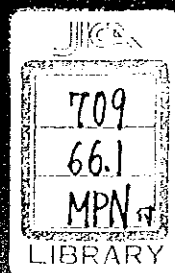
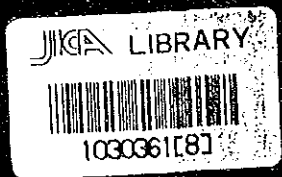


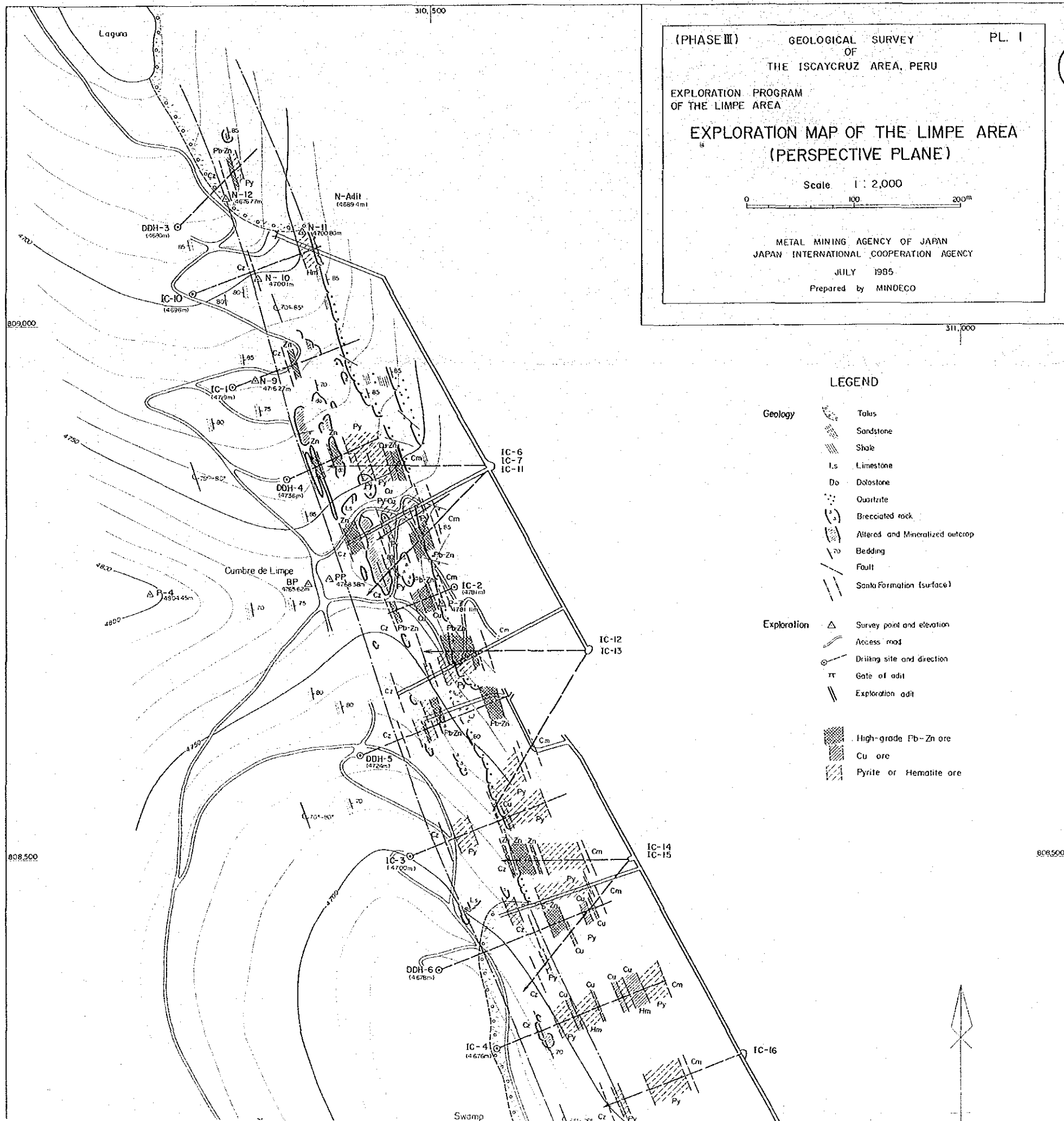
REPUBLIC OF PERU
MINERAL EXPLORATION IN ISCAYCRUZ (OYON) AREA

PHASE B

SEPTEMBER 1985

JICA
MMAJ



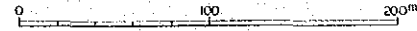


(PHASE III) GEOLOGICAL SURVEY PL. I
OF
THE ISCAYCRUZ AREA, PERU

EXPLORATION PROGRAM
OF THE LIMPE AREA

EXPLORATION MAP OF THE LIMPE AREA
(PERSPECTIVE PLANE)

