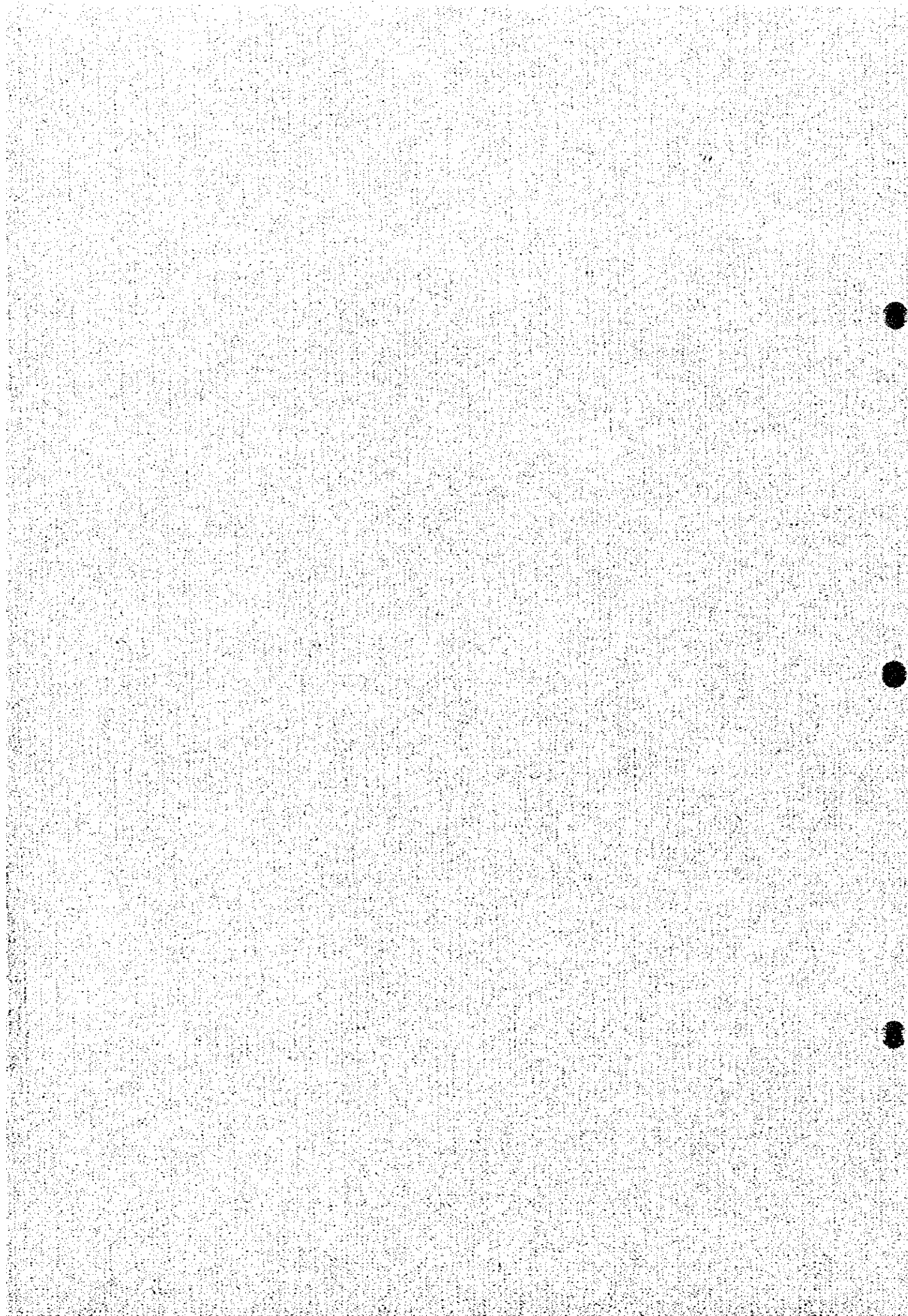


# 卷末資料



1. Existing Drill Hole Data(1)

HOLE NO.	TYPE OF HOLE	YEAR	CO-ORDINATES		COLLAR ELEVATION ASL IN METRES	INCLINATION	TRUE BEARING	TOTAL DEPTH IN METRES	MINERALIZATION		F / V ELEVATION ASL IN METRES	INTER-SECTION ANGLE	REC %	TRUE THICKNESS IN M	AVERAGE PERCENT			HORIZON / FORMATION	HOLE NO.
			-Y	+X					FROM	TO					TOTAL OXIDE	Cu	Co		
DH1	DD		11740.90	19790.66			124.97	RECORDS NOT AVAILABLE										DH1	
DH2	DD		10162.03	19434.05			196.90											DH2	
DH3	DD		10174.22	19415.76														DH3	
NN4	DD	1950	6638.54	15547.85	NO RECORD	Y	265.48	NO COPPER MINERALS RECORDED									NN4		
NN5	DD	1950	7789.98	15771.88		Y	297.18										NN5		
NN6	DD	1950	6820.57	12420.25	1226.95	Y	735.79	ABANDONED IN UPPER ROAN DOLOMITE									NN6		
NN7	DD	1950	11773.09	20133.96	NO RECORD	Y	137.16	36.58	92.66		GEOCHEM				570ppm		NN7		
NN8	DD	1958	11972.65	19972.89		Y	285.61	120.46	125.27	1146.50	24°00'	96.3	1.93	1.10	*		NN8		
NN9	DD	1960	11737.01	19868.73		Y	407.21	223.42	224.64	1042.00	40°00'	100	0.79	0.41	*		NN9		
NN10	DD	1960	11840.68	19781.08		Y	416.05	243.84	274.32		GEOCHEM				300ppm		NN10		
NN11	DD	1960	9206.52	13223.31	1192.85	Y	593.75	504.75	512.98	685.00	37°30'	97.4	3.23	1.57	0.01	0.03	Cp, Bn SHALE/DOLOMITE	NN11	
NN12	DD	1960	8912.72	13193.45	1192.89	Y	530.05	493.78	509.02		GEOCHEM				400ppm		NN12		
NN13	DD	1961	9206.26	12838.33	1197.42	Y	629.41	541.81	545.77	660.70	79°00'	100	2.41	1.85	0.01	0.07	Cp SHALE	NN13	
NN14	DD	1961	9190.47	13556.04	1209.09	Y	554.13	518.23	521.76	714.80	83°00'	100	2.50	2.75	0.06	*	Bn, Cp SHALE	NN14	
NN15	DD	1961	9481.40	13359.55	1203.67	Y	522.73	487.25	495.15	709.90	83°00'	100	7.86	1.27	0.01	0.03	Cp SHALE	NN15	
NN16	DD	1961	9508.02	13732.93	1218.64	Y	511.15	483.41	485.85	759.00	80°00'	100	2.41	0.81	0.01	0.02	Cp SHALE	NN16	
NN17	DD	1962	8915.58	12743.69	1205.95	Y	657.76	573.48	577.44	635.00	67°30'	100	3.35	1.41	0.01	0.07	Cp SHALE	NN17	
NN18	DD	1962	8628.28	12838.62	1204.93	Y	671.17	541.32	549.25		59°00'	98.8	6.80	2.43	0.05	0.05	Cp SHALE	NN18	
NN19	DD	1962	8648.14	12568.85	1212.69	Y	724.18	598.85	606.61	609.50	71°00'	100	6.40	1.29	0.06	0.05	Cp SHALE	NN19	
NN20	DD	1963	8399.76	12756.90	1211.03	Y	576.99	472.44	481.64		72°13'	100	2.53	2.66	0.05	0.08	Cp SHALE	NN20	
NN21	DD	1963	8338.52	12390.76	1216.19	Y	600.46	524.66	528.96		75°00'	100	5.94	1.83	0.05	0.13	Cp SHALE	NN21	
NN22	DD	1963	7742.22	12065.97	1204.15	Y	812.60	662.93	669.19	690.50	73°30'	100	4.24	1.14	0.03	0.05	Cp SHALE	NN22	
NN23	DD	1965	8035.75	12920.21	1205.86	Y	675.74	664.77	669.95		77°48'	98.4	5.61	2.37	0.03	0.13	Cp SHALE	NN23	
NN24	DD	1966	8334.65	13054.78	1203.22	Y	553.21	444.55	453.54	763.00	72°42'	97.0	4.94	2.72	0.03	*	Cp, Bn SHALE	NN24	
NN24	DD	1966	8334.65	13054.78	1203.22	Y	438.00	395.63	406.91	797.00	79°30'	100	11.09	0.20	*	DOLOMITE	NN24		

DD:DIAMOND DRILL, SH:SHOT, CH:CHURN, ASL:ABOVE SEA LEVEL(assumed local datum)

1. Existing Drill Hole Data (2)

HOLE NO.	TYPE OF HOLE	YEAR	CO-ORDINATES		COLLAR ELEVATION ASL IN METRES	INCLINATION	TRUE BEARING	TOTAL DEPTH IN METRES	MINERALIZATION		F / V ELEVATION ASL IN METRES	INTER-SECTION ANGLE	REC %	TRUE THICKNESS IN M	AVERAGE PERCENT				HORIZON / FORMATION	HOLE NO.
			-Y	+X					FROM	TO					TOTAL OXIDE	Cu	Cu	Co		
NN25	DD	1966	7704.73	12730.87	1201.50	V		629.72	528.22	527.06	679.00	85°00'	100	3.84	1.33	0.13		Cp. DOLOMITE / SHALE	NN25	
								or	524.87	527.06				2.19	1.77	0.16	*			
NN26	DD	1966	7732.01	13035.56	1200.79	V		488.90	457.96	455.28		79°24'	98.8	7.19	1.60	0.03	0.16	Cp. Bn SHALE	NN26	
								or	460.55	465.28	743.00	78°30'	100	4.63	1.87	0.02	0.12	*		
NN27	DD	1966	7741.60	13352.85	1197.75	V		507.79	480.55	464.21		80°00'	100	3.50	2.19	0.01	0.14	Cp SHALE	NN27	
								or	446.38	452.48		82°00'	100	5.12	2.05	0.05	0.26	*		
								or	446.99	452.17		81°00'	100	5.12	2.31	0.05	0.23	*		
NN28	DD	1966	7137.72	13336.68	1209.39	V		869.59	679.25	682.14	534.00	79°18'	100	3.44	2.85	0.05	0.25			
NN29	DD	1967	7192.02	12342.95	1218.97	V		915.62	676.05	680.80		70°00'	100	2.72	0.98	0.03	0.09	Cp SHALE	NN28	
NN29A	DD	1967	7192.02	12342.95	1218.97	V		691.59	677.88	680.80	524.00	68°12'	100	2.71	1.50	0.06	0.09	*		
								or	1469.44	1240.31	1253.40	62°20'	99.8	11.16	1.54	0.03	0.19	Cp SHALE	NN29	
								or	1240.81	1250.96		63°30'	99.7	9.08	1.75	0.04	0.17	*		
								or	1240.81	1246.33		59°30'	99.4	4.75	2.13	0.04	0.22	*		
NN30	DD	1967	3072.50	13298.08	1197.89	V		425.50	399.29	402.34		GEOCHEM						DOLOMITE	NN30	
NN31	DD	1967	7864.22	12417.88	1207.56	V		656.84	552.18	558.61		75°00'	100	6.22	1.26	0.06	0.06	Cp SHALE	NN31	
NN32	DD	1968	6056.76	11934.74	1242.69	V		238.52	20.73	23.16	638.80	73°45'	100	4.45	1.48	0.05	0.04	*		
NN33	DD	1969	6389.29	11855.75	1236.87	70°	076°	402.95	146.30	152.70		69°00'	68.8	2.29	0.70	0.07	0.05	DOLOMITE / SHALE	NN32	
NN34	DD	1969	7865.44	13913.24	1195.18	V		585.52	504.75	510.84		GEOCHEM						SHALE	NN33	
								or	504.75	509.02	693.00	73°20'	100	5.82	1.59	0.03	0.03	Bn SHALE	NN34	
								or	605.64	503.22	688.00	74°00'	95.6	6.64	1.40	0.03	0.03	*		
NN35	DD	1969	3877.39	13748.48	1210.54	V		526.39	470.92	486.16		GEOCHEM						DOLOMITE	NN35	
NN36	DD	1969	8300.71	14028.19	1208.12	V		491.84	454.15	466.94		GEOCHEM						DOLOMITE	NN36	
NN37	DD	1969	7922.87	14317.17	1207.82	V		487.68	457.20	476.71		GEOCHEM						DOLOMITE	NN37	
NN38	DD	1969	7444.05	14313.84	1188.89	V		720.55				GEOCHEM						Bn, Cp SHALE	NN38	
								or	705.92	712.32		CORE LOSS THROUGH ORE SHALE						Bn, Cp SHALE	NN38	
								or	706.83	710.79	505.00	80°18'	100	6.31	2.10	0.01	0.03	*		
NN39D1	DD	1970	7120.58	14671.36	1201.82	V		488.59	411.48	413.00		GEOCHEM						Bn SHALE	NN39D1	
NN40	DD	1970	6972.59	14341.65	1189.53	V		1136.29	923.85	933.97	461.00	75°30'	100	9.78	2.11	0.01	0.04	*		
NN41	DD	1974	7438.90	14707.65	1197.11	V		917.97	788.20	790.72	485.00	86°00'	96.8	1.31	1.07	0.01	0.01	Bn, Cp SHALE DOLOMITE	NN40	
NN42	DD	1975	9288.45	14946.96	1215.75	V		866.46	689.26	806.92	420.00	67°00'	97.3	16.27	2.29	0.02	0.10	Cp SHALE	NN41	
NN43	DD	1975	9296.92	14555.88	1218.06	V		798.31	687.85	700.52	524.50	71°3'	99.0	12.02	2.93	0.02	0.09	Cp, Py SHALE	NN42	
NN44D1	DD	1976	8390.61	15153.56	1214.65	38°	180°	913.07	775.50	794.50		58.8°	99.5	6.63	5.35	0.02	0.10	Cp SHALE	NN43	
								or						10.47	3.83	0.02	0.26	*		
NN45	DD	1976	9639.82	14945.31	1218.19	V		786.20	729.84	740.44	492.00	76°9'	98.5	10.39	2.32	0.01	0.06	Cp SHALE	NN44	
NN46	DD	1976	9280.79	14156.84	1218.69	V		579.35	558.50	559.95		71.8°	100	1.38	3.38	0.01	0.04	Bn, Cp SHALE DOLOMITE	NN45	

DD-DIAMOND DRILL, SH-SHOT, CH-CHURN, ASL-ABOVE SEA LEVEL (assumed local datum)

1. Existing Drill Hole Data(3)

HOLE NO.	TYPE OF HOLE	YEAR	CO-ORDINATES		COLLAR ELEVATION ASL IN METRES	INCLINATION	TRUE BEARING	TOTAL DEPTH IN METRES	MINERALIZATION		F / V ELEVATION ASL IN METRES	INTER-SECTION ANGLE	REC %	TRUE THICKNESS IN M	AVERAGE PERCENT			HORIZON / FORMATION	HOLE NO.		
			-Y	-X					FROM	TO					TOTAL OXIDE	Cu	Cu			Co	
NN47	DD	1977	8487.75	14948.17	1213.06	V		642.81	588.93	570.89	81.5°	100	1.93	0.38	0.01	0.01	0.01	0.01	0.01	Cp SHALE, DOLOMITE	NN47
NN48A	DD	1977	10510.57	14952.01	1231.75	V		1057.05	810.00	815.05	54.5°	99.9	4.67	2.08	0.01	0.02	0.02	0.02	0.02	Cp SHALE	NN48A
NN49	DD	1977				V		41.65	ABANDONED												NN49
NN49A	DD	1977				V		29.84	ABANDONED												NN49A
NN49B	DD	1977	9278.43	15745.89	1219.44	V		894.79	NO ORE INTERSECTED												NN49B
NN50	DD	1977	8470.59	15729.97	1206.57	V		853.03	828.70	829.45	70.0°	98.7	0.71	0.61	0.01	0.01	0.01	0.01	0.01	Bn SHALE, DOLOMITE	NN50
NN51	DD	1977	10075.90	15756.97	1227.26	V		1062.14	1018.40	1034.34	61.1°	98.8	14.21	2.88	0.01	0.06	0.06	0.06	0.06	Cp SHALE	NN51
NN52	DD	1977	10869.71	15766.96	1248.21	V		1184.45	1012.03	1022.06	70.0°	100	0.86	1.32	0.01	0.02	0.02	0.02	0.02	Py SHALE	NN52
NN52D1	DD	1977	10071.98	15358.24	1232.95	V		953.83	924.36	939.63	69.0°	99.1	4.92	2.15	0.01	0.05	0.05	0.05	0.05	Cp, Po, Py SHALE	NN52D1
NN54	DD	1978	9282.77	15246.44	1200.08	V		928.8	NO ORE INTERSECTED												NN54
NN55	DD	1978	9629.34	14560.99	1219.61	V		685.23	581.00	586.42	79°	100	5.32	1.74	0.02	0.04	0.04	0.04	0.04	Cp, Po SHALE	NN55
NN56	DD	1978	9685.54	14555.22	1219.61	V		686.5	583.00	586.08	79°	100	3.02	2.04	0.02	0.02	0.02	0.02	0.02		NN56
NN57	DD	1978	6653.10	13328.16	1205.64	54°	094°	764.04	NO ORE INTERSECTED												NN57
NN58	DD	1979	6415.99	12424.62	1221.74	53°	089°	459.55	NO ORE INTERSECTED												NN58
NN59	DD	1980	8248.09	15336.91	1203.00	V		1239.90	1128.00	1162.40	42.0°	96.7	22.92	2.21	0.09	0.09	0.09	0.09	0.09	Cp SHALE	NN59
NN60	DD	1981	10396.69	16589.67	1239.14	V		1194.90	1111.40	1114.60	52.0°	100	2.74	1.69	0.07	0.07	0.07	0.07	0.07	F / W	NN60
NN61	DD	1981	9736.46	16533.50	1218.81	V		1017.27	990.68	995.29	79.4°	100	9.20	0.63	0.03	0.03	0.03	0.03	0.03	Bn SHALE	NN61
NN62D1	DD	1981	12911.96	19267.02	1259.19	78°	351°27'3"	439.26	423.60	427.60	79.1°	97	3.68	1.92	0.01	0.01	0.01	0.01	0.01	Cp, Bn SHALE	NN62D1
NN63	DD	1981	9599.97	15339.76	1216.78	V		967.12	899.50	918.00	84.6°	100	18.41	2.11	0.21	0.21	0.21	0.21	0.21	Cp, Po SHALE	NN63
NN64	DD	1981	13232.83	14594.34	1216.01	V		803.77	NO ORE INTERSECTED												NN64
NN65	DD	1981	11708.25	14124.09	1209.61	77.2°	075°12'	658.24	NO ORE INTERSECTED												NN65
NN66	DD	1981	10010.13	17294.30	1218.66	V		780.63	NO ORE INTERSECTED												NN66
NN67	DD	1982	12504.41	17758.13	1234.25	V		811.92	784.52	802.48	61.0°	97.6	15.71	0.98	0.01	0.01	0.01	0.01	0.01	F / W QUARTZITE	NN67
NN68	DD	1981	11609.15	17804.58	1227.83	89.4°	099.4°	1002.33	NO ORE INTERSECTED												NN68
NN69	DD	1982	10782.08	16000.81	1225.33	V		944.25	NO ORE INTERSECTED												NN69
NN70	DD	1982	11294.89	16555.76	1250.55	89°17'	061°23'	936.88	NO ORE INTERSECTED												NN70
NN71	DD	1982	12363.65	12706.88	1198.55	V		1274.91	NO ORE INTERSECTED												NN71
NN72	DD	1982	7770.48	15393.71	1201.20	V		758.64	NO ORE INTERSECTED												NN72
NN73	DD	1982	12354.58	16801.52	1243.63	V		859.00	783.40	783.90	47.0°	100	0.37	1.08	0.01	0.01	0.01	0.01	0.01	Bn SHALE	NN73
NN74	DD	1982	7770.48	15393.71	1201.20	V		1033.78	980.16	971.57	70.0°	100	10.72	2.11	0.09	0.09	0.09	0.09	0.09	Cp SHALE	NN74
NN75	DD	1982	12354.58	16801.52	1243.63	V		963.16	971.57	971.57	69.7°	100	7.87	2.09	0.11	0.11	0.11	0.11	0.11	F / W CRITTY QUARTZITE	NN75
								or	971.57	882.24	297.88	70.0°	100	10.03	0.64	0.01	0.01	0.01	0.01		

DD-DIAMOND DRILL, SH-SHOT, CR-CHURN, ASL-ABOVE SEA LEVEL (assumed local datum)

## 2. Summary of the Drilling Operation(1)

MJZC-1

Operation	Survey Period			Work Day			Off Day			Total Man Day		
	Period	Day	m	Day	h	m	Day	h	Engineer	Worker	man	Worker
Preparation	06.11.1994~08.11.1994		800.00	2.50			0.00		9.00		24.00	
Drilling	08.11.1994~30.11.1994		-149.15	17.50			4.00		61.00		181.00	
Dismantling	01.12.1994~06.12.1994		650.85	1.00			0.00		5.00		10.00	
Total	06.11.1994~06.12.1994		617.07	26.00			5.00		92.00		253.00	
Drilling Length	800.00	Overburden		Core Recovery of 100m Hole			Core Recovery			Core Recovery		
Increase/Decrease in Length (N/C Drilling)	33.78	Recovery	97.61	Depth of Hole (m)			Core Recovery (%)		Cumulated (%)			
(Core Drilling)	617.07			0.00~100.00			88.31		88.31			
Working Hours				100.00~200.00			96.25		96.25			
Drilling	241.00	%	51.72	200.00~300.00			97.33		94.68			
Other Working	187.00		40.13	300.00~400.00			99.72		96.06			
Recovering	38.00		8.15	400.00~500.00			99.69		96.84			
Subtotal	466.00		100.00	500.00~600.00			100.00		97.40			
Reassembly	24.00		3.39	600.00~700.00			100.00		97.61			
Dismantlement	20.00		2.82									
Water Supply	168.70		23.80									
Road Construction	6.00		0.85									
Transportation	24.00		3.39									
Grand Total	708.70		100.00									
Casing Pipe Inserted	Metreage / Drilling Length x 100			Efficiency of Drilling			Core Length			Core Length		
	Size	mm		Total Length / m	Drilling Period / m	Total Drilling / Shifts	Drilling Length / Each Bit (m)	Core Length	mm	N/C	mm	N/C
		mm		Total Length / m	Drilling Period / m	Total Drilling / Shifts	Drilling Length / Each Bit (m)	Core Length	mm	N/C	mm	N/C
		117mm										
		200mm										

Operation	Survey Period			Work Day			Off Day			Total Man Day		
	Period	Day	m	Day	h	m	Day	h	Engineer	Worker	man	Worker
Preparation	27.12.1993~27.12.1993		810.00	0.5							28	
Drilling	18.01.1994~21.01.1994		4.5	4.0					10		10	
Recovering	27.12.1993~29.12.1993			21					60		60	
Dismantling	22.01.1994~10.02.1994		24	0					0		0	
Total	11.02.1994~12.02.1994		30.5	27.5					8		8	
Drilling Length	810.00	Overburden	12.00	Core recovery of 100 m hole			Core recovery			Core recovery		
Increase or Decrease in Length	652.02	Core Length	652.02	Depth of hole (m)			Core recovery (%)		Cumulated (%)			
Length drilled	810.00			0.00~100.00			96.2		96.2			
Working hours				100.00~200.00			98.5		98.5			
Drilling	198'00"	h	39.2	200.00~300.00			98.2		98.2			
Other working	238'00"	%	47.1	300.00~400.00			99.9		99.9			
Recovering	89'00"		13.7	400.00~500.00			100.0		100.0			
Total	505'00"		66.6	500.00~600.00			99.9		99.9			
Reassembly	106'00"		14.0	600.00~700.00			99.5		99.5			
Dismantlement	32'00"		6.9	700.00~800.00			100.0		100.0			
Water transportation	42'00"		5.5	800.00~900.00								
Road construction and transportation	53'00"		7.0									
G. Total	758.00		100.0									
Casing pipe inserted	Metreage / Drilling Length x 100			Efficiency of Drilling			Core Length			Core Length		
	Size	mm		Total Length / m	Drilling Period / m	Total Drilling / Shifts	Drilling Length / Each Bit (m)	Core Length	mm	N/C	mm	N/C
		mm		Total Length / m	Drilling Period / m	Total Drilling / Shifts	Drilling Length / Each Bit (m)	Core Length	mm	N/C	mm	N/C
		200mm										
		153.00		18.9								

MJZC-2

## 2. Summary of the Drilling Operation (2)

KJZC-4

KJZC-3

Operation	Survey Period				Total man day	
	Period	Days	Work day	Off day	Engineer	Worker
Preparation	23.11.1993~04.12.1993	12	9	3	19	45
Drilling	05.12.1993~10.02.1994	68	Drilling 51 Recovering 5	12	157	407
Dismantling	11.02.1994~15.02.1994	5	5	0	15	40
Total	23.11.1993~15.02.1994	85	70	15	206	522
Core recovery of 100 m hole						
Drilling length	1051.00 m	Overburden	12.00 m			
Length planned		Core length	945.37 m	Core recovery (%)	93.7	93.7
Increase or decrease in length				Core recovery (%)	91.8	92.2
Length drilled	1051.00 m	Core recovery	945.37 m	Core recovery (%)	91.8	94.5
Working hours						
Drilling	582'00"	%	45.1	31.8	700.00 ~ 800.00	97.2
Other working	270'00"	%	21.6	15.3	800.00 ~ 900.00	97.4
Recovering	416'00"	%	38.3	23.6	900.00 ~ 1000.00	97.6
Total	1268'00"	%	100.0	70.7	1000.00 ~ 1100.00	97.8
Reassemble	40'00"	Efficiency of Drilling				
Dismantlement	36'00"	Total m/work period(m/day)				
Water transportation	304'00"	Total m/work shift(m/shift)				
Road construction and transportation	137'00"	Drilling length/bit (each sized bit)				
G. Total	1785'00"	Bit size 150mm 130mm 90				
Casing pipe inserted	Waterage/length x 100	Recovery				
Size	Waterage/length x 100	Core length				
150mm	7.00	0				
117	72.00	6.9				
117	84.00	8.0				
117	102.00	12.7				
117	534.00	66.3				

Operation	Survey Period				Total man day	
	Period	Days	Work day	Off day	Engineer	Worker
Preparation	24.11.1993~05.12.1993	12	9	3	10	48
Drilling	15.12.1993~17.01.1994	43	Drilling 29 Recovering 7	5	93	242
Dismantling	18.01.1994~19.01.1994	2	2	0	19	60
Total	24.11.1993~19.01.1994	57	47	10	126	358
Core recovery of 100 m hole						
Drilling length	805.00 m	Overburden	12.00 m			
Length planned		Core length	679.62 m	Core recovery (%)	N/C	-
Increase or decrease in length				Core recovery (%)	93.4	93.4
Length drilled	805.34 m	Core recovery	679.62 m	Core recovery (%)	98.6	96.0
Working hours						
Drilling	454'00"	%	61.6	38.5	700.00 ~ 800.00	96.5
Other working	193'00"	%	25.2	16.3	800.00 ~ 900.00	96.6
Recovering	90'00"	%	12.2	7.6	900.00 ~ 1000.00	96.6
Total	737'00"	%	100.0	62.5	1000.00 ~ 1100.00	96.6
Reassemble	40'00"	Efficiency of Drilling				
Dismantlement	48'00"	Total m/work period(m/day)				
Water transportation	178'00"	Total m/drilling work shift(m/shift)				
Road construction and transportation	177'00"	Drilling length/bit (each sized bit)				
G. Total	1180	Bit size 150mm 130mm 90				
Casing pipe inserted	Waterage/length x 100	Recovery				
Size	Waterage/length x 100	Core length				
150mm	4.00	0				
117	84.00	10.4				
117	102.00	12.7				
117	534.00	66.3				

## 2. Summary of the Drilling Operation (3)

MJZC-6

Operation	Survey Period			Total Man Day		
	Period	Day	Work Day	Off Day	Engineer	Worker
	m	m	m	m	m	m
Preparation	11.08.1994~12.08.1994	2.00	2.00	0.00	2.00	16.00
Drilling	13.08.1994~06.11.1994	85.00	Drilling 65.50 Recovering 4.50	15.00	219.00	458.00
Dismantling	07.11.1994~10.11.1994	4.00	4.00	0.00	9.00	32.00
Total	11.08.1994~10.11.1994	91.00	76.00	15.00	242.00	518.00
Drilling Length	1100.00	Overburden	813.76	Core Recovery of 100m Hole	Core Recovery	Core Recovery
Length Planned	-85.04	Core Length	98.63	Depth of Hole	(%)	Cumulated (%)
Increase/Decrease in Length	1014.96	Core Recovery	98.63	(m)	0.00-100.00	0.00
Length Drilled (N/C Drilling)	189.88	Core	25.30	100.00-200.00	92.59	92.59
(Core Drilling)	825.08	Recovery	34.21	200.00-300.00	98.25	97.73
Working Hours	h	%	395.50	300.00-400.00	97.60	97.67
Drilling	513.00	34.21	513.00	400.00-500.00	99.03	98.11
Other Working	247.50	44.38	247.50	500.00-600.00	100.00	98.57
Recovering	1156.00	21.41	1156.00	600.00-700.00	96.38	98.14
Subtotal	14.00	100.00	14.00	700.00-800.00	100.00	98.44
Reassembly	38.00		38.00	800.00-900.00	98.94	98.51
Dismantlement	325.00		325.00	900.00-1000.00	99.33	98.62
Water Supply	24.00		24.00	1000.00-1100.00	99.33	98.63
Road Construction	6.00		6.00	Efficiency of Drilling		
Transportation	1583.00		1583.00	Total Length /	m	m/day
Grand Total	100.00		100.00	Drilling Period	1014.96	85.00
Casing Pipe Inserted				Total Length /	m	shift
Size	Metrage /	Recovery	Metrage /	Total Drilling	1014.96	11.57
	Drilling Length	(%)	Drilling Length	Shifts		
	x100		x100			
	(m)		(m)			
200mm	0.00	0.00	0.00	Drilling Length / Each Bit (m)	Core Length	N/C
165mm	41.00	4.04	41.00	Bit Size	Drilled Length	N/C
HW	0.00	0.00	0.00	165mm	0.00	N/C
NW	189.88	18.71	189.88	150mm	148.88	N/C
BK	0.00	0.00	0.00	HO	0.00	0.00
				NO	825.08	813.76
				80	0.00	0.00

