.70 3-5% F. DISS. PO/PY
= 1.6m

#271 116.70-117.8 NO VISIBLE MINERAL.

#272 117.8-119.3 8-10% F. DISS. PO/PY
= 1.5m

E.M. ANOMALY DATA SHEET

Anomaly No: DARGAVEL 4
Conductor No: _____
Block: 04
Project: KINGSMILL 2110

V.L.F. or

V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN II (EXSICS) ha _____ 1-km _____

Complete Incomplete No. Lines: 4

LINE	3+00 ^W	1+50 ^W	0+00	1+50 ^E				
RATIO								
WIDTH								

Details: _____

MAGNETIC DATA Gear: MP-2 ha _____ 1-km _____

Complete Incomplete No. Lines: 4

LINE	3+00 ^W	1+50 ^W	0+00	1+50 ^E				
GAMMA								
SHAPE								

Details: _____

TRENCH DATA Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

<u>Graphite</u>	<u>Non-Econ. Sulphides</u>	<u>Econ. Sulphides</u>	<u>Other:</u>
Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>	Bedrock <input type="checkbox"/>
Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>	Float <input type="checkbox"/>

Details: _____

GEOCHEMICAL DATA ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING ha _____ 1-km 5.45

GEOLOGY

OTHER METHODS ha _____ 1-km _____

RECOMMENDATIONS

Conductor No. _____
Anomaly No: DARGAVEL 4

DATE 1981-07-24 BY MPC

DARGAVEL #4

CHANNEL

20320W/A
20330W/A

20330W/B

1
2
3
4
5
6

Amplitude (mm)	ppm	mm	ppm
5.5	165	10	300
4	120	5	150
3	90	3	90
20	60	1	30
1.5	45	-	-
0.5	15	-	-

mm	ppm
18.5	555
13	390
8.5	255
5.8	174
3.5	105
2.2	66

DEPTH

230' 70.1m 128" 260' 79.2m 152"

↓
19m perfect fit
9m perfect fit

AVG. 74.7m

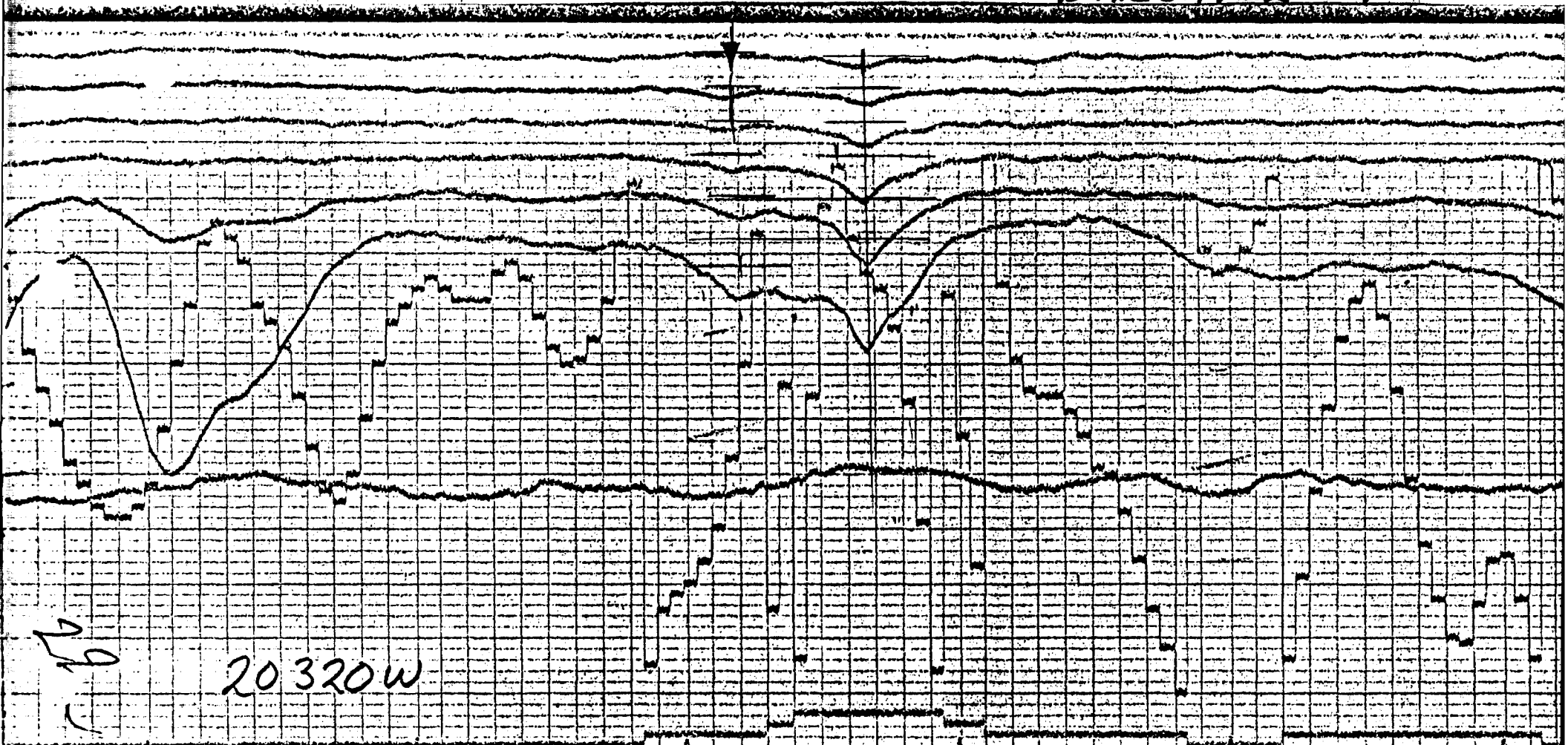
K-81-3 = 63m Vert.

WORKSHEET

DATE _____
FILE NO. _____
BY _____ CHK.D _____
SHEET NO. _____ OF _____

DARGAVEL
4

DARGAVEL 4



20320W

263

264

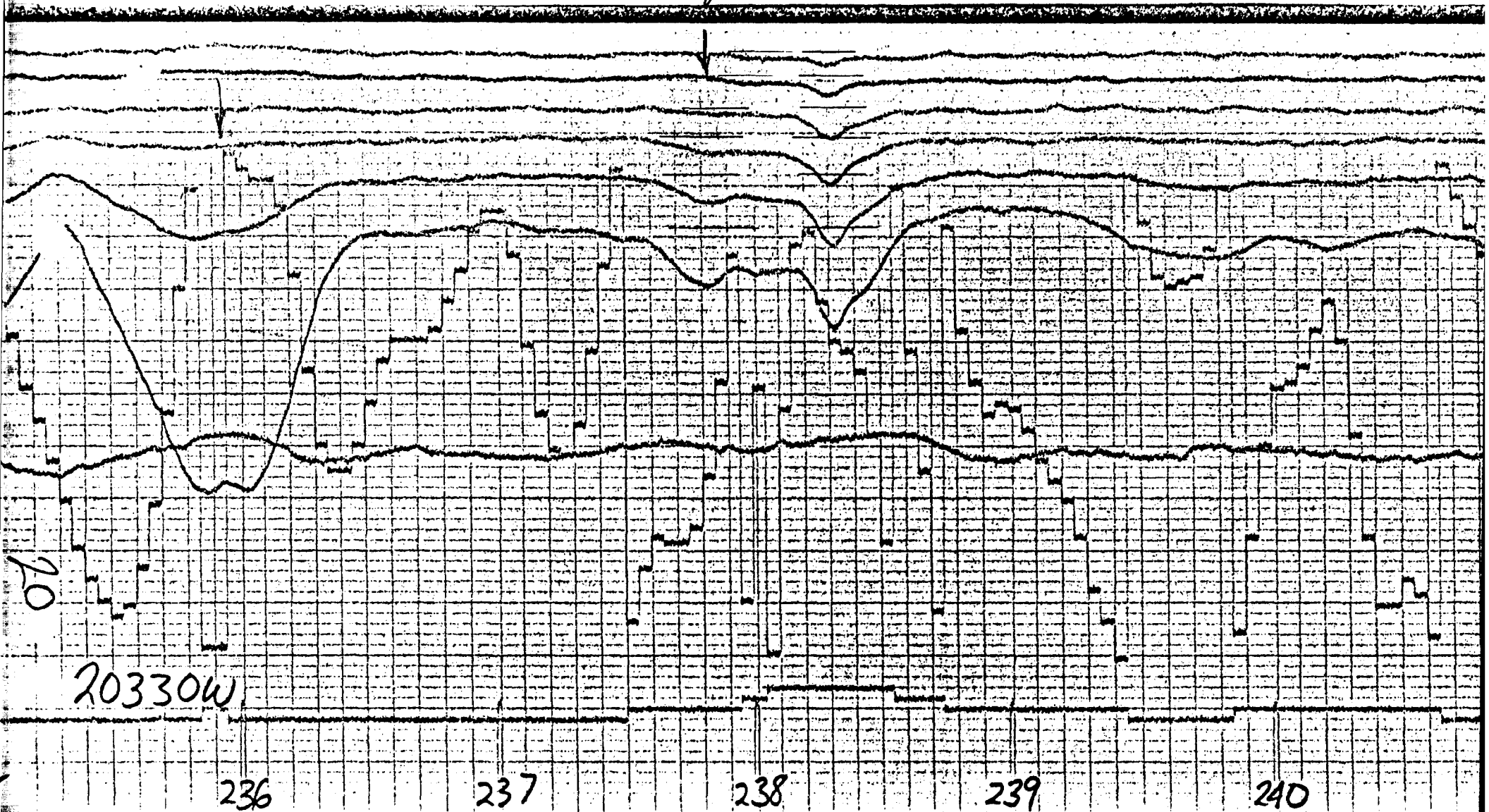
265

266

267

268

DARGAVEL #9





DARGAVEL - 4

20250E
20260W
20270E
20280W
20291E
20300W
20310E
20320E
20330W
20340E
20350W
20360E
20370W
20380E
20390W
20400E
20410W
20420E
20430W

20291E

20300W

20310E

20320E

20330W

20340E

20350W

20360E



DARGAVEL 4

→ L 3+00W

1777 { COND @ 0+46^S TO 1+02^S = 56m
 DIP ~ VERT.
 DEPTH = 250 x .09 = 22.5m
 IP/OP = 24/-22 = 1.09

888 { COND @ 0+62^S TO 1+10^S = 48m
 DIP ~ VERT
 DEPTH = 250 x .13 = 32.5m
 IP/OP = -14/-17 = 0.82

444 { COND @ 0+73^S TO 0+97^S = 24m
 DIP ~ VERT
 DEPTH = 250 x .16 = 40m
 IP/OP = -8/-12 = 0.67

→ L 1+50W

1777 { COND @ 1+16^S TO 1+76^S = 60m
 DIP ~ VERT TO STEEP SOUTH
 DEPTH = 250 x .18 = 45m
 IP/OP = -15/-15 = 1

888 { COND @ 1+52^S TO 1+70^S
 DIP ~ VERT TO STEEP SOUTH
 DEPTH = 250 x .07 = 17.5m
 IP/OP = -6/-14 = 0.43

444 { COND @ LINE COND
 DIP ~ VERT TO STEEP SOUTH
 DEPTH = 250 x .2 = 50m
 IP/OP = -4/-6 = 0.66

H.B.O.G. 30-70 PC

DARGAVEL 4 (CON'D)

→ L 0+00 NO INTERP. POSSIBLE

→ L 1+50E " " "

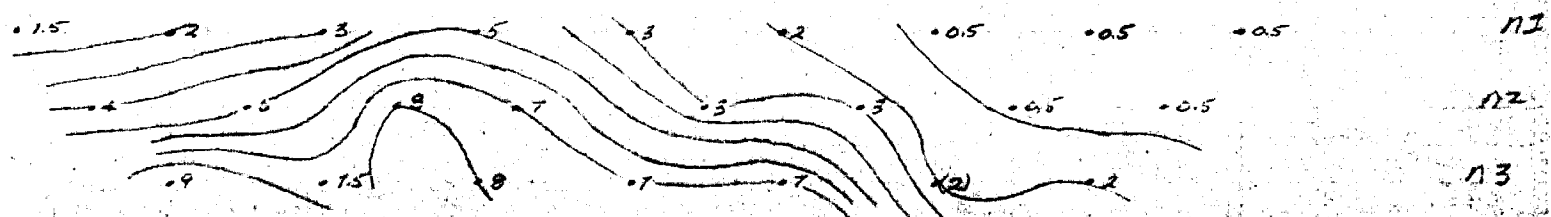
DARGAVEL 3

5700S

BL
0+00

4+00N

APPARENT CHARGEABILITY
MILLISECONDS



APPARENT RESISTIVITY
OHM METRES



APPARENT RESISTAL FACTOR



INSTRUMENTATION &
SURVEY SPECIFICATIONS
AS FOR DARLAUEL #1

PARALLEL DIPOLE 150 M A=100M
DIPOLERS PERPENDICULAR TO GRID LINES

DARLAUEL #1

I.P. RESISTIVITY SURVEY

L 1+75W

HOR. SCALE 1:5000

8/10/81

DARGAVEZ #4

DARGAVEZ 4 GIVES A WEAK BUT DEFINITELY ANOMALOUS
RESPONSE CENTRED AT 1450S ON THE I.P. SECTIONS.
AL BAYS ALSO SUSPECTS AN ANOMALY AT 250S TO 3100S
THOUGH THE FORMER IS YOUR OBVIOUS TARGET.
TARGET DEPTHS ARE 25-30 M ACCORDING TO AL BAYS
MAX-MIN INTERPRETATION BUT HE WOULD HAVE
LIKED TO SEE SOME THRAMI OVER IT AS WELL.



42H03SW0012 63.4812 DARGAVEL

050

Part 5 of 5

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

MINERALS EXPLORATION DEPT.

D.D. Hole No. K-81-1

Property KINGSMILL

Percussion

Core Bit

PERTINENT HOLE DATA

Located on Claim No. ANOM. DARGAVEL #5 in Claim Group No. _____

Coord. of Collar L 1+50^E; 2+18^N Date Collared 15-10 1981

Strike 218° (GRID SOUTH) Date Stopped 18-10 1981

Inclination at Collar -50° Proposed Depth: 142m

Inclination at Bottom -49° Final Depth: 145.1m

Inclination at 71.9m -50° Depth Overburden: 71.9m

Inclination at _____ Core Recovery 100%

Core Size: AQ From 72.5 metres to 145.1 metres

X From _____ metres to _____ metres

X From _____ metres to _____ metres

Cementing Required at NIL & at _____ & at _____

Mineralization: From 79.35 to 86.63 Average Grade 3-5% Po/Py
90.80 105.25 (Locally 30-35% Po, TP, Py)

From 105.25 to 113.50 Average Grade 5-10% SULFIDES; MAINLY Po
2-3% Sph + TP, Py

From 120.75 to 131.75 Average Grade 5-8% Po + TP, Py/Py
137.35 138.85 10-15% Po + TP, Py/Py

Sample Nos. 201 -> 237 INCL. Sack # _____
(37)

Assays by: X-RAY Assayed For: Cu, Zn, Pb, Au, Ag + 30 ELEM.