Scale 1 : 2,000



METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY

JULY 1985

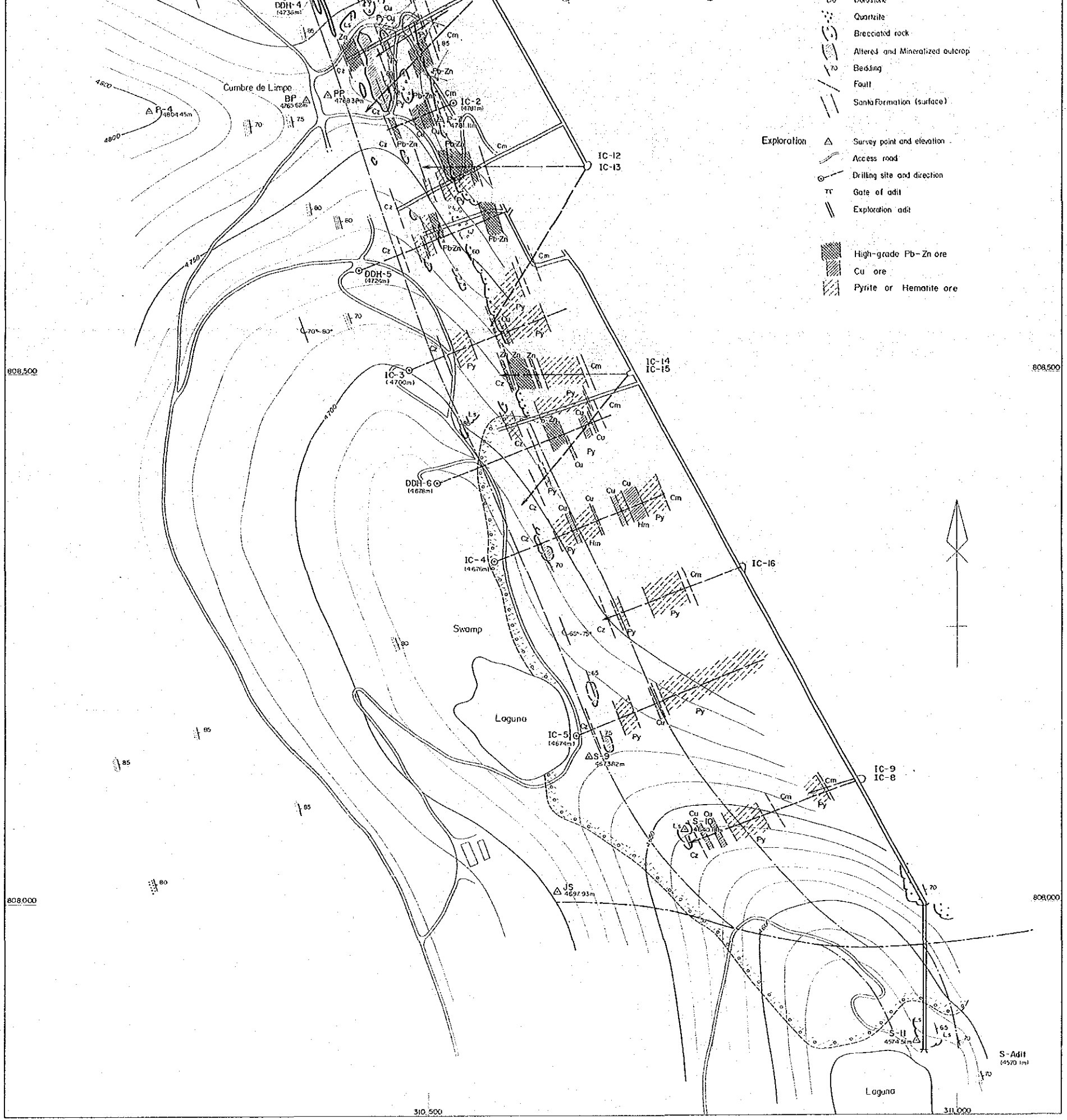
Prepared by MINDECO

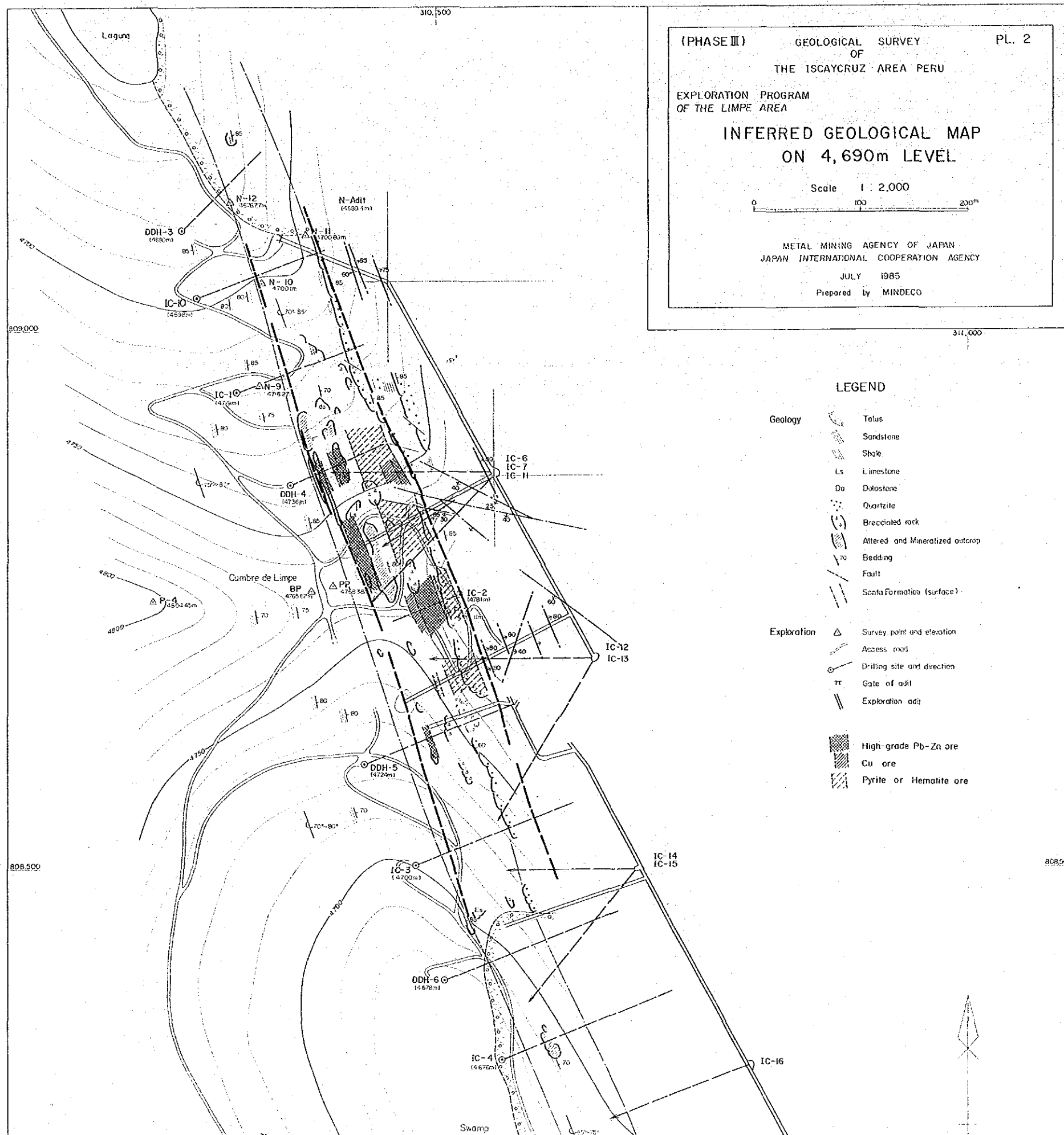
国際協力事業団
12665
図書資料室蔵書

LEGEND

- | | | |
|--------------------|--|---------------------------------|
| Geology | | Talus |
| | | Sandstone |
| | | Shale |
| | | Limestone |
| | | Dolomite |
| | | Quartzite |
| | | Brecciated rock |
| | | Altered and Mineralized outcrop |
| | | Bedding |
| | | Fault |
| | | Sanku Formation (surface) |
| Exploration | | Survey point and elevation |
| | | Access road |
| | | Drilling site and direction |
| | | Gate of adit |
| | | Exploration adit |
| | | High-grade Pb-Zn ore |
| | | Cu ore |
| | | Pyrite or Hematite ore |