MJZC-5

Operation	Survey Period			Total Man Day		
	Period	Day	Work Day	Off Day	Engineer	Worker
	m	m	m	m	m	m
Preparation	05.08.1994~08.08.1994	3.50	3.50	0.00	6.00	40.00
Drilling	08.08.1994~11.12.1994	25.50	Drilling 102.50 Recovering 7.00	16.00	336.00	706.00
Dismantling	12.12.1994~15.12.1994	4.00	4.00	0.00	34.00	62.00
Total	05.08.1994~15.12.1994	33.00	117.00	16.00	391.00	839.00
Drilling Length	1100.00	Overburden	894.79	Core Recovery of 100m Hole	Core Recovery	Core Recovery
Length Planned	0.15	Core Length	97.67	Depth of Hole	(%)	Cumulated (%)
Increase/Decrease in Length	1100.15	Core Recovery	97.67	(m)	0.00-100.00	0.00
Length Drilled (N/C Drilling)	184.00	Core	24.52	100.00-200.00	87.00	87.00
(Core Drilling)	916.15	Recovery	27.80	200.00-300.00	96.10	96.57
Working Hours	h	%	487.00	300.00-400.00	94.95	95.82
Drilling	721.50	31.02	721.50	400.00-500.00	93.67	95.14
Other Working	1752.00	27.80	1752.00	500.00-600.00	100.00	96.31
Recovering	13.00	41.18	13.00	600.00-700.00	95.67	93.18
Subtotal	12.00	100.00	12.00	700.00-800.00	99.81	96.77
Reassembly	343.00		343.00	800.00-900.00	99.73	97.19
Dismantlement	24.00		24.00	900.00-1000.00	99.24	97.44
Water Supply	73.00		73.00	1000.00-1100.00	99.55	97.67
Road Construction	2217.00		2217.00	Efficiency of Drilling		
Transportation	100.00		100.00	Total Length /	m	m/day
Grand Total	100.00		100.00	Drilling Period	1100.15	8.77
Casing Pipe Inserted				Total Length /	m	shift
Size	Metrage /	Recovery	Metrage /	Total Drilling	1100.15	8.33
	Drilling Length	(%)	Drilling Length	Shifts		
	x100		x100			
	(m)		(m)			
HW	0.00	0.00	0.00	Drilling Length / Each Bit (m)	Core Length	N/C
165mm	44.00	4.00	44.00	Bit Size	Drilled Length	N/C
HW	0.00	0.00	0.00	212mm	0.00	N/C
NW	183.00	16.63	183.00	mm	0.00	N/C
BK	0.00	0.00	0.00	114mm	147.00	N/C
				HO	0.00	0.00
				NO	916.15	894.79
				80	0.00	0.00



## 2. Summary of the Drilling Operation(4)

MJZC-8

MJZC-7

Operation	Survey Period			Total Man Day	
	Period	Day	Work Day	Off Day	Worker
Preparation	16.08.1994-17.08.1994	2.00	2.00	0.00	2.00
Drilling	18.08.1994-17.11.1994	92.00	Drilling 75.00 Recovering 0.00	17.00	251.00
Dismantling	18.11.1994-21.11.1994	4.00	4.00	0.00	39.00
<b>Total</b>	16.08.1994-21.11.1994	98.00	81.00	17.00	267.00
Drilling Length	m	Core Recovery of 100m Hole			
Length Planned	1100.00	Overburden	Depth of Hole	Core Recovery	Core Recovery
Increase/Decrease in Length	-115.00	828.75	(m)	(%)	Cumulated (%)
Length Drilled (N/C Drilling)	985.00	Core			
(Core Drilling)	131.60	Recovery			
Working Hours	h	%			
Drilling	545.00	36.19	0.00-100.00	0.00	0.00
Other Working	602.50	40.01	100.00-200.00	84.49	84.49
Recovering	358.50	23.80	200.00-300.00	91.98	88.94
Subtotal	1506.00	100.00	300.00-400.00	98.71	92.58
Reassemblies	20.00	0.93	400.00-500.00	97.58	93.94
Dismantlement	26.00	1.21	500.00-600.00	100.00	95.23
Water Supply	522.00	24.21	600.00-700.00	98.91	95.88
Road Construction	24.00	1.11	700.00-800.00	99.24	96.38
Transportation	58.00	2.66	800.00-900.00	99.63	96.80
<b>Grand Total</b>	2156.00	100.00	900.00-1000.00	84.94	97.12
		Efficiency of Drilling			
		Total Length /	m	day	m/day
		Drilling Period	985.00	92.00	10.71
		Total Length /	m	shift	m/shift
		Total Drilling	985.00	117.67	8.37
		Shiffts			
		Drilling Length / Each Bit (m)			
Size	Metrage / Drilling Length x100	Recovery			
Metrage (m)	(%)	(%)			
200mm	0.00	0.00	49.00	Core Length	N/C
165mm	49.00	4.97	0.00	Core Length	N/C
HW	54.00	5.48	100.00	Core Length	N/C
NW	144.00	14.62	79.17	Core Length	N/C
EX	0.00	0.00	0.00	Core Length	9.46
				417.37	385.53
				0.00	0.00

Operation	Survey Period			Total Man Day	
	Period	Day	Work Day	Off Day	Worker
Preparation	18.11.1994-20.11.1994	3.00	3.00	0.00	10.00
Drilling	13.11.1994-13.12.1994	26.00	Drilling 25.00 Recovering 0.00	1.00	80.00
Dismantling	15.11.1994-17.11.1994	6.00	5.00	0.00	0.00
<b>Total</b>	13.11.1994-16.12.1994	35.00	33.00	2.00	107.00
Drilling Length	m	Core Recovery of 100m Hole			
Length Planned	600.00	Overburden	Depth of Hole	Core Recovery	Core Recovery
Increase/Decrease in Length	-109.74	394.99	(m)	(%)	Cumulated (%)
Length Drilled (N/C Drilling)	490.26	Core			
(Core Drilling)	61.00	Recovery			
Working Hours	h	%			
Drilling	269.00	49.72	0.00-100.00	93.77	93.77
Other Working	248.00	45.84	100.00-200.00	97.51	96.46
Recovering	24.00	4.44	200.00-300.00	96.16	96.33
Subtotal	541.00	100.00	300.00-400.00	74.63	89.93
Reassemblies	13.00	1.59	400.00-500.00	90.12	92.02
Dismantlement	15.00	1.84			
Water Supply	203.50	24.95			
Road Construction	6.00	0.74			
Transportation	37.00	4.54			
<b>Grand Total</b>	815.50	100.00			
		Efficiency of Drilling			
		Total Length /	m	day	m/day
		Drilling Period	489.26	26.00	18.86
		Total Length /	m	shift	m/shift
		Total Drilling	489.26	43.80	11.19
		Shiffts			
		Drilling Length / Each Bit (m)			
Size	Metrage / Drilling Length x100	Recovery			
Metrage (m)	(%)	(%)			
165mm	44.27	9.03	44.27	Core Length	N/C
HW	54.00	11.01	16.79	Core Length	N/C
NW	72.89	14.87	0.00	Core Length	N/C
EX	0.00	0.00	11.89	Core Length	9.46
				417.37	385.53
				0.00	0.00

## 2. Summary of the Drilling Operation (5)

MJZC-9

Operation	Period	Survey Period		Mark Day	Total Man Day	
		Day	Day		Engineer	Worker
Preparation	06.07.1995-10.07.1995	6	5	1	15	46
Drilling	15.07.1995-13.07.1995	52	3	0	274	430
Drilling	17.07.1995-21.09.1995	71	6	3	79	54
Drilling	14.07.1995	6	5	1	18	39
Drilling	27.09.1995-28.09.1995	2	14	14	78	571
<b>Total</b>		<b>158</b>	<b>89</b>		<b>786</b>	<b>1100</b>
Drilling Length	1100.00	Overburden	60.00			
Length Planned	44.76	Core Length	1031.27			
Increase/Decrease	97.00	Recovery	98.42			
Length Drilled	1144.76	Depth of Hole				
(Core Drilling)	1047.76					
Working Hours						
Drilling	625.00	%	45.89			
Other Working	500.00		40.20			
Recovering	183.00		14.11			
Subtotal	1388.00		78.71			
Reassembly	32.00		1.94			
Dismantling	18.00		1.41			
Water Supply	270.00		15.54			
Road Construction	8.00		0.64			
Transportation	42.00		3.29			
Grand Total	1728.00		129.45			
Casing Pipe Inserted						
Size	Macro	Recovery				
21mm	40.00	(%)	0.0	Drilling Length / Each Bit (m)	Core Length	
17mm	42.00		0.0	25mm	40.50	M/C
11mm	87.00		0.0	20mm	22.00	M/C
8	201.00		100.0	16mm	35.00	M/C
5	0.00		0.0	10	104.00	M/C
				8	143.76	833.17
				60	0.00	0.00

MJZC-10

Operation	Period	Survey Period		Mark Day	Total Man Day	
		Day	Day		Engineer	Worker
Preparation	04.07.1995-07.07.1995	6.00	5.00	1.00	21.00	62.00
Drilling	06.10.1995-07.10.1995	84.00	5.00	6.00	370.00	821.00
Drilling	11.07.1995-04.10.1995	44.50	6.00	6.00	190.00	308.00
Drilling	07.10.1995-27.11.1995	130.50				
Dismantling	10.07.1995					
Total		<b>283.00</b>	<b>151.00</b>		<b>602.00</b>	<b>1330.00</b>
Drilling Length	1100.00	Overburden	7.00			
Length Planned	-90.14	Core Length	924.86			
Increase/Decrease	1000.86	Recovery	97.35			
Length Drilled	60.00	Depth of Hole				
(Core Drilling)	940.86					
Working Hours						
Drilling	650.00	%	17.16			
Other Working	548.50		15.83			
Recovering	133.50		47.47			
Subtotal	2076.00		80.46			
Reassembly	40.00		1.08			
Dismantling	28.00		0.76			
Water Supply	612.00		16.57			
Road Construction	8.00		0.22			
Transportation	30.00		0.81			
Grand Total	3084.00		100.00			
Casing Pipe Inserted						
Size	Macro	Recovery				
21mm	24.00	(%)	0.00	Drilling Length / Each Bit (m)	Core Length	
17mm	32.00		0.00	25mm	24.00	M/C
11mm	117.00		0.00	20mm	8.00	M/C
8	173.00		100.00	13mm	23.00	M/C
5	628.76		60.00	10	113.90	110.00
				8	284.50	263.30
				60	51.46	50.95

## 2. Summary of the Drilling Operation(6)

MJZC-12

Operation Preparation	Period	Survey Period		Work Day	Off Day	LOCAL Man Day Engineer	Worker
		Day	Day				
	23.07.1995-24.07.1995						
	28.07.1995						
	29.07.1995-06.08.1995						
	07.08.1995-08.08.1995						
	15.09.1995						
	25.07.1995-27.07.1995						
	09.08.1995-13.08.1995						
	15.09.1995-25.09.1995						
	14.09.1995						
	28.09.1995-04.10.1995						
<b>Total</b>							
<b>Drilling Length</b>	1100.00	Overburden	78.00				
<b>Length Planned</b>	-247.13	Core Length	544.85				
<b>Increase/Decrease</b>		Core	88.45				
<b>Length Drilled</b>	852.87	Recovery	78.28				
<b>(W/C Drilling)</b>	128.00		180.00				
<b>(Core Drilling)</b>	728.87		607.78				
<b>Working Hours</b>							
Drilling	491.00		47.16				
Other Working	414.00		43.41				
Reaming	91.00		8.43				
Support	6.00		33.33				
Reassembly	48.00		72.89				
Dismantment	50.00		1.44				
Fluid Supply	188.50		11.00				
Fluid Construction	0.00		1.44				
Transportation	44.00		4.55				
<b>Grand Total</b>	1205.50		100.00				
<b>Drilling Rate</b>							
(m)	33.00		4.38				
(ft)	95.00		6.14				
(m)	174.00		23.01				
(ft)	572.87		76.40				
(m)	0.00		0.00				
(ft)	0.00		0.00				
<b>Drilling Length / Each Bit (m)</b>							
21mm	36.00		4.38				
17mm	48.00		6.14				
11mm	180.00		23.01				
HW	180.00		23.01				
BT	0.00		0.00				
<b>Drilling Length / Each Bit (ft)</b>							
21mm	114.83		14.07				
17mm	151.18		19.57				
11mm	572.87		76.40				
HW	572.87		76.40				
BT	0.00		0.00				
<b>Recovery</b>							
(%)	78.28		88.45				
(m)	782.87		88.45				
(ft)	2571.31		290.35				
<b>Core Recovery</b>							
(%)	88.45		95.07				
(m)	88.45		95.07				
(ft)	290.35		312.76				
<b>Drilling Length / Each Bit (m)</b>							
21mm	36.00		4.38				
17mm	48.00		6.14				
11mm	180.00		23.01				
HW	180.00		23.01				
BT	0.00		0.00				
<b>Drilling Length / Each Bit (ft)</b>							
21mm	114.83		14.07				
17mm	151.18		19.57				
11mm	572.87		76.40				
HW	572.87		76.40				
BT	0.00		0.00				
<b>Recovery</b>							
(%)	78.28		88.45				
(m)	782.87		88.45				
(ft)	2571.31		290.35				
<b>Core Recovery</b>							
(%)	88.45		95.07				
(m)	88.45		95.07				
(ft)	290.35		312.76				

MJZC-11

Operation Preparation	Period	Survey Period		Work Day	Off Day	Total Man Day Engineer	Worker
		Day	Day				
	23.07.1995-24.07.1995						
	28.07.1995						
	29.07.1995-06.08.1995						
	07.08.1995-08.08.1995						
	15.09.1995						
	25.07.1995-27.07.1995						
	09.08.1995-13.08.1995						
	15.09.1995-25.09.1995						
	14.09.1995						
	28.09.1995-04.10.1995						
<b>Total</b>							
<b>Drilling Length</b>	1100.00	Overburden	6.00				
<b>Length Planned</b>	-247.13	Core Length	720.00				
<b>Increase/Decrease</b>		Core					
<b>Length Drilled</b>	852.87	Recovery	99.14				
<b>(W/C Drilling)</b>	128.00		100.00-200.00				
<b>(Core Drilling)</b>	728.87		200.00-300.00				
<b>Working Hours</b>							
Drilling	491.00		37.91				
Other Working	414.00		31.71				
Reaming	91.00		6.37				
Support	6.00		76.29				
Reassembly	48.00		3.52				
Dismantment	50.00		2.36				
Fluid Supply	188.50		14.52				
Fluid Construction	0.00		0.00				
Transportation	44.00		3.31				
<b>Grand Total</b>	1205.50		100.00				
<b>Drilling Rate</b>							
(m)	33.00		3.87				
(ft)	95.00		11.14				
(m)	174.00		20.40				
(ft)	572.87		68.28				
<b>Recovery</b>							
(%)	78.28		88.45				
(m)	782.87		88.45				
(ft)	2571.31		290.35				
<b>Core Recovery</b>							
(%)	88.45		95.07				
(m)	88.45		95.07				
(ft)	290.35		312.76				
<b>Drilling Length / Each Bit (m)</b>							
21mm	36.00		4.38				
17mm	48.00		6.14				
11mm	180.00		23.01				
HW	180.00		23.01				
BT	0.00		0.00				
<b>Drilling Length / Each Bit (ft)</b>							
21mm	114.83		14.07				
17mm	151.18		19.57				
11mm	572.87		76.40				
HW	572.87		76.40				
BT	0.00		0.00				
<b>Recovery</b>							
(%)	78.28		88.45				
(m)	782.87		88.45				
(ft)	2571.31		290.35				
<b>Core Recovery</b>							
(%)	88.45		95.07				
(m)	88.45		95.07				
(ft)	290.35		312.76				

### 3. Results of Microscopic Observation of Thin Sections

Sample No.	Locality Depth(m)	Formation	Rock Name	Phenocryst/ Crystal Fragment																	Texture				
				Qz	Kf	Pl	Ca	Do	Bi	Mc	Tb	Sr	Ti	Tl	Ap	Sc	Cz	Ab	Cl	Zc		Cs	Op		
S301	UJ2C-3, 121.00	VI	Phyllite	⊙						⊙												Δ	clastic to schistose		
S302	UJ2C-3, 184.00	VIU	Arg-Dolomite	○		⊙		⊙	○	○													○		
S304	UJ2C-3, 232.00	GB	Gabbro(?)			⊙	○		⊙		○	Δ	Δ		Δ								○	euhedral granular	
S305	UJ2C-3, 265.00	VIU	Argillite	⊙		○	○		○	⊙				Δ	Δ									Δ	
S306	UJ2C-3, 414.00	VIU	Dolomite	○				⊙		Δ					Δ									Δ	equigranular
S307	UJ2C-3, 544.00	VIU	Argillite	⊙		○	○		⊙															○	
S308	UJ2C-3, 558.30	DCD	Dolomite	○				⊙		○								○	Δ					○	equigranular
S309	UJ2C-3, 590.00	LQ	Metasandstone	⊙	⊙	○	○		○	Δ				Δ										Δ	clastic to granular
S310	UJ2C-3, 625.00	LHQ	Metasandstone	⊙	⊙	○	○		○	Δ				Δ										Δ	clastic to granular
S311	UJ2C-3, 636.20	LGS	Argillite	⊙		○	○		○	⊙			Δ	Δ										○	metamorphosed siltstone
S312	UJ2C-3, 642.00	LGS	Argillite	⊙		○	○		○	⊙			Δ	Δ										○	metamorphosed siltstone
S313	UJ2C-3, 702.00	LIC	Argillite	⊙		○	○		⊙				Δ	Δ									Δ	Δ	
S402	UJ2C-4, 178.00	IV	Green Shale(?)	○				⊙		⊙					○									Δ	
S406	UJ2C-4, 390.00	GB	Metamorph-rock	○				⊙				Δ		Δ	⊙									Δ	

Sample No.	Locality Depth (m)	Formation	Rock Name	Phenocryst/ Crystal Fragment																	Texture				
				Qz	Kf	Pl	Ca	Do	Mg	Bi	Mc	Tb	To	Ti	Ap	Ep	Ch	Zr	Op	Tc					
T-101	UJ2C-1, 633.20	BSG	Granite	⊙	○	○	Δ			○	○		Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	granular	
T-102	UJ2C-1, 645.20	GB	Amphibolite							○	○		○	○	○	○	○	○	○	○	○	○	○	granular to poikilitic	
T-103	UJ2C-1, 648.70	BSG	Granite	⊙		⊙				○	○				○	○	○	○	○	○	○	○	○	granular	
T-501	UJ2C-5, 716.00	VIU	Magnesite-talc rock						⊙	Δ	○			○	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	⊙	equigranular	
T-502	UJ2C-5, 879.00	VIU	Argillaceous Quartzite	⊙	○	○	○			○	Δ													clastic	
T-601	UJ2C-6, 784.80	VIU	Dolomite	○				⊙		○														equigranular	
T-602	UJ2C-6, 828.80	VIU	Metasandstone	⊙	○	○	Δ			○	○													clastic to granular	
T-603	UJ2C-6, 1010.70	BSG	Granite	⊙	Δ	○	Δ			○	○				Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	granular	
T-701	UJ2C-7, 909.50	LRI	Metasandstone	⊙	○	○	Δ			Δ	Δ				Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	clastic to granular	
T-702	UJ2C-7, 954.00	LPC	Argillite	○		Δ	Δ			⊙														Δ	

Sample No.	Locality Depth(m)	Formation	Rock Name	Phenocryst/ Crystal Fragment																	Texture			
				Qz	Kf	Pl	Ca	Arh	Bi	Mc	Rut	To	Ti	Ap	Ep	Ch	Zr	Op	All	others				
T901	UJ2C-9, 1132.50	LFO	anh rock	Δ	○	Δ		⊙	○															granular
T902	UJ2C-9, 1144.00	LFO	meta-ss	⊙			○	⊙	⊙	Δ														granular
T1001	UJ2C-10, 1007.30	LFO	Bi schist	⊙				○	⊙	○			Δ											schistose
T1101	UJ2C-11, 827.00	BSG	metagranite	⊙	⊙	⊙			Δ	○														granular
T1102	UJ2C-11, 852.80	BSG	metagranite	⊙	⊙	⊙	Δ		○	○														granular
T1201	UJ2C-12, 701.20	LIC	meta-ss	⊙	⊙	○			⊙	○														granular
T1202	UJ2C-12, 723.50	LIC	Bi-Ch rock	Δ	○			○	⊙														⊙	schistose
T1203	UJ2C-12, 732.00	LIC	mica schist	⊙					○	⊙														schistose
T1204	UJ2C-12, 750.00	LQ	meta-ss	⊙		⊙		○																granular
T1205	UJ2C-12, 782.00	BSG	metagranite	⊙	⊙	⊙	Δ			⊙														granular

#### Abbreviations

Abundance of minerals: ⊙: abundant, ○: common, Δ: a few, ∙: trace

Rock: ss: Sandstone, Cal: Calcareous, Arg: Argillaceous, Metamorph: Metamorphosed

Mineral: Qz: Quartz, Kf: Alkali feldspar, Pl: Plagioclase, Ca: Carbonate, Arh: Anhydrite, Bi: Biotite, Mc: Muscovite, Rut: Rutile, To/Tl: Tourmaline, Ti: Titanite, Ap: Apatite, Ep: Epidote, Ch/Cl: Chlorite, Zr: Zircon, Op: Opaque minerals, All: Allanite, Ba: Barite, Do: Dolomite, Mg: Magnesite, Tc: Talc, Cs: Celestine

4. Results of Microscopic Observation of Polished Sections

No.	Locality Depth(m)	Forma- tion	Description	Cp	Gn	Bi	La	Co	Py	Xn	Mz	Zr	Th	Br	Sd	Re
P301	MZC-3, 124.00	MW	Py with boudinage	○					⊙	•	•					○
P302	MZC-3, 145.50	MW	Py-quartz vein	△					⊙		•					
P303	MZC-3, 181.00	UJU	Py dot in Do		•				△		•	•				△
P304	MZC-3, 559.70	UCD	Cp bleb in Do	△					△							
P305	MZC-3, 635.50	LOS	fine Py-(bornite) diss.	•					○			•	•	•		•
P306	MZC-3, 636.20	LOS	laminated fine Cp	○					○							•
P307	MZC-3, 637.00	LOS	Cp inc. in Do spot	○					○							
P308	MZC-3, 648.00	LOS	Cp inc. in sil. Do concretion	○					○		•					
P309	MZC-3, 648.50	LOS	Cp Py pyrrhotite veinlet	○				•	•	△						
P402	MZC-4, 262.00	MW	laminated fine Py in Do						○							
P403	MZC-4, 597.50	UIL	Cp inc. in silica spot	△					○							
P404	MZC-4, 588.50	UIL	Cp-Py-mica-Do vein	○					•	•						

Abbreviations:

Abundance of minerals: ⊙ : abundant, ○ : common, △ : small, • : trace

Cp:Chalcopyrite, Gn:Galena, Bi:Bismuthinite, La:Linnaeite, Co:Cobaltite and Cobaltian Pyrite mixture,

Py:Pyrite, Xn: Xenotime, Mz:Monazite, Zr:Zircon, Th:Thorianite, Br:Barite, Sd:Siderite, Re:REE Carbonate,

Do:Dolomite, diss.:dissemination, inc.:included, sil.:siliceous



## 5. Results of Microscopic Observation of Polished Thin Sections (2)

Hole No.	MJZC-1	MJZC-5	MJZC-5	MJZC-6	MJZC-6	MJZC-9	MJZC-9	MJZC-9	MJZC-11	MJZC-12	MJZC-12
Sample No.	P102	P501	P504	P603	P608	P902	P904	P904	P1101	P1204	P1205
wt. %											
S	33.29	32.45	33.43	32.89	33.14	50.32	46.75	39.26	30.94	30.86	40.24
Fe	0.51	6.79	9.24	0.33	3.69	13.32	21.59	2.08	2.52	3.5	0.02
Cu	1.75	0.13	0.19	0.44	10.42	0.07	0	14.32	0	0	14.63
Co	63.28	52.46	51.22	65.94	50.23	35.09	26.21	44.38	63.98	64.07	44.48
Zn	0.14	0.11	nd	nd	0.56	0	0	0	0	0.14	0
As	nd	nd	nd	nd	0.31	0	4.48	0.01	0	0	0
Ni	1.24	7.17	6.49	0.45	0.92	0.4	0.04	0.13	2	1.54	0.37
Total	100.21	99.11	100.57	100.15	99.27	99.21	99.06	100.17	99.44	100.12	99.74
Atom. %											
S	47.80	47.08	47.59	47.45	48.20	65.08	62.05	54.6	45.31	44.95	55.86
Fe	0.42	5.66	7.56	0.27	3.08	9.89	16.45	1.66	2.11	2.93	0.02
Cu	1.27	0.10	0.14	0.32	7.65	0.05	0	10.05	0	0	10.25
Co	49.44	41.41	39.67	51.60	39.75	24.69	18.93	33.58	50.97	50.79	33.6
Zn	0.10	0.08	0.00	0.00	0.40	0	0	0	0	0.1	0
As	0.00	0.00	0.00	0.00	0.19	0	2.55	0	0	0	0
Ni	0.97	5.68	5.05	0.35	0.73	0.28	0.03	0.1	1.6	1.23	0.28
Mineral	Co-Pen	Co-Pen	Co-Pen	Co-Pen	Co-Pen	Cat	Cat	Carr	Co-Pen	Co-Pen	Carr

Mineral; Co-Pen: Cobalt Pentlandite Cat: Callierite Carr: Carrollite

## 6. Results of X-ray Diffraction Analysis

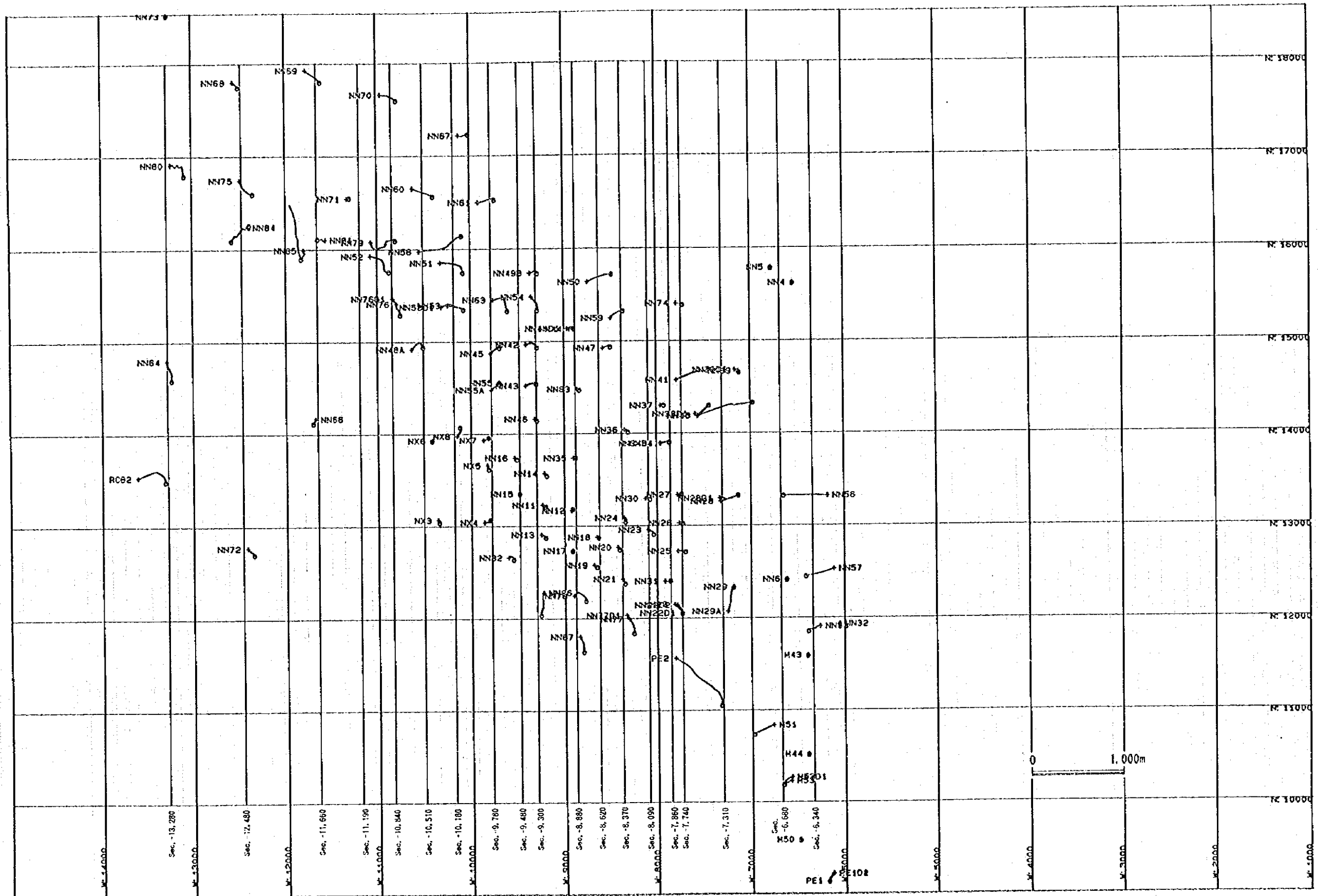
Sample No	Location	Clay Minerals					Silica	Feldspar		Silicates							Carbonates			Sulfates		Sulfides				
		sa	mix	ch	kl	tk	pp	q	pl	or	ov	px	h	mc	bt	ph	gt	ad	arl	ca	dol	mg	ah	gyp	cp	py
XR-391	NJ2C-3	121.00m			▲?	▲		◎	○				◎				▲?									△
XR-302		173.00m					▲?		◎		▲														▲?	
XR-303		177.00m					▲?	◎	◎		▲										◎				△?	
XR-304		184.00m					▲	◎	◎				◎				▲?				◎				▲	
XR-305		193.00m						○	◎				○								◎					
XR-306		215.00m					▲	○	◎		▲?		▲							○	◎					
XR-307		223.00m					▲		○		▲?		○				▲?		◎		○					
XR-308		265.00m					▲	◎	▲				◎			△?	▲?		▲						▲	
XR-309		304.00m						◎	◎				△							▲?	○	◎			△	
XR-310		462.00m					○	◎		▲			◎	○		△?									△	
XR-311		431.00m					▲						△							◎		◎	△			
XR-312		558.00m						▲					▲							◎		◎				
XR-313		590.00m						◎	○	◎			▲							▲	◎					
XR-314		625.00m						◎		◎		▲?		○						▲	△				▲?	
XR-315		647.80m					▲	◎	▲?				◎	△		△?				▲	◎				▲	
XR-316		702.00m						◎	○	○			○									▲?				
XR-401	NJ2C-4	101.00m					▲?	◎	◎				◎	△?	△?										▲	
XR-402		151.00m					▲	○	○				○	▲?						◎					▲?	
XR-403		178.00m	▲					▲	○			◎								○	◎		○			
XR-404		208.00m						▲	▲?	○			▲							◎	○			▲?		
XR-405		248.00m						○	○				△				▲?			○	◎					
XR-406		321.00m	▲?				△	◎	△				◎	△					△	○						
XR-407		375.00m					▲	◎	▲				◎	○								▲?				
XR-408		330.00m						◎	○				◎	○						○						
XR-409		406.00m						◎					◎	○						○					△	
XR-410		448.40m		△	○			◎					◎	○		△?									▲?	
XR-411		470.00m					▲		◎				○	○						◎	○	◎	○			
XR-412		532.00m						○	◎	△			◎	△						○		◎			▲	
XR-413		575.50m						○					◎	○		△				○					▲?	
XR-414		593.00m					▲	○	◎				▲							◎		◎			▲	
XR-415		598.00m					▲	◎					△								○				▲	