REMARKS: CONDUCTOR EXPLAINED BY ~5% Po + 3% Sph IN BANDS
(LOCALLY TO 30% SULFIDES)

Property/Prospect KINGSMILL

Area: DARGAVEL #5

File: _____

D.D. Hole No. K-81-1

DIAMOND DRILL RECORD & LOG

LOCATION:

PROPERTY: Kingsmill

HOLE NO: K-81-1

LATITUDE: L1+50E DEPARTURE: 2+18N
 INCLIN: -50°
 AZIMUTH: 218° (Grid South)
 STARTED: 1981-10-15
 COMPLETED: 1981-10-18
 PURPOSE: To Test EM Conductor, Dargavel #5 Zone

LENGTH: 145.1 m
 CORE SIZE: AQ
 DIP TESTS: 1 @ 71.9 m -50°
 1 @ 145.1 m -49°

ELEVATION:
 DRILLED BY: Bradley Bros. Ltd.
 DRILLED FOR: Hudbay Mining Ltd.

CLAIM NO.
 SECTION:
 LOGGED BY: M.P. Corrigan
 DATE LOGGED: 1981-10-18

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T
0	72.50	Overburden - clay, sand and gravel, boulders.								
72.50	90.80	<u>Andesitic Flow</u> - dark green to black - massive, fine grained (grain size increases downhole) - predominantly olivene; SiO ₂ content increases downhole; highly chloritized - <2 cm quartz-carbonate stringers at various angles, predominantly 60-80° TCA; 10-15% carbonate, locally >30% - "bleached" banding @ 82.0 m - flow-top breccia @ 86.0 m (in-situ, carbonate induced) - euhedral olivene at lower contact - spinifexed flow tops common - 1-5% disseminated po & py and occasional stringer - lower contact gradational, zone of mixing of the two units	201	74.45	74.63	0.18	tr	tr	0.02	nil
			202	77.23	77.68	0.45	0.001	tr	0.02	nil
			203	79.35	80.63	1.28	nil	tr	0.02	nil
			204	80.63	82.13	1.50	nil	0.01	0.02	tr
			205	82.13	83.63	1.50	nil	nil	0.01	tr
			206	83.63	85.13	1.50	nil	tr	0.02	tr
			207	85.13	86.63	1.50	nil	tr	0.02	tr
90.80	97.70	<u>Volcaniclastic Metasediment (Tuff?)</u> - purplish-brown to medium green - fine grained, very inhomogeneous - banded at 70° TCA - 1 cm carbonate and cherty bands common - 94.95-95.45, fuschite zone	208	90.80	92.30	1.50	nil	0.01	0.02	tr
			209	92.30	93.80	1.50	nil	tr	0.03	tr
			210	93.80	94.95	1.15	tr	tr	0.02	tr
			211	94.95	95.45	0.50	nil	0.01	0.01	nil
			212	95.45	96.30	0.85	nil	nil	0.04	nil

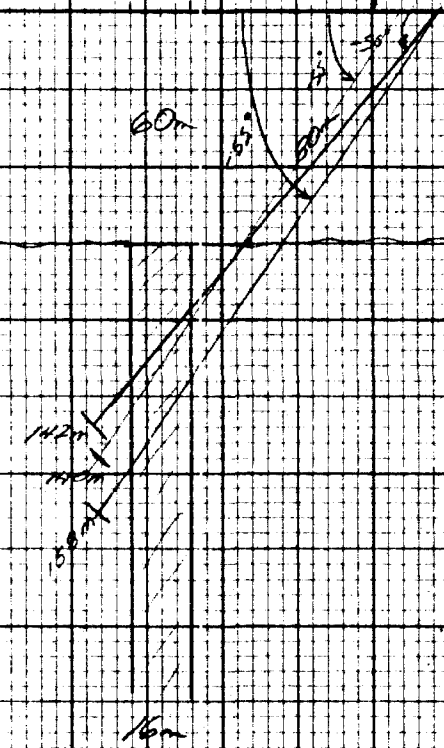
PROPERTY: Kingsmill

PAGE NO: 3 of 4

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T
110.80	113.50	<u>Lithic Arenite</u> - greenish grey to black - coarse grained arkosic - poorly banded @ 85° TCA - >30% sericitized; >50% carbonate in matrix and stringers - granule-sized feldspar dominates - 111.25-111.65 siliceous graphite zone - 10-25% sulfides, mainly po/py with lesser sph; occurs in bands and in matrix (po only)	237	110.8	111.20	0.40	0.002	nil	0.03	nil
			224	111.20	111.70	0.50	nil	tr	0.06	nil
			225	111.70	113.50	1.80	nil	0.05	0.30	nil
113.50	122.90	<u>Dacitic Tuff</u> - light to medium green - fine to medium grained - biotite foliation moderately well-developed @ 75° TCA - plagioclase phenocrysts common, locally - 10% carbonate stringers - lower portion of unit sericitized and saussuritized - weak light/dark banding developed - 5-10% po and minor py as fine disseminations and bands to 2 cm in width - lower contact sharp @ 70° TCA	226	113.50	114.50	1.00	0.002	0.01	0.02	nil
			227	120.75	121.75	1.00	tr	tr	0.02	nil
			228	121.75	122.90	1.15	nil	0.01	0.06	nil
122.90	132.5	<u>Mafic-Intermediate Volcanic (Flow?)</u> - dark green to black - fine grained, massive - predominantly olivene - 15-20% carbonate - very highly chloritized - initial 4.0 m of unit is silicified - granitic dyke (?) @ 130.6 m and 130.8 m; both contain tourmaline and carbonate - 3-5% finely disseminated po and trace py - lower contact gradational	229	122.90	124.90	1.50	0.001	nil	0.01	nil
			230	124.40	125.90	1.50	nil	nil	0.02	nil
			231	125.90	127.40	1.50	nil	nil	0.01	nil
			232	127.40	128.80	1.40	nil	nil	0.01	nil
			233	128.80	128.95	0.15	nil	-	-	nil
			234	128.95	130.45	1.50	nil	nil	0.02	nil
			235	130.45	131.75	1.30	0.002	nil	0.02	nil

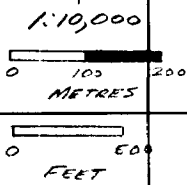
K-21-1

HL 1N 2N 3N 1750E

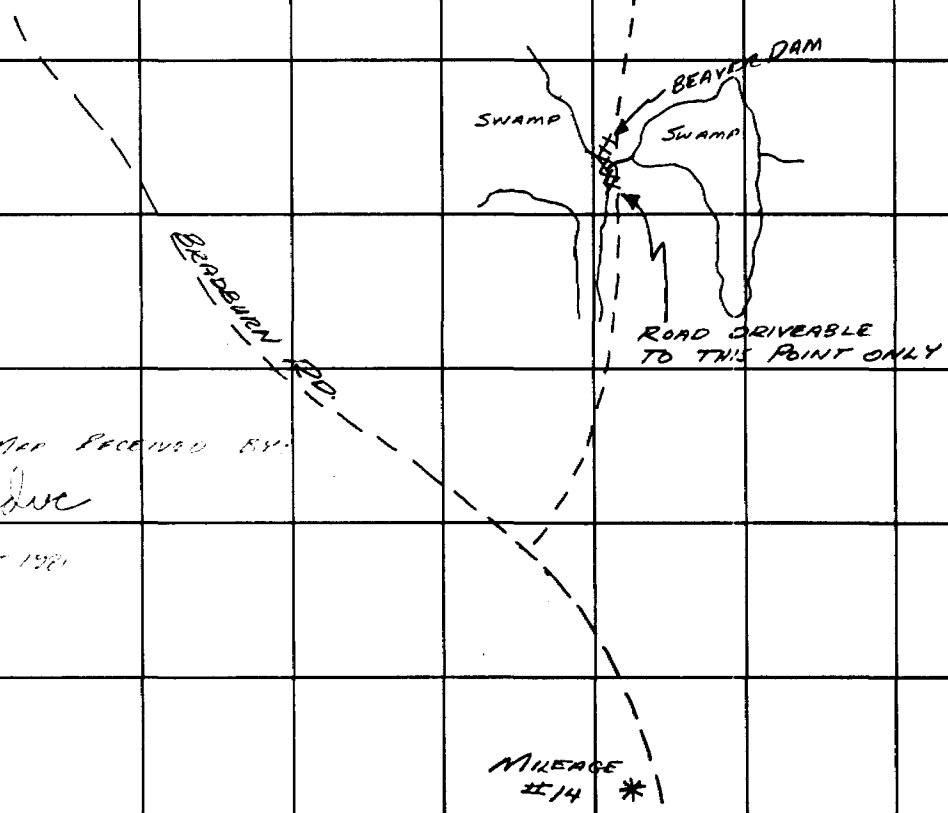
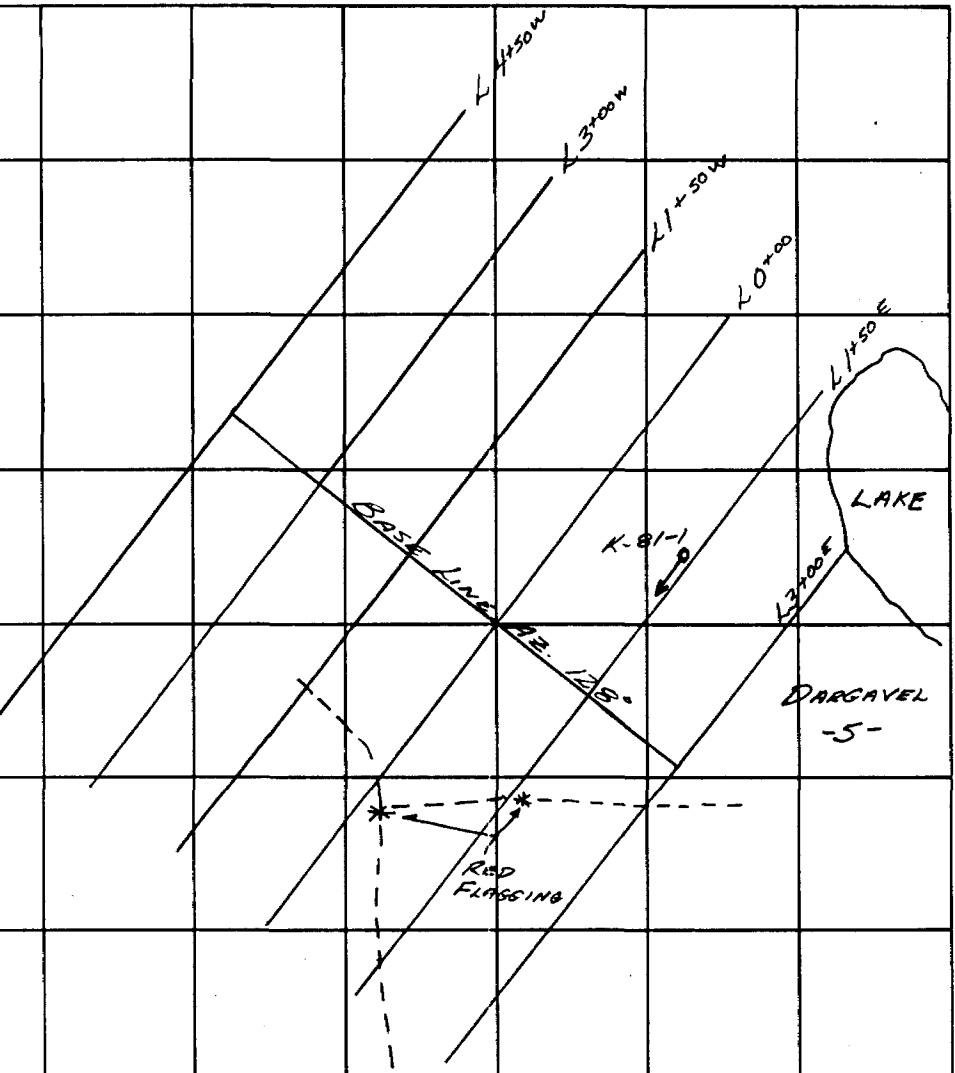