(PHASE III) GEOLOGICAL SURVEY PL. 2
 OF
 THE ISCAYCRUZ AREA PERU

EXPLORATION PROGRAM
 OF THE LIMPE AREA

**INFERRED GEOLOGICAL MAP
 ON 4,690m LEVEL**

Scale 1 : 2,000

METAL MINING AGENCY OF JAPAN
 JAPAN INTERNATIONAL COOPERATION AGENCY

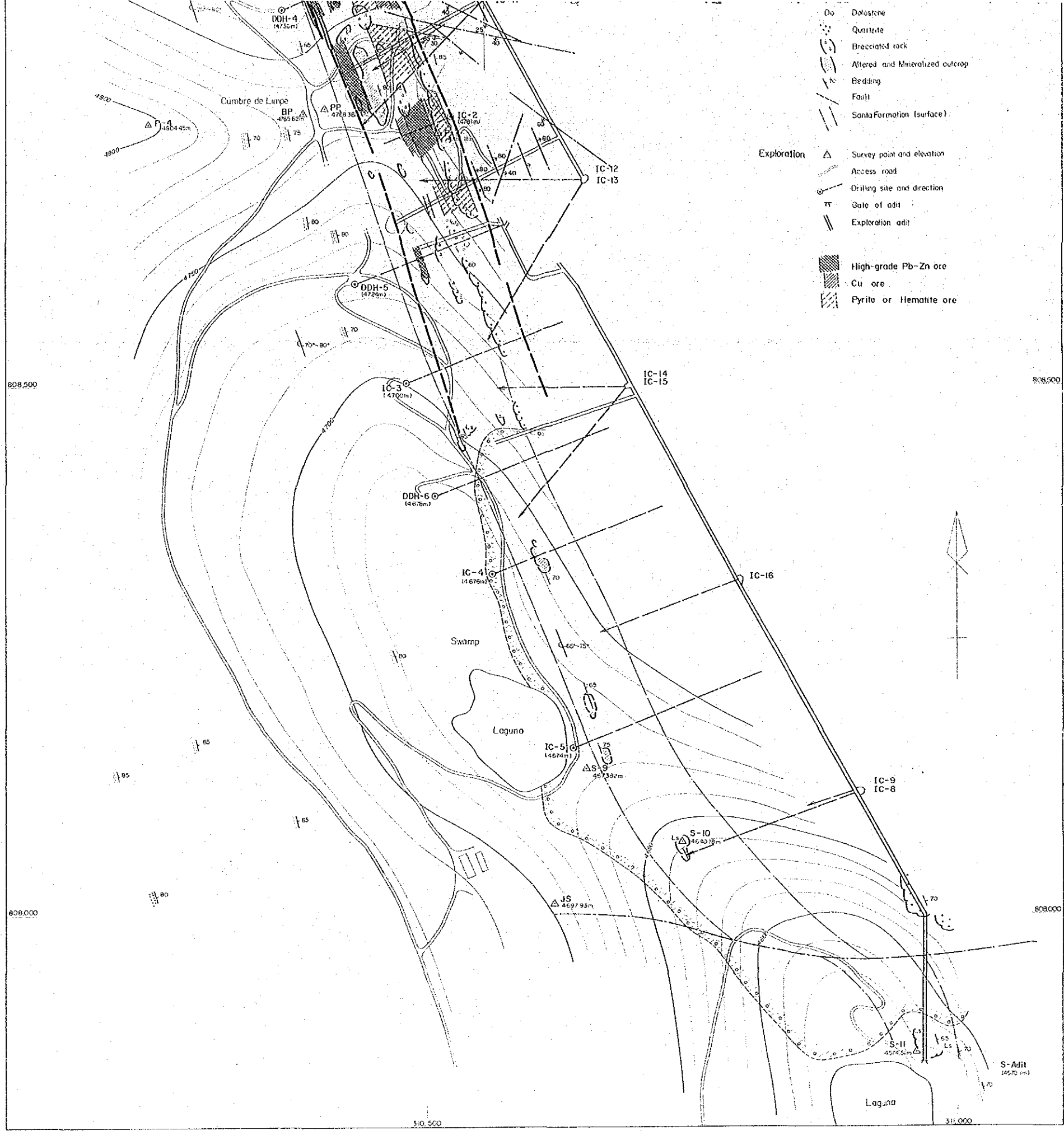
JULY 1985
 Prepared by MINDECO

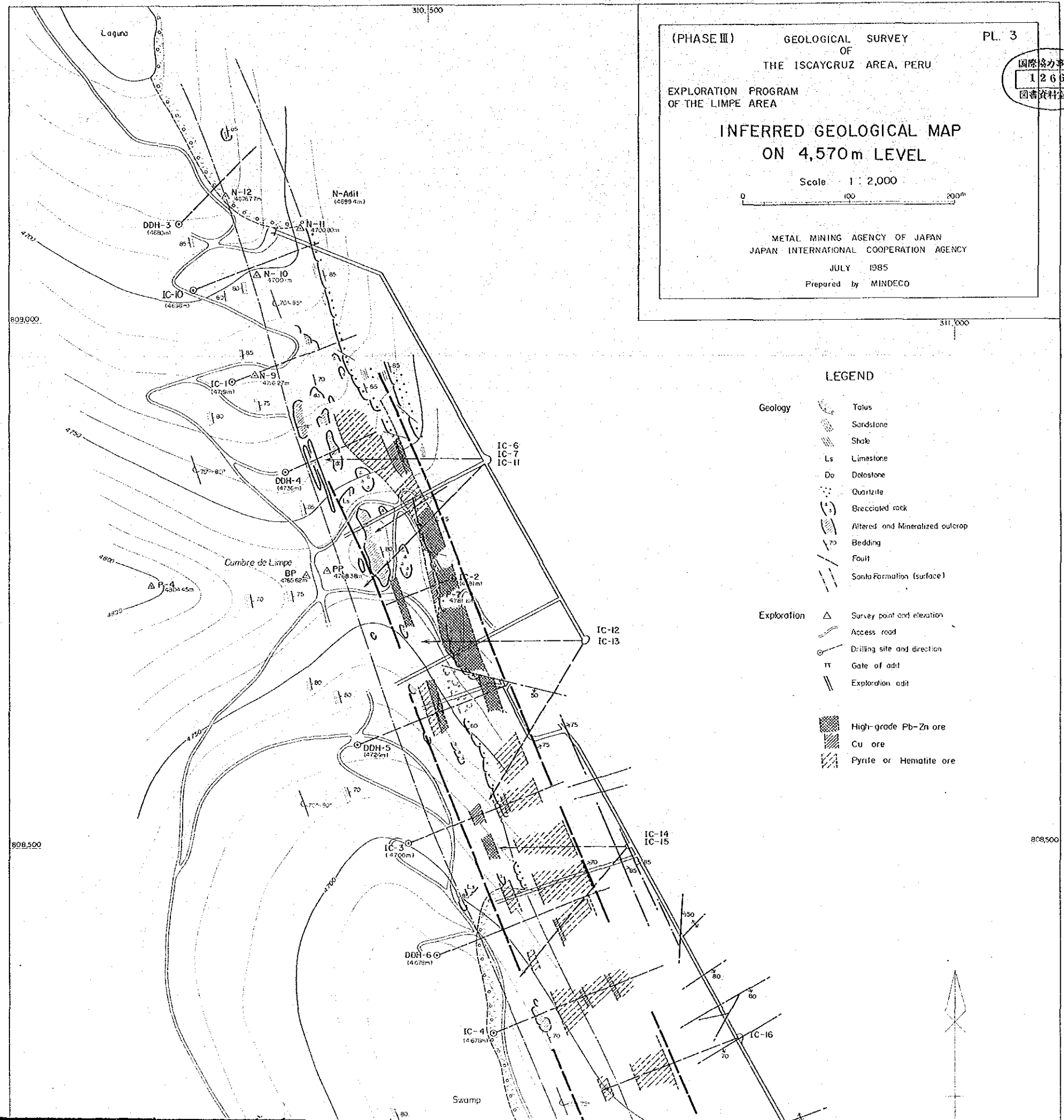
国際協力事業団
 12665
 国省資料室蔵書

LEGEND

- | | | |
|--------------------|--|---------------------------------|
| Geology | | Talus |
| | | Sandstone |
| | | Shale |
| | | Limestone |
| | | Dolomite |
| | | Quartzite |
| | | Brecciated rock |
| | | Altered and Mineralized outcrop |
| | | Bedding |
| | | Fault |
| | | Santa Formation (surface) |
| Exploration | | Survey point and elevation |
| | | Access road |
| | | Drilling site and direction |
| | | Gate of adit |
| | | Exploration adit |
| | | High-grade Pb-Zn ore |
| | | Cu ore |
| | | Pyrite or Hematite ore |