Remarks: Intensity of X-Ray Diffraction ; ◎ strong, ○ moderate, △ weak, ▲ very weak

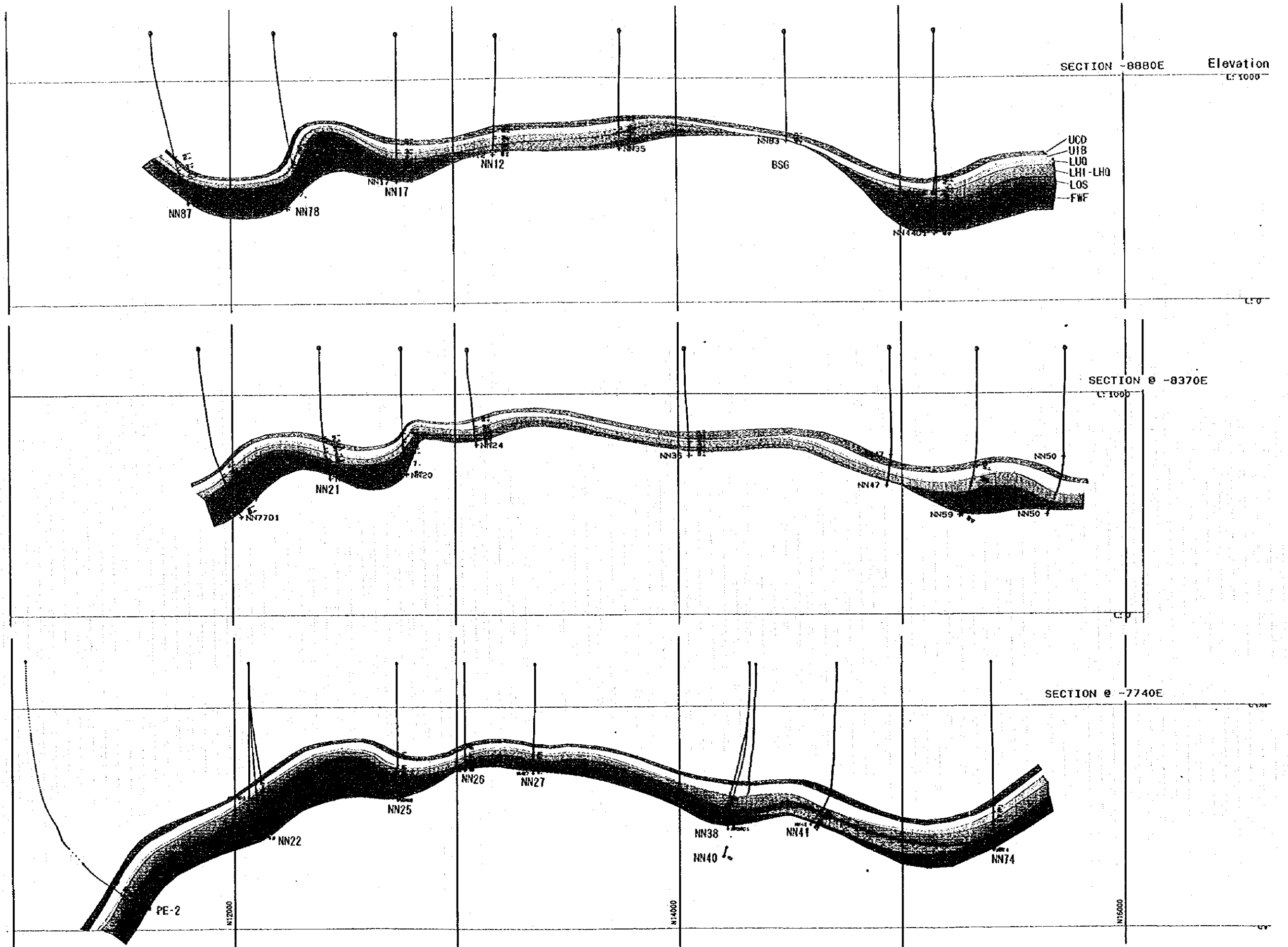
Abbreviations: sa ; saectite    mix ; chlorite-montmorillonite mixed layer clay mineral    ch ; chlorite  
kl ; kaolinite    tk ; talc    pp ; pyrophyllite    q ; quartz    pl ; plagioclase    or ; potash feldspar  
ov ; olivine    px ; pyroxene    h ; amphibole    mc ; muscovite    bt ; biotite    ph ; phlogopite  
gt ; garnet    ad ; andalusite    ca ; calcite    dol ; dolomite    mg ; magnesite    ah ; anhydrite  
gyp ; gypsum    cp ; chalcopyrite    py ; pyrite  
arl ; arialite[(Na, Ca)<sub>2</sub>(Si, Al)<sub>2</sub>(OH)<sub>2</sub>(Cl, CO)<sub>2-3</sub>] or mizzonite[(Na, K)Ca(Si, Al)<sub>2</sub>O<sub>7</sub>Cl] scapolite group



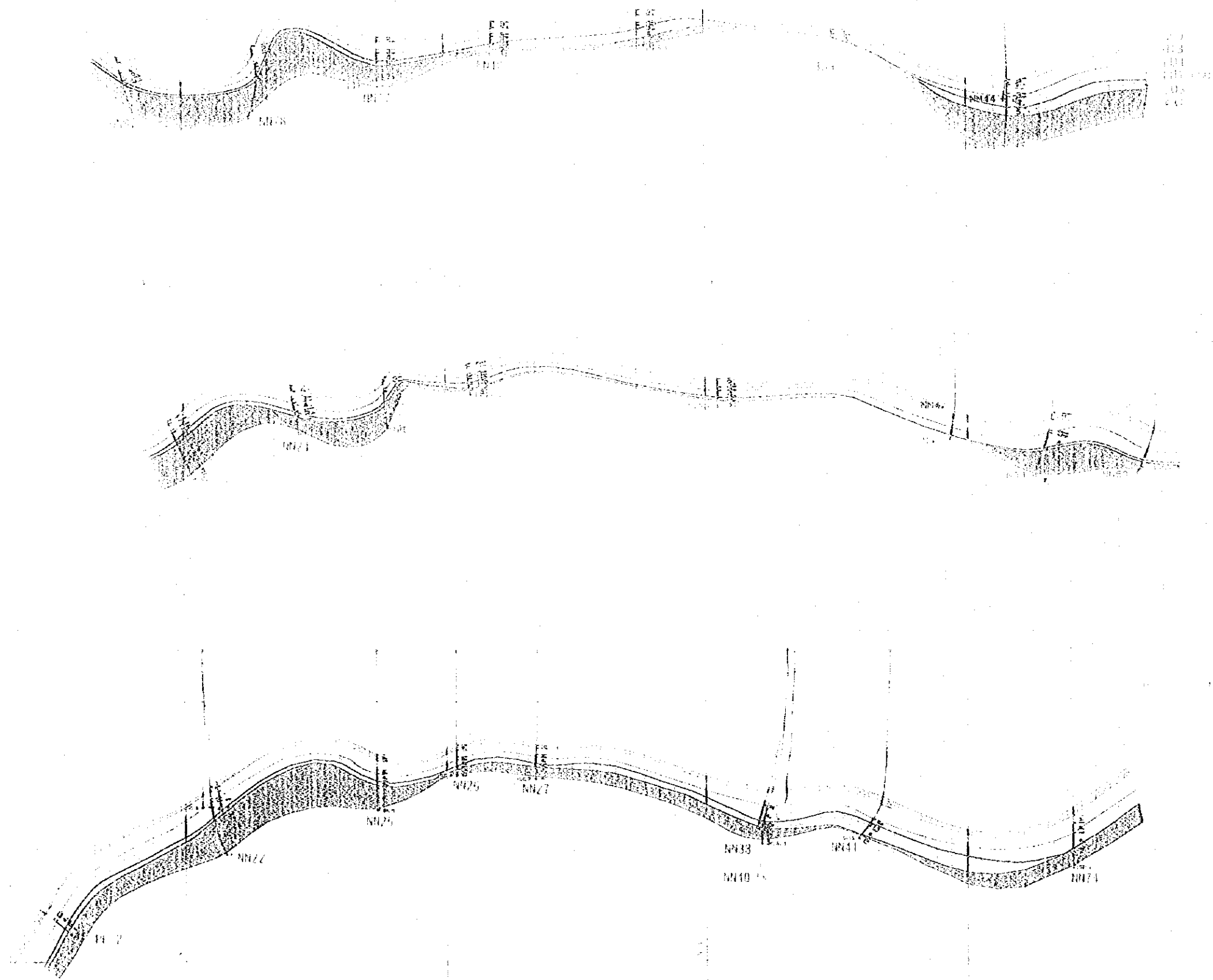


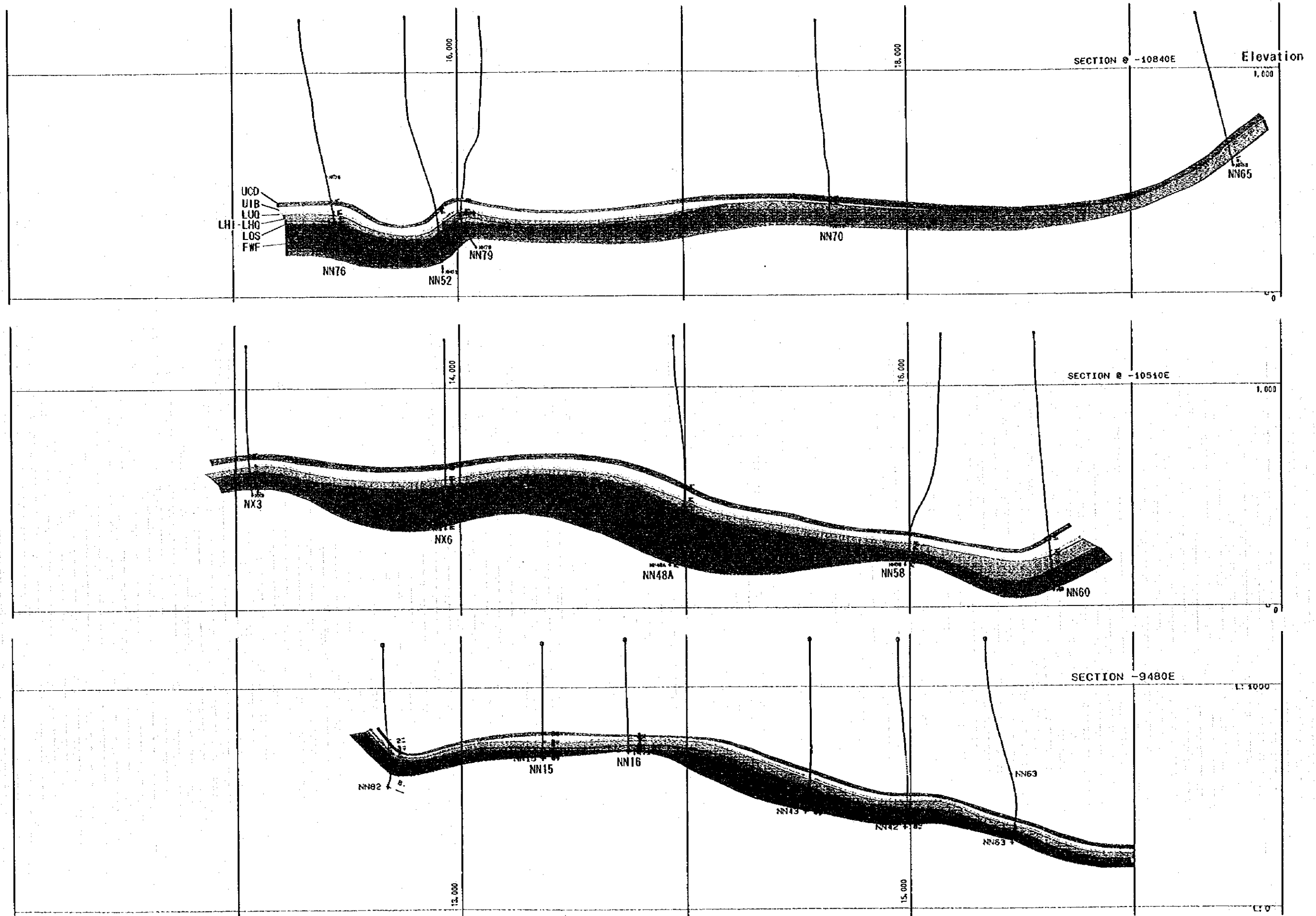


7. Plan of Borehole Collar and Trace with Section Lines

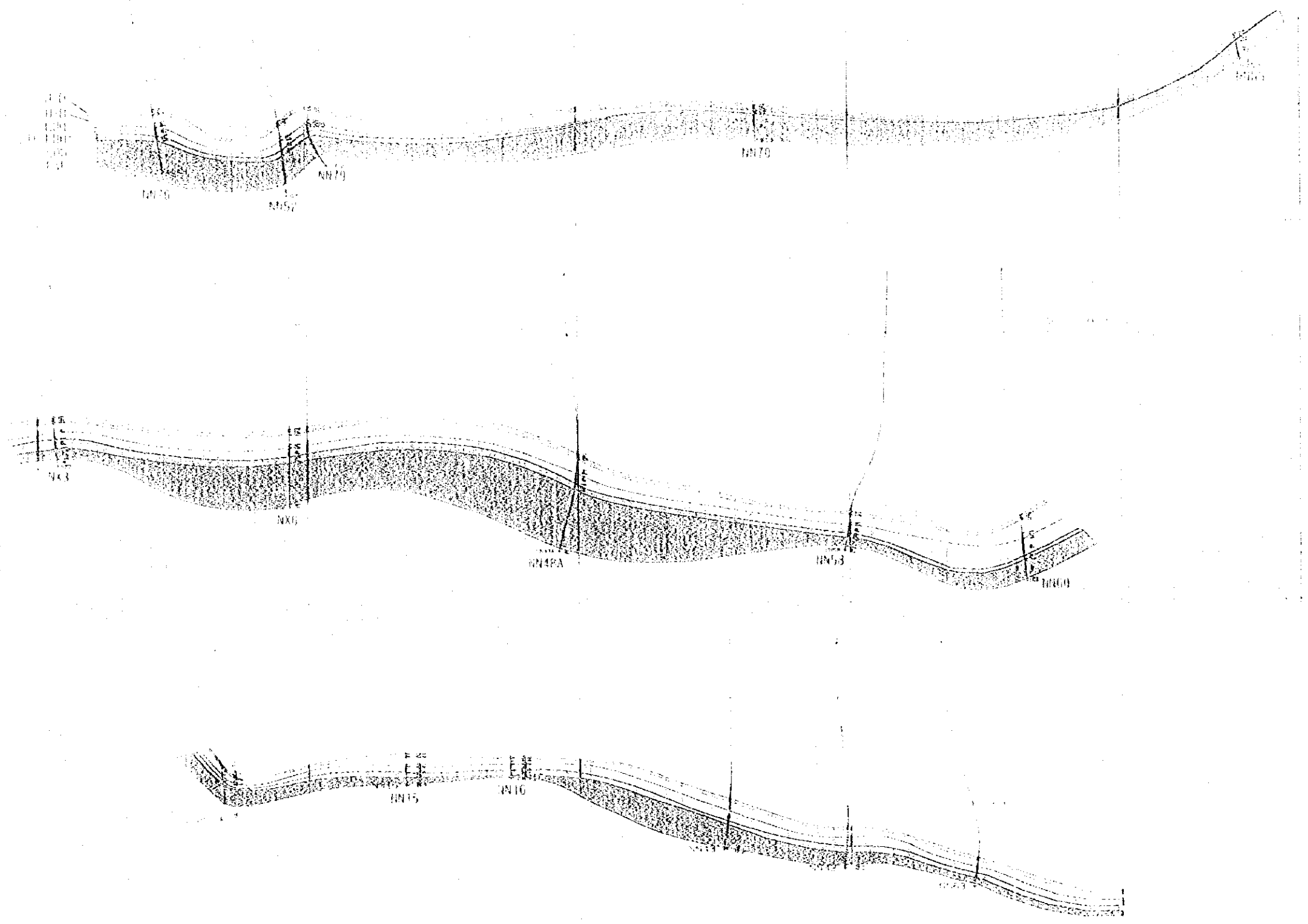


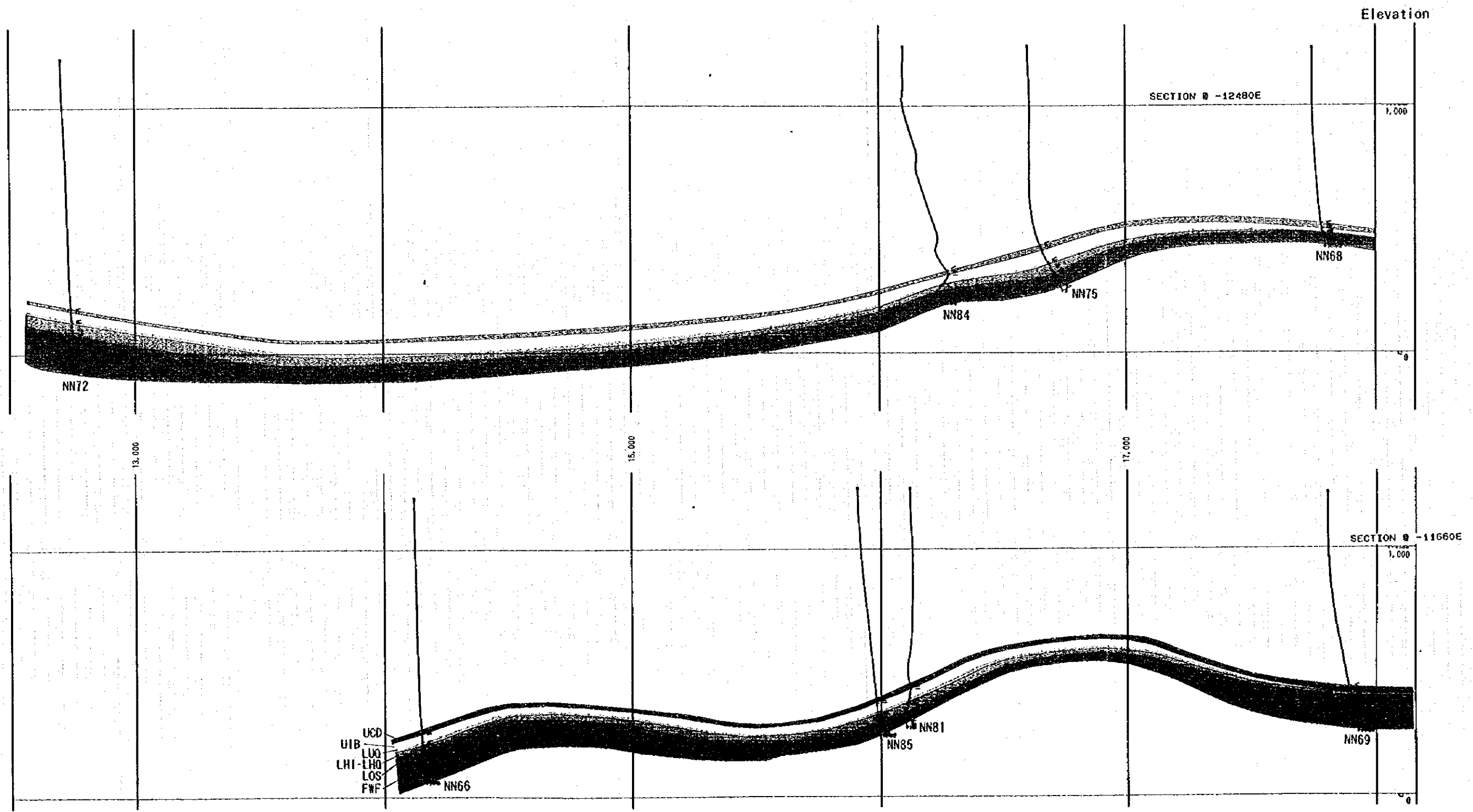
8. Geological Sections by LYNX (1)



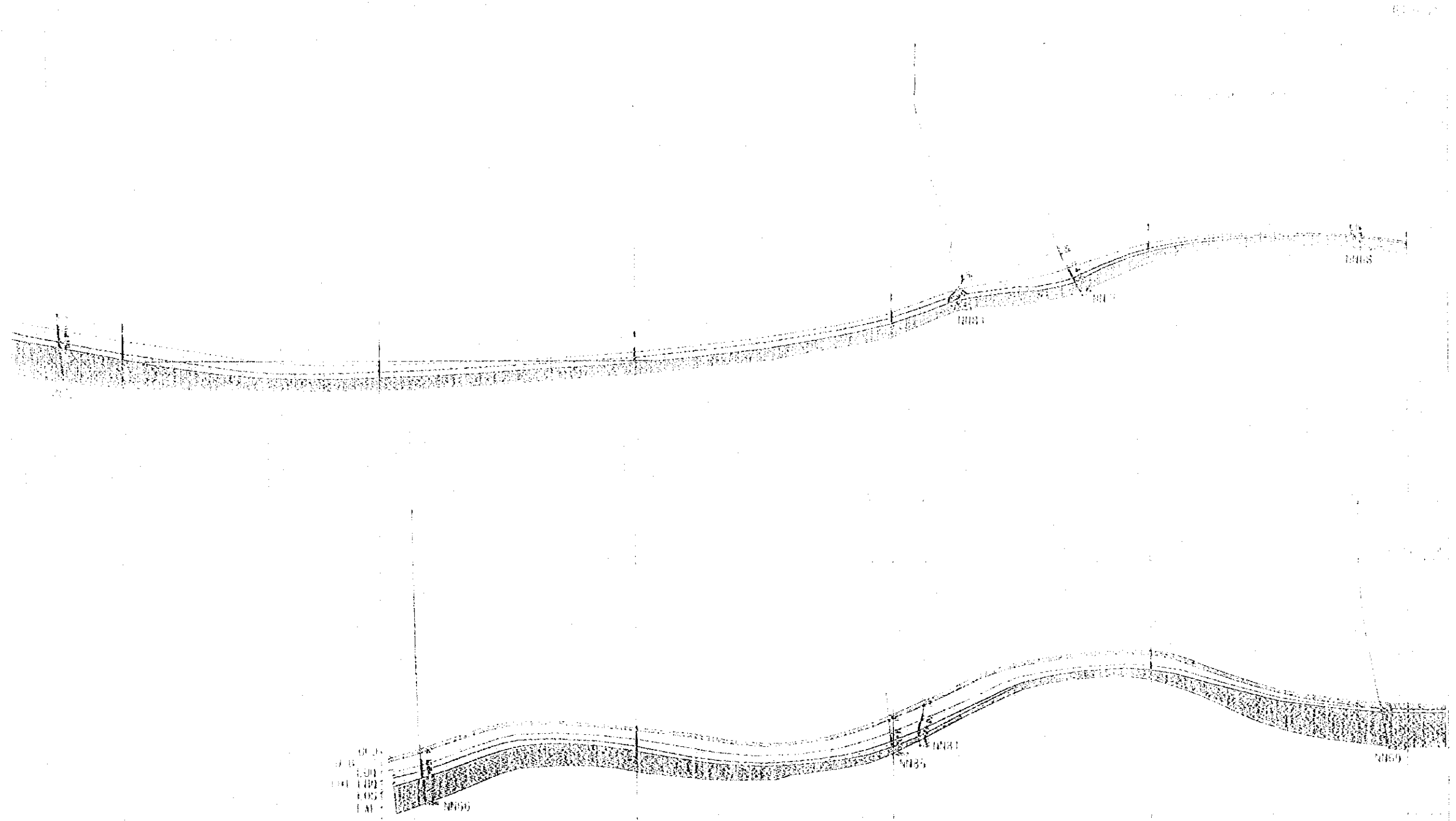


8. Geological Sections by LYNX (2)





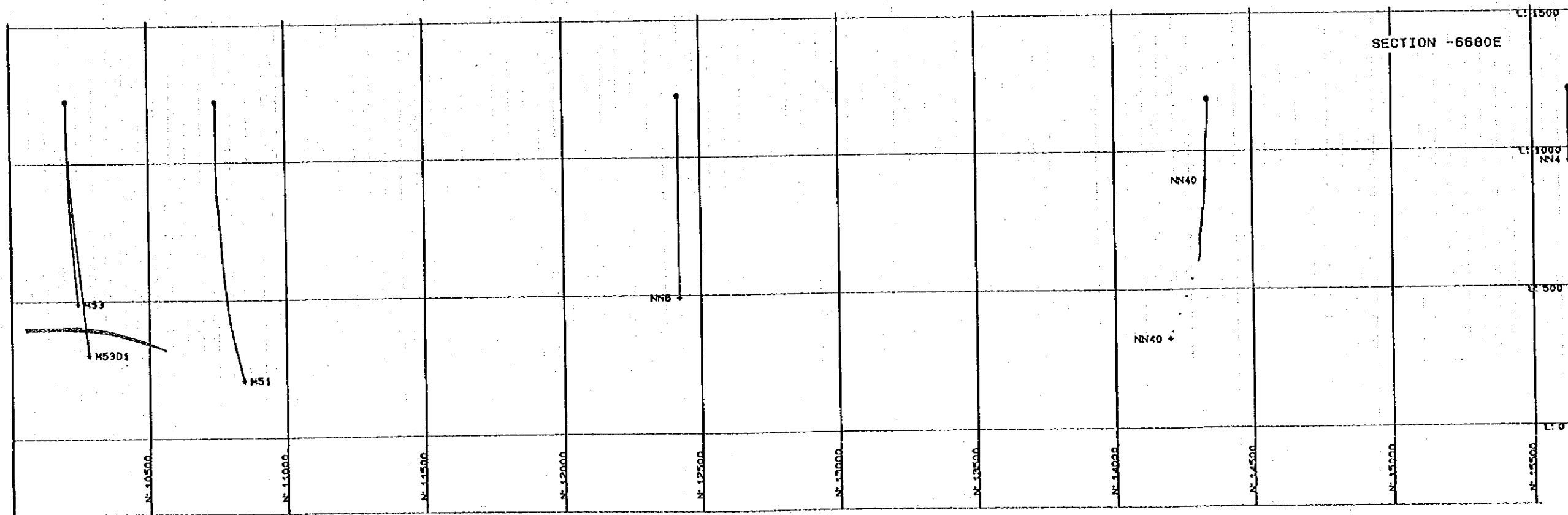
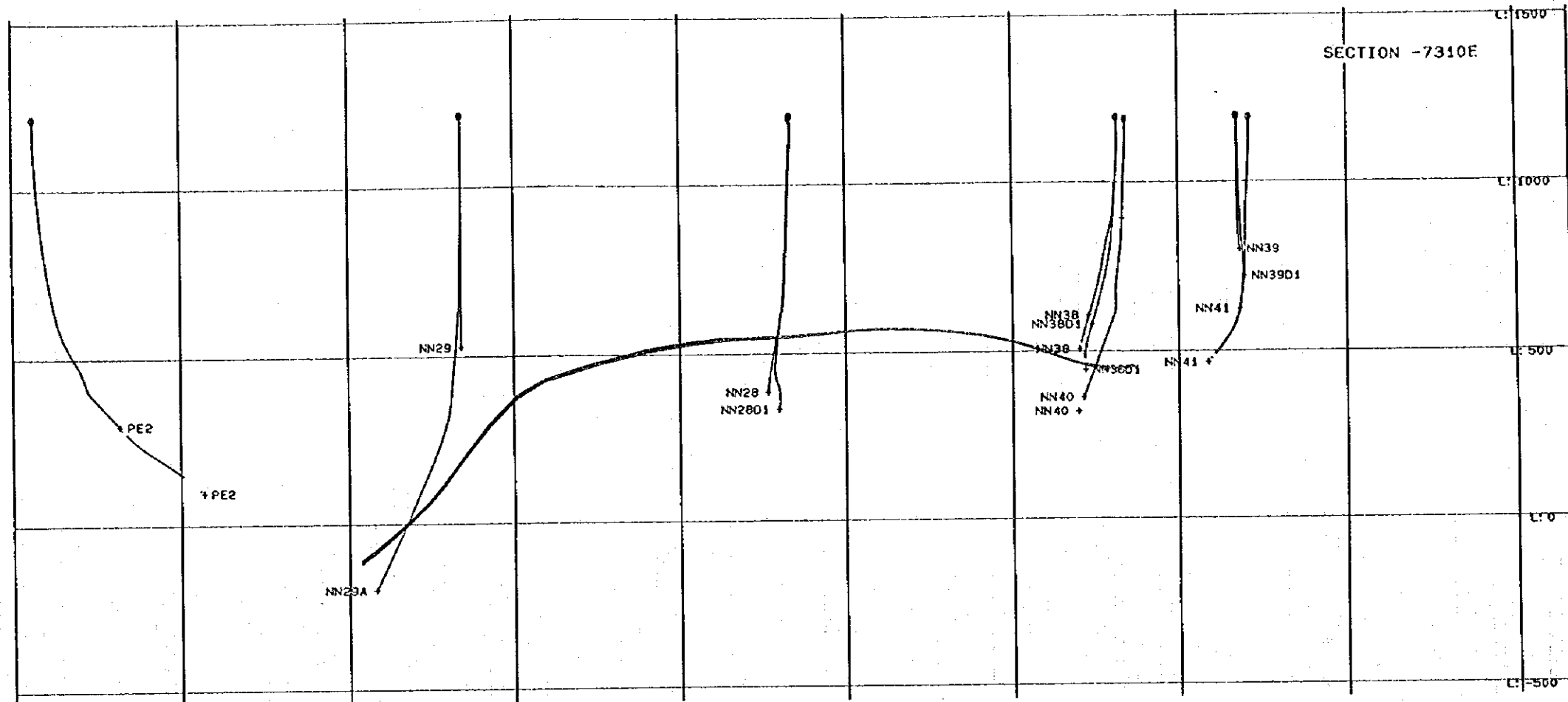
8. Geological Sections by LYNX (3)