$\sigma = 22.9 \text{ mbars}$

DARGAVEL 5
1cm = 20m



DDH K-81-1
INCL. → -50°
AZ. → GRID SOUTH
DEPTH → 460'
EXPECTED OVERBURDEN
THICKNESS → 262'
COORDS. → L1150E, 2118N



COPY OF THIS MAP RECEIVED BY:
NAME: J. Pedve
DATE: 13-10-1981



K-81-1
↓

21480
T.35E

LIC # E 28775

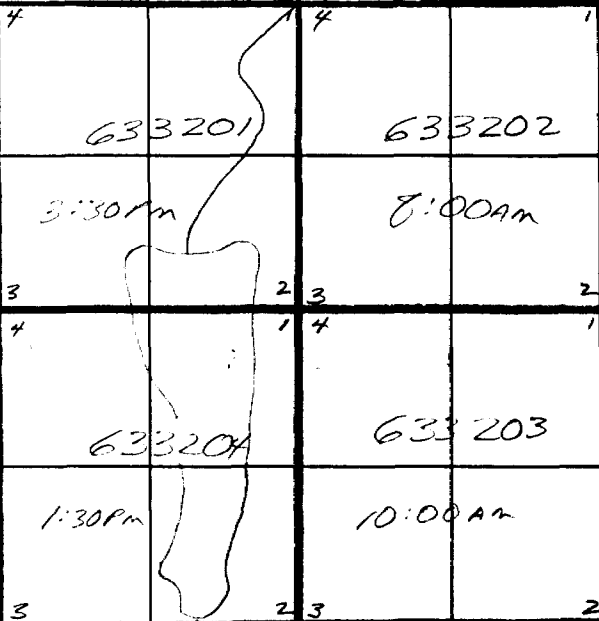
CON IV

LOT 12 S 1/2

NAME

DATE
TIME
LOT/CON/TWP

1cm = 100m



				DDH K-81-1 2 of 2	
					MINERALIZATION
105.25-110.8 (60m)	↓ IN DISTRICT'S UNITS			#219 * 105.25-105.60 = 0.35m	25-30% SULFIDES 5-8% sph 0.5% cpy 2-3% py 15-18% po MAINLY IN BANDS, PLUS DISS. MATRIX MATERIAL
110.8-113.5	* GRANITIC GNEISS			#220 * 108.60-106.75 = 1.15m	3-5% SULFIDES MAINLY PO/PY, MINOR SPH; ALL OCCUR IN BANDS, DO ALSO OCCUR IN MATRIX AS FINE DISS.
	- C.G. AMPHIBOLIC GRAINS - SPINEL GROWN TO BLK - FROZEN SULFIDES - >30% SERICITIZED - GRANULAR-SIZE FELDS - >50% CARB. IN MATRIX & SPINERS	GRANITE		#221 * 106.75-108.35 = 1.60m	20-25% SULFIDES 5-10% sph TR cpy 15-20% po OCCURS AS 5cm BANDS & DISS. PO IN MATRIX
113.5-122.9	* 111.25-111.65 GRANITIC - RT. → MIN. GRN. F-M. GR. - MOD. FELD. 150-175 - FELD. IN TAIL CONTACTS, LOCALLY - CARB. STAINING ~10% OF UNIT			#222 * 108.35-109.85 = 1.5m	3-5% SULFIDES 0.5-1.0% sph + 3% po OCCURS AS BANDS 1cm WIDE; PO IS DISS. IN MATRIX AS WELL (FINELY)
	- SPINEL 10-15% & SULFIDES 1-2% - PORTLAND IN LWR. SECTION OF UNIT - LWR. CONTACT - SWAMP - WERE CONTACT DEVELOPED			#223 * 109.85-110.80 = 0.95m	<1% SP + MINOR PY; OCCURS AS VEINLETS
122.9-132.5	5% MAFIC-INT. VOLS			#224 * 110.80-111.20 = 0.40m #224 * 111.20-111.70 = 0.50m	10-15% PO, <1% SPH GRAPHITIC ZONE 20-25% PO, FINELY DISS.
	- FELD. 10-15% - GRN. 10-15% - AMPHIB. F.C.K. - PHENOM. QUINCE - 15-20% CARB.			#225 * 111.70-113.50 = 1.8m	10-15% SULFIDES 3-5% sph - OCCURS AS SINUOUS VEINLETS 0.5% cpy 8-10% po
	- SERICITIZED - MINOR SECTION FELD. STAIN OF UNIT WITH ~1270A - LWR. CONTACT GRAY.			#226 * 113.50-114.50 = 1.0m	No APPARENT MINERALIZATION
132.5-145.1	GRANITIC DIBBLE w/ TOURMALINE CARB. ANALYTIC FLOW			#227 * 120.75-121.75 = 1.0m	5-10% po OCCURS AS FINE DISS. AND BANDS UP TO 2cm WIDE - TR PY
	- AS BEFORE (125 → 90.8) - QUINCE, DOMINANTLY - QZ CARB. VEINLETS - SEVERAL FLOWS THROUGH CONTACT ZONE BY F-C STAIN - F.M. GRN. SIDE QUINCE - SPINEL (?) IN LOWER 3m OF UNIT; THIS ZONE CONTACTS OF B-T CONTACT			#228 * 121.75-122.90 = 1.15m	10-15% po + MINOR PY OCCURS AS FINE DISS. & BANDS TO 0.5cm - PY SMEARED ALONG FRACT. SURFACES
	MAFIC GNEISS BEDS & AND FLOWS - CARB. VOLS. NO CARB. IN 5cm. - 1cm QZ - CARB. VEINLETS - FELD. TO FLOW - CHLORITIZED			#229 * 122.90-124.40 = 1.50m #230 * 124.40-125.90 = 1.50m #231 * 125.90-127.40 = 1.50m	3-5% FINELY DISS PO + TR PY " " " " " " " "
				#232 * 127.40-128.80 = 1.40m #233 * 128.80-128.95 = 0.15m	" " " " 0-2 VEIN MINOR PO/PY
				#234 * 128.95-130.45 = 1.5m	3-5% FINELY DISS. PO
				#235 * 130.45-131.75 = 1.3m	" " " "
				#236 * 131.75-138.85 = 1.5m	10-15% V.F. GR po + MINOR PY & CPY (SPH?)
					NOTE: ALL SPH IS BROWN IN COLOR
					NOTE: NO ANOMALOUS RESULTS WERE OBTAINED WITH THE SCINTILLATION OR UV LIGHTS
					THIS SAMPLE IS A PORTION OF THE FLOW/GNEISSIC UNIT

E.M. ANOMALY DATA SHEET

Anomaly No: DARGAVEL 5
Conductor No: _____
Block: 04
Project: KINGSMILL 2110

V.L.F. or

V.L. E.M. DATA Gear: _____ ha _____ 1-km _____

Brdsd. Stdrd. Complete Incomplete Length: _____

Strike: _____ Details: _____

H.L. E.M. DATA Gear: MAXMIN II (EXSIC) ha _____ 1-km 6

Complete Incomplete No. Lines: 6

LINE	<u>4+50W</u>	<u>3+00W</u>	<u>1+50W</u>	<u>0+00</u>	<u>1+50E</u>	<u>3+00E</u>		
RATIO								
WIDTH								

Details: L 0+00 NOT SURVEYED DUE TO FLOORING

MAGNETIC DATA Gear: MP-2 ha _____ 1-km 6

Complete Incomplete No. Lines: 6

LINE	<u>4+50W</u>	<u>3+00W</u>	<u>1+50W</u>	<u>0+00</u>	<u>1+50E</u>	<u>3+00E</u>		
GAMMA								
SHAPE								

Details: _____

TRENCH DATA Total metres _____ No. Samples _____

Complete Incomplete No. Trenches _____

Graphite Non-Econ. Sulphides Econ. Sulphides Other: _____
 Bedrock Bedrock Bedrock Bedrock
 Float Float Float Float

Details: OB TOO DEEP

GEOCHEMICAL DATA ha _____ 1-km _____

Complete Incomplete No. Samples: _____

Sample Type: Soil Veg. Other _____

Assayed for: _____

Method: _____

Anomalous: Yes Weak No

Details: _____

LINE CUTTING ha _____ 1-km _____

GEOLOGY

OTHER METHODS ha _____ 1-km _____

RECOMMENDATIONS

Conductor No. _____
Anomaly No: DARGAVEL 5

DATE 1981-07-31 BY MPC

DARGAVEL #5

INPUT INTERP

CHANNEL	Amp. (mm)	20410W	20420E	20430W	20390W	20400E			
1	24	720	32	960	28	840	104	26	780
2	10	300	17	510	10.5	315	21	12.5	375
3	4	120	7	210	4	120	5	4.5	135
4	1	30	4	120	1	30	-	2	60
5	-	-	2	60	-	-	-	1	30
6	-	-	1	30	-	-	-	0.5?	15

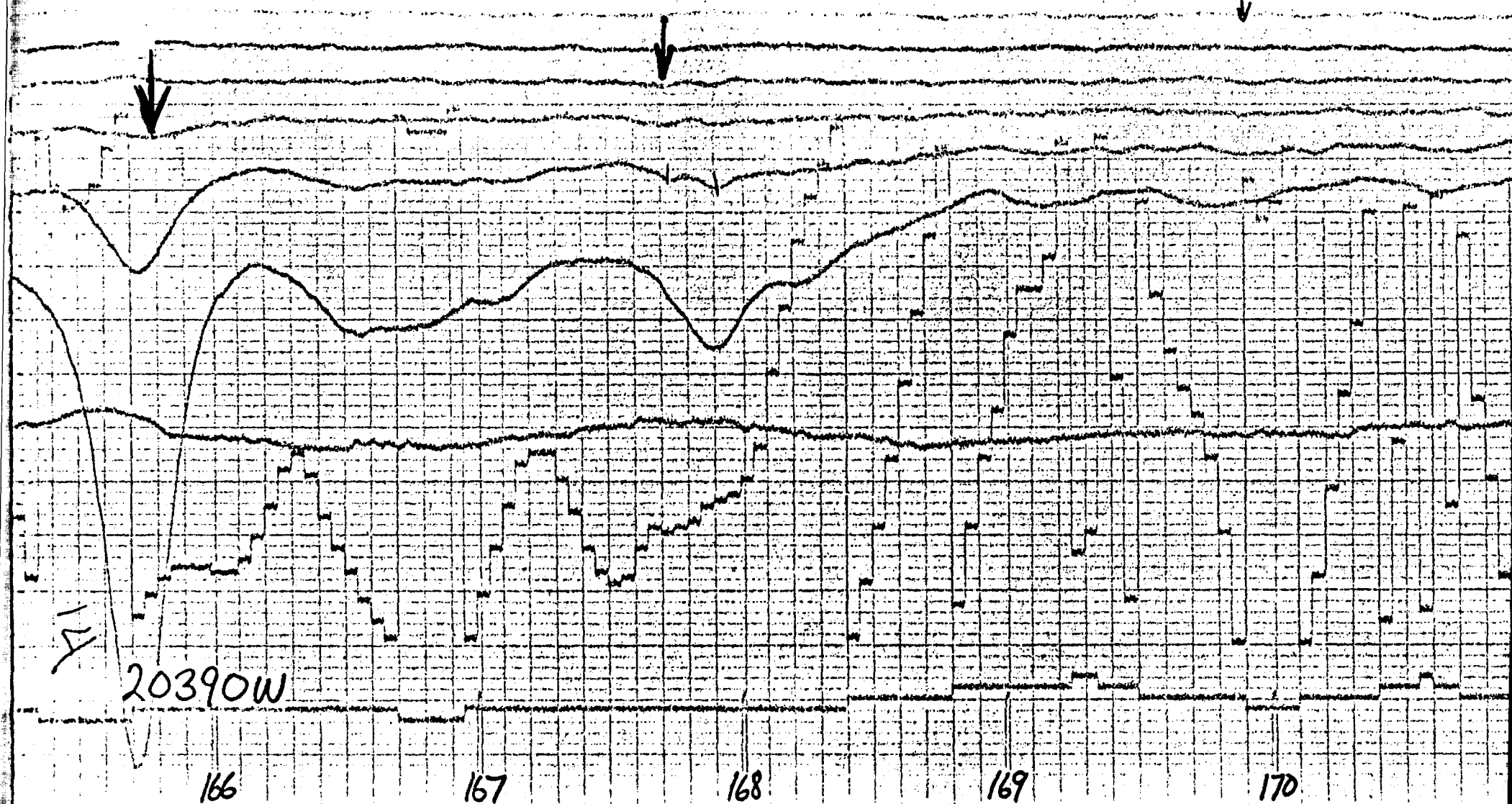
DEPTH 110' 33.5 ~81m 140' 42.7 ~86m 70' 21.5 ~66m ~140' 42.7 ~86m

AVG = 39.6m mm method
 AVG = 79.75m ppm method
 K-81-1 = 55m (Vert.)