(PHASE III) GEOLOGICAL SURVEY PL. 3
 OF
 THE ISCAYCruz AREA, PERU
 EXPLORATION PROGRAM
 OF THE LIMPE AREA

国際協力事業団
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 図書資料室蔵書

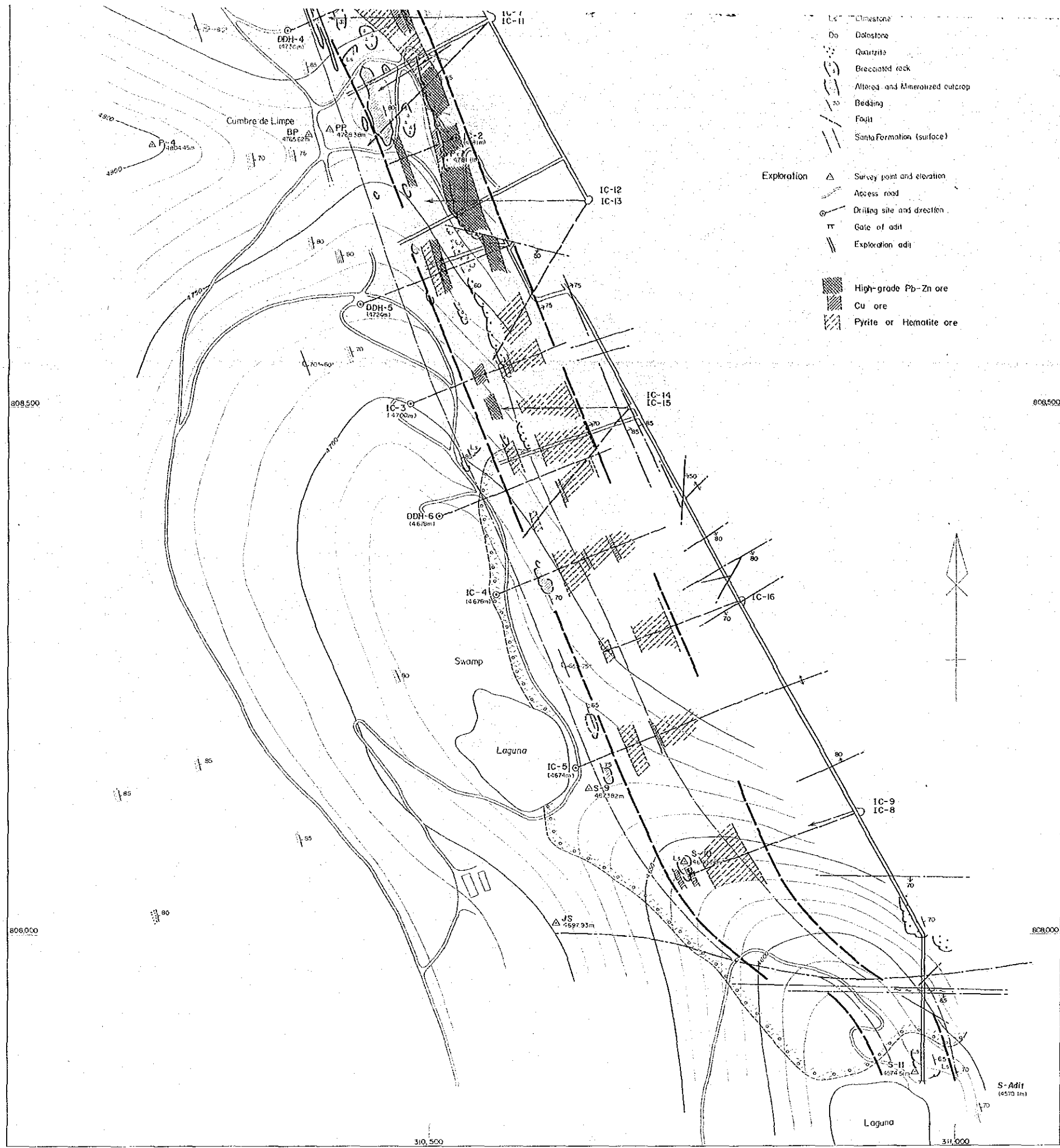
INFERRED GEOLOGICAL MAP
 ON 4,570m LEVEL

Scale 1 : 2,000
 0 100 200m

METAL MINING AGENCY OF JAPAN
 JAPAN INTERNATIONAL COOPERATION AGENCY
 JULY 1985
 Prepared by MINDECO

LEGEND

- Geology**
- Talus
 - Sandstone
 - Shale
 - Ls Limestone
 - Do Dolostone
 - Quartzite
 - Brecciated rock
 - Altered and Mineralized outcrop
 - Bedding
 - Fault
 - Santa Formation (surface)
- Exploration**