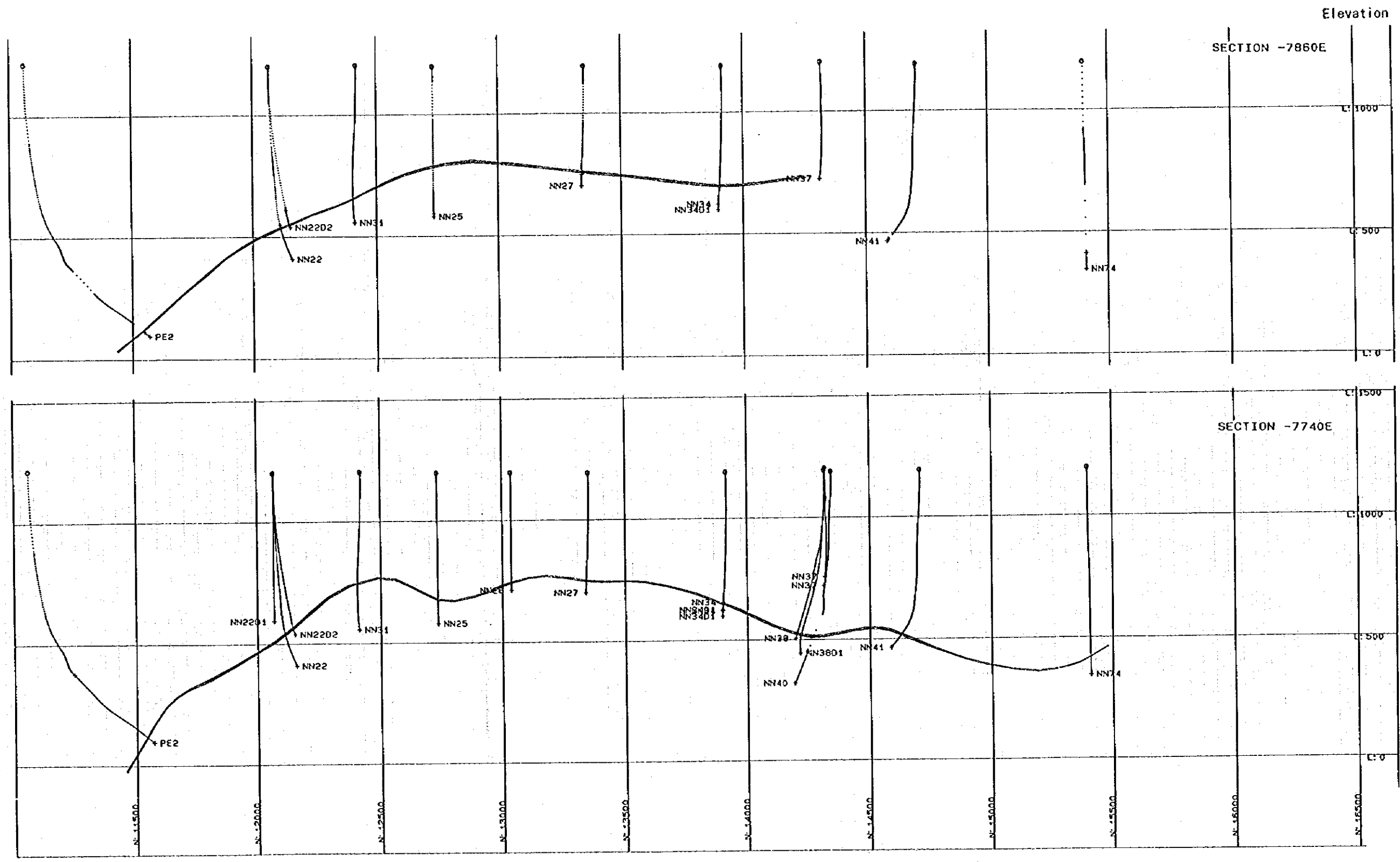
B. Geological Sections by LYIX (3)



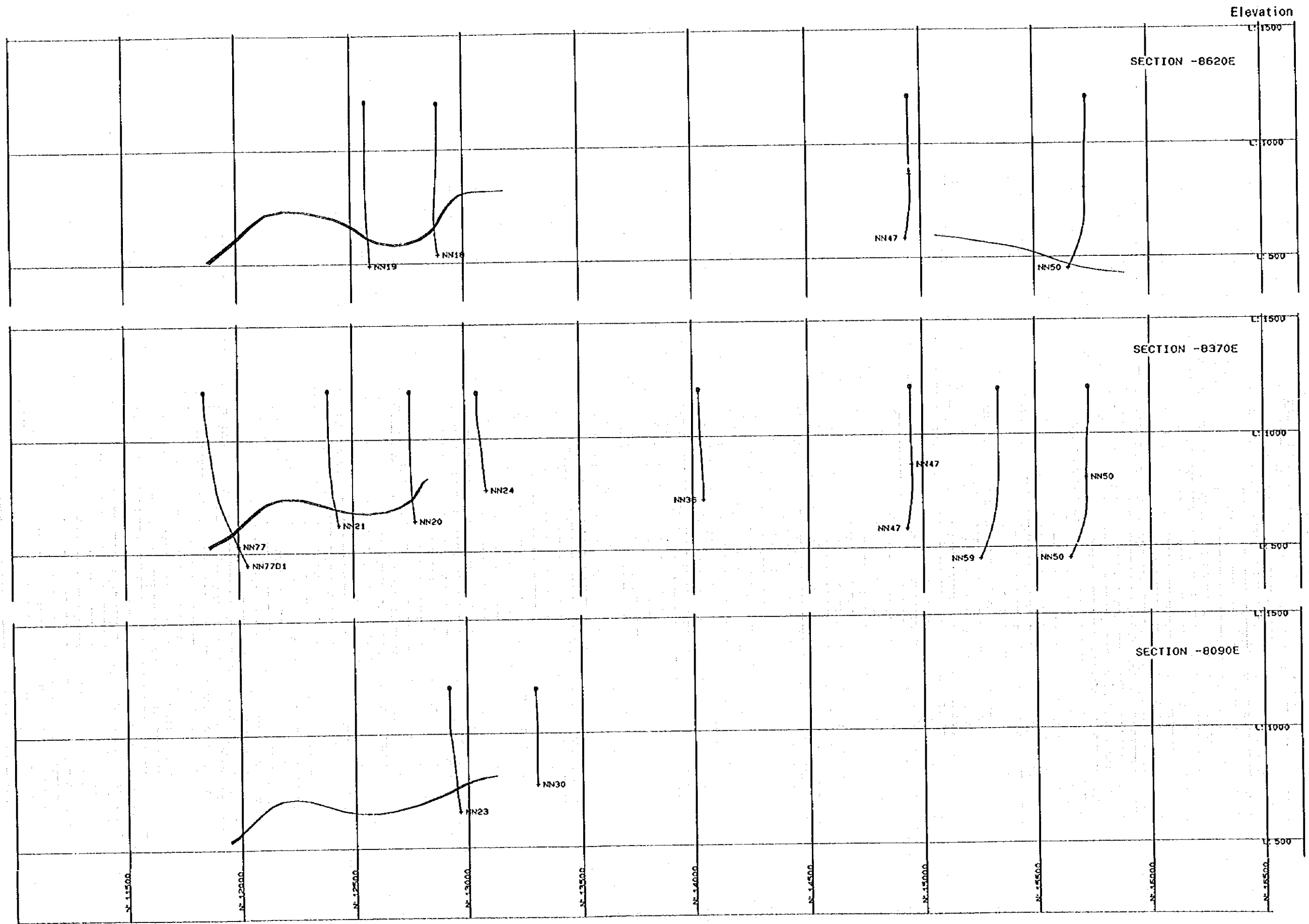
Elevation



9. Orebody Sections by LYNX (1)



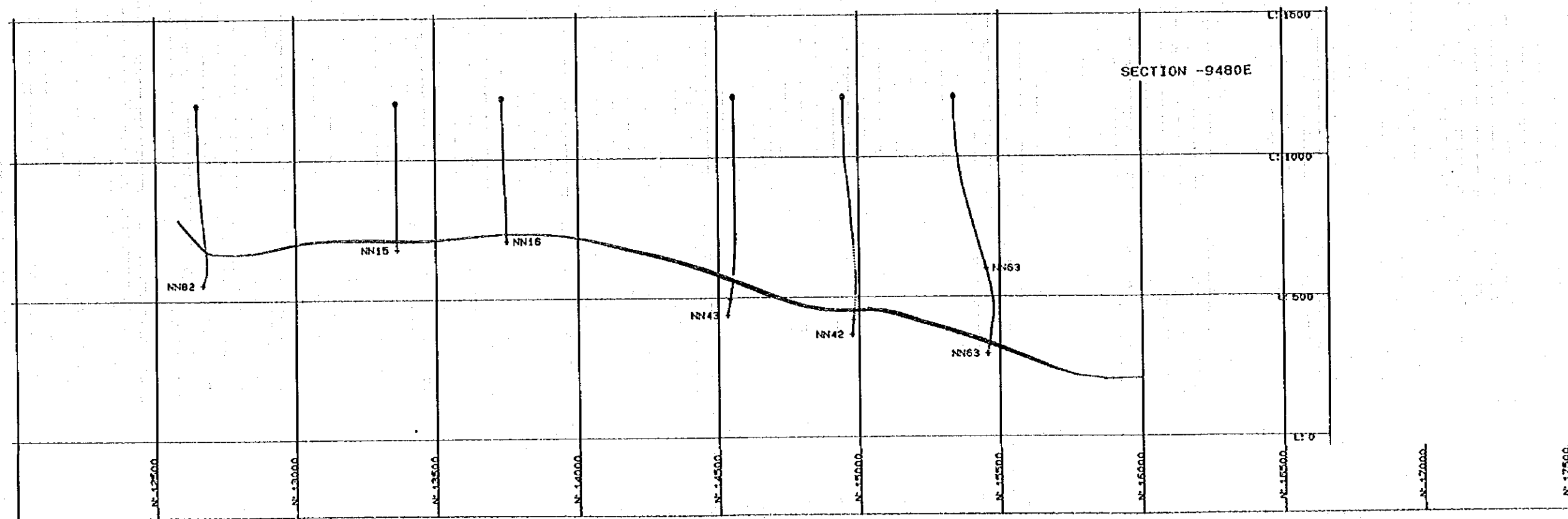
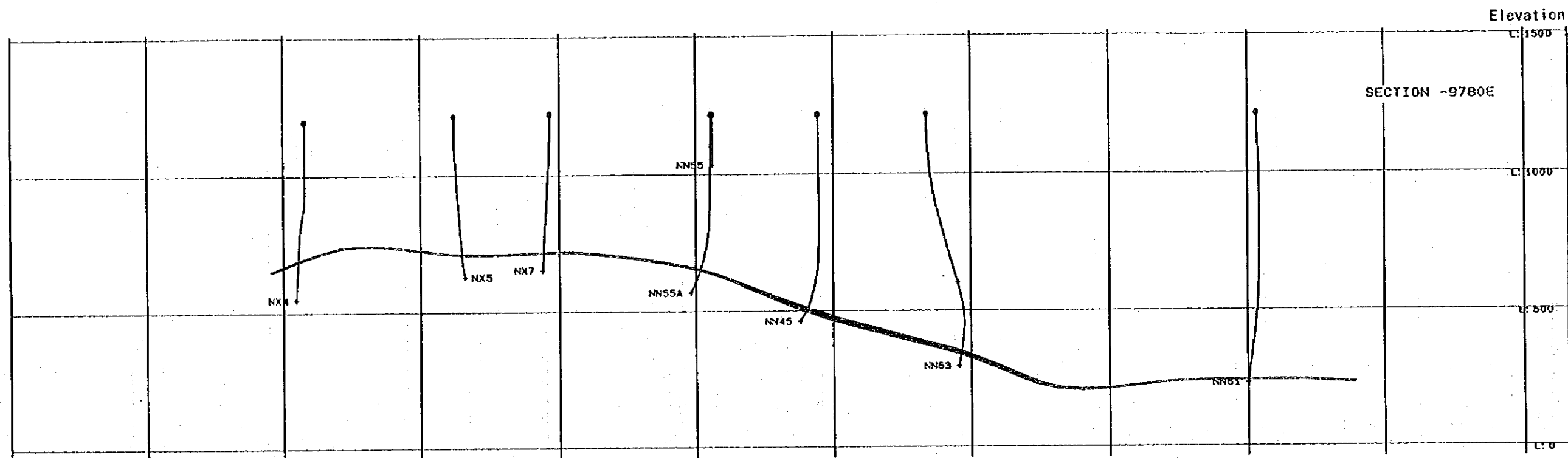
9. Orebody Sections by LYNX (2)



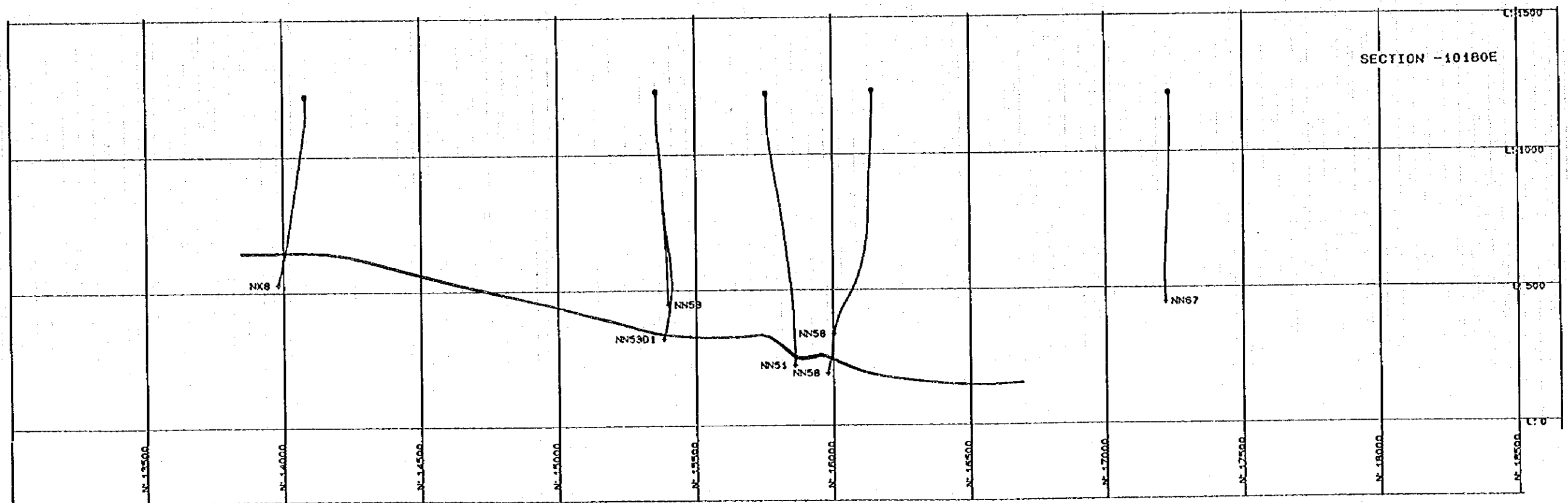
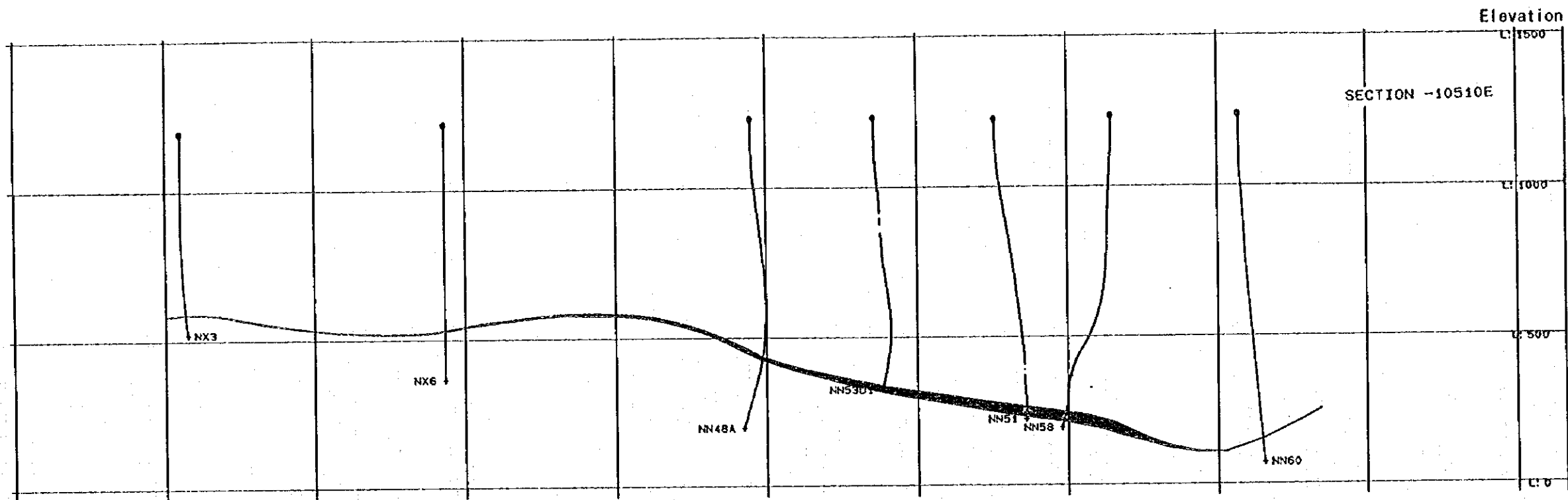
9. Orebody Sections by LYNX (3)



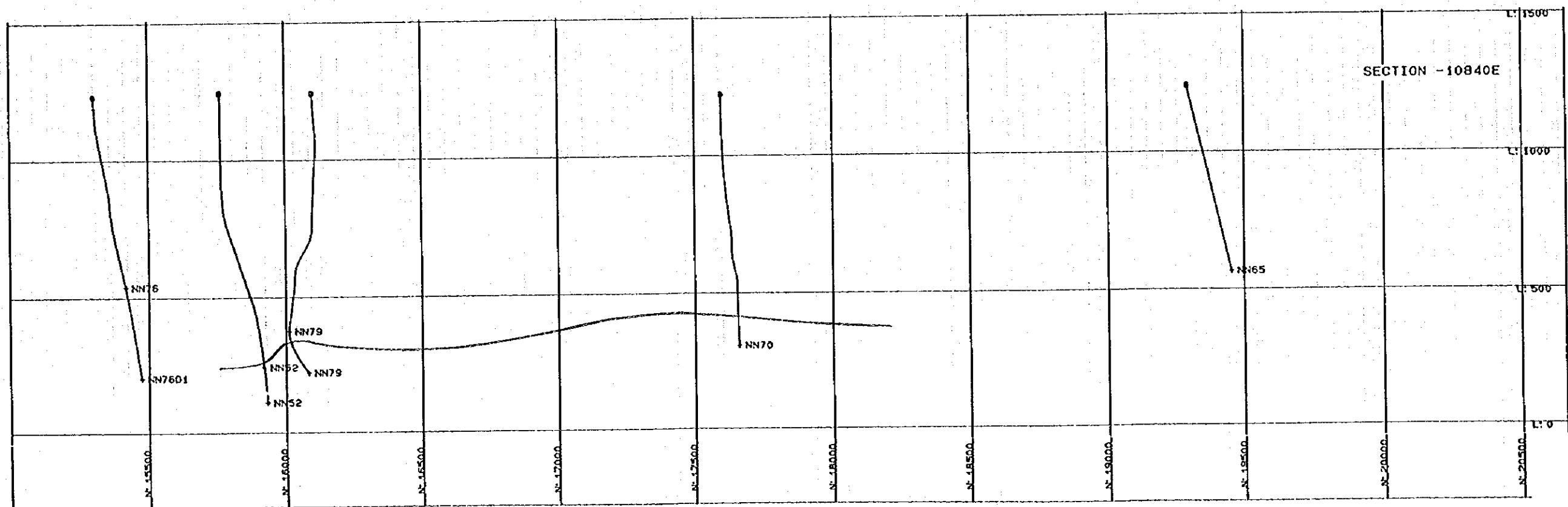
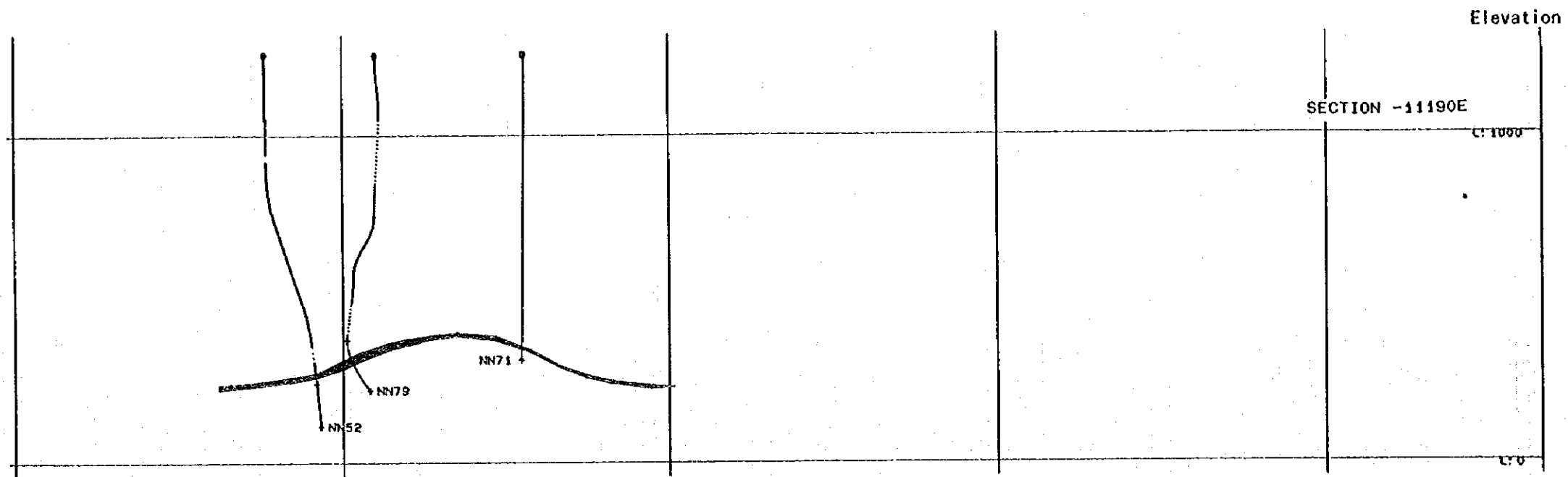
9. Orebody Sections by LYNX (4)



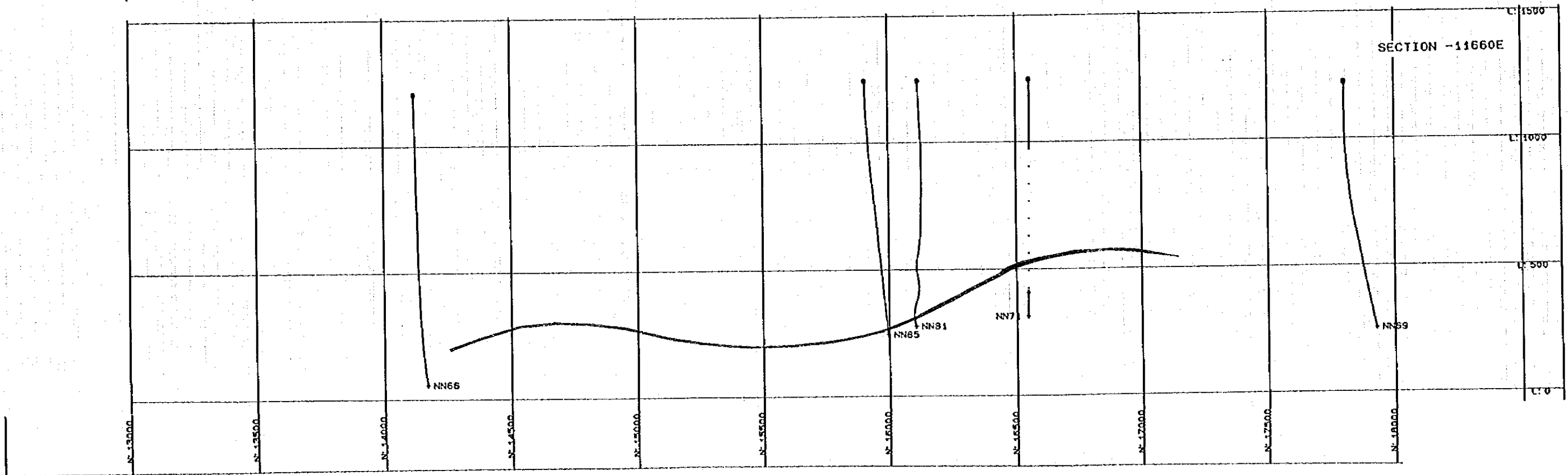
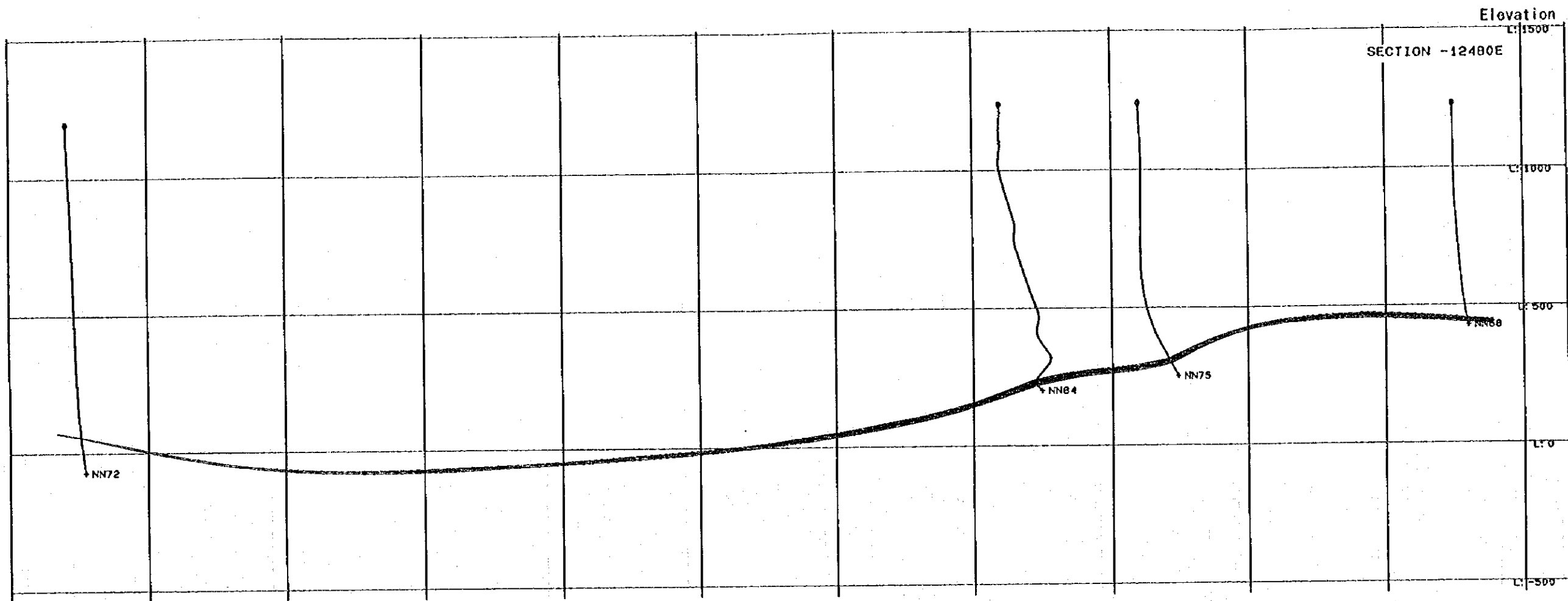
9. Orebody Sections by LYNX (5)



9. Orebody Sections by LYNX (6)



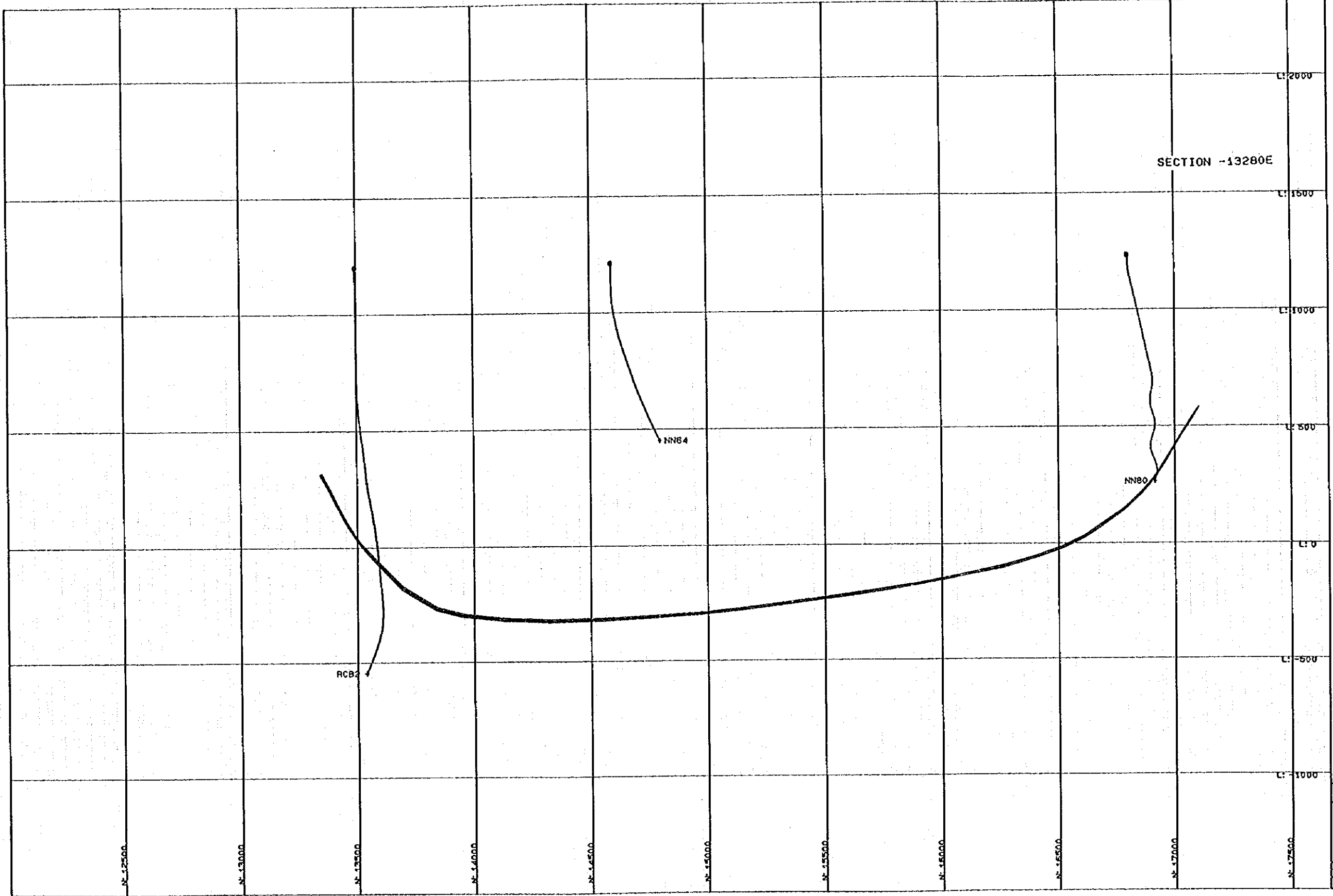
9. Orebody Sections by LYNX (7)