WORKSHEET

DATE _____
 FILE NO. _____
 BY _____ CHK.D _____
 SHEET NO. _____ OF _____

DARGAVEL 5



1/4

20390W

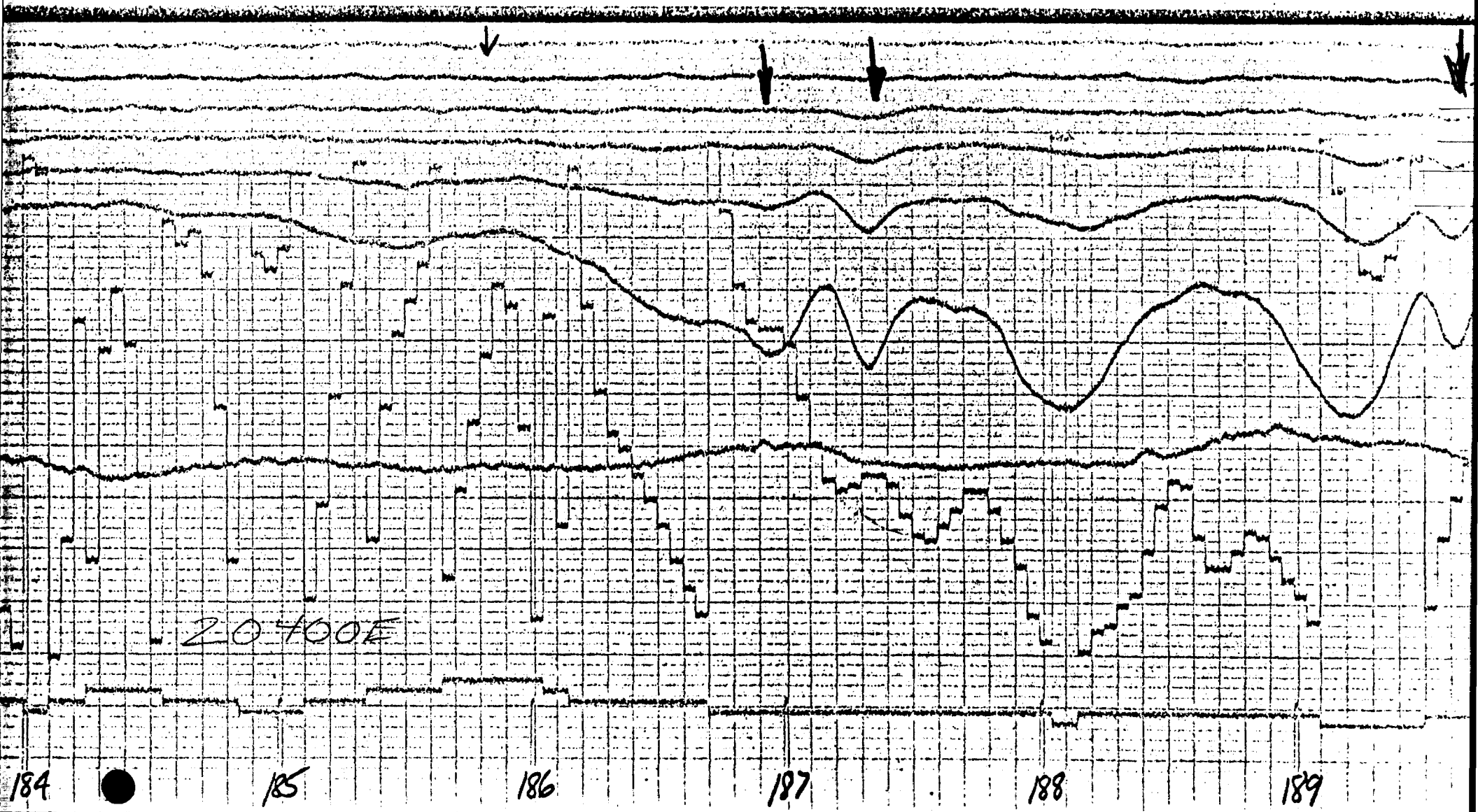
166

167

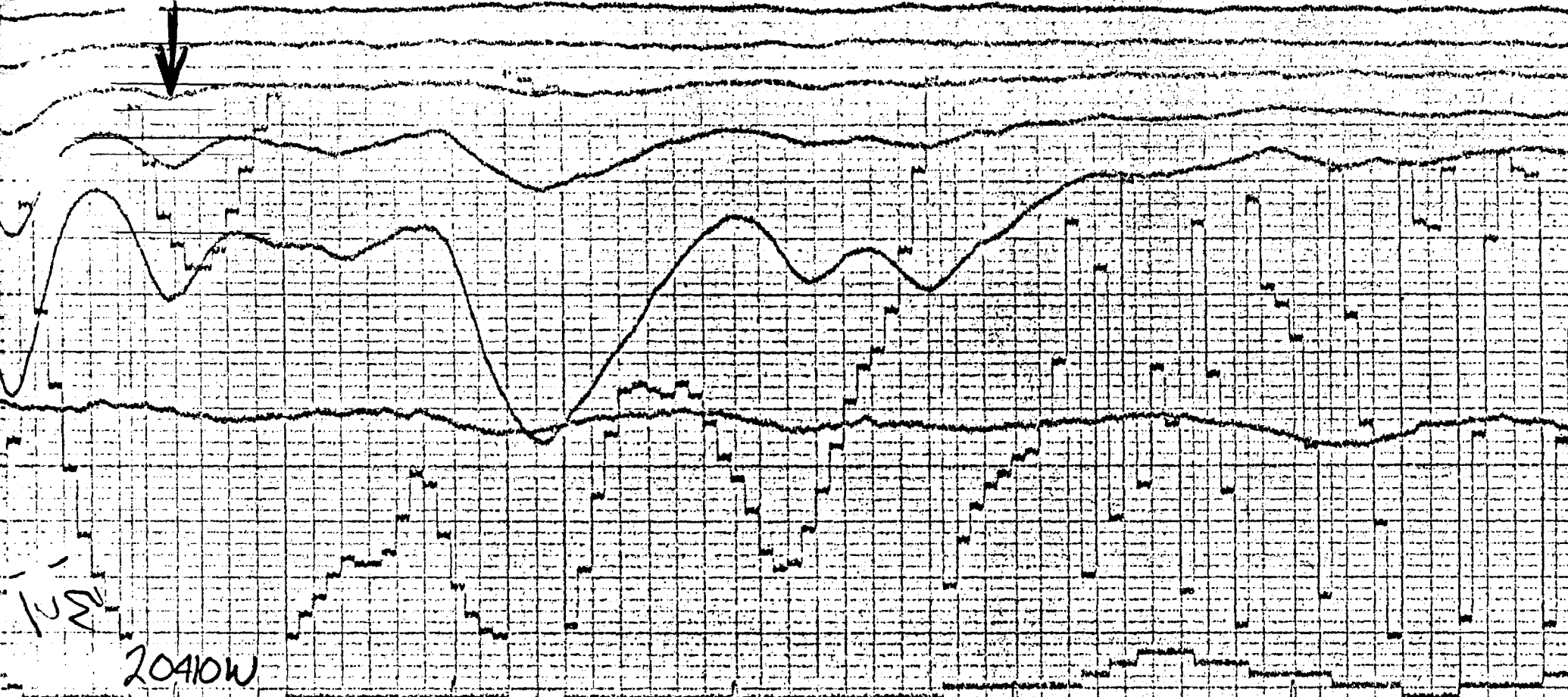
168

169

170



DARGA VOL 5



152

20410W

140

141

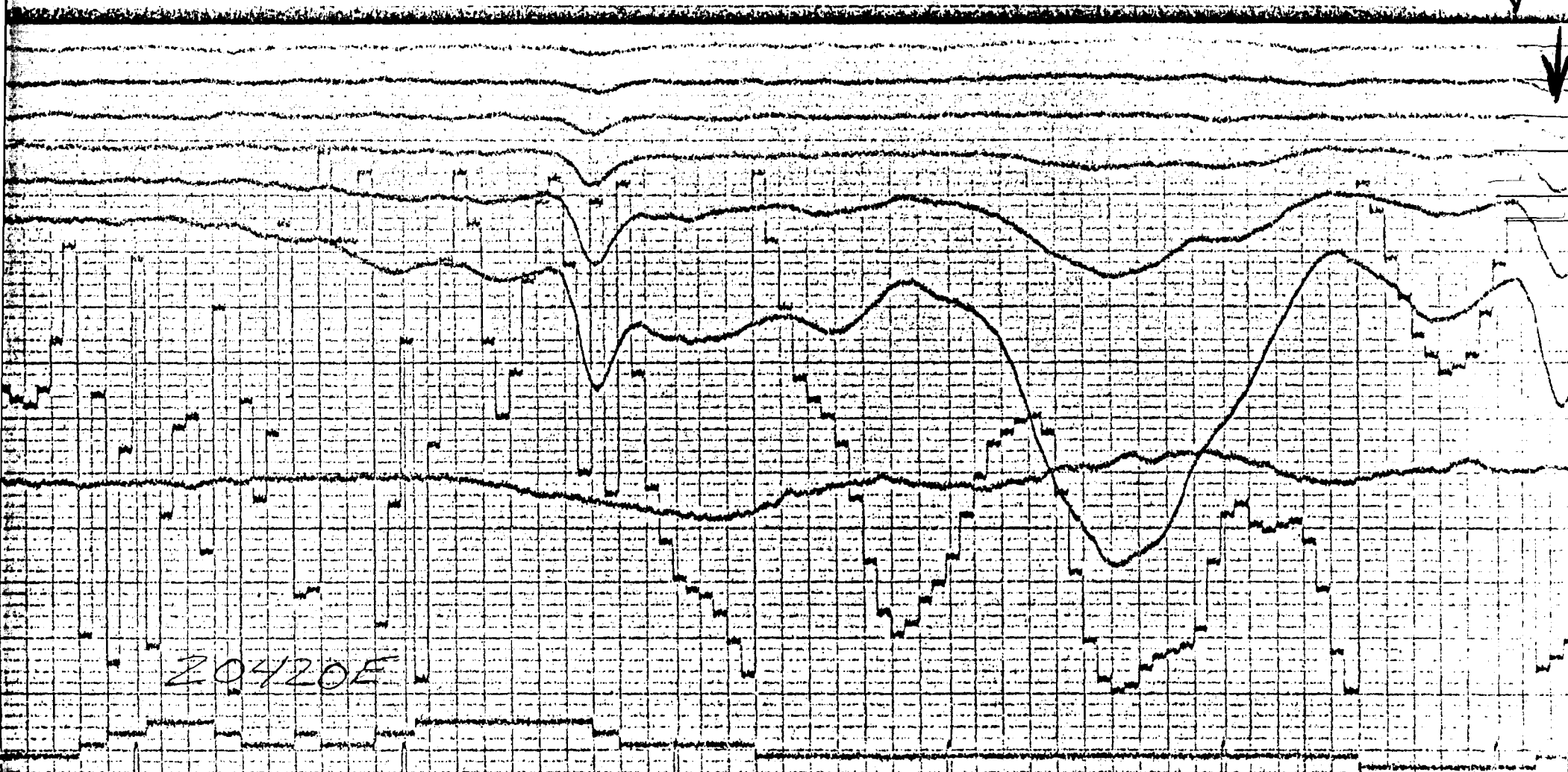
142

143

144

145

DARGAVEY
5



Z0420E

160

161

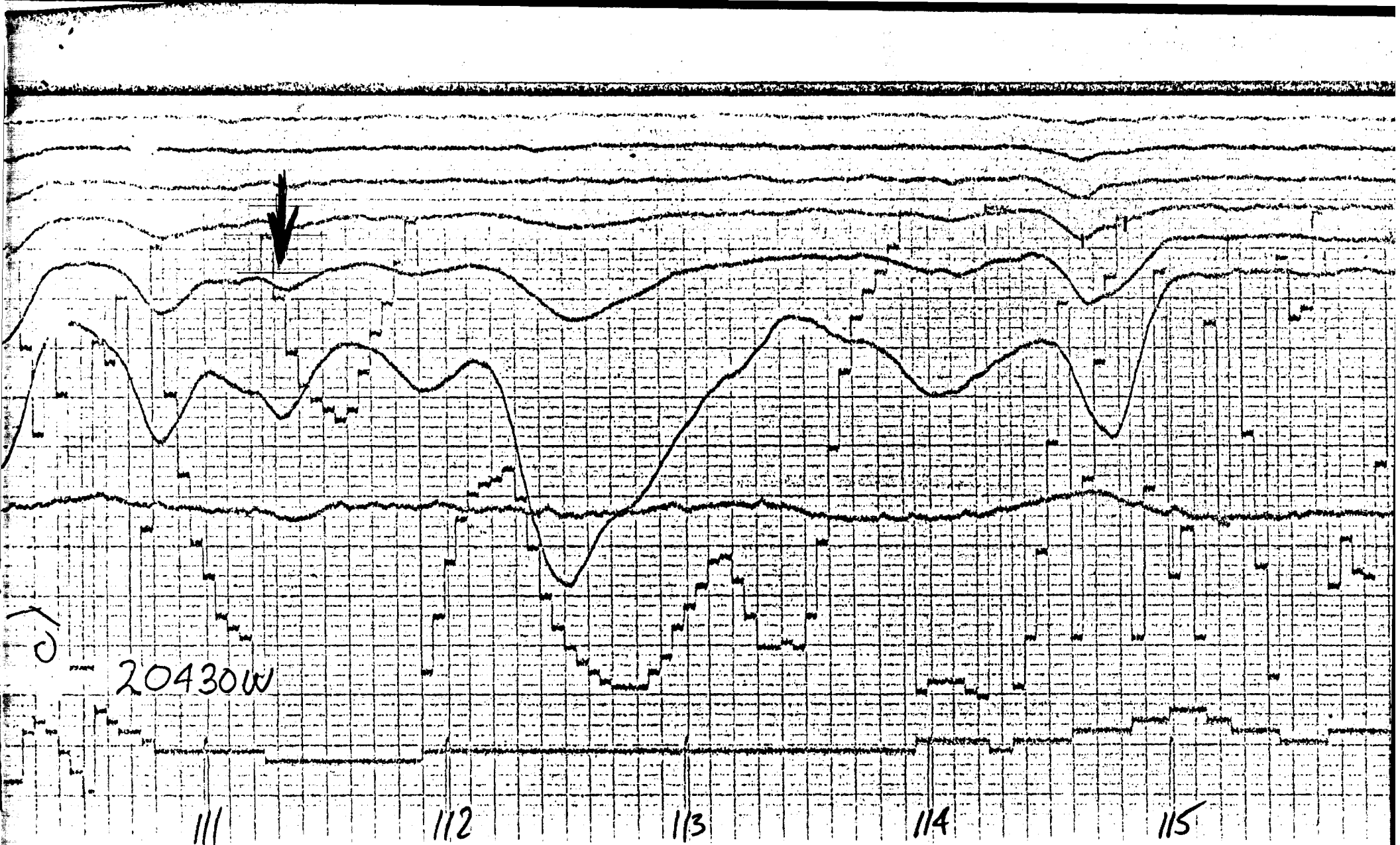
162

163

164

165

END OF
FLIGHT
LINE



DARGAVEL-1



BLAZE. 140°
ZC AZ. 050°

DARGAVEL (S)

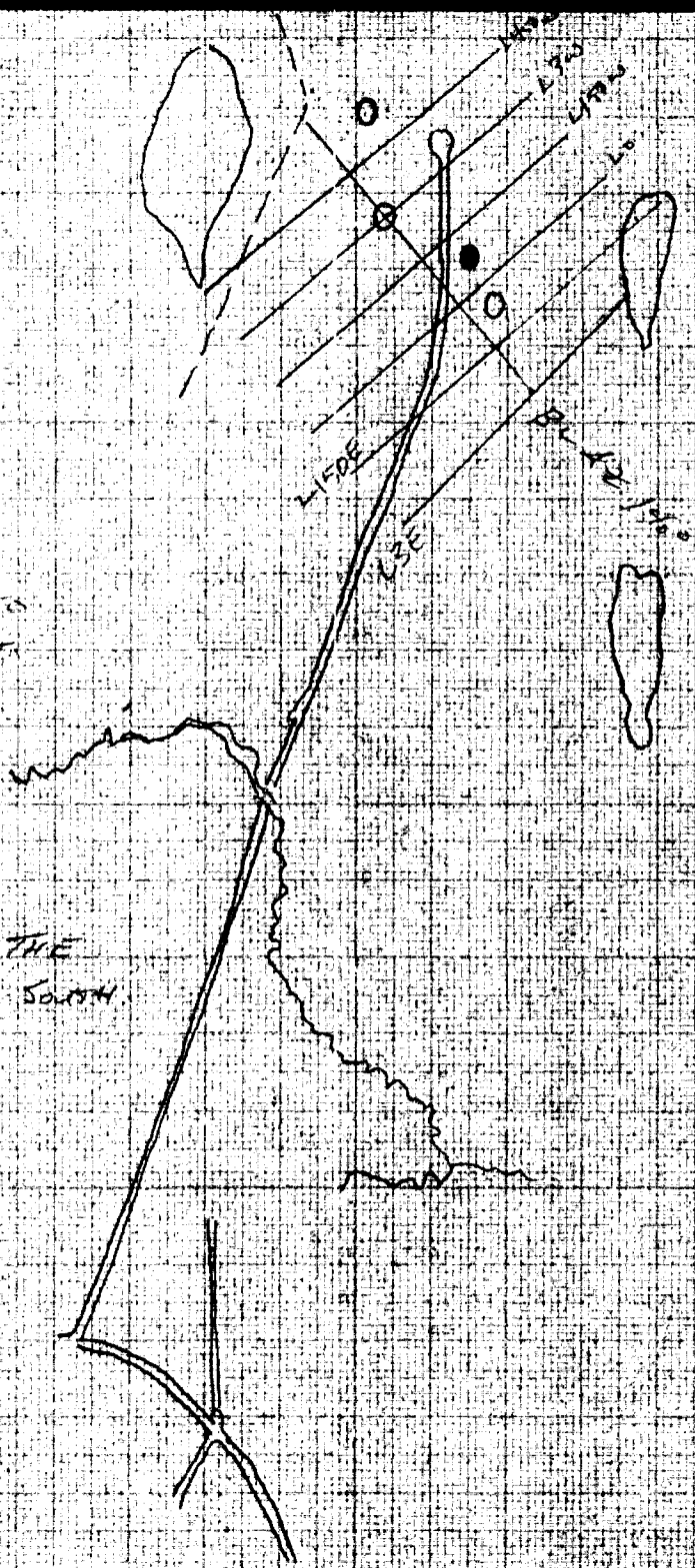
NOTE:

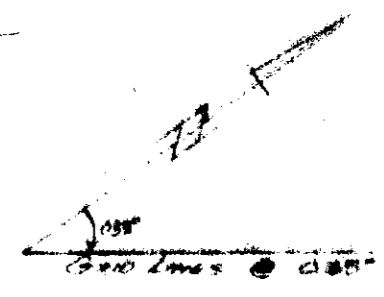
L3E STARTS AT JK
@ 350 MW, EXTENDS TO
600 MW AND DOES NOT
REACH THE RD.