- Survey point and elevation
 - Access road
 - Drilling site and direction
 - Gate of adit
 - Exploration adit
- High-grade Pb-Zn ore
 Cu ore
 Pyrite or Hematite ore



- Limestone
- Dolomite
- Quartzite
- Brecciated rock
- Altered and Mineralized outcrop
- Bedding
- Fault
- Santa Formation (surface)

- Exploration
- △ Survey point and elevation
 - Access road
 - Drilling site and direction
 - π Gate of adit
 - Exploration adit

- High-grade Pb-Zn ore
- ▨ Cu ore
- ▨ Pyrite or Hematite ore



808,500

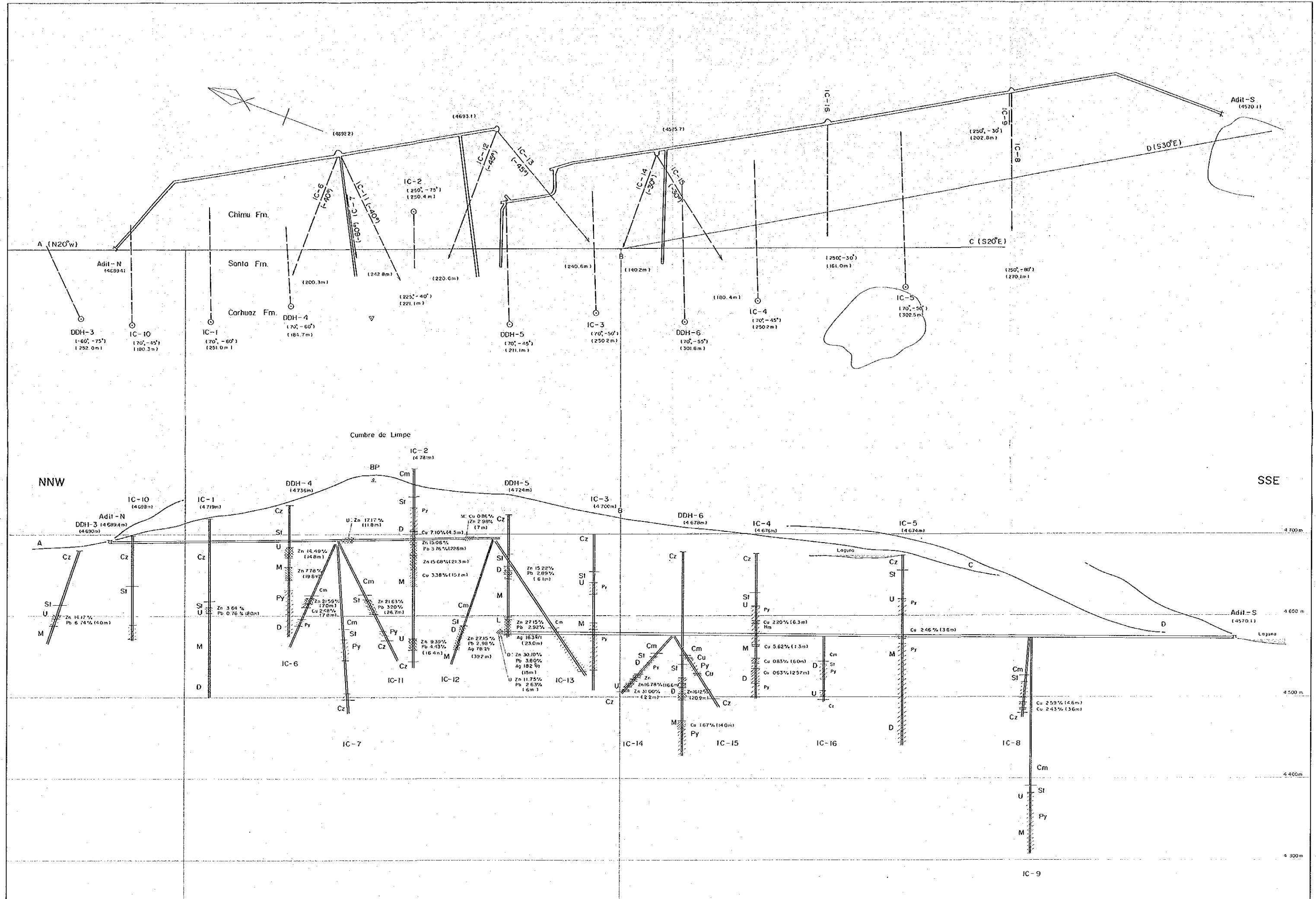
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808,000