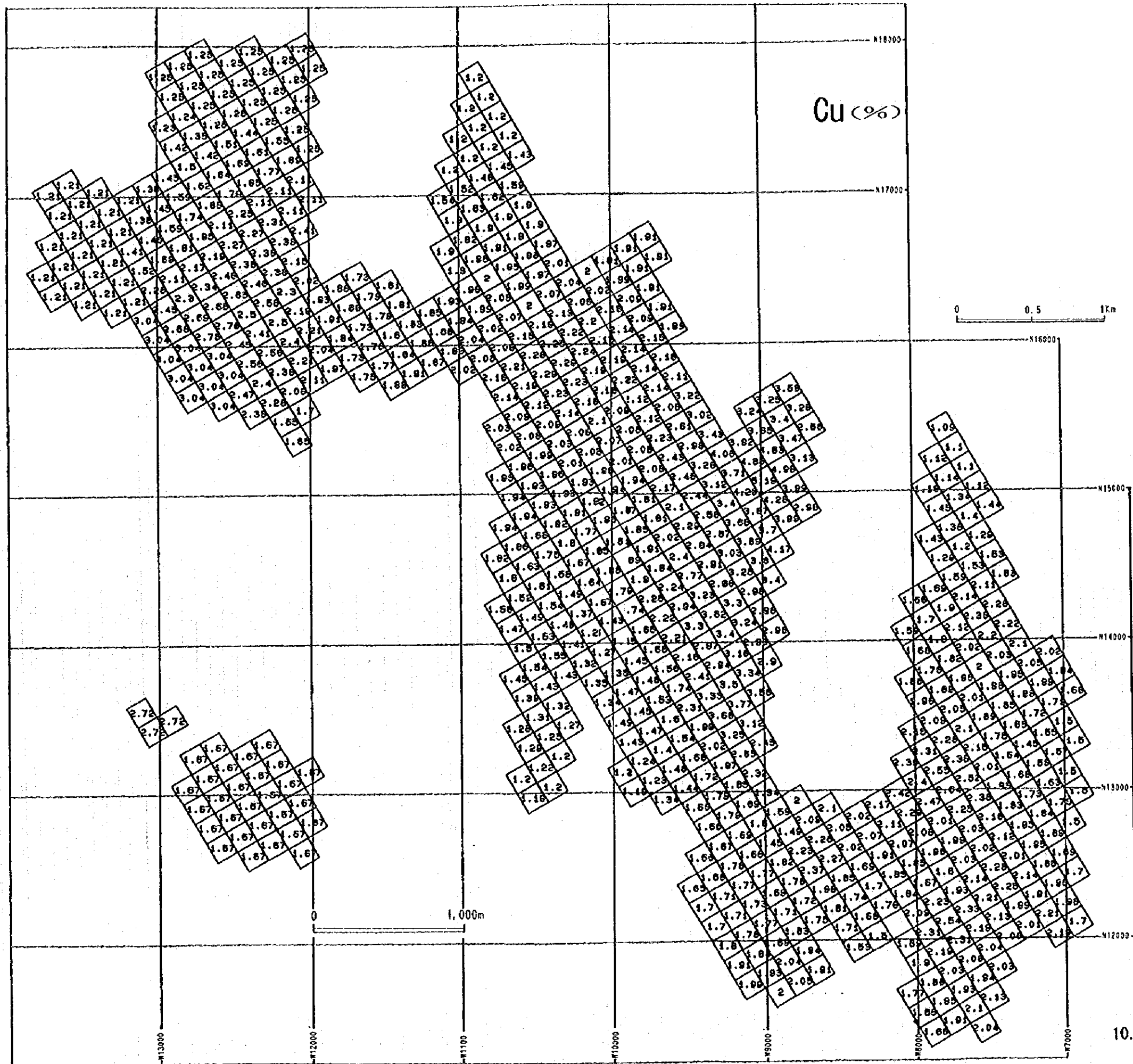
9. Orebody Sections by LYNX (8)



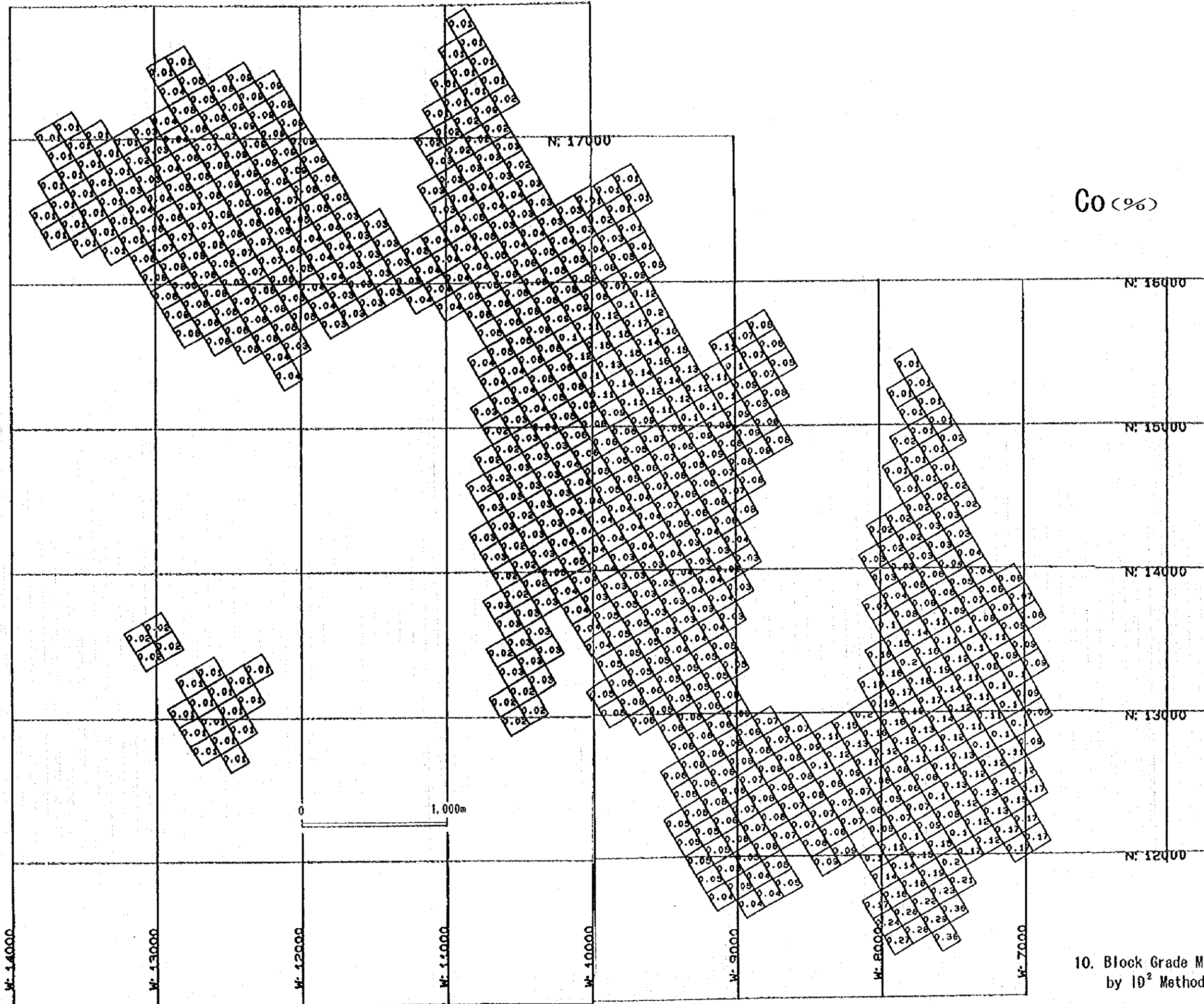
Elevation



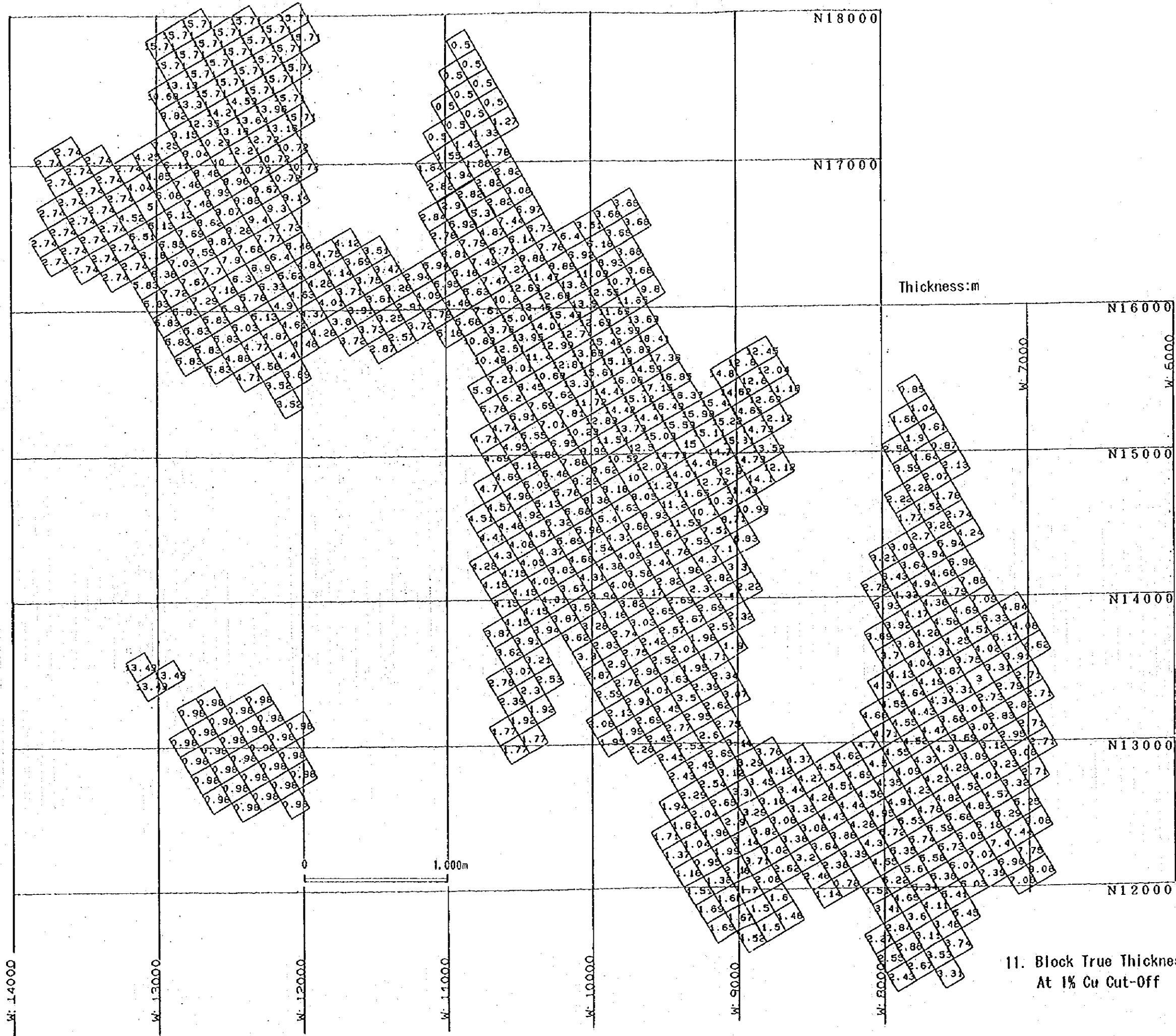
9. Orebody Sections by LYNX (9)



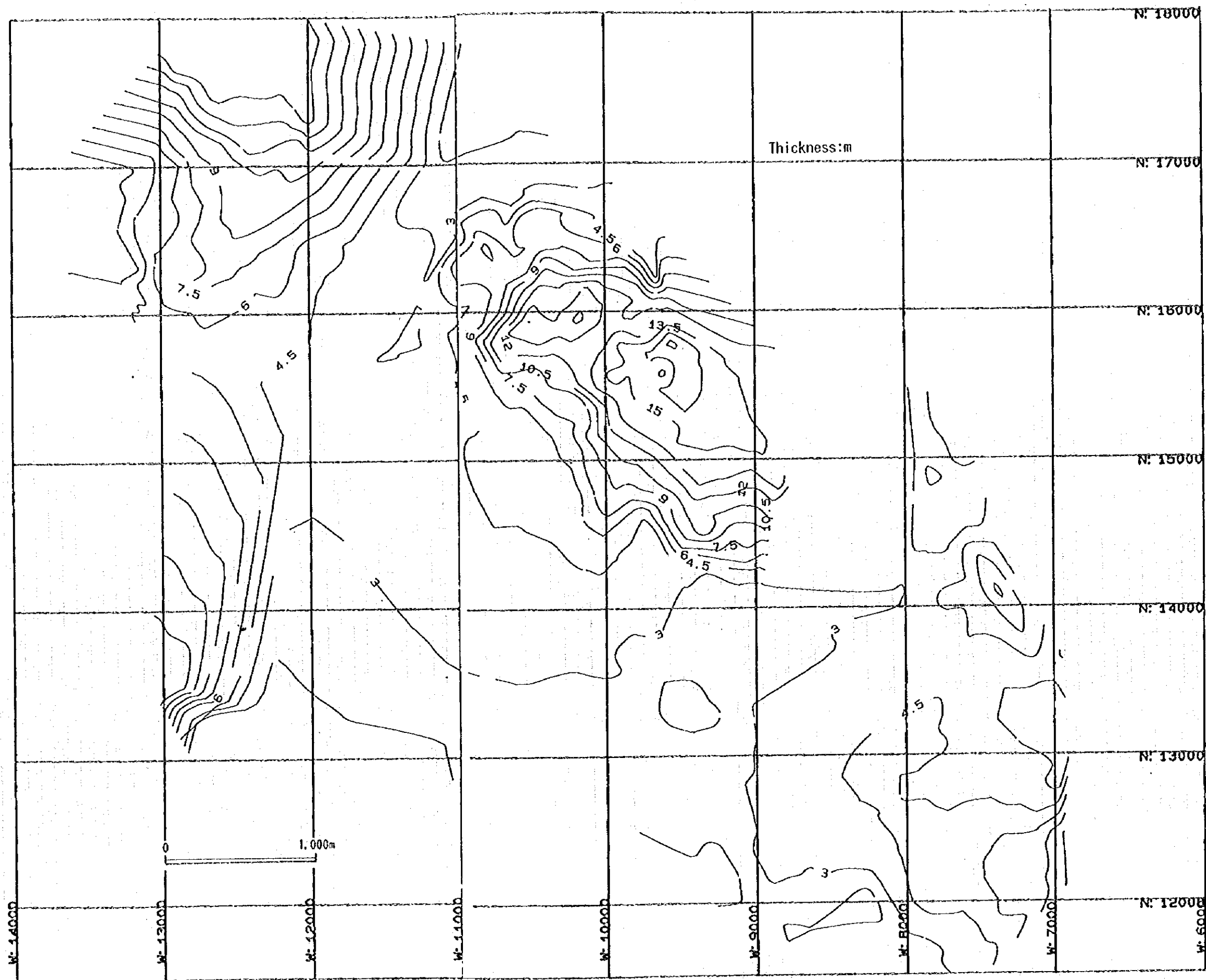
10. Block Grade Model At 1% Cu Cut-Off by ID<sup>2</sup> Method(1)



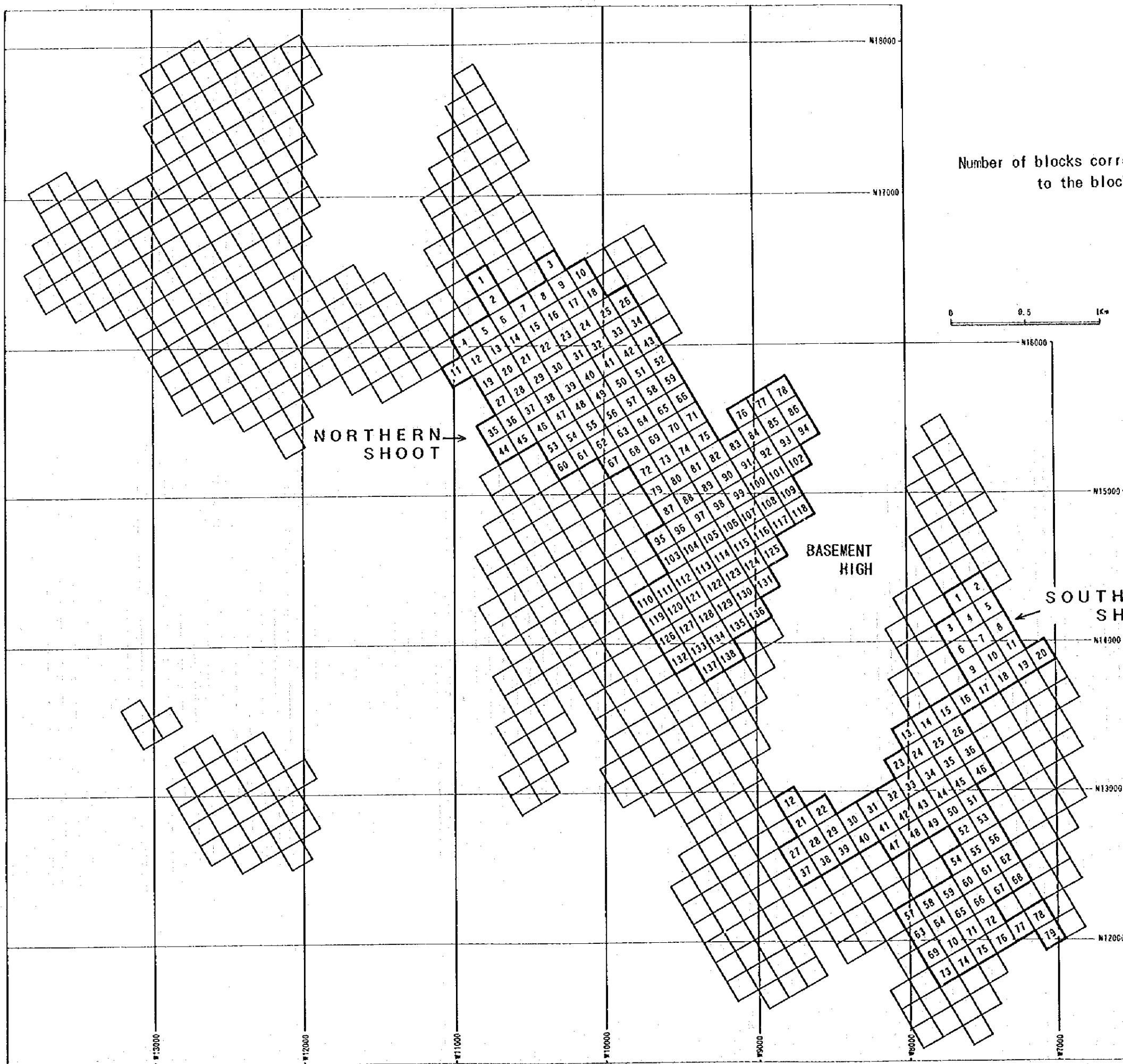
10. Block Grade Model At 1% Cu Cut-Off by  $10^2$  Method(2)



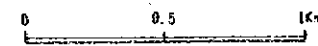
11. Block True Thickness Grids  
At 1% Cu Cut-Off



12. Block True Thickness Contours of Orebody



Number of blocks corresponds to the block No. of table 14



NORTHERN SHOOT

BASEMENT HIGH

SOUTHERN SHOOT

13. Blocks of Potentially Economic Mineralization



14. Grade and Tonnage of Potentially Economic Mineralizati (i)

NORTHERN SHOOT			
Block No	VOLUME GRADE % VOL GR	Block No	VOLUME GRADE % VOL GR
1	29600.7	2	58601.4
2	96047.06	2.05	196896.473
3	54233.37	2.01	10900.9737
4	33265.03	2.04	67860.6612
5	96081.92	2.07	198889.574
6	227143.2	2.07	470186.424
7	213383.2	2	426766.38
8	49950.96	2.07	103398.487
9	10810.02	2.04	22032.4408
10	79676	2	1593.52
11	3454.54	2.02	6978.1708
12	43007.6	2.06	88595.656
13	167698.1	2.08	348812.027
14	352184.7	2.15	757197.084
15	329835.3	2.19	722339.329
16	124431.9	2.13	265039.947
17	38393.97	2.01	77151.7797
18	27545.79	2.02	55642.4958
19	70710.52	2.16	152734.723
20	244306.7	2.21	539917.807
21	838173	2.29	1919416.17
22	311101.2	2.25	699977.678
23	185252.3	2.22	411260.106
24	76727.78	2.23	172637.393
25	55368.99	2.16	119597.018
26	72417.16	2.09	151351.864
27	110734.3	2.14	236971.402
28	304059.3	2.19	653838.839
29	341951.2	2.29	783068.225
30	306706.8	2.29	702358.595
31	185670.1	2.24	415901.002
32	118997.1	2.18	259195.678
33	76694.02	2.14	154125.203
34	65740.53	2.08	137997.708
35	2756.39	2.03	5595.4717
36	181186.3	2.09	378679.367
37	305403.5	2.12	647455.42
38	269613.1	2.23	601237.191
39	226283.9	2.23	504613.119
40	227310.5	2.19	497809.995
41	160009	2.19	350419.71
42	98010.84	2.14	209743.198
43	60152.55	2.15	129327.983
44	41403.5	2.02	83635.07
45	253523.3	2.08	527228.464
46	252732	2.09	528209.88
47	186505.6	2.14	398121.983
48	165778.2	2.18	361396.476
49	239504	2.18	522336.72
50	203959.2	2.22	42789.424
51	114575.7	2.14	245191.998
52	29868.08	2.16	63430.7328
53	210905.2	2.03	428137.556
54	152323.7	2.06	313786.822
55	150745.8	2.1	316566.18
56	229200	2.09	479028
57	248884.4	2.12	527634.949
58	124921.4	2.14	267331.796
59	3240.59	2.11	6837.6449
60	130690.6	2.01	262688.106
61	129469.1	2.05	265411.655
62	161356.9	2.07	334072.944
63	220450.3	2.06	454127.618
64	291286.5	2.12	617463.78
65	156748.7	2.08	326037.296
66	17556.33	3.22	56662.1146
67	183425.9	2.01	386986.079
68	215372.1	2.06	443666.505
69	218955.6	2.23	48270.966
70	154471	2.61	403169.31
71	21313.87	3.02	64383.2894
72	276817.6	2.08	575780.587
73	170973.6	2.43	415465.824
74	90797.77	2.98	270577.355
75	7151.42	3.42	24457.8564
76	357.14	3.24	1157.1336
77	51352.07	3.25	166894.228
78	79581.12	3.58	281320.41
79	271525.3	2.17	589209.923
80	185424.8	2.46	456145.008
81	70853.53	3.28	232398.578
82	40073.02	4.06	162698.461
83	68517.47	3.92	268588.482
84	156805.1	3.85	603699.597
85	371404.1	3.4	1262773.91
86	154024.1	3.28	537999.075
87	154751.8	2.1	324978.78
88	149168	2.44	363969.92
89	168034.9	3.12	524268.919
90	176137.6	3.71	653470.459
91	246098.4	4.86	1196038.27
92	317483.9	4.83	1533350.69
93	280470	3.47	973230.9
94	7271.39	2.66	19341.8874
95	169025	2.02	341430.5
96	113207.2	2.29	259244.488
97	129983.6	2.58	319877.638
98	235169	3.4	798574.6
99	270383.1	4.26	1151874.56
100	291329.2	5.19	1511999.5
101	198084.8	4.98	891442.304
102	58998.17	3.13	184351.272
103	141548.4	2.4	339716.184
104	147633.5	2.84	419279.14
105	130734.8	2.37	375208.876
106	262988.7	3.66	962538.605
107	303215.1	3.87	1173442.4
108	175570.9	4.26	747932.077
109	108107.5	3.99	431348.925
110	76378.69	2.25	171852.053
111	88679.59	2.24	198642.282
112	116694.3	2.77	323243.211
113	193503.1	2.91	553093.992
114	243953.8	3.03	739180.014
115	269991.7	3.89	1050267.87
116	149398.8	3.7	554625.56
117	47000.06	3.99	187530.239
118	18457.42	2.96	54633.9632
119	57024.86	2.22	126595.189
120	71586.42	2.94	210464.075
121	68240.07	3.23	220415.428
122	134427.6	2.86	384462.907
123	243149	3.25	790234.25
124	168787	3.8	641390.6
125	1910.96	4.17	7968.7032
126	41342.2	2.21	91366.262
127	49487.23	3.3	163307.859
128	37393.89	3.62	135365.882
129	141756.4	3.3	467796.153
130	219934.4	2.98	652424.542
131	26718.52	3.4	90846.388
132	25805.97	2.18	56237.0146
133	29736.81	2.97	88318.3257
134	75494.09	3.4	256678.906
135	178878.3	3.24	579565.692
136	90512.11	2.96	267915.846
137	33804.22	2.94	99384.4068
138	134622.5	3.16	425407.1
139	20521878	369.17	55369236.9

ARITH AVGR  
AV GRADE=  
TONNAGE=

2.675145  
2.699034  
54793415



14. Grade and Tonnage of Potentially Economic Mineralizati (2)

SOUTHERN SHOOT

BLOCK NO	VOLUME	GRADE	VOL*GR	BLOCK NO	VOLUME	GRADE	VOL*GR
1	104514.6	2.14	223661.244	49	110786.1	2.01	222700.161
2	81902.59	2.11	172814.465	50	94930.93	2.25	146094.593
3	69978.15	2.12	148353.678	51	59596.74	2.38	141840.241
4	67519.97	2.36	159347.129	52	58994.84	2.03	121789.625
5	8494.82	2.28	19368.1896	53	56917.4	2.18	124079.932
6	73213.62	2.02	147991.512	54	66882.1	2.03	135161.663
7	36375	2.2	80025	55	78675.62	2.02	158924.752
8	2313.24	2.22	5135.3928	56	87484.31	2.12	185466.737
9	59963.47	2	119906.94	57	34251.8	2.09	71596.292
10	14277.44	2.03	28983.2032	58	92798.52	2.23	206940.7
11	460.15	2.1	963.115	59	100712.9	1.93	194375.897
12	7927.8	2	15855.6	60	79026	2.14	169115.04
13	35220.31	2.15	7573.6665	61	87965.32	2.28	200560.93
14	140681	2.09	294023.29	62	91506.14	2.01	183927.341
15	70333.17	2.05	144182.998	63	114751.5	2.31	265075.965
16	65869.57	2.01	132397.836	64	118688.1	2.54	301467.774
17	41084.12	1.98	81346.5576	65	102400.9	2.33	238594.097
18	15608.2	1.95	30435.99	66	112303.1	2.21	248189.851
19	3996.87	2.05	8193.5835	67	112845.9	2.25	253903.275
20	54.68	2.02	110.4536	68	114958.1	2.14	246010.334
21	20765.22	2.09	43399.3088	69	149655.6	2.19	327745.742
22	43402.87	2.1	91146.027	70	110108.4	2.31	254350.404
23	1953.62	2.39	4668.1518	71	123885.5	2.19	271309.245
24	117400.1	2.31	271194.231	72	115046.2	2.13	245048.406
25	116304.9	2.26	262849.074	73	109425.3	2.03	222133.359
26	90565.38	2.1	190187.298	74	108362.6	2.08	225394.208
27	31568.34	2.23	70397.3982	75	100103.9	2.04	204211.956
28	56669.35	2.26	128072.731	76	66070.79	2.06	136105.827
29	85950.92	2.05	176199.386	77	45139.52	2.01	90730.4352
30	52257.74	2.02	105580.635	78	107526.3	2.21	237633.123
31	42776.5	2.17	92825.005	79	4856.48	2.19	10635.9912
32	45344.87	2.42	104894.585				
33	54523.19	2.4	130855.656	TOTAL	5593100	171.49	12223474.8
34	123815.7	2.55	315730.035	ARITH. AVGR		2.170759	
35	74147.05	2.36	174887.038	AV. GRADE =		2.185456	
36	91350.12	2.15	196402.758	TONNAGE =		14933576	
37	38759.38	2.37	91859.7306				
38	55041.02	2.27	124943.115				
39	78480.85	2.02	158531.317				
40	82644.77	2.07	171074.674				
41	71735.02	2.11	151360.892				
42	78696.52	2.29	180215.031				
43	107831	2.47	266342.57				
44	86597.8	2.54	219858.412				
45	76731.44	2.52	193363.239				
46	54102.74	2.01	108746.507				
47	38069.62	2.07	78804.1134				
48	90459.81	2.09	189061.003				