L150ME MISSES THE JK
TO THE NORTH.

L450 MW DOES NOT HIT THE
JK. IT MISSES TO THE SOUTH.

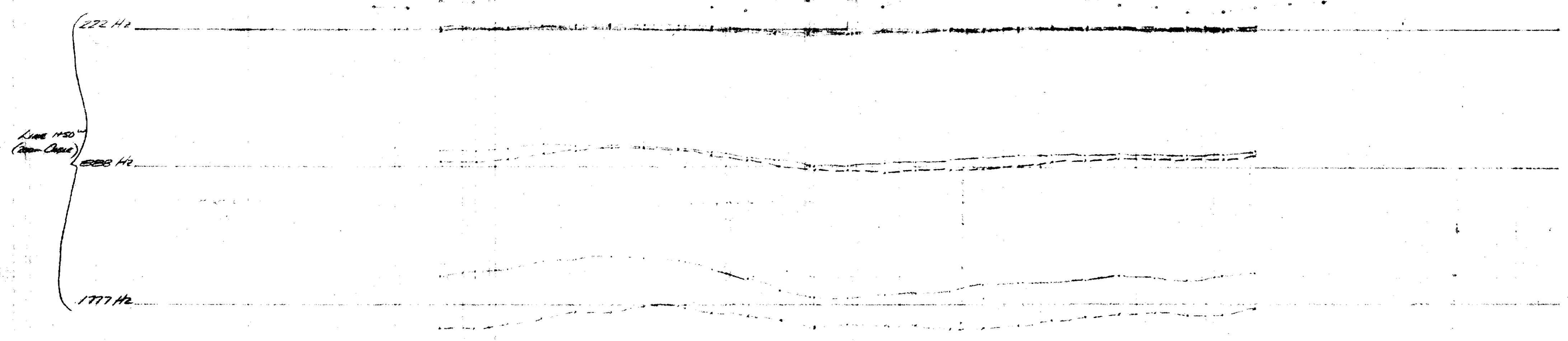
L0.700 NOT REACHING
TO FLOODING



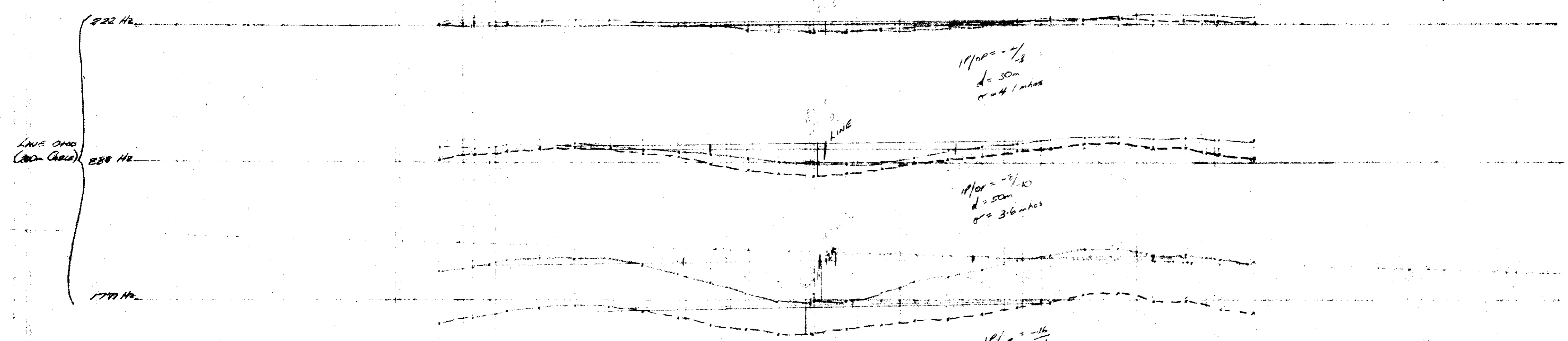


7000' 4000' 3000' 2000' 1000' 0' 1000' 2000' 3000' 4000' 5000'

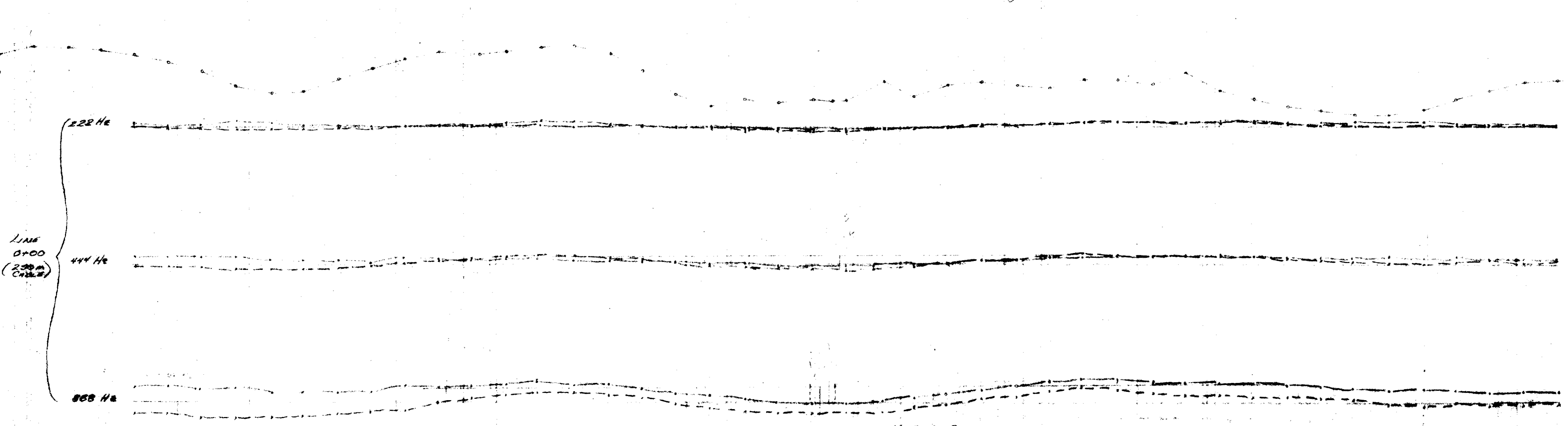
59500 ft
59400 ft
59300 ft



LINE	STATION	ELEVATION
1500	0+00	59400
1500	0+50	59400
1500	1+00	59400
1500	1+50	59400
1500	2+00	59400
1500	2+50	59400
1500	3+00	59400
1500	3+50	59400
1500	4+00	59400
1500	4+50	59400
1500	5+00	59400
1500	5+50	59400
1500	6+00	59400
1500	6+50	59400
1500	7+00	59400
1500	7+50	59400
1500	8+00	59400
1500	8+50	59400
1500	9+00	59400
1500	9+50	59400
1500	10+00	59400



LINE	STATION	ELEVATION
0900	0+00	59400
0900	0+50	59400
0900	1+00	59400
0900	1+50	59400
0900	2+00	59400
0900	2+50	59400
0900	3+00	59400
0900	3+50	59400
0900	4+00	59400
0900	4+50	59400
0900	5+00	59400
0900	5+50	59400
0900	6+00	59400
0900	6+50	59400
0900	7+00	59400
0900	7+50	59400
0900	8+00	59400
0900	8+50	59400
0900	9+00	59400
0900	9+50	59400
0900	10+00	59400

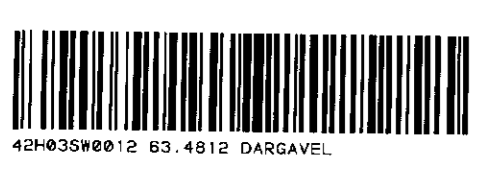


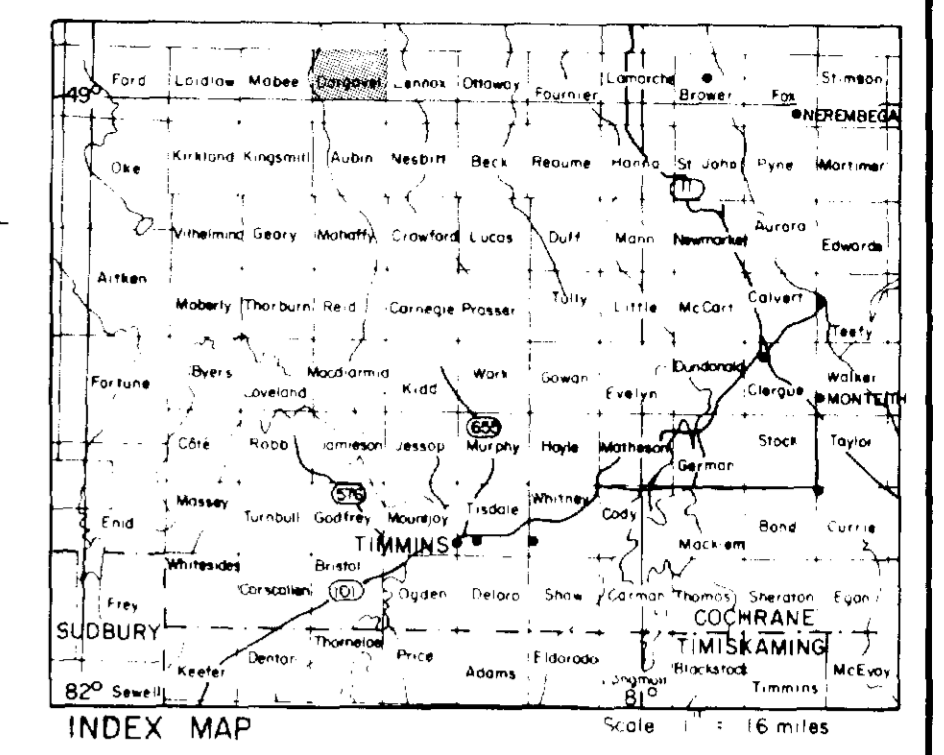
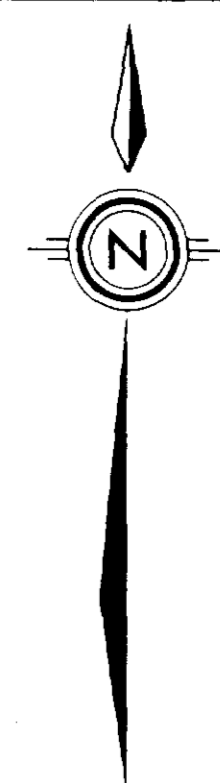
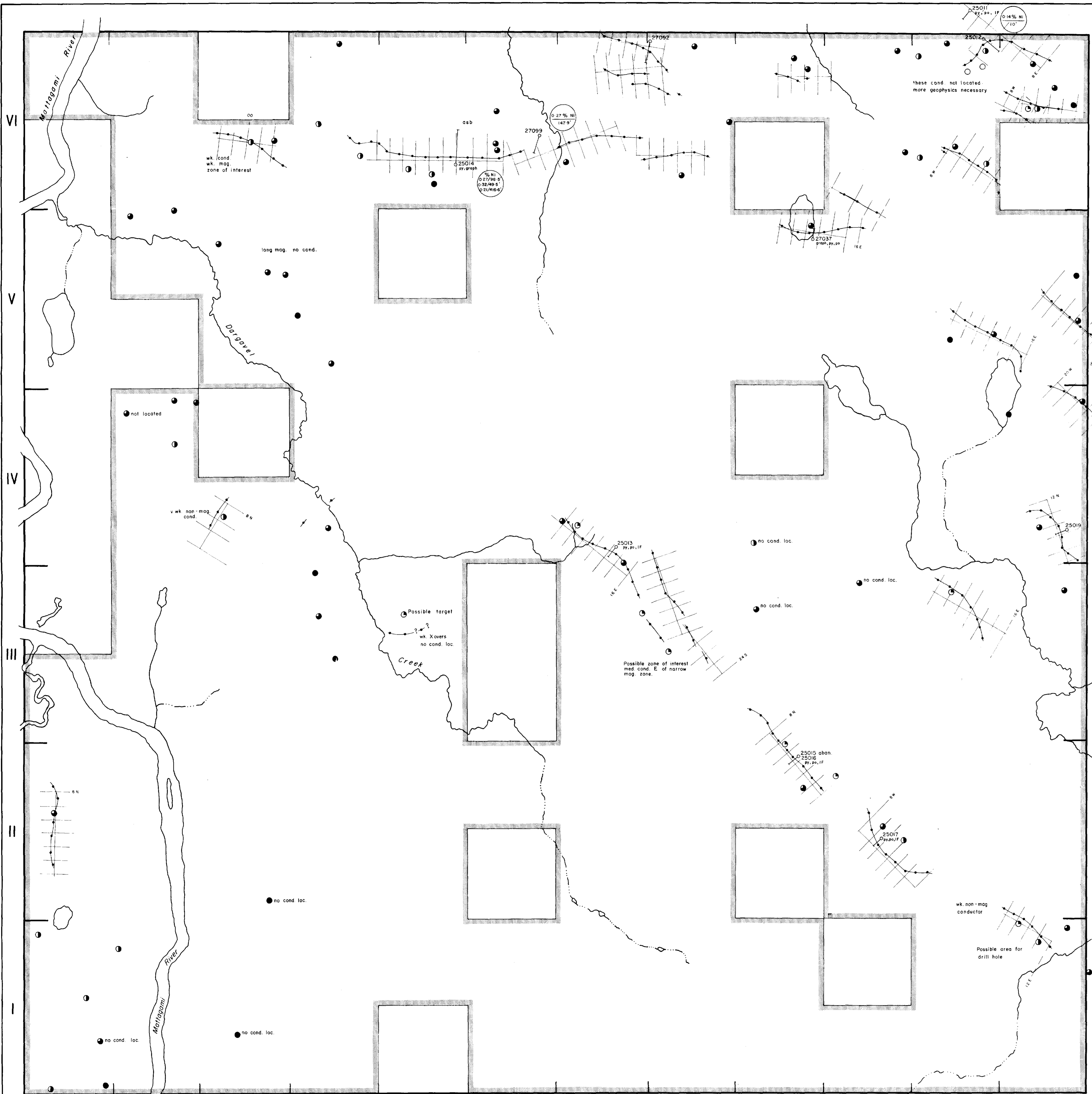
59200 ft
59150 ft
59100 ft
59050 ft
59000 ft

KANSAS STATE PROJECT
DARGAVEL #1
ARIZONA III HL SURVEY
 PROGRAMS: HL SURVEY
 SCALE: VERT. 1CM = 10' HORIZ.
 DATE: 1981-04-18
 ORIGINATOR: TX L.S. R.D.
 BY: E.M.
 CHECK LENGTH: HL SURVEY

CENTRE MAG
SCALE: HORIZ. 1CM = 500'

63.4812
(1)





VI
V
IV
III
II
I

12 11 10 9 8 7 6 5 4 3 2 1

NW part of Aubin - zone of interest high mag. ?