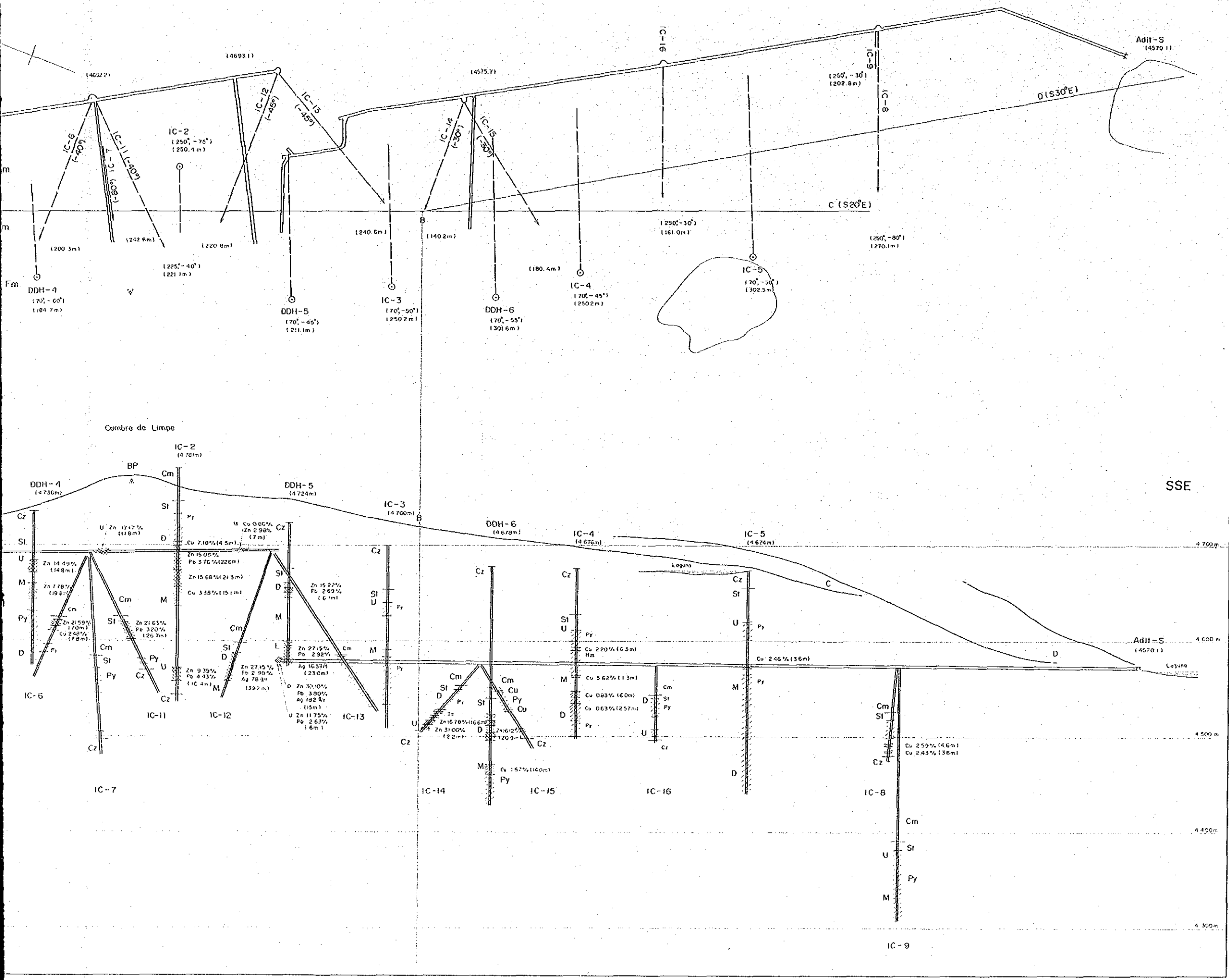
808,000

310,500

311,000



国際協力事業団
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LEGEND and ABBREVIATION

- Pb-Zn high-grade ore
- Pb-Zn low-grade ore
- Cu ore
- Massive Pyrite ore (Py)
- Massive Hematite ore (Hm)
- Cz Carhuaz Formation
- St Santa Formation
- Cm Chimu Formation
- U Upper horizon
- M Middle horizon
- L Lower horizon