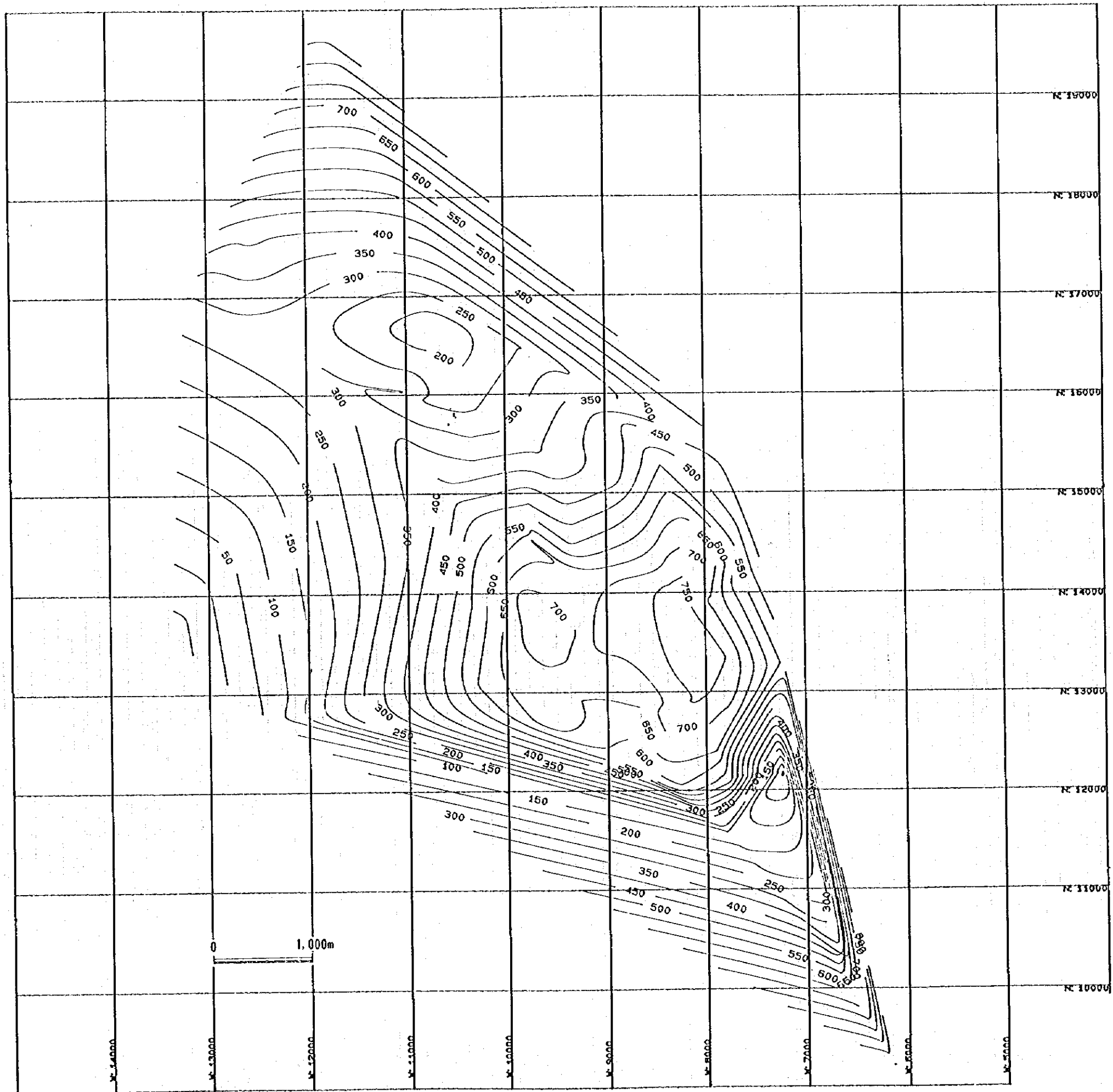


14. Grade and Tonnage of Potentially Economic Mineralizati (4)

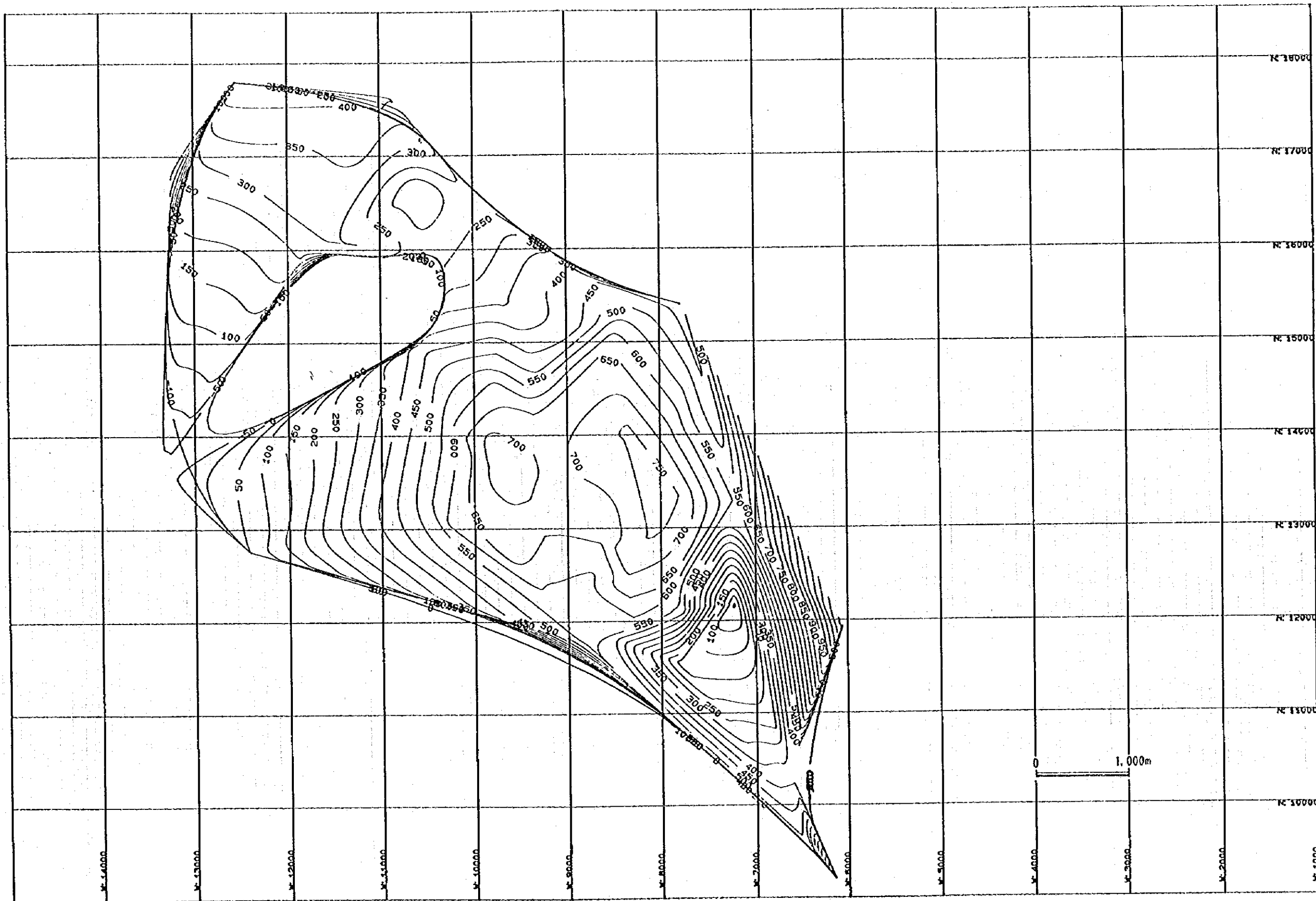
SOUTHERN SHOOT

Block No	VOLUME (m3)	GRADE (%Co)	VOL CoGR (Block No)	VOLUME (m3)	GRADE (%Co)	VOL CoGR (Block No)	VOLUME (m3)	GRADE (%Co)	VOL CoGR (Block No)	VOLUME (m3)	GRADE (%Co)	VOL CoGR (Block No)
1	104914.6	0.03	3135.438	28	56669.35	0.08	4533.548	55	78675.62	0.11	854.318	
2	81902.59	0.03	2457.078	29	85950.92	0.09	7735.583	56	87484.31	0.13	11372.96	
3	69978.15	0.03	2099.345	30	52257.74	0.11	5748.351	57	34251.8	0.08	2740.144	
4	67519.97	0.03	2025.999	31	42776.5	0.15	6416.475	58	92798.52	0.07	6495.896	
5	8494.82	0.03	254.8446	32	43344.87	0.2	8668.974	59	100712.9	0.27	27192.48	
6	73213.62	0.06	4392.917	33	54523.19	0.19	10359.41	60	79026	0.1	7902.6	
7	36375	0.04	1455	34	123815.7	0.17	21048.67	61	87965.32	0.13	11435.49	
8	2313.24	0.04	92.5296	35	74147.05	0.18	13346.47	62	91906.14	0.12	10980.74	
9	59953.47	0.08	4796.278	36	91350.12	0.19	17356.52	63	114751.5	0.11	12622.67	
10	14277.44	0.06	713.872	37	38759.38	0.09	3488.344	64	118688.1	0.1	11868.81	
11	468.15	0.04	18.726	38	55041.02	0.08	4403.282	65	102400.9	0.09	9216.081	
12	7927.8	0.07	554.946	39	78480.85	0.1	7848.085	66	112303.1	0.08	8984.248	
13	35220.31	0.16	5635.25	40	82644.77	0.12	9917.372	67	112845.9	0.12	13541.51	
14	140681	0.15	21102.15	41	71735.02	0.13	9325.553	68	114958.1	0.13	14944.55	
15	70333.17	0.14	9846.644	42	78696.52	0.16	12591.44	69	149655.59	0.14	20851.78	
16	65869.57	0.11	7245.653	43	107831	0.16	17252.96	70	110108.4	0.15	16516.26	
17	41084.12	0.09	3697.571	44	86597.8	0.16	13855.65	71	123885.5	0.15	18592.83	
18	15608.2	0.07	1092.574	45	76731.44	0.17	13044.34	72	115046.2	0.1	11504.62	
19	3996.87	0.06	239.8122	46	54102.74	0.14	7574.394	73	109425.3	0.18	19696.55	
20	54.68	0.06	3.2808	47	39069.62	0.11	4187.658	74	108962.6	0.19	20888.89	
21	20765.22	0.07	1453.565	48	90459.81	0.12	10855.18	75	100103.9	0.2	20020.78	
22	43402.87	0.07	3038.201	49	110796.1	0.12	13295.53	76	66070.79	0.17	11232.03	
23	1953.62	0.16	312.5792	50	64930.93	0.13	9441.021	77	45739.52	0.12	5416.742	
24	117400.1	0.18	21132.02	51	59596.74	0.14	8343.544	78	107526.3	0.17	18279.47	
25	116304.9	0.2	23260.98	52	59994.84	0.11	6599.432	79	4856.48	0.17	825.6016	
26	90565.38	0.16	14490.46	53	59917.4	0.12	6830.088					
27	31568.34	0.08	2525.467	54	66582.1	0.08	5326.568					
TOTALS										5593700	9.27	717035.2
ARITH-AVGR											0.11734177	
AV.GRADE											0.12819997	

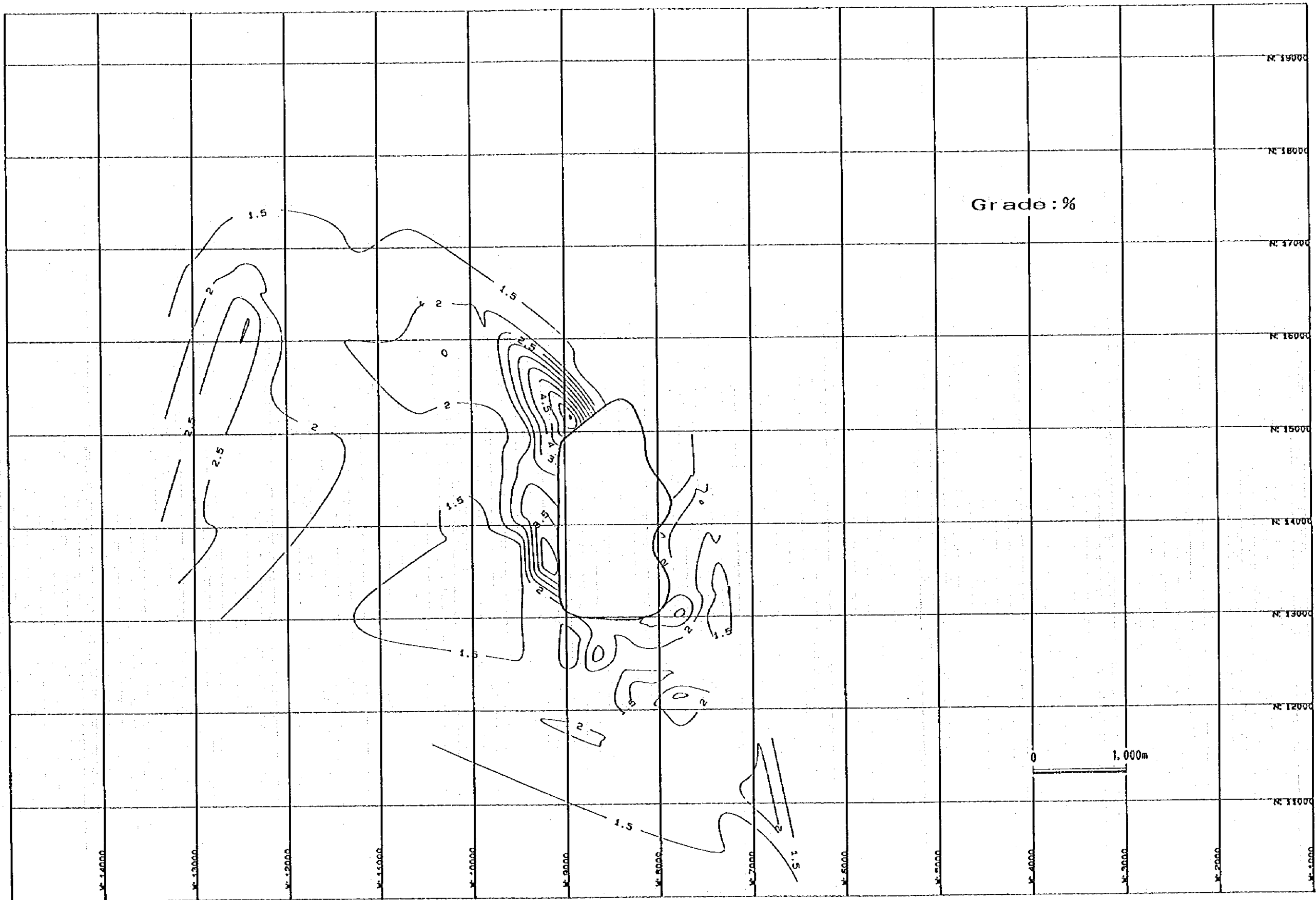




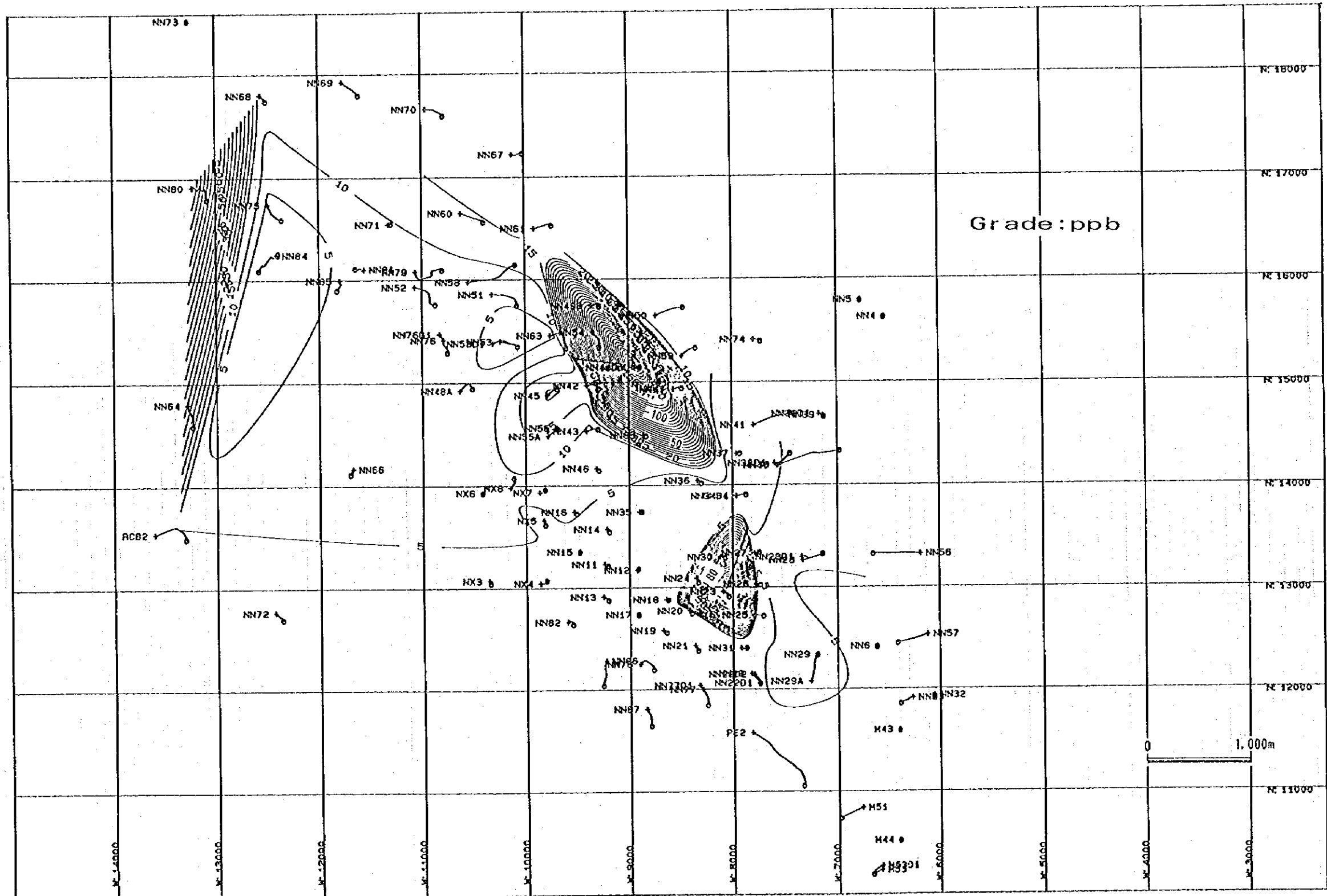
15. Footwall Elevation Contours of 0.5% Cu Mineralization



16. Basement Elevation Contours by LYNX

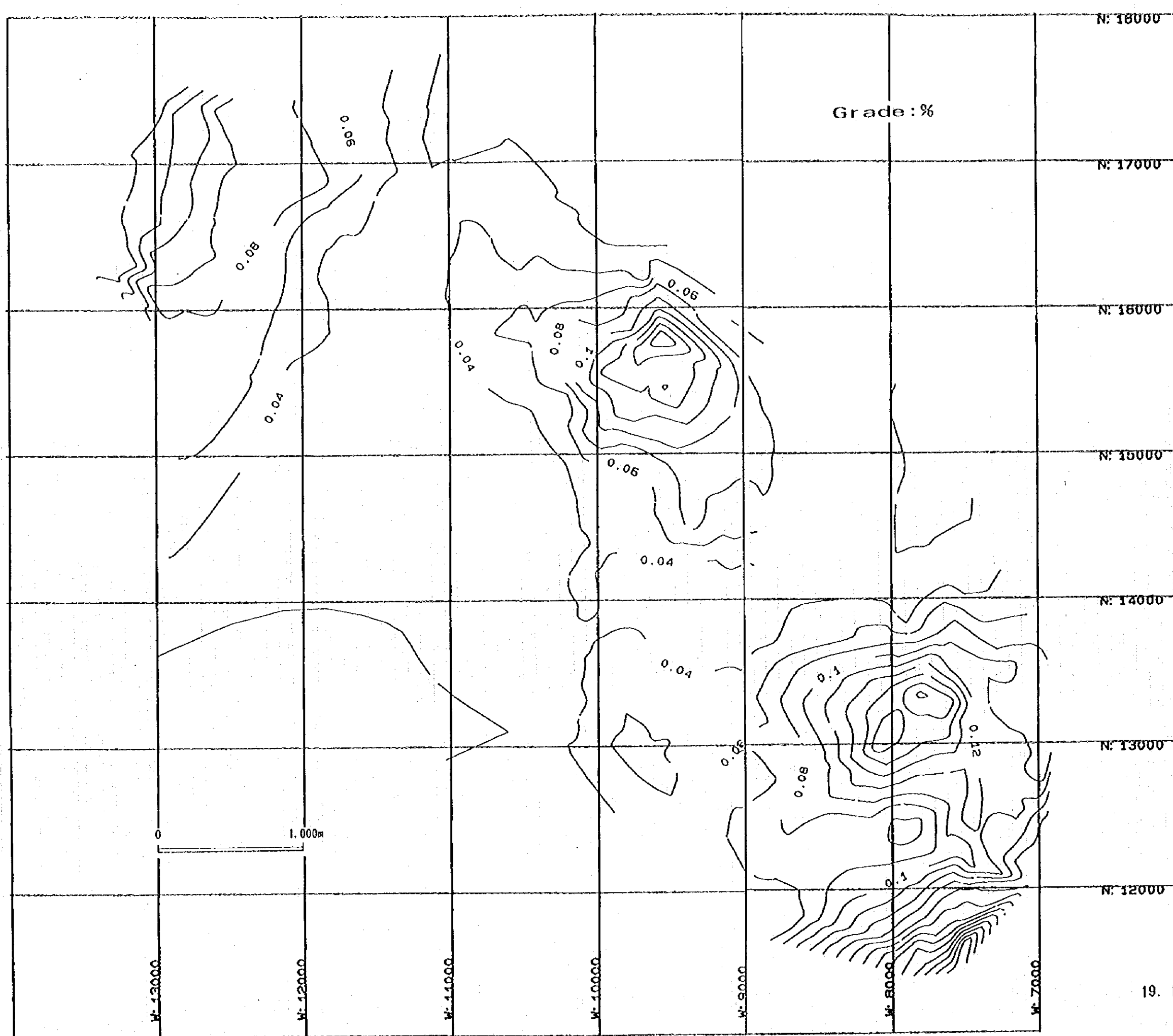


17. Copper Grades Contours



18. Gold Grades Contours





19. Block Cobalt Grade Contours



20 Gold and Silver in Core Composites (1)

ZAMBIA CONSOLIDATED COPPER MINES LTD CHAMBISHI SOUTHEAST CORE COMPOSITES GOLD AND SILVER RESULTS								
BH No	SAMPLE No	Au/B PPB	Ag PPM	Dup Au ppb	Dup Ag ppm	Au/FA OPT	DISTANCE	
							FROM	To
NN75	14101	6	<0.5				959.90	960.90
NN75	17680	<2	<0.5					961.90
NN75	17681							962.90
NN75	17682	6	<0.5					963.90
NN75	17683	<2	<0.5					964.90
NN75	17684	<2	<0.5					965.90
NN75	17685	4	<0.5					966.90
NN75	17686	4	<0.5					967.90
NN75	17687	2	<0.5					968.90
NN75	17688	4	<0.5					969.90
NN75	17689	6	<0.5					970.90
NN75	17690	4	<0.5					971.90
NN75	17691			2	<0.5			972.90
NN75	17692							973.90
NN75	17693	4	<0.5					974.90
NN75	17694	<2	<0.5					975.90
NN75	17695	<2	<0.5					976.90
NN75	17696	2	<0.5					977.90
NN75	17697							978.90
NN75	17698							979.90
NN75	17699							980.90
NN75	17700							981.66
NN61	14102	19	<0.5				991.30	992.30
NN61	14103	<2	<0.5					993.30
NN61	14104	<2	<0.5					994.30
NN61	14105	<2	<0.5	<2	<0.5			995.30
NN61	14106	<2	<0.5					996.30
NN61	14107	<2	<0.5					997.30
NN61	14108	<2	<0.5					998.30
NN61	14109	<2	<0.5					999.30
NN61	14110	<2	<0.5					1000.30
NN61	14111	19	<0.5					1001.30
NN61	14112	110	<0.5					1002.30
NN61	14113	25	<0.5					1003.30
NN61	14114	41	<0.5					1004.30
NN61	14115	51	<0.5					1005.30
NN61	14116	14	<0.5					1006.30
NN42	14117	<2	<0.5				788.42	789.42
NN42	14118	<2	<0.5					790.42
NN42	14119	4	<0.5					791.42
NN42	14120	8	<0.5					792.42
NN42	14121	19	<0.5	19	<0.5			793.42
NN42	14122	14	<0.5					794.42
NN42	14123	115	<0.5					795.42
NN42	14124	14	<0.5					796.42
NN42	14125	19	<0.5					797.42
NN42	14126	29	<0.5					798.42
NN42	14127	14	<0.5					799.42
NN42	14128	8	<0.5					800.42
NN42	14129	12	<0.5					801.42
NN42	14130	6	<0.5					802.42
NN42	14131	14	<0.5					803.42
NN42	14132	12	<0.5					804.42
NN42	14133	16	<0.5					805.42
NN42	14134	21	<0.5					806.42
NN42	14135	16	<0.5					807.42
NN51	14136	4	<0.5				1017.60	1018.60
NN51	14137	2	<0.5					1019.60
NN51	14138	<2	<0.5					1020.60
NN51	14139	<2	<0.5					1021.60
NN51	14140	<2	<0.5					1022.60
NN51	14141	6	<0.5					1023.60
NN51	14142	8	<0.5					1024.60
NN51	14143	6	<0.5					1025.60
NN51	14144	<2	<0.5					1026.60
NN51	14145	6	<0.5					1027.60
NN51	14146	4	<0.5					1028.60
NN51	14147	4	<0.5					1029.60
NN51	14148	10	<0.5					1030.60
NN51	14149	10	<0.5					1031.60
NN51	14150	12	<0.5					1032.60
NN51	14151	10	<0.5					1033.60
NN51	14152	4	<0.5					1034.50
NN68	14153	8	<0.5				784.07	785.07
NN68	14154	6	<0.5					786.07
NN68	14155	49	2.5					787.07
NN68	14156	56	4					788.07
NN68	14157	<2	<0.5					789.07
NN68	14158	4	<0.5					790.07
NN68	14159	<2	<0.5					791.07
NN68	14160	4	<0.5					792.07
NN68	14161	4	<0.5					793.07
NN68	14162	6	<0.5					794.07

20 Gold and Silver in Core Composites (2)

ZAMBIA CONSOLIDATED COPPER MINES LTD CHAMBISHI SOUTHEAST CORE COMPOSITES GOLD AND SILVER RESULTS								
BH No	SAMPLE No	Au/B PFB	Ag PPM	Dup Au ppb	Dup Ag ppm	Au/FA OPT	DISTANCE	
							FROM	To
NN68	14163	8	<0.5					795.07
NN68	14164	6	<0.5					796.07
NN68	14165	10	<0.5					797.07
NN68	14166	4	<0.5					798.07
NN68	14167	2	<0.5					799.07
NN68	14168	6	<0.5					800.07
NN68	14169	8	<0.5					801.07
NN68	14170	4	<0.5					802.07
NN68	14171	16	2					803.07
NN68	14172	4	<0.5					803.55
NN63	14173	4	<0.5				898.90	899.90
NN63	14174	2	<0.5					900.90
NN63	14175	<2	<0.5					901.90
NN63	14176	<2	<0.5					902.90
NN63	14177	<2	<0.5					903.90
NN63	14178	<2	<0.5					904.90
NN63	14179	<2	<0.5					905.90
NN63	14180	<2	<0.5					906.90
NN63	14181	4	<0.5					907.90
NN63	14182	6	<0.5	2	<0.5			908.90
NN63	14183	6	<0.5					909.90
NN63	14184	6	<0.5					910.90
NN63	14185	4	<0.5					911.90
NN63	14186	4	<0.5					912.90
NN63	14187	8	<0.5					913.90
NN63	14188	6	<0.5					914.90
NN63	14189	2	<0.5					915.90
NN63	14190	6	<0.5					916.90
NN63	14191	6	<0.5					917.90
NN63	14192	4	<0.5					918.60
NN41	14193	2	<0.5				788.20	789.20
NN41	14194	2	<0.5					790.20
NN41	14195	2	<0.5					791.20
NN41	14196	<2	<0.5					792.20
NN41	14197	<2	<0.5					793.20
NN41	14198	<2	<0.5					794.20
NN41	14199	<2	<0.5					795.20
NN41	14200	<2	<0.5					796.20
NN41	18201	4	<0.5	2	<0.5			797.20
NN41	16580	6	<0.5					798.20
NN41	16581	39	<0.5					799.20
NN41	16582	275	1					800.20
NN41	18205	4	<0.5					801.20
NN41	18206	2	<0.5					802.20
NN41	18207	4	<0.5					803.20
NN41	18208	2	2					804.20
NN41	18209	4	<0.5					804.80
NN41	18210	21	<0.5					
NN41	18211	8	1					
NN13	18401	4	<0.5				545.43	545.43
NN13	18402	4	<0.5					547.43
NN13	18403	2	7	<2	<0.5			548.43
NN13	18404	2	<0.5					549.43
NN13	18405	4	<0.5					550.53
NN13	18406	6	<0.5					551.60
NN13	18297	4	<0.5				541.43	542.43
NN13	18298	6	<0.5					543.43
NN13	18299	4	1					544.43
NN13	18300	4	<0.5					545.43
NN78	18407	6	<0.5				650.99	651.99
NN78	18408	2	<0.5					652.99
NN78	18409	2	<0.5					653.99
NN78	18410	<2	<0.5					654.99
NN78	18411	4	<0.5					655.99
NN78	18412	4	<0.5					656.99
NN18	18413	<2	<0.5				541.11	542.11
NN18	18414	<2	<0.5					543.11
NN18	18415	<2	<0.5					544.11
NN18	18416	<2	<0.5					545.11
NN18	18417	<2	<0.5					546.11
NN18	18418	4	<0.5					547.11
NN18	18419	8	<0.5					548.11
NN18	18420	14	<0.5					549.11
NN18	18421	2	<0.5					550.11
DX5	18422	2	<0.5				504.28	505.28
DX5	18423	<2	<0.5					506.28
DX5	18424	2	<0.5	2	<0.5			507.28
DX5	18425	2	<0.5					508.28
DX5	18426	4	<0.5					509.58
DX5	18427	<2	<0.5					510.93
NN22D2	18428	<2	<0.5				663.76	664.76
NN22D2	18429	12	<0.5					665.76
NN22D2	18430	10	<0.5					666.76

20 Gold and Silver in Core Composites (3)

ZAMBIA CONSOLIDATED COPPER MINES LTD CHAMBISHI SOUTHEAST CORE COMPOSITES GOLD AND SILVER RESULTS								
BH No	SAMPLE No	Au/B PPB	Ag PPM	Dup Au ppb	Dup Ag ppm	Au/FA OPT	DISTANCE	
							FROM	To
NN2202	18431	6	<0.5					667.76
NN2202	18432	12	<0.5					668.76
NN2202	18433	8	<0.5					669.76
NN2202	18434	2	<0.5					670.76
NN2202	18435	8	<0.5					671.76
NN23	18436	270	5.5				444.69	445.69
NN23	18437	250	4.5	300	3			446.69
NN23	18438	230	5					447.69
NN23	18439	4	<0.5					448.69
NN23	18440	150	2.5					449.69
NN23	18441	74	<0.5					450.69
NN23	18442	99	1					451.69
NN23	18443	255	2.5					452.69
NN23	18444	180	1.5					453.69
NN4401	18445	4	<0.5				777.50	778.50
NN4401	18446	14	1.5					779.50
NN4401	18447	12	<0.5					780.50
NN4401	18448	10	1					781.50
NN4401	18449	>2 PPM	5			0.021		782.50
NN4401	18450	23	2					783.50
NN4401	18451	43	6.5					784.50
NN4401	18452	100	14					785.50
NN4401	18453	10	<0.5					786.50
NN4401	18454	16	2					787.50
NN4401	18455	2	<0.5					788.50
NN4401	18456	4	<0.5					789.50
NN4401	18457	2	<0.5					790.50
NN4401	18458	97	<0.5					791.50
NN4401	18459	54	<0.5					792.50
NN4401	18460	25	<0.5					793.50
NN4401	18461	16	<0.5					794.50
NN4401	18462	54	<0.5					795.50
NN4401	18463	25	<0.5					796.50
NN4401	18464	16	<0.5					797.50
NN4401	18465	43	1.5					798.50
NN32	18466	2	<0.5				20.72	21.72
NN32	18467	<2	<0.5					23.15
NN31	18468	4	<0.5				552.41	553.41
NN31	18469	6	<0.5					554.41
NN31	18470	2	<0.5					555.41
NN31	18471	4	<0.5					556.41
NN31	18472	2	<0.5					557.41
NN31	18473	8	<0.5					558.41
NN29A	18474	8	<0.5				1240.63	1241.63
NN29A	18475	8	<0.5					1242.63
NN29A	18476	17	<0.5					1243.63
NN29A	18477	4	<0.5					1244.63
NN29A	18478	10	<0.5					1245.63
NN29A	18479	14	<0.5	23	<0.5			1246.63
NN29A	18480	2	<0.5					1247.63
NN29A	18481	4	<0.5					1248.63
NN29A	18482	4	<0.5					1249.63
NN29A	18483	4	<0.5					1250.63
NN29A	18484	10	<0.5					1251.63
NN29A	18485	6	<0.5					1252.63
NN29A	18486	4	<0.5					1253.53
NN29A	18487	8	<0.5					1253.73
NX7	18488	4	<0.5	<2	<0.5		506.08	507.08
NX7	18489	6	<0.5					508.08
NX7	18490	8	<0.5					509.08
NX7	18491	6	<0.5					510.08
NX7	18492	10	<0.5					511.08
NX7	18493	23	<0.5					511.84
NN40	18494	6	<0.5				923.34	924.34
NN40	18495	25	3					925.34
NN40	18496	19	1.5					926.34
NN40	18497	4	<0.5					927.34
NN40	18498	2	<0.5					928.34
NN40	18499	6	<0.5					929.34
NN40	18500	2	<0.5					930.34
NN40	18501	6	<0.5					931.34
NN40	18502	6	<0.5					932.34
NN40	18503	12	<0.5					933.34
PE2	18212	6	1				1418.90	1419.90
PE2	18213	2	<5					1420.90
PE2	18214	2	1.5					1421.90
PE2	18215	4	<5					1422.90
PE2	18216	8	<5					1423.90
NN19	18217	2	1				599.97	600.97
NN19	18218	4	<5					601.97
NN19	18219	<2	<5					602.97
NN19	18220							603.97
NN19	18221	8	<5					604.97