ABITIBI - PRICE INC.
MINERAL RESOURCES DIVISION
ONTARIO
GEOLOGICAL COMPILATION
DARGAVEL TOWNSHIP

42-113

Date: By: Dwg:



63.4812
(1)

BRADBURN

MABEE

LENNOX

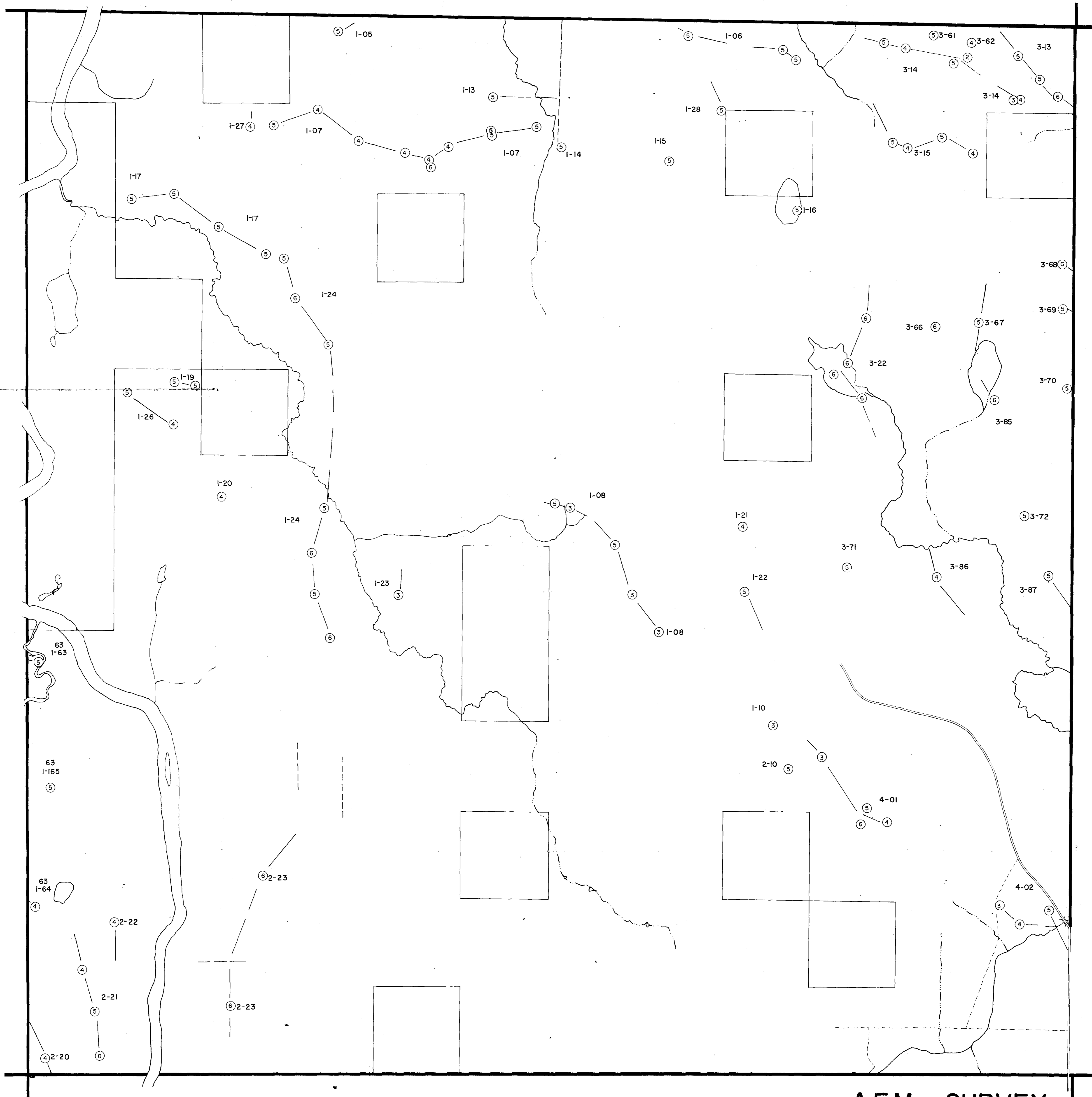
AUBIN

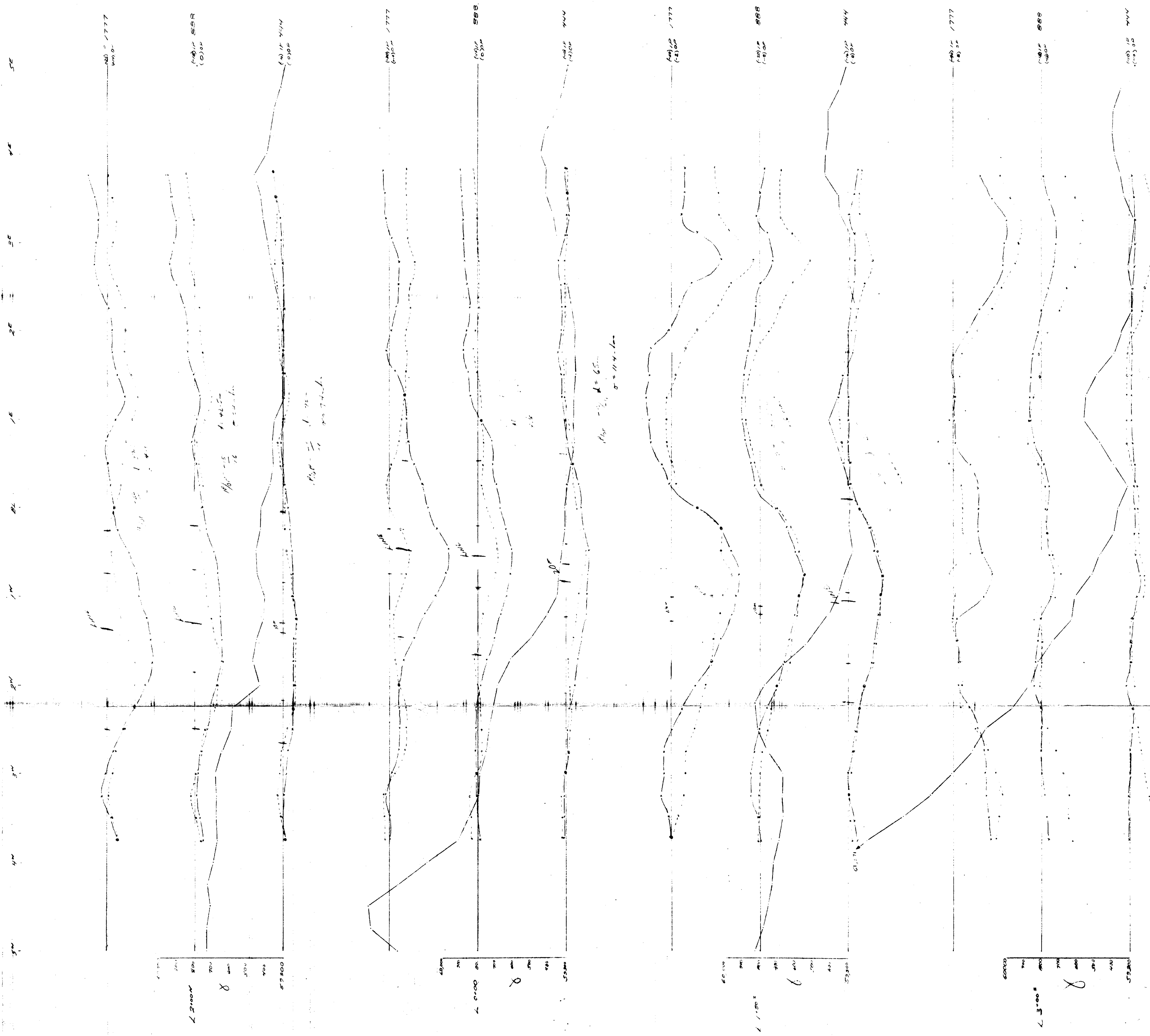
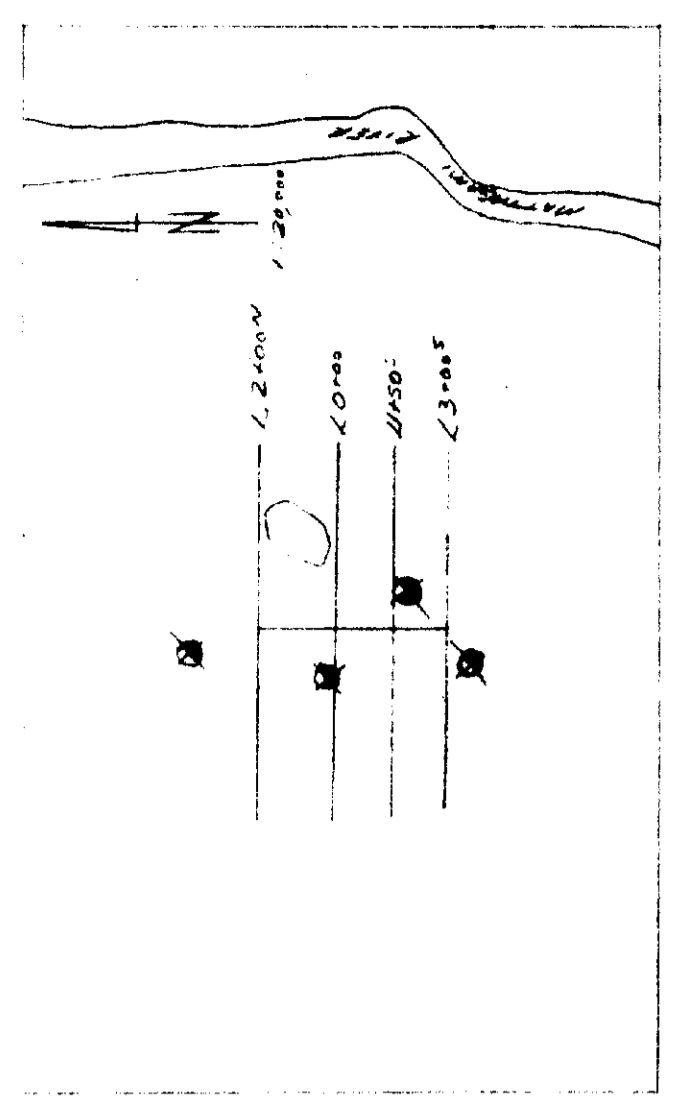
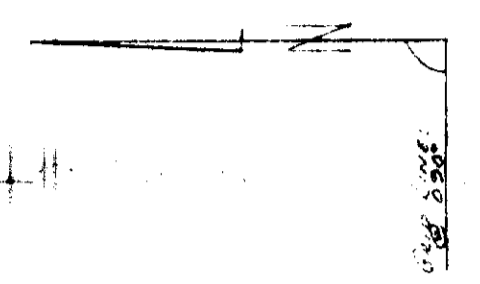
A.E.M. SURVEY
DARGAVEL TWP.
SCALE: 1 INCH = 1/4 MILE

63-482
(1)

LEGEND

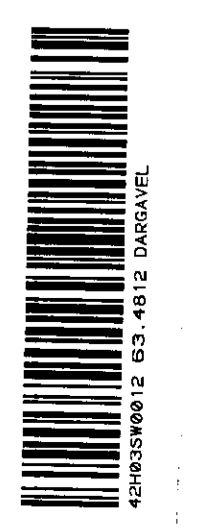
- ① A.E.M. RESPONSE - TOP PRIORITY.
- ② A.E.M. RESPONSE - LOWEST PRIORITY.
- CONDUCTIVE ZONE
- 4-233 ANOMALY NUMBER





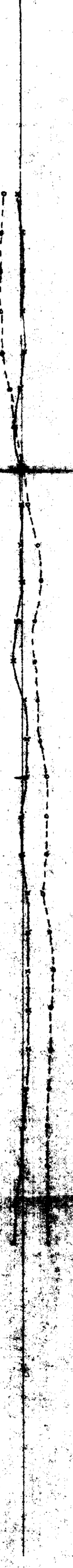
KINGSVILLE PROJECT MAYOR PLANNING LTD.	
DATE: 2 A (2000)	PROJECT: MAYOR PLANNING LTD.
SHEET: 1 OF 2	
SCALE: 1:1000	
DRAWN: [Name]	
CHECKED: [Name]	

63.4812
(2)



1000' 500' 0' 500' 1000'

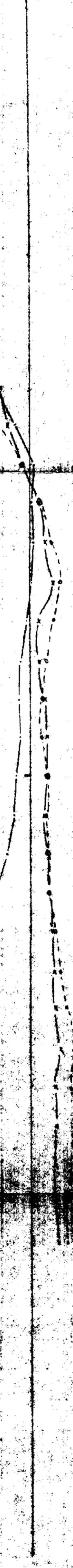
1444
SP - 11%
OP - 3%



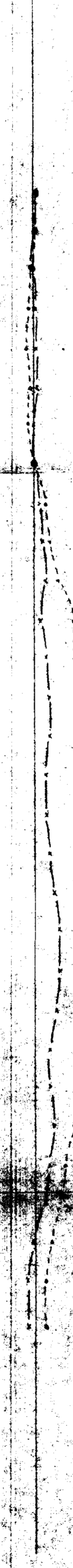
1777
SP - 10%
OP - 10%



1444
SP - 10%
OP - 12%



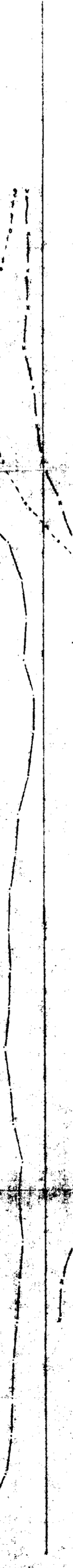
1777
SP - 10%
OP - 10%



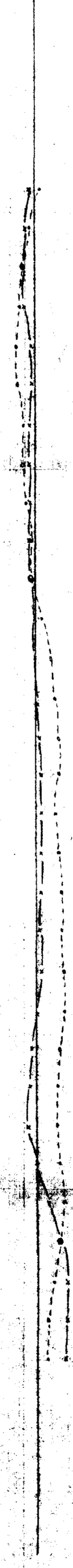
1444
SP - 10%
OP - 10%



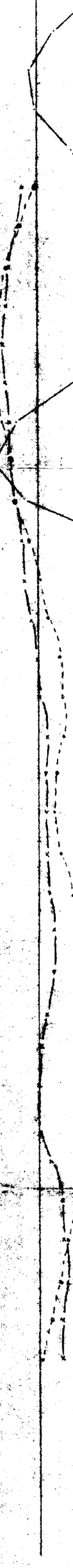
1777
SP - 10%
OP - 10%



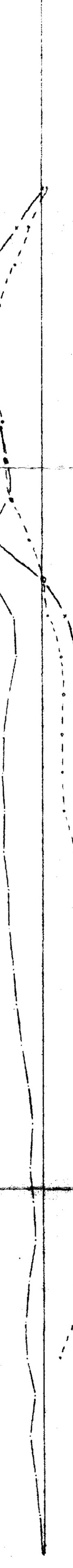
1444
SP - 10%
OP - 10%



1777
SP - 10%
OP - 10%



1444
SP - 10%
OP - 10%



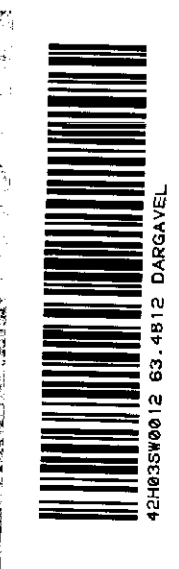
KINGSMILL PROJECT
 1000' 500' 0' 500' 1000'