GEOLOGIC DRILL LOG
ISCAYCRUZ PROJECT

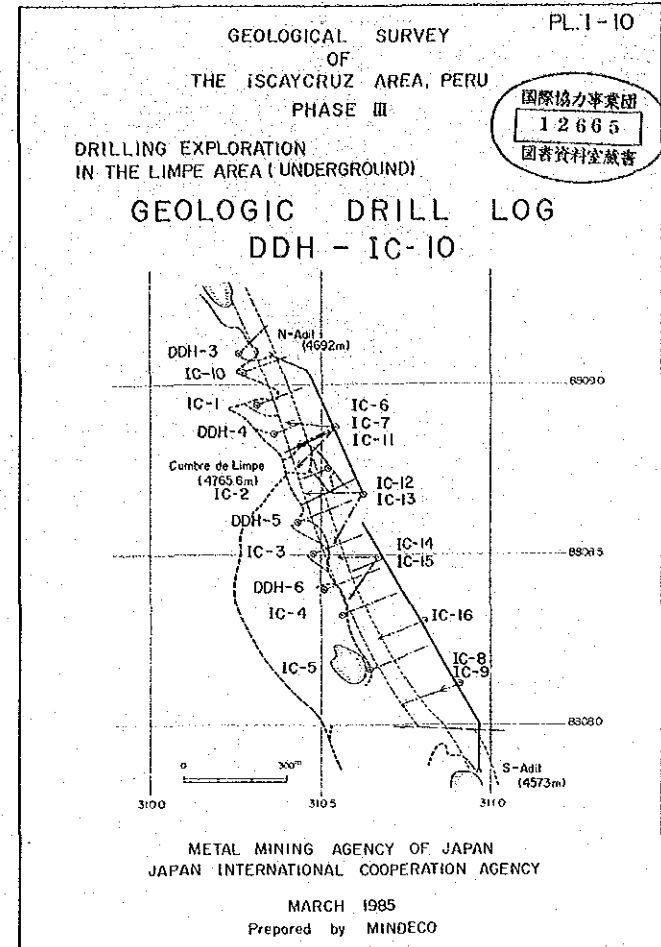
Coordinate N 8809.021 Direction 70°
 E 310.276 Inclination -45°
 Elevation 4,698m Total Depth 180.3m

DDH No. IC-10

Assays				Depth		Occurrence					Observations				
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Dep (m)	Str. (m)	Rock	Oxd	Alt	Min	Color		Fract.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					62		Soil								
					91		Ss	lim		Py	d-gry				
					109		Sh				blk	shd			Sh ⁺ phyllitic
					113		Ss		cal	Py	p-gry				
					113.2		Sh								
					114.7		Ml	lim		Py	grv				
					190										
					20		Sh		cal	Py	blk	shd			Phyllitic
					25.1 - 25.5										Do-Ls
					25.5 - 26.1										Ml
					27.8										
					30		Ml			Py	d-gry				Cal vs
					32.3		Sh				blk	shd			
					33.2		Ml			Py	d-gry				
					38.6										
					40		Ml								
					40		Sh								
					42		Ml		cal		grv				Alt (Ml - Sh - Do)
					46		Sh				blk	F			
					46		Sh				blk				Alt (Sh - Ml)
					50		Ml				p-gry	shd			
					52.2										
					53.6		Do	do	Py	blk					52.8m : wht - Do vs
					57.5		Ml		Py	grv					
					57.5		Ml	clv			shd				
					60		Br	clv	Py	d-gry	F	bcc			Srcc are contained
					61.6		Ml			Py	p-gry	shd			
					65.7		Clv	clv		p-brn	F				
					65.7		Ml	clv		l-gry					
					68.3		Sh	clv		d-gry	shd				
					70		Sh	cal	Py	grv					
					71.7										
					72.1		Clv	clv		l-gry	F				
					74.7		Ss	cal		l-gry					
					74.7		Sh		Py	d-gry	shd				Phyllitic
					80										
					82.6		Alt	cal	Py	l-gry					Alt (Ss - Ml - Sh)
					82.6		Sh		Py	blk	shd				Phyllitic
					80.6										Cz - Fm
					88.0		Pb-Cu		Py-Cu	yel					Sl - Fm
					90		Do		Py-Pb	grv					Wht-Do vs
					90		Sh	clv		grv	shd				
					94.7		Do		Py	grv	blk				
					98.3										
					99.0		Sh	clv	Py	shd					

Assays				Depth		Occurrence					Observations				
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Dep (m)	Str. (m)	Rock	Oxd	Alt	Min	Color		Fract.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					106.0		Do			Py	grv				Do intercalated with thin Sh
					107.4		Sh		clv		blk	F			
					110		Do			Py	p-grv				
					112.3		Ls				l-gry				
					113.2		Sh		do		blk	shd			
					114.7		Do			Py	p-grv				
					120										
					122.4		Sh		clv		blk	F			
					130		Do				brn				
					132.7		Ls	Lim	do	Py	l-gry				
					135.3		Do	Lim	do	Py	brn	shd			
					137.7		Sh	Lim	do	Py	brn	F			
					140		Do		clv	do	Py	brn			
					143.3		Clv	Lim			brn	F			
					145.1		Sid	Lim	do	lim	brn	shd			
42	0.15	0.22	1.00	10	149.3		Do	Lim	do	clv	brn	shd			Do with Sh
24	0.02	0.05	0.60	4	150										
18	0.96	0.32	0.16	5	151.7		Hm			Hm	brn				
					153.5		Do			sil	Cp-Py	wht			Peru silicified Cp-Py ore
					154.2		Drs								
47	0.08	0.07	0.11	6	155.7		Ore			sil	Cp-Zn	wht			
					156.6		Ore				Cp-Hm	blk			
					158.6		Hm	clv		Hm	blk				
					160										
					161.6										
17	1.09	0.05	0.16	8	163.3		Py			sil	Py	yel			Cc diss in druse
21	0.14	0.02	0.20	10	165.4		Cu				Cc				
					169.5		Spc		clv	Spc	blk	shd			
20	0.02	0.23	0.18	5	170		Hm				Hm				
					172.3										
20	0.02	0.07	0.35	3	172.8										
20	1.57	0.02	0.07	8	174.5		Sh		clv	Py	blk	shd			
29	0.03	0.02	0.35	5	175.5										
28	0.01	1.42	0.70	39	177.5		Do				l-gry				
					180										
					180.3										180.3m shd

Assays				Depth		Occurrence					Observations				
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Dep (m)	Str. (m)	Rock	Oxd	Alt	Min	Color		Fract.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					210										
					220										
					230										
					240										
					250										
					260										
					270										
					280										
					290										