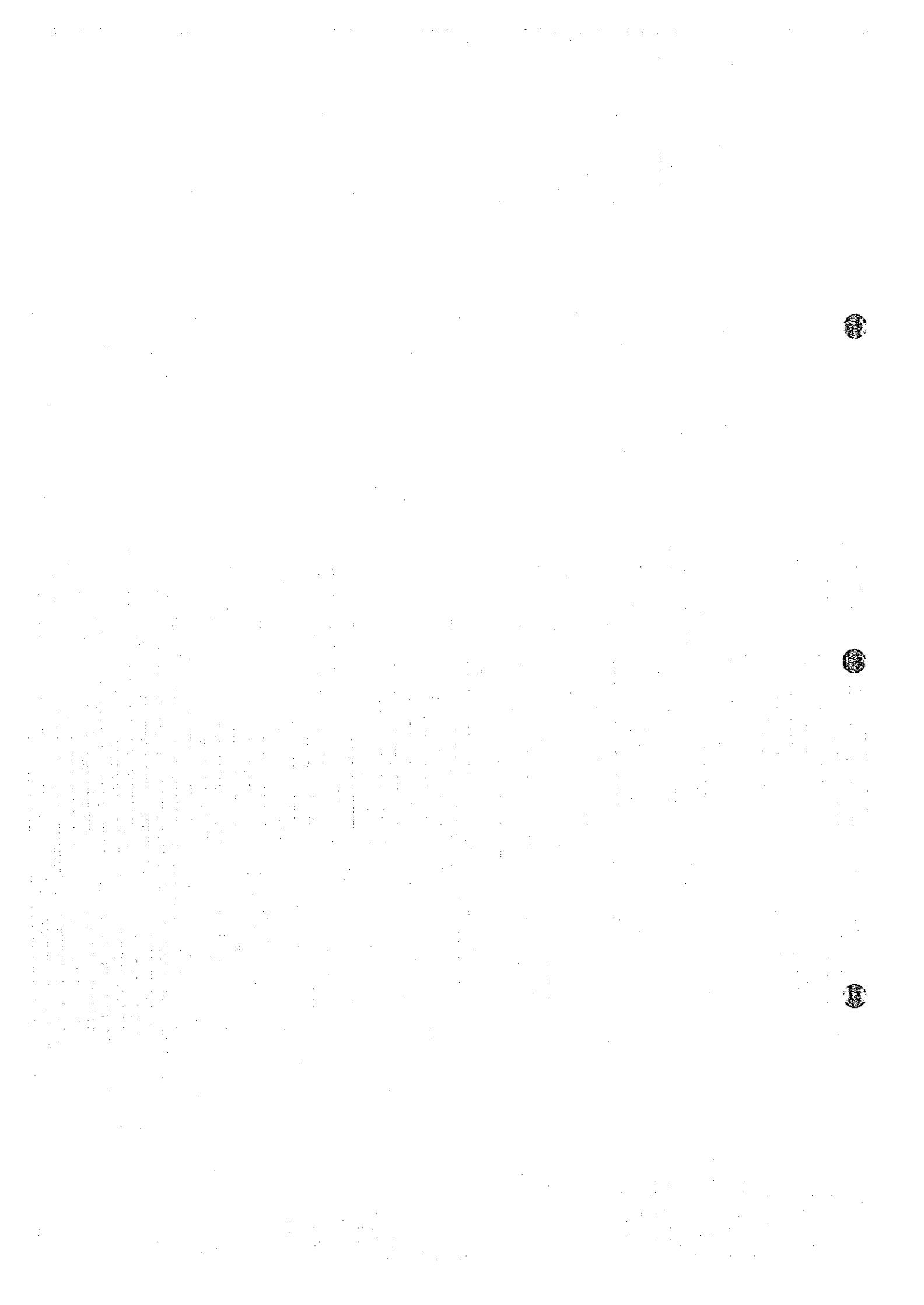
20 Gold and Silver in Core Composites (4)

ZAMBIA CONSOLIDATED COPPER MINES LTD								
CHAMBISHI SOUTHEAST CORE COMPOSITES								
GOLD AND SILVER RESULTS								
BH No	SAMPLE No	Au/B PPB	Ag PPM	Dup Au ppb	Dup Ag ppm	Au/FA OPT	DISTANCE	
							FROM	To
NN19	18222	4	<5					605.97
NN19	18223	4	<5					606.97
NN80	18224	2	<5				976.56	977.56
NN80	18225	<2	<5					978.56
NN80	18226	88	1.5					979.56
NN80	18227	175	1.5					980.56
NN80	18228	87	2					981.56
NN80	18229	135	4.5					982.56
NN80	18230	210	8					983.56
NN80	18231	82	3.5					984.56
NN81	18232	8	<5				948.45	949.45
NN81	18233	12	<5					950.45
NN81	18234	6	<5					951.45
NN81	18235	2	<5					952.45
NN81	18236	2	<5					953.45
NN81	18237	<2	<5					954.45
NN81	18238	2	<5					955.45
NN38D1	18239	10	1.5				705.68	706.68
NN38D1	18240							707.68
NN38D1	18241	2	1					708.68
NN38D1	18242	2	<5					709.68
NN38D1	18243	<2	<5					710.68
NN38D1	18244	<2	<5					711.68
NN38D1	18245	<2	<5					712.68
NN20	18246	4	<5				472.47	473.47
NN20	18247	<2	<5					474.47
NN20	18248	<2	<5					475.47
NN20	18249	4	<5	4	<5			476.47
NN20	18250	4	<5					477.47
NN20	18251	6	<5					478.47
NN20	18252	2	<5					479.47
NN20	18253	<2	<5					480.47
NN20	18254	2	<5					481.47
NX6	18255	4	1				687.27	688.27
NX6	18256	2	1					689.27
NX6	18257	4	<5					690.27
NX6	18258	33	<5					691.27
NX6	18259	10	<5					692.27
NN34D1	18260	<2	<5				500.77	501.77
NN34D1	18261	<2	<5					502.77
NN34D1	18262	<2	1					503.77
NN34D1	18263	2	1					504.77
NN34D1	18264	<2	<5					505.77
NN34D1	18265	2	1					506.77
NN34D1	18266	<2	<5					507.77
NN34D1	18267	4	<5					508.77
NN34D1	18268	16	<5					510.63
NN11	18269	<2	<5				504.92	505.92
NN11	18270	<2	<5					506.92
NN11	18271	<2	2.5					507.92
NN11	18272	2	4					508.92
NN11	18273	<2	4					509.92
NN11	18274	2	<5					510.92
NN11	18275	<2	<5					511.92
NN11	18276	<2	<5					512.97
NN15	18277	<2	<5				487.01	488.01
NN15	18278	<2	<5					489.01
NN15	18279	<2	1					490.01
NN15	18280	8	2.5					491.01
NN15	18281	<2	<5					492.01
NN15	18282	2	<5					493.01
NN15	18283	<2	<5					494.01
NN15	18284	6	1					495.99
NN27	18285	2	<5				446.74	447.74
NN27	18286	6	<5					448.74
NN27	18287	8	<5					449.74
NN27	18288	6	<5					450.74
NN27	18289	8	<5					451.74
NN27	18290	4	<5					452.47
NN25	18291	6	<5				522.97	523.97
NN25	18292	<2	<5					524.97
NN25	18293	2	<5					525.97
NN25	18294	8	<5					526.97
NN25	18295	2	<5					527.97
NN25	18296	2	<5					529.74
RCB2	17601	<2	<5				1279.16	1280.16
RCB2	17602	<2	<5					1281.16
RCB2	17603	<2	<5					1282.16
RCB2	17604	<2	<5					1283.16
RCB2	17605	<2	<5					1284.16
RCB2	17606	<2	<5					1285.16
RCB2	17607	<2	<5					1286.16
RCB2	17608	<2	<5					1287.16

20 Gold and Silver in Core Composites (5)

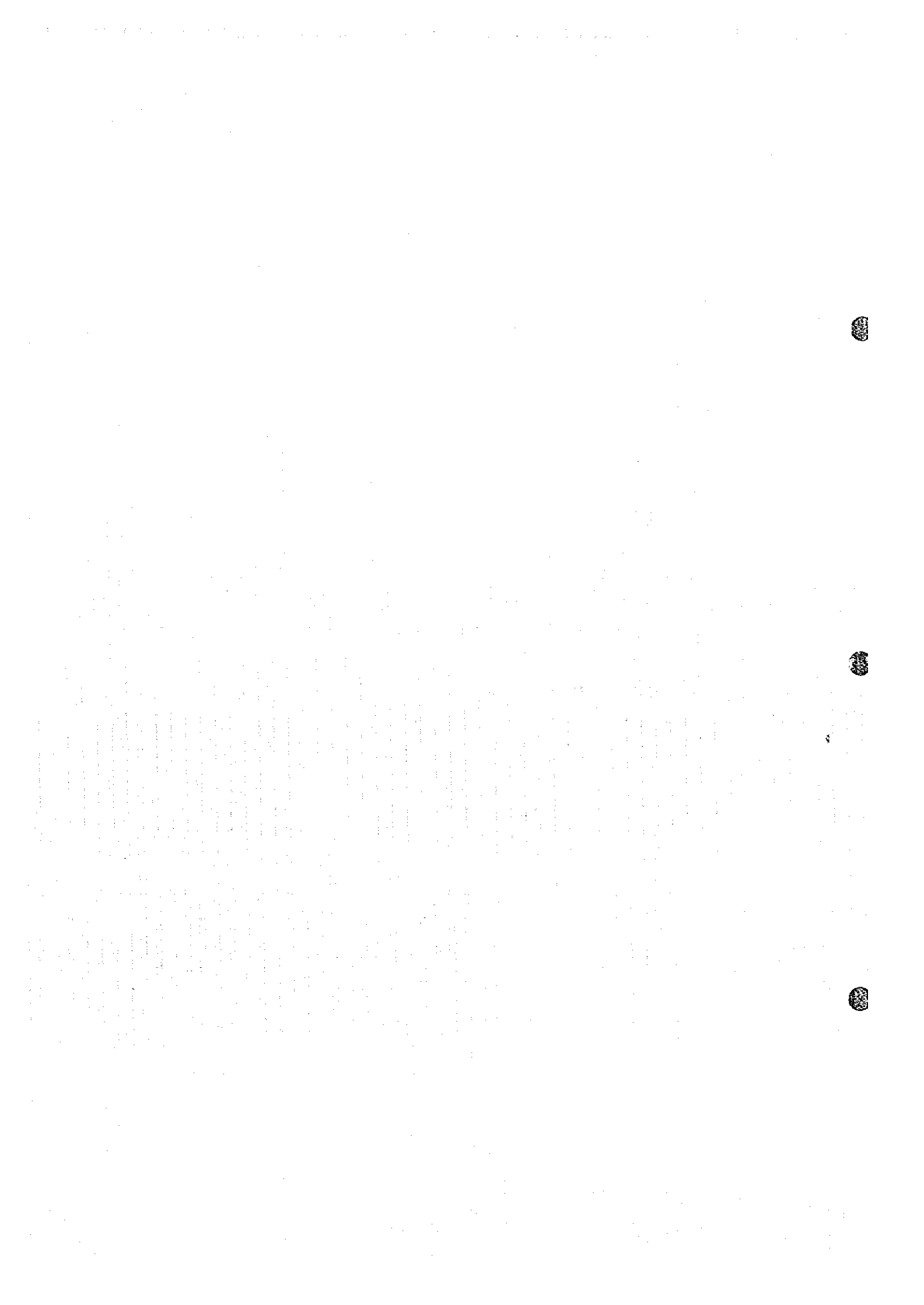
ZAMBIA CONSOLIDATED COPPER MINES LTD CHAMBISHI SOUTHEAST CORE COMPOSITES GOLD AND SILVER RESULTS								
BH No	SAMPLE No	Au/B PPB	Ag PPM	Dup Au ppb	Dup Ag ppm	Au/FA OPT	DISTANCE	
							FROM	To
RCB2	17609	<2	2					1288.16
RCB2	17610	<2	<5					1289.16
RCB2	17611	4	<5					1290.16
RCB2	17612	54	<5					1291.16
RCB2	17613	4	<5					1292.16
RCB2	17614	4	<5					1293.16
RCB2	17615	<2	1					1293.80
RCB2	17616	<2	<5					1284.20
NN43	17617	6	<5				687.85	688.85
NN43	17618	33	<5					689.85
NN43	17619	14	<5					690.85
NN43	17620	14	<5					691.85
NN43	17621	6	<5					692.85
NN43	17622	6	<5	4	<5			693.85
NN43	17623	10	<5					694.85
NN43	17624	10	<5					695.85
NN43	17625	8	<5					696.85
NN43	17626	4	<5					697.85
NN43	17627	<2	<5					698.85
NN43	17628	6	<5					699.85
NN43	17629	10	<5					698.85
NN43	17630	<2	<5					699.85
NN48A	17631	6	<5				801.04	802.04
NN48A	17632	4	<5					803.04
NN48A	17633	4	<5					804.04
NN48A	17634	6	1.5					805.04
NN48A	17635	<2	<5					806.04
NN48A	17636	<2	<5					807.04
NN48A	17637	<2	<5					808.04
NN48A	17638	<2	<5					809.04
NN48A	17639	<2	<5					810.04
NN48A	17640	4	<5					811.04
NN48A	17641	6	<5					812.04
NN48A	17642	6	<5	2	<5			813.04
NN48A	17643	10	<5					814.36
NN48A	17644	23	<5					815.68
NN48A	17645	14	<5					815.80
NN45	17646	14	<5				718.75	719.75
NN45	17647	12	<5					720.75
NN45	17648	<2	<5					721.75
NN45	17649	23	<5					722.75
NN45	17650	51	<5					723.75
NN45	17651	35	<5					724.75
NN45	17652	29	<5					725.75
NN45	17653	33	<5					726.75
NN45	17654	25	<5					727.75
NN45	17655	23	<5					728.75
NN45	17656	4	<5					729.75
NN45	17657	8	<5					730.75
NN45	17658	25	<5					731.75
NN45	17659	25	1					732.75
NN45	17660	6	<5					733.75
NN45	17661	17	<5					734.75
NN45	17662	25	<5					735.75
NN45	17663	14	1					736.75
NN45	17664	39	1.5					737.75
NN45	17665	19	1					738.75
NN45	17666	23	<5					739.75
NN45	17667	39	2.5					740.75
NN45	17668	21	0.5					740.90
NN59	17669	4	<5				668.50	669.50
NN59	17670	4	<5					670.50
NN59	17671	25	<5					671.50
NN59	17672	10	<5					672.50
NN59	17673	4	<5					673.50
NN59	17674	8	<5					674.50
NN59	17675	4	<5					675.50
NN59	17676	4	<5					676.50
NN59	17677	8	<5					677.50
NN59	17678	6	<5					678.50
NN59	17679	4	<5					679.50

NOTE: All results from Rocky Mountain Geochemical Corporation, USA  
OPT-Ounce per ton











N12000

N18000

N13000

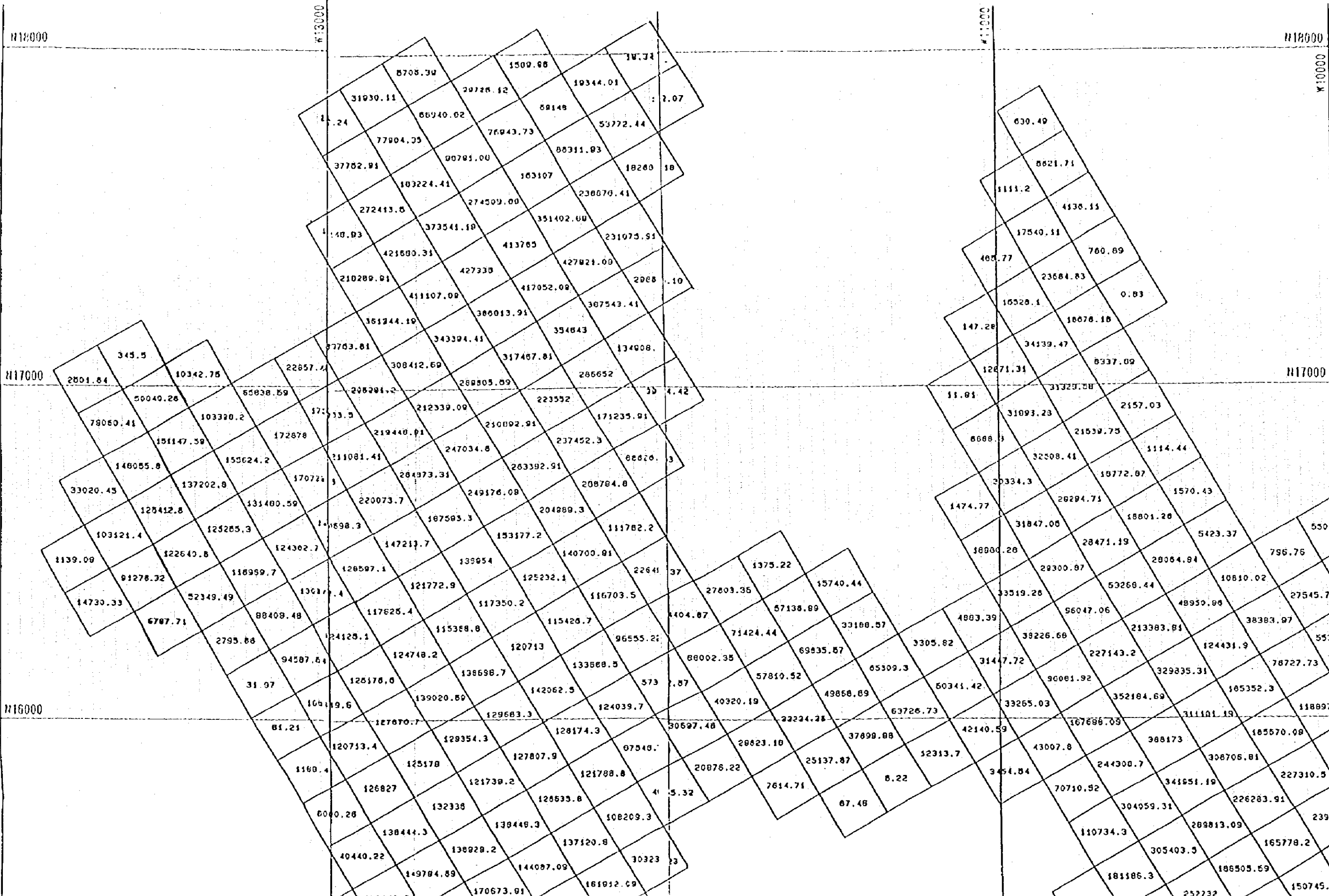
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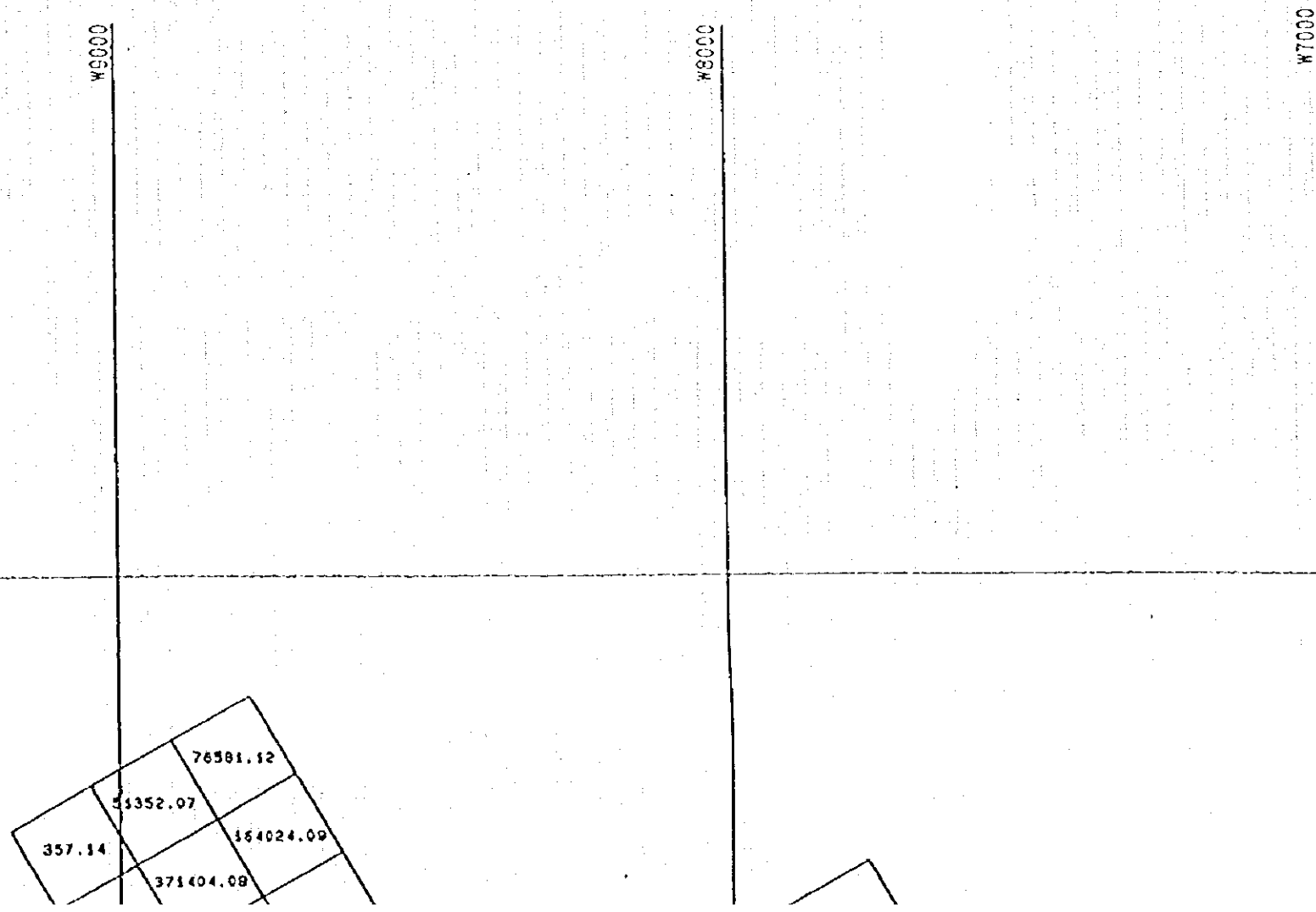
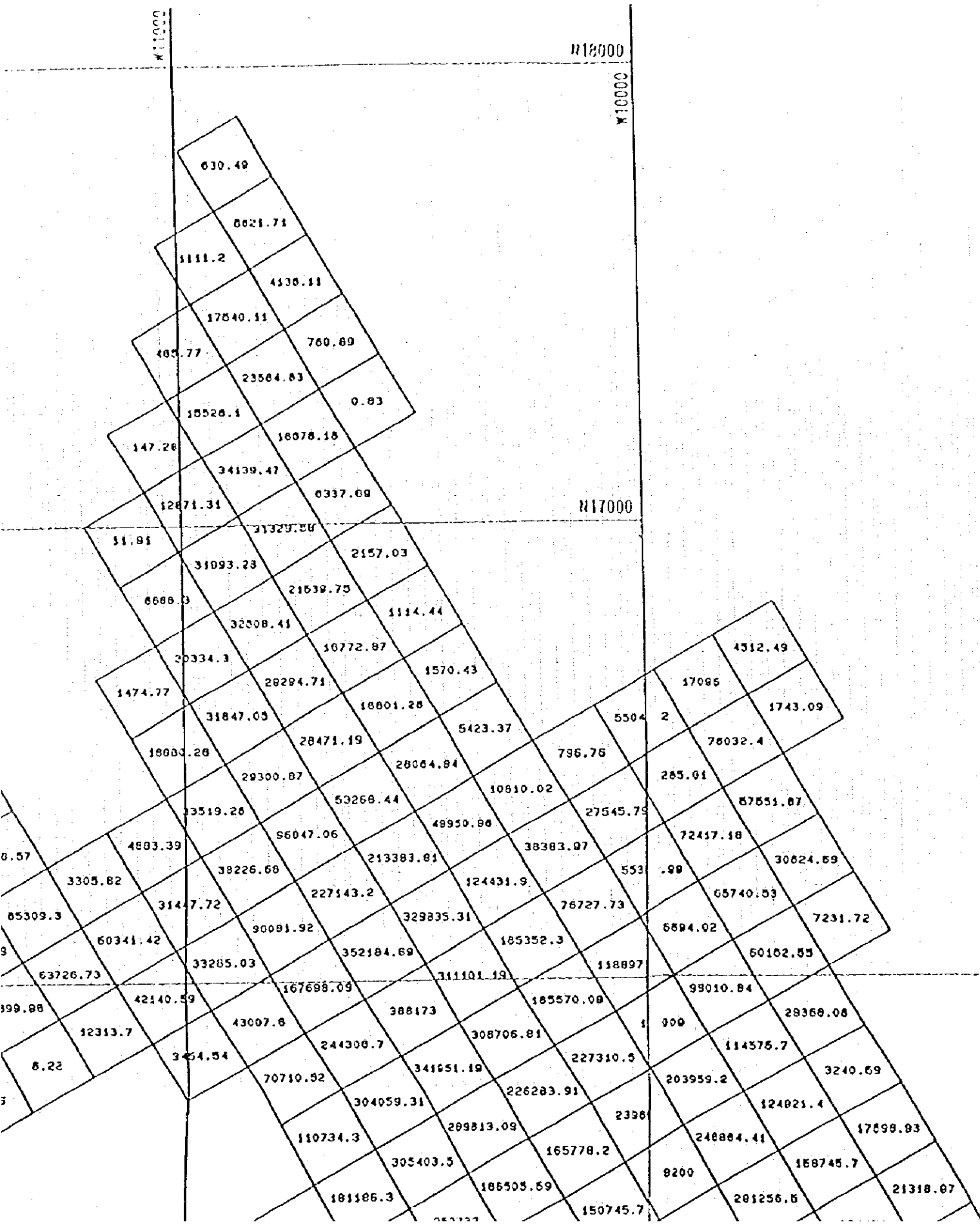
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N16000





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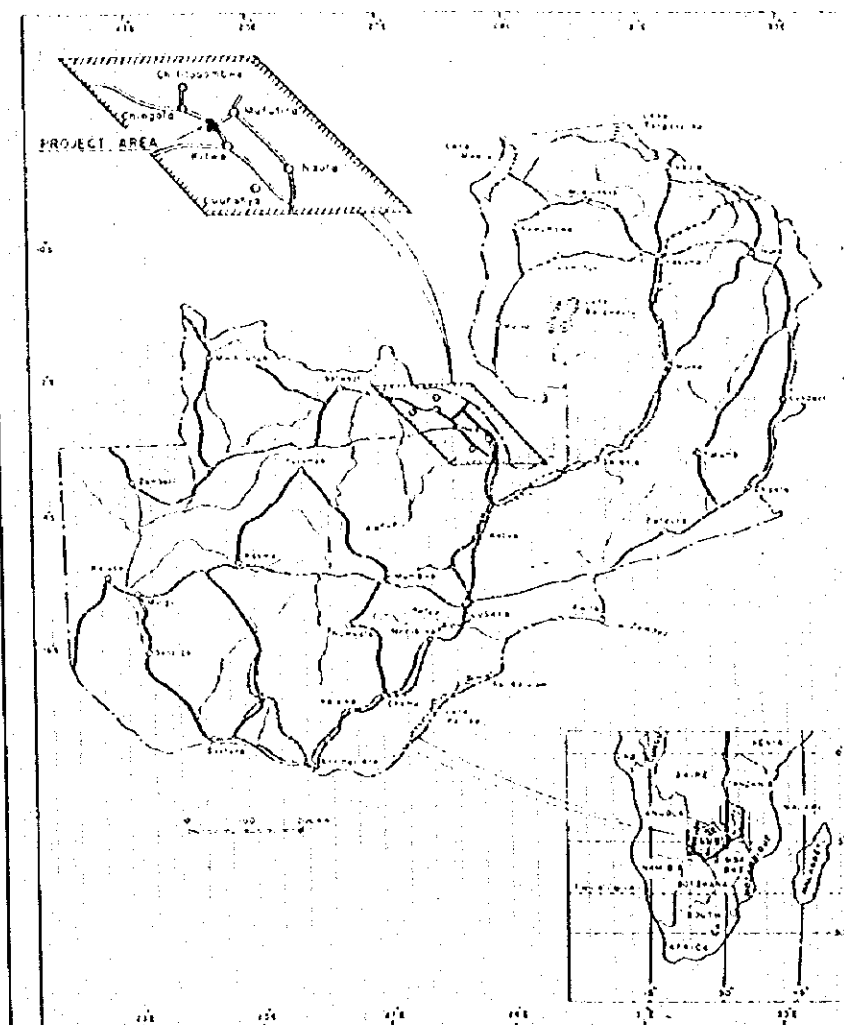
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116000

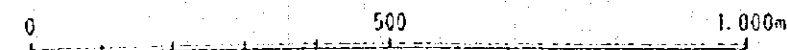
REPORT ON THE COOPERATIVE MINERAL EXPLORATION  
IN  
THE CHAMBISHI SOUTHEAST AREA,  
THE REPUBLIC OF ZAMBIA