PROFESSOR
 ALAN M. STANLEY
 1000' 500' 0' 500' 1000'

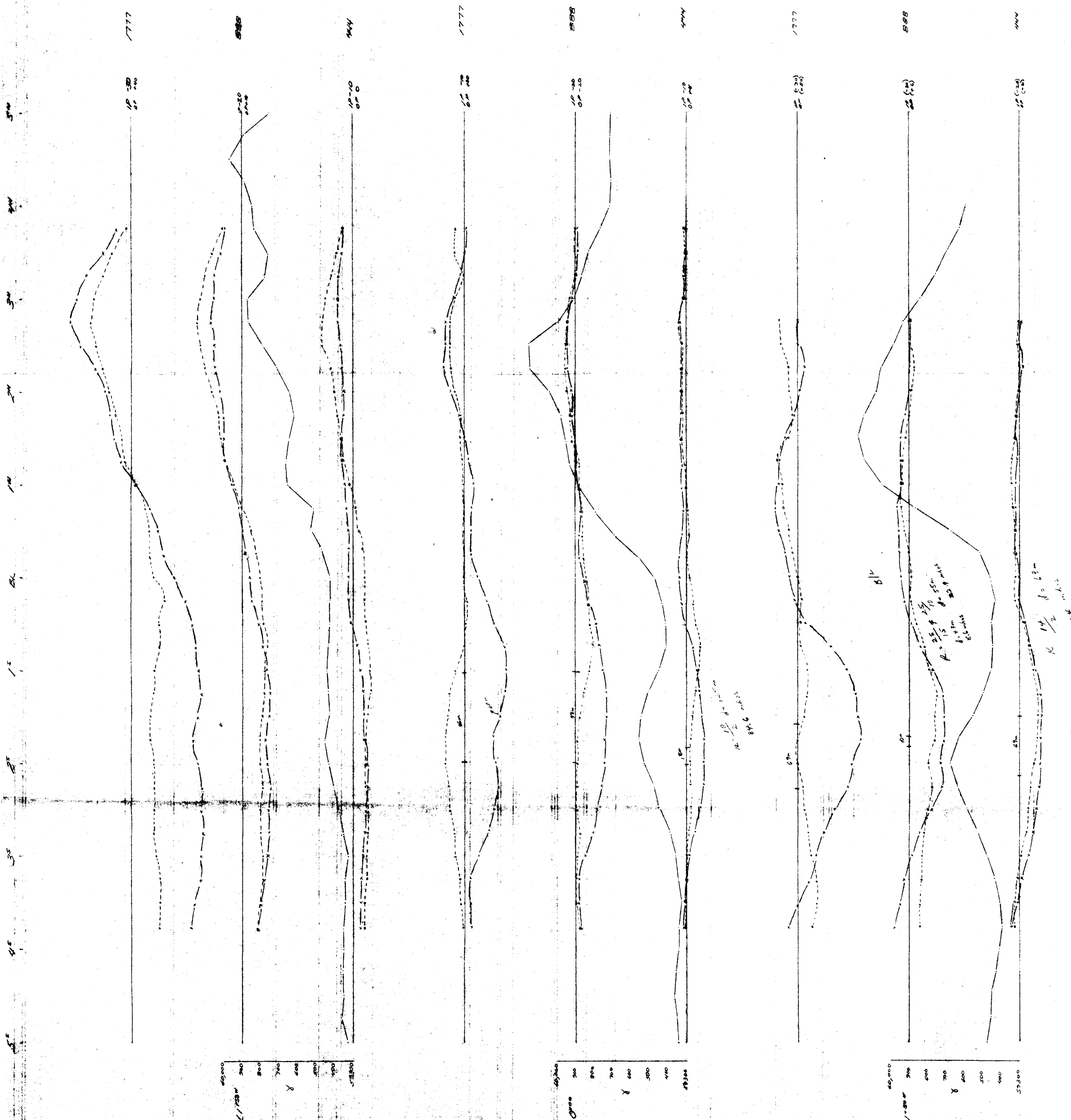
DATE 10/1/53
SCALE 1" = 100'

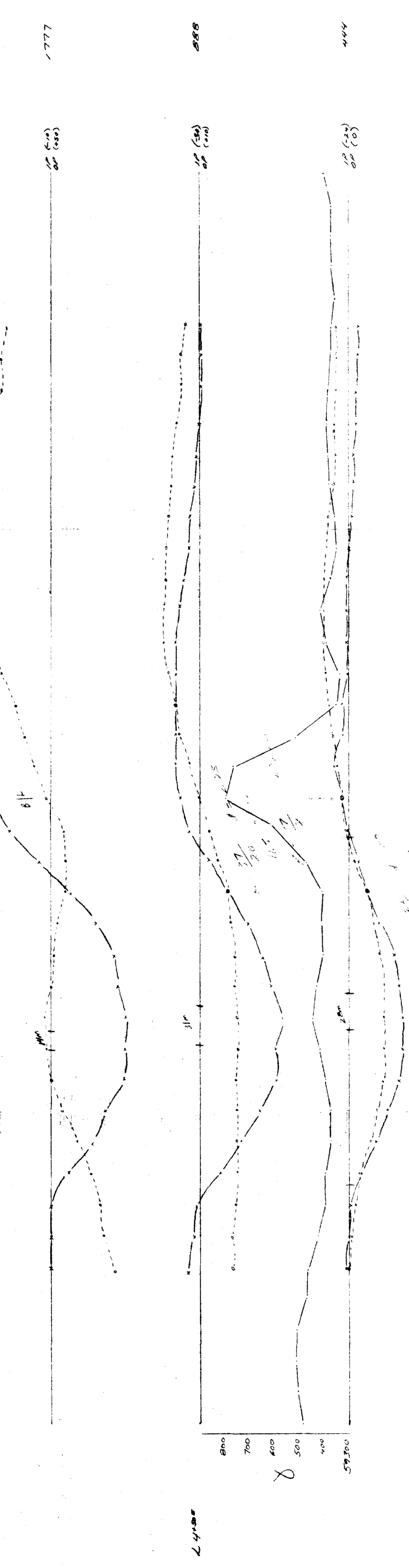
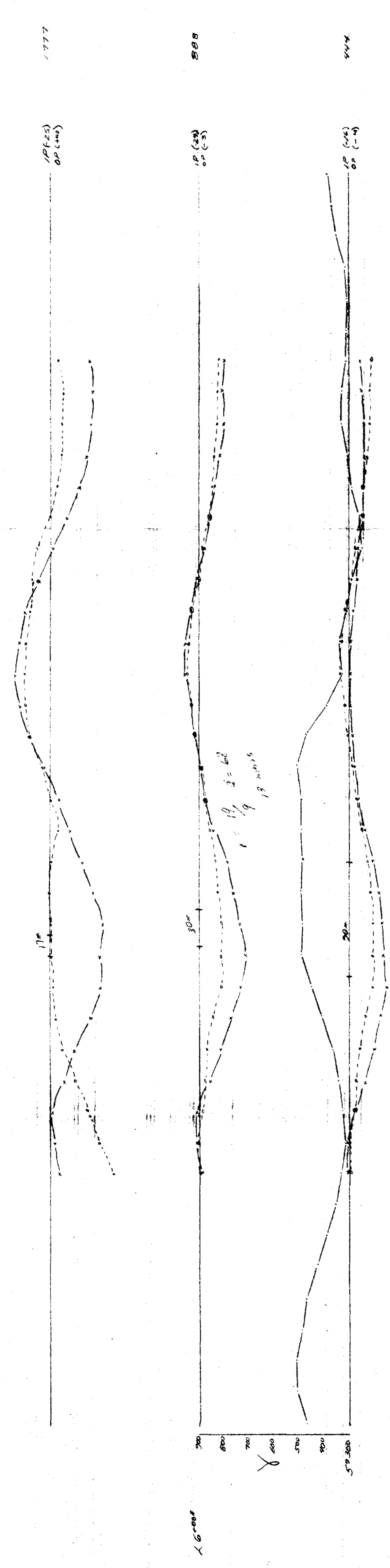
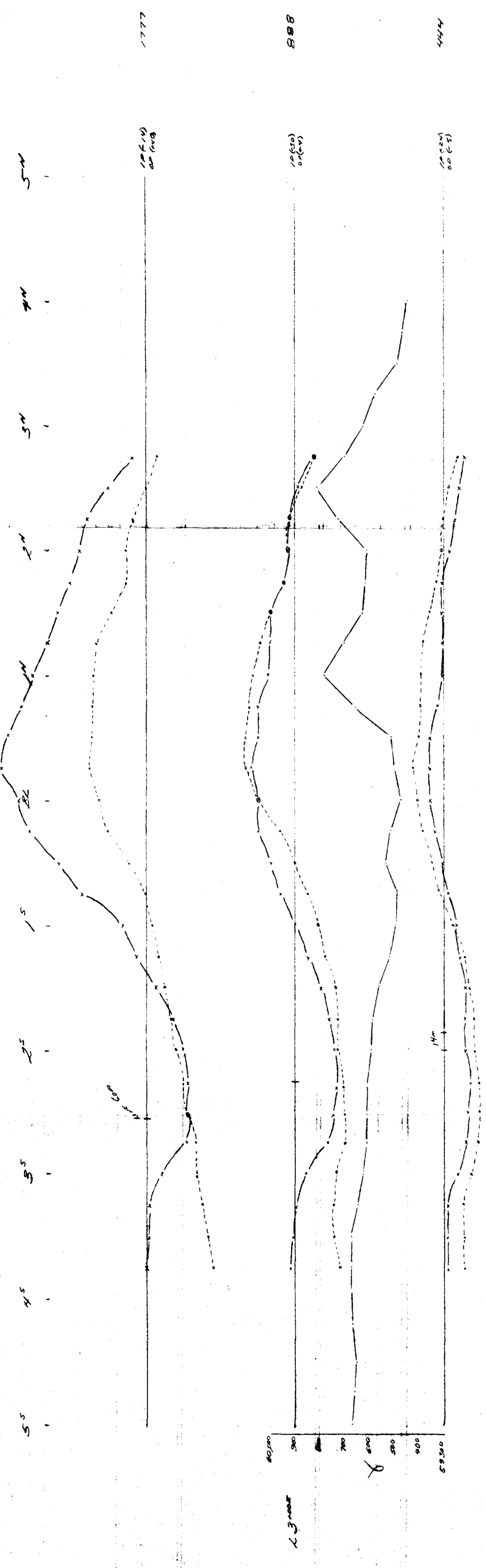
NO. 1000
 1000' 500' 0' 500' 1000'

SHEET 1000



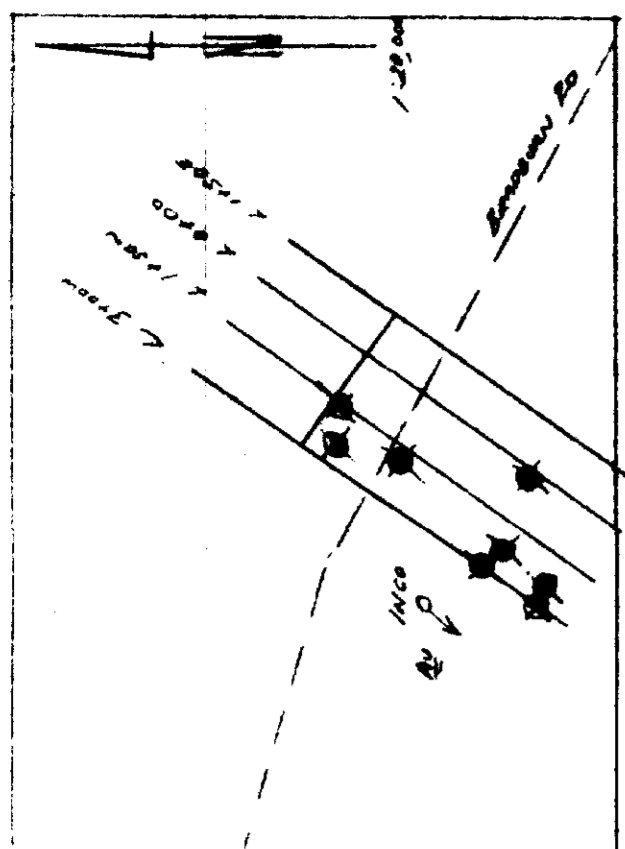
KINGSMILL PROJECT
 Kingsmill, Maine, Ltd.
 Dams & Power
 Main Dam: at Kingsmill
 Spill Way: 100' x 100' x 100'
 Max. Len. 100'
 Date: 1981-07
 250' Cable
 Main Dam: Kingsmill
 Spill Way: Kingsmill
 Date: 1981-07