Chambishi Southeast Project Block Volumes

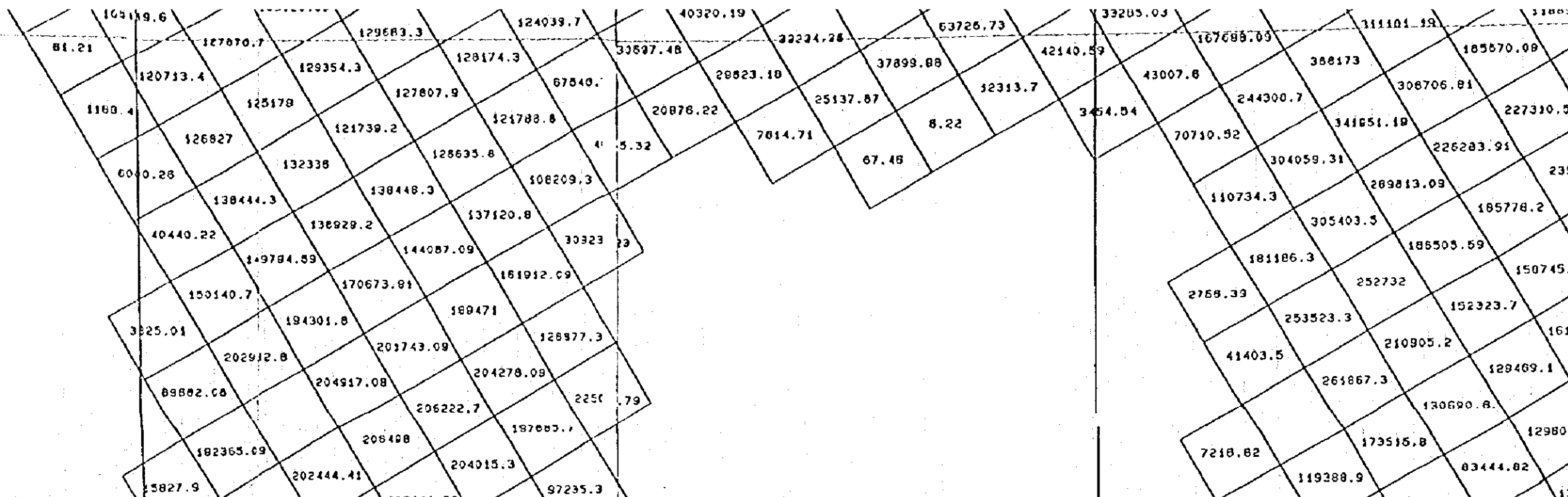


FEBRUARY 1996

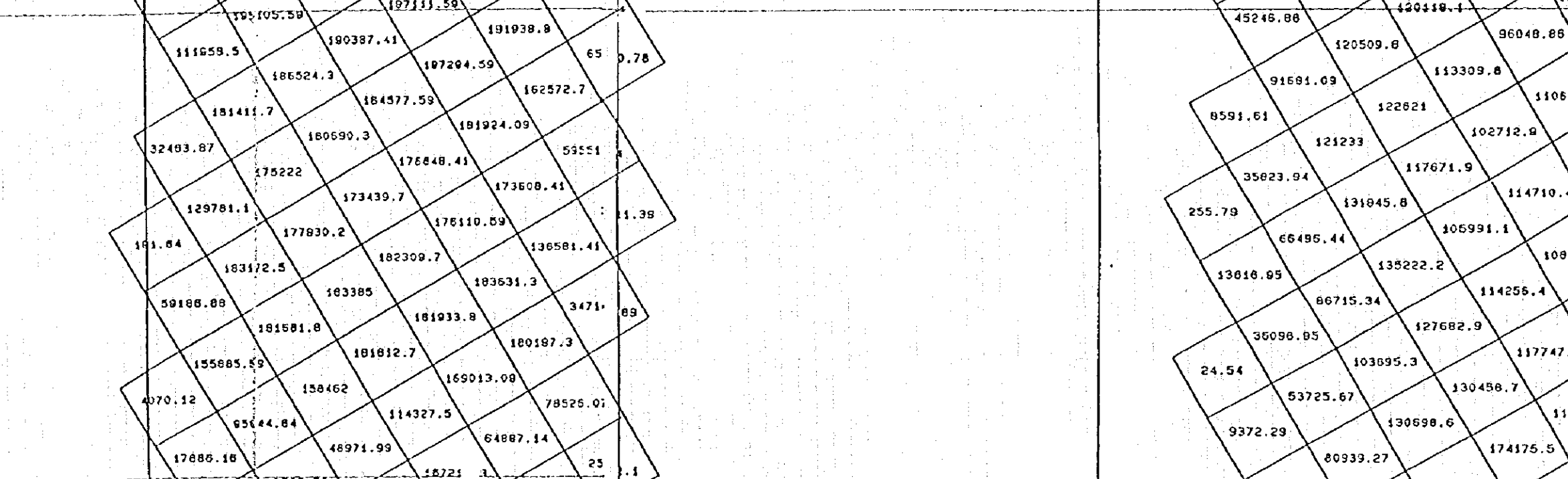
JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN



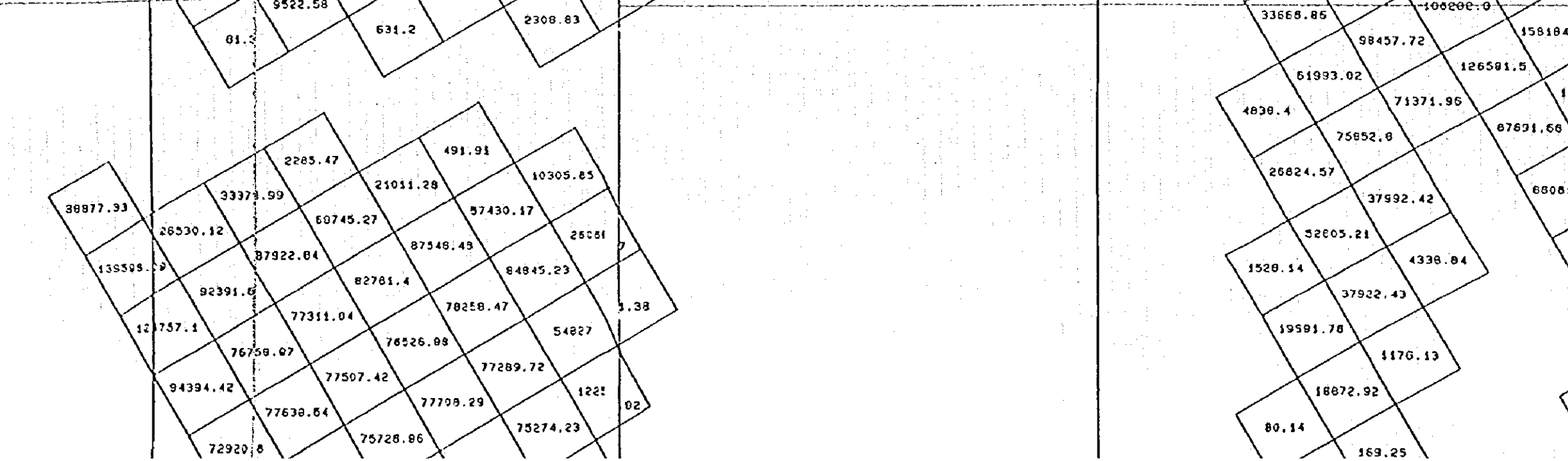
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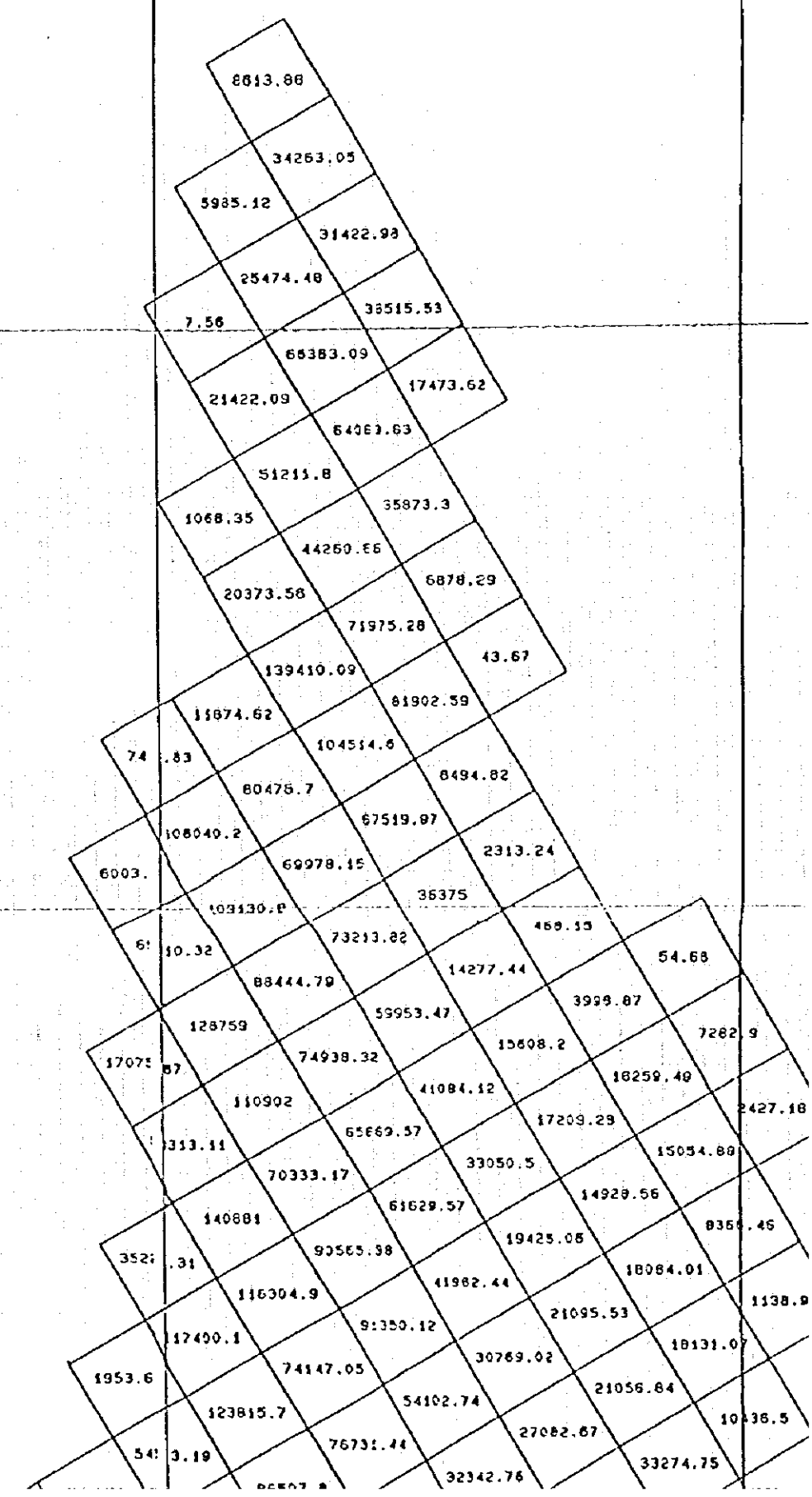
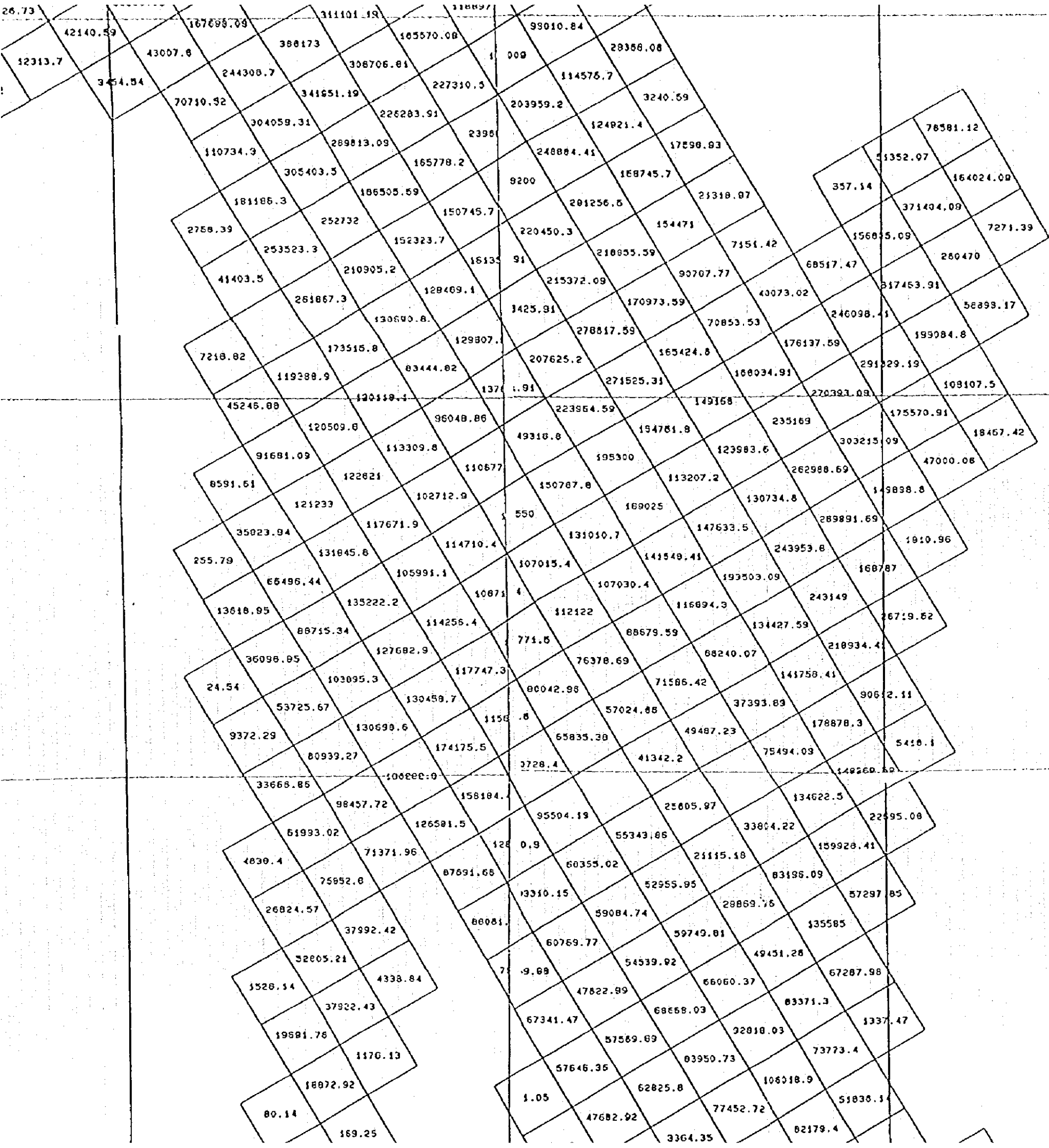
N15000



N14000



N13000





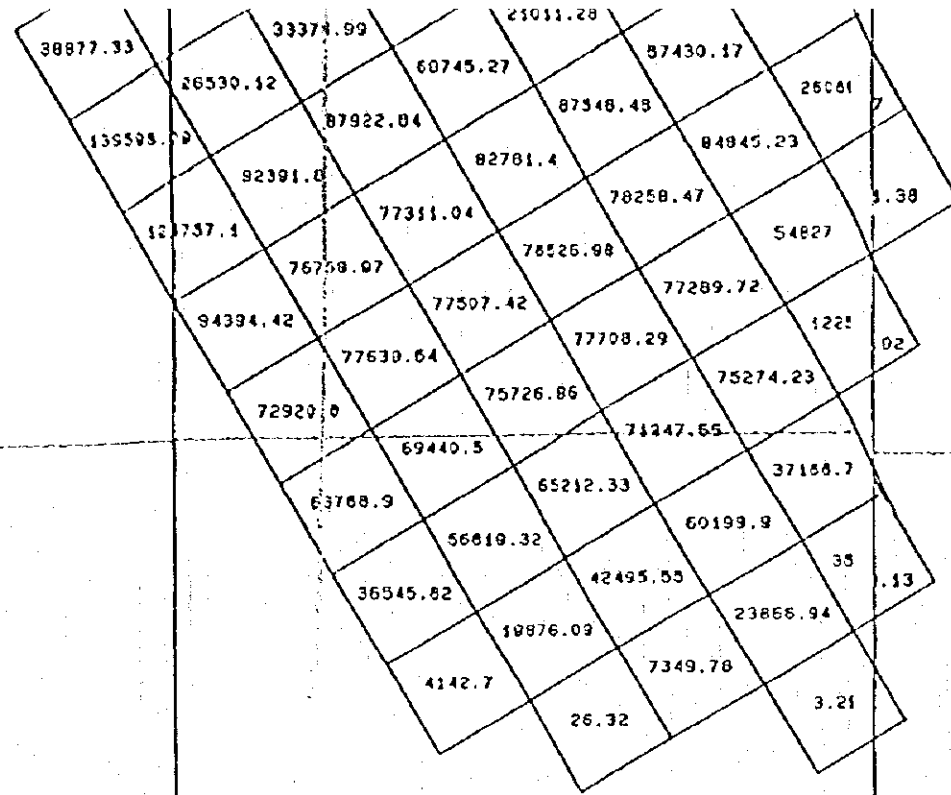
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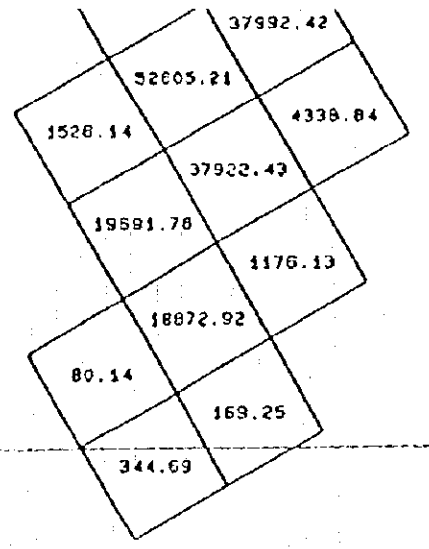
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	66383.09	17473.62		
21422.09	64282.63			
	51211.8	35873.3		
1068.35	44260.66			
	20373.58	6878.29		
	71975.28			
	139410.09	43.67		
	11874.62	81902.59		
74.83	104514.6			
	80475.7	6494.82		
	108040.2	67519.97		
6003.	69978.15	2313.24		
	109139.8	36375		
61	10.32	73213.82	488.15	
	68444.79	14277.44	54.68	
	128753	59953.47	3998.87	
17071.87	74938.32	15508.2	7282.9	
	110902	41084.12	16259.49	
	313.11	65869.57	17209.29	8427.18
	70333.17	39050.5	15054.88	
	140881	61628.57	14928.56	
3521.31	90565.58	19425.08	8364.46	
	116394.9	41982.44	18084.01	
	17490.1	91350.12	21095.53	1138.91
1953.6	74147.05	30769.02	18131.07	
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N13000



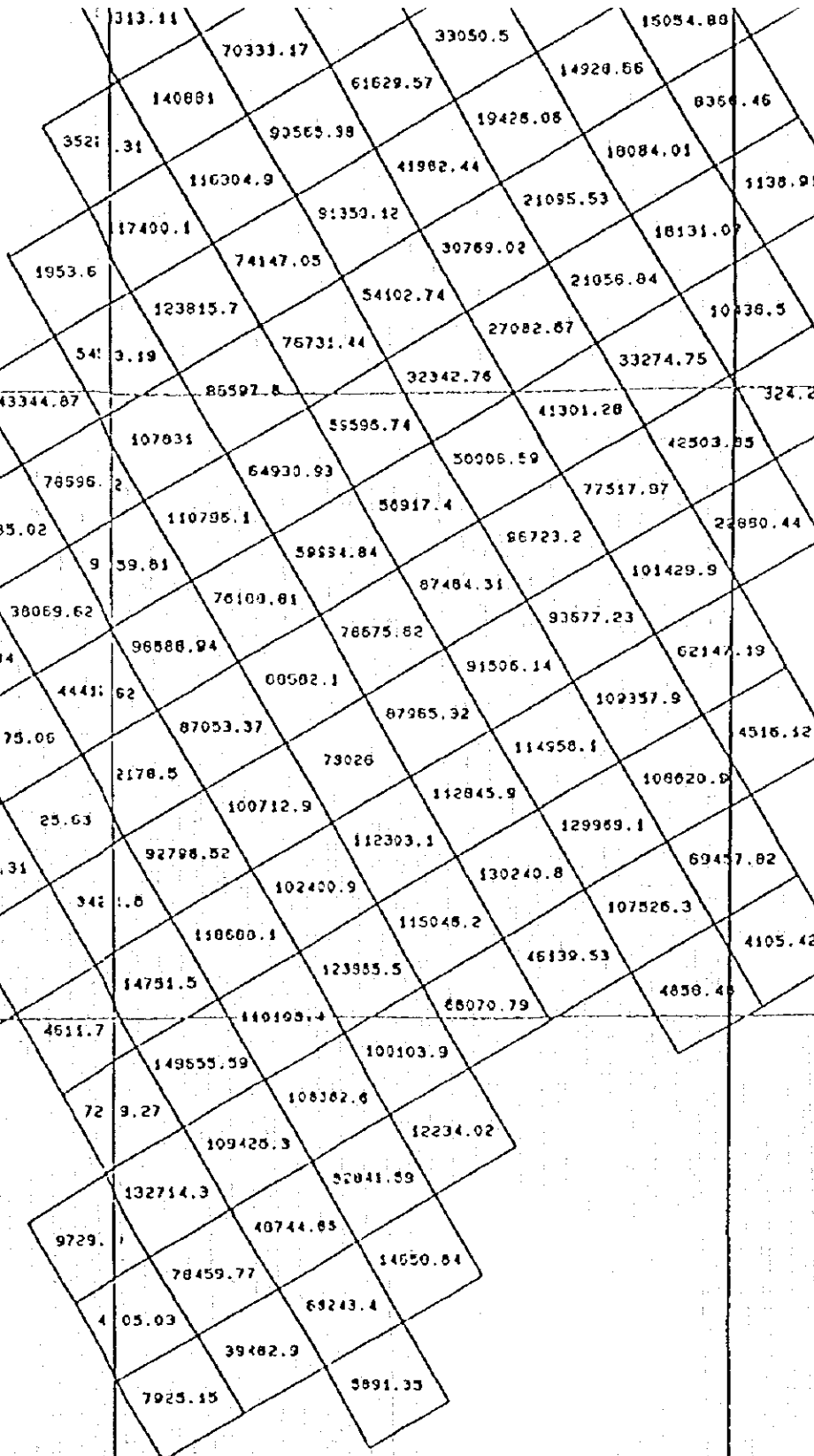
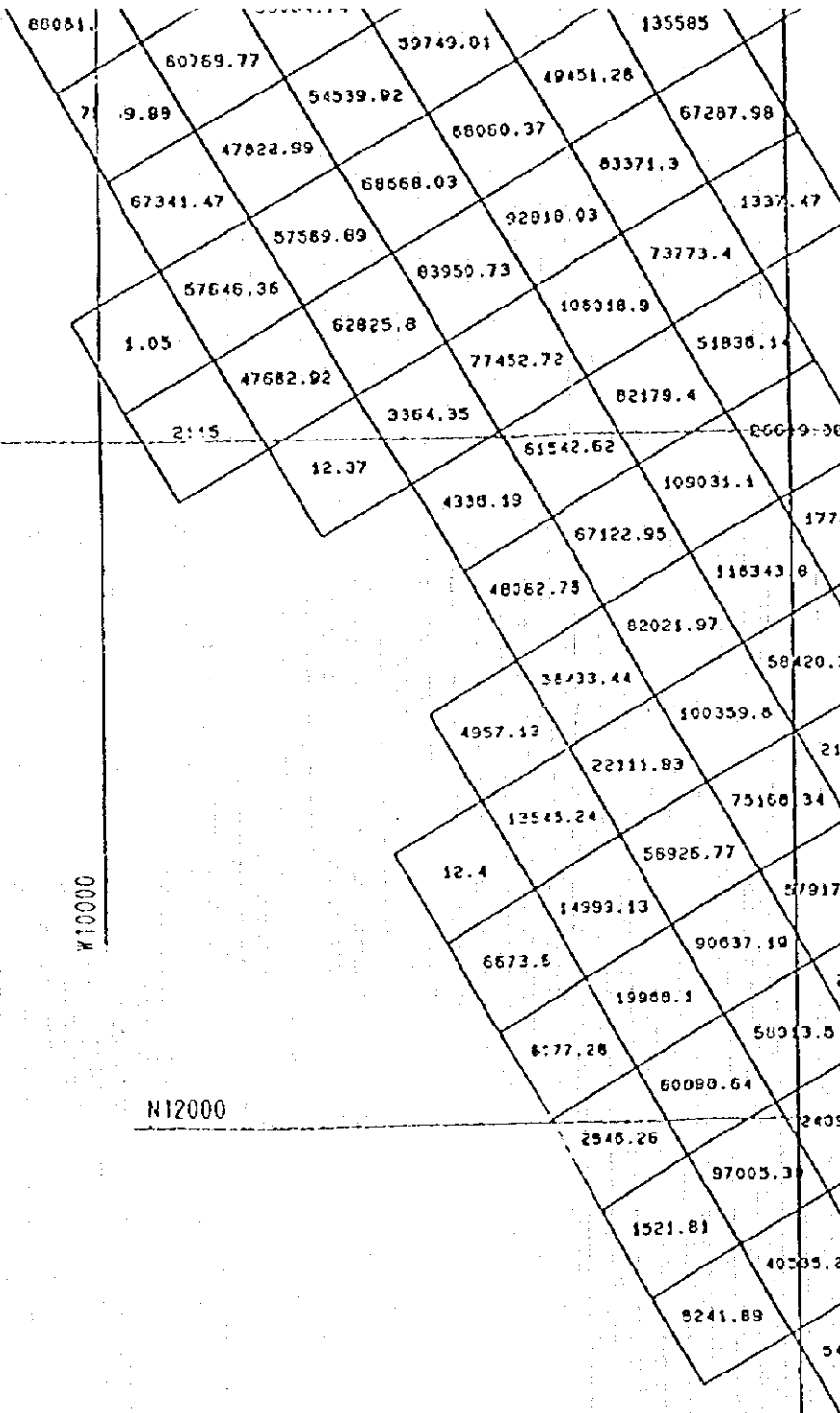
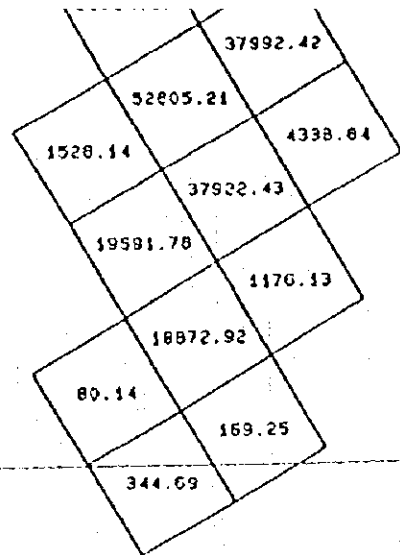
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W12000



W11000

W10000



W11000

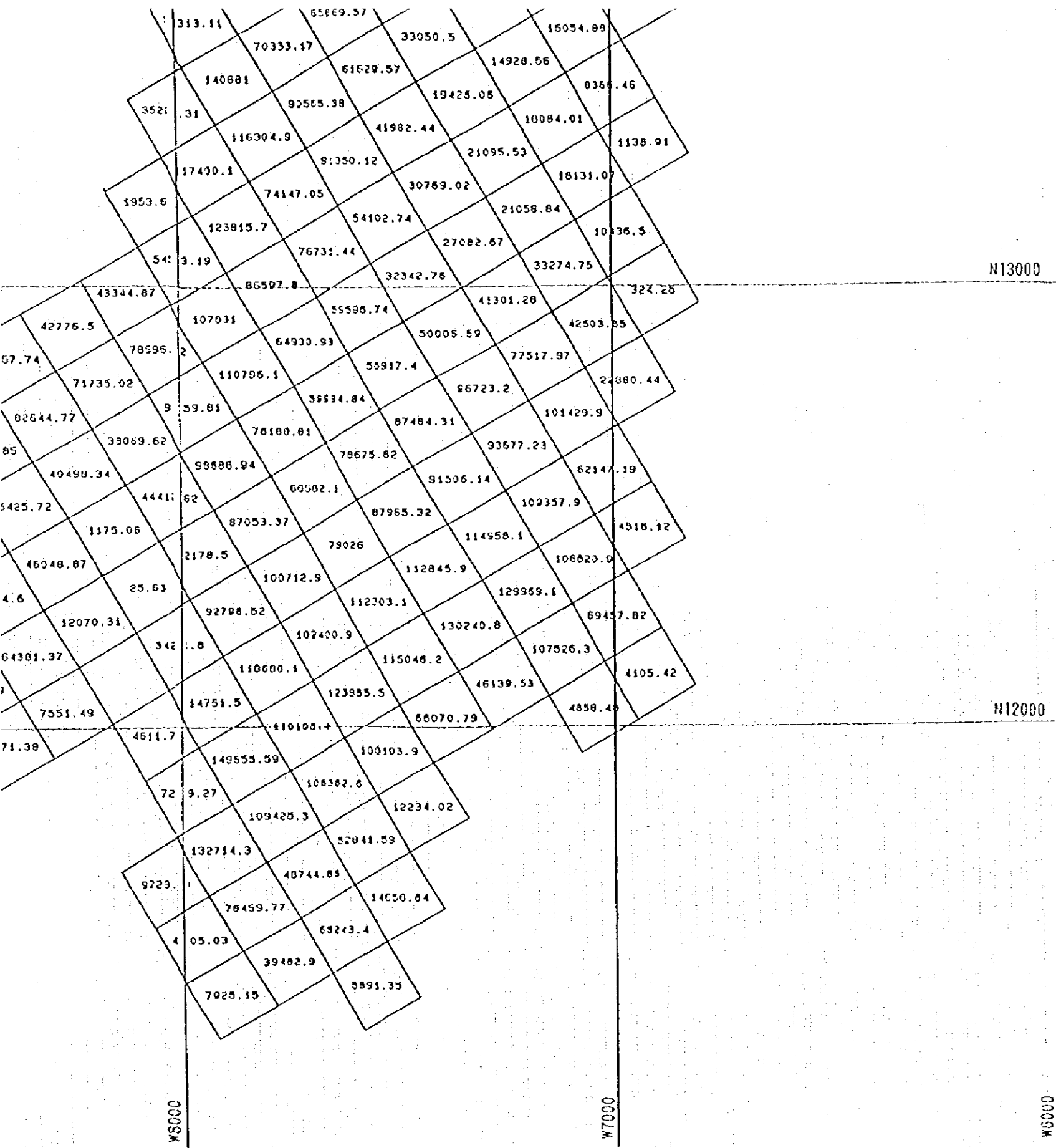
W10000

N12000

W5000

W5000

W7000



N13000

N12000

W6000

W7000

W8000