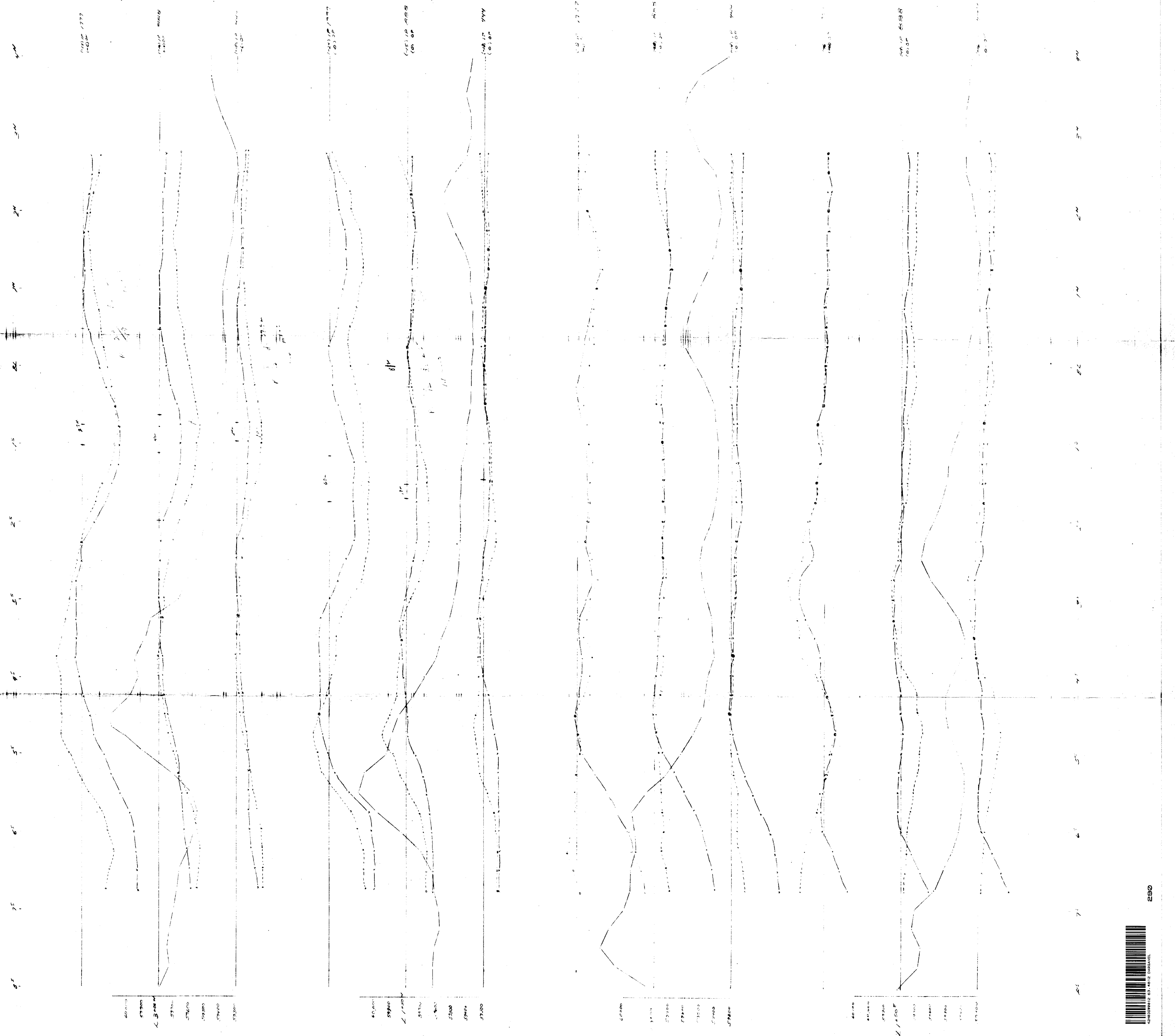
KINGSMILL PROJECT
 DRAWING NO. 3
 MAIN PLAN
 SURVEYED BY
 DATE: 1981-10-25
 SCALE: 1" = 100'
 SHEET NO. 3 OF 3
 2500' CHAIN
 1777
 2888
 4444

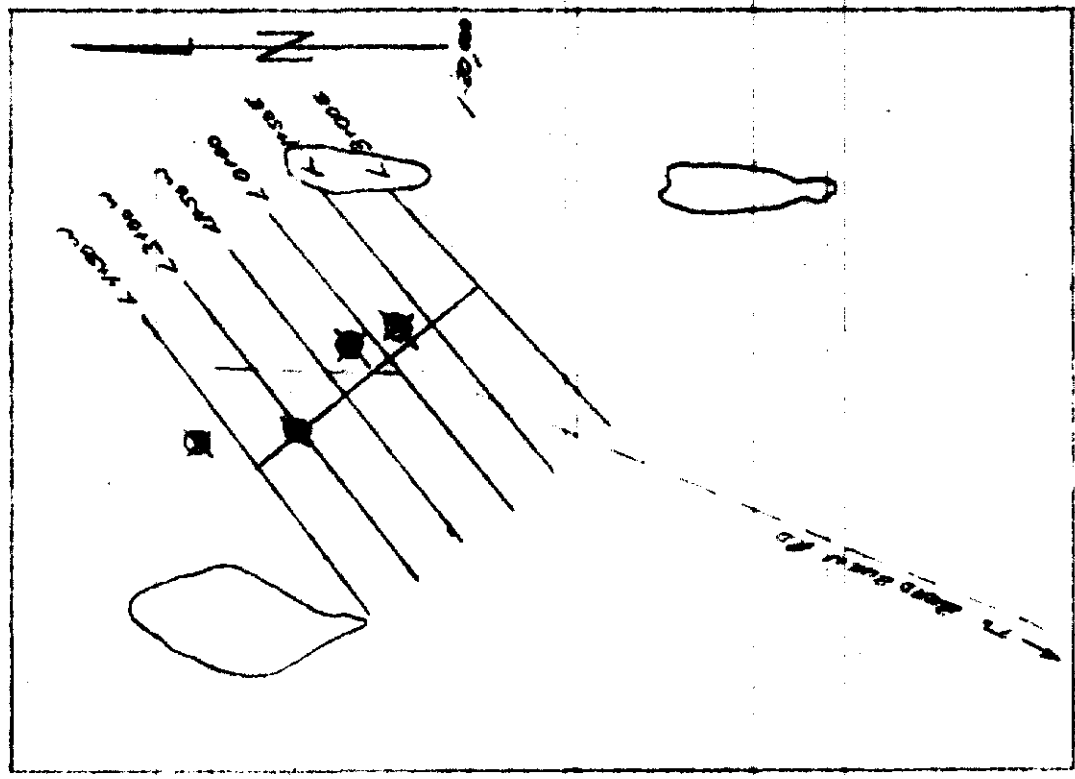




KIMSMITH PROJECT
 Highway Maintenance
 Station #4
 Mountain St. at Liberty
 Sta. 10+00 to 10+50
 Date: 10/10/07
 Scale: 1" = 40'
 Author: [Signature]
 Checker: [Signature]
 Date: 10/10/07

68-4810
 (4)
 1-10-00



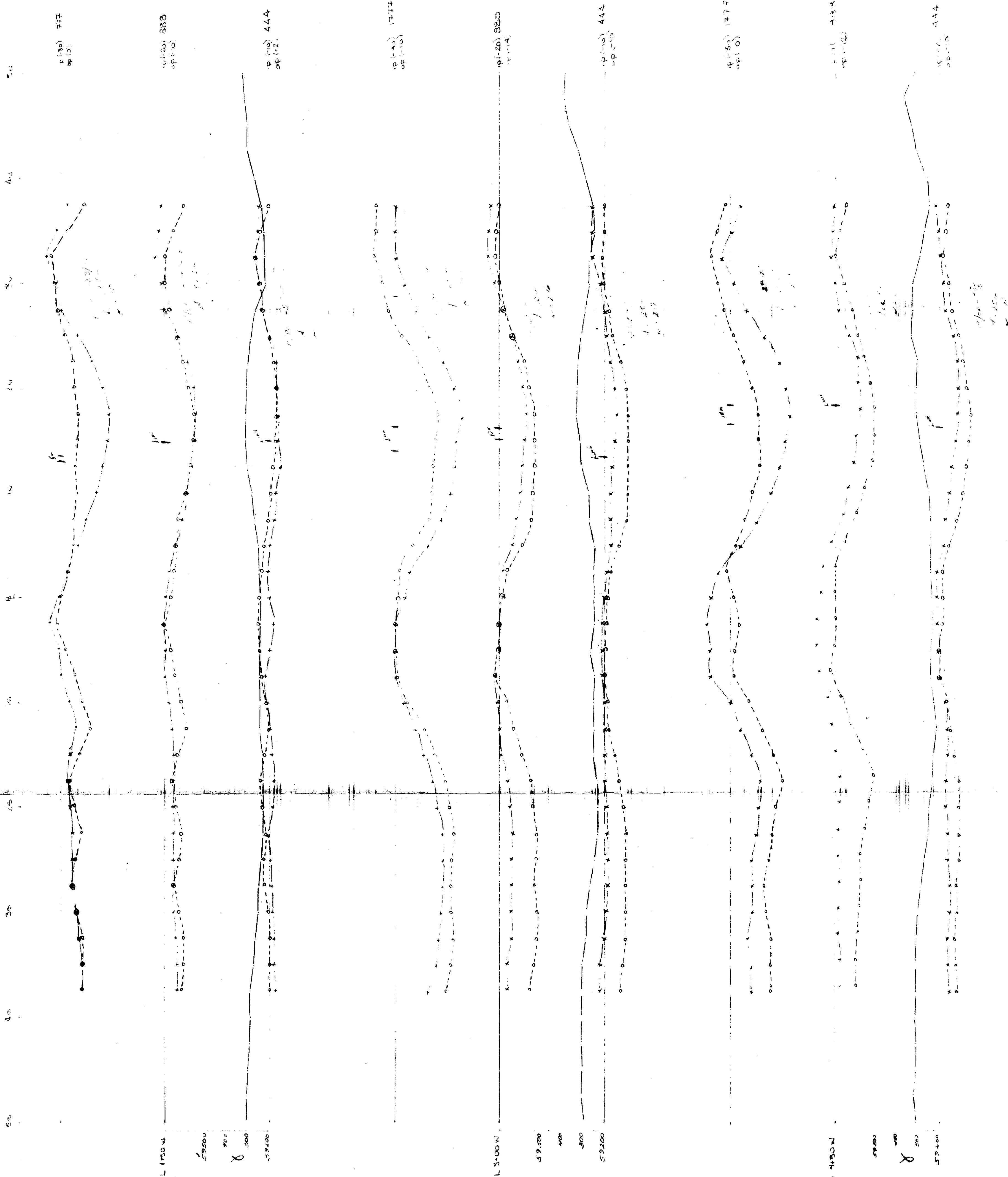


63,4812
(5)

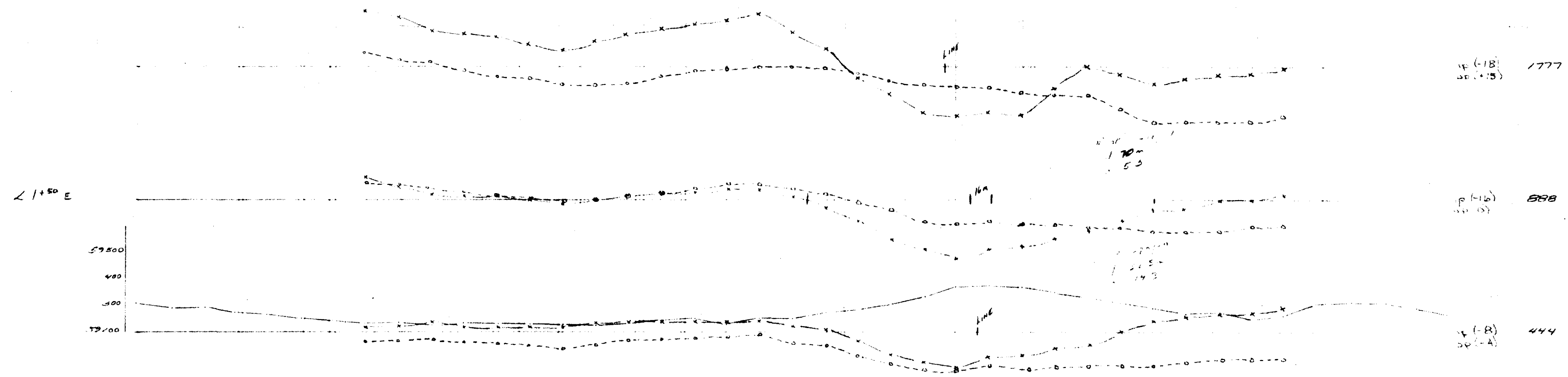
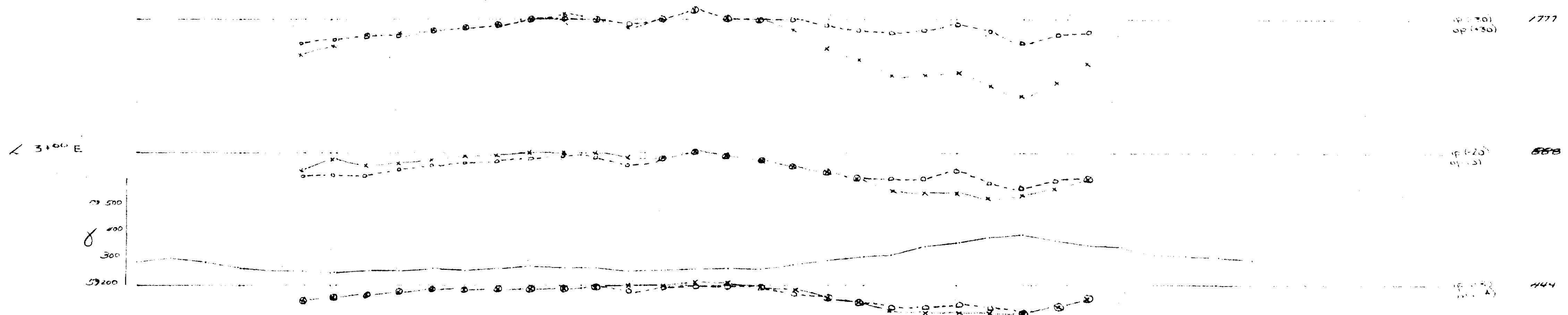
KINGSMILL PROJECT
HUSON MINING LTD.

DANIEL R. B.
MAY 11 1982
SCALE 1:50,000
DATE 08-08-80
SHEET 08-08-80

MAS SURVEY
SHEET NO. 2
SCALE 1:50,000
SHEET 08-08-80



50 45 35 25 15 5 0 5 10 15 20 25 30 35 40 45 50



63.4812
(5)

KINGSMILL PROJECT
 HIGHWAY MINING LTD
 DARGAVEL S
 MALMIN II HL SURVEY
 FROM AS SHOWN
 SCALE VERT 1"=10' HORIZONTAL 1"=100'
 DATE 1981-08-20
 250m CABLE
 MRO SURVEY
 SCHUTZ PIP-2
 SCALE VERT 1"=100'
 SHEET 2 of 2