LEGEND and ABBREVIATION

- | | | | |
|-----------|---------------------|-------|--|
| 10. Rock: | Pebble, sand, clay | Peb | |
| | Sandstone | Ss | |
| | Shale | Sh | |
| | Marl | Ml | |
| | Limestone | Ls | |
| | Dolomitic limestone | Do-Ls | |
| | Dolostone | Do | |
| | Siderite | Sid | |
| | Quartzite | Qtz | |
| | Ore, high grade | | |
| | Ore, low grade | | |
| | Pyrite ore | Py | |
| | Hematite ore | Hm | |
| | Skarn | Sk | |
| | Brecciated rock | Brc | |
| | Altered rock | Ald | |
| | Fault, fracture | F | |
-
- | | | | |
|----------------|-------------|-----|--|
| 11. Oxidation: | oxidized | oxd | |
| | limonitized | lim | |
-
- | | | | |
|-----------------|----------------|-----|--|
| 12. Alteration: | dolomitization | do | |
| | calcification | cal | |
| | argillization | clv | |
| | silicification | sil | |
| | sericitization | ser | |
-
- | | | | | |
|---------------------|----------------|-----|-------------|----------|
| 13. Mineralization: | Pyrite | Py | Chalcoprite | Cp |
| | Pb-minerals | Pb | Chalocite | Cc |
| | Zn-minerals | Zn | Hematite | Hm - Spc |
| | Oxide minerals | Oxd | Magnetite | Mt |
-
- | | | | | |
|------------|-------|---|-------|-----|
| 14. Color: | light | l | gray | grv |
| | dark | d | white | wht |
| | pale | p | brown | brn |
-
- | | | | |
|---------------|------------|-----|--|
| 15. Fracture: | Fault | F | |
| | sheared | shd | |
| | brecciated | brc | |
-
- | | | | |
|-------------------|---------------|------|--|
| 16. Observations: | dissemination | diss | |
| | veins | vs | |
| | veinlets | vls | |

GEOLOGIC DRILL LOG
ISCAICRUZ PROJECT

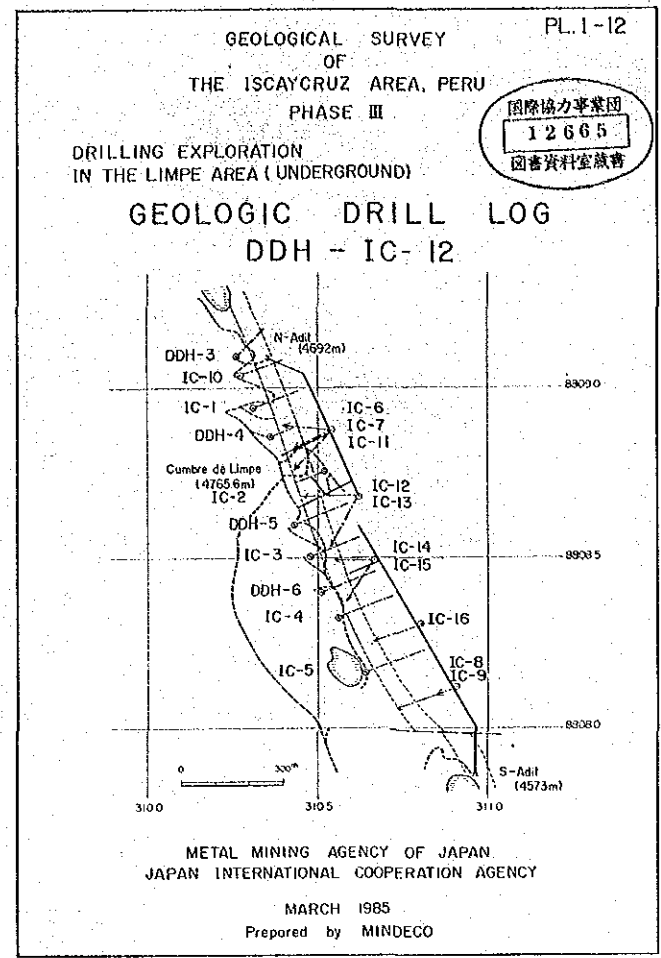
Coordinate N 8808694 Direction 270°
E 310.650 Inclination -45°
Elevation 4693m Total Depth 2206m

DDH No. **IC-12**

Assays					Depth		Symbol		Occurrence					Observations
Ag (g/t)	Zn (%)	Pb (%)	Cu (%)	Loss (ml)	Dep (m)	Str (m)	Rock	Oxd	All	Min	Color	Fract		
					10		Qtz				wht		Qtz: fgd-mgd qt only strong sil very hard	
					20									
					30									
					36.6		MI		clt		p-gry		MI(Md): banding str	
					39		MI		clt		p-gry		MI(Md)	
					40		Qtz		sil		wht			
					43.5		Alt		clt		p-gry		Alt (Ss, MI): banding str	
					45		MI		clt		d-gry			
					46.1		Qtz		sil		wht			
					50									
					56.6		Sh				blk		Sh blk, phyllitic 590-592m: Carbonate 606-609m: Ss	
					60									
					61.8		Qtz		sil		wht			
					63.7		Do				d-gry			
					65		Qtz		sil		wht			
					70									
					76.6		Sh				blk shd			
					77.4		Ss		sil		grt			
					79.5		Do				d-gry			
					80		MI				d-gry			
					83.4		MI		clt		p-gry shd			
					84.1		Do				blk			
					85.1		MI		clt		p-gry shd			
					87.7		MI				p-gry			
					88.9		MI		clt		p-gry			
					90		MI		clt		p-gry		MI (Mudstone) massive very soft	
					96.4		Ss		sil		grt		Ss: fgd-mgd, very hard quartzose	

Assays					Depth		Symbol		Occurrence					Observations
Ag (g/t)	Zn (%)	Pb (%)	Cu (%)	Loss (ml)	Dep (m)	Str (m)	Rock	Oxd	All	Min	Color	Fract		
					101.0		Do				blk		(O1 Sid - Rutile - Py)	
					102.2		Ss		sil		l-gry			
					104.2		Ss		do		grt		Ss with dolomitic parts	
					107.1		Sh		do		blk		Sh with dolomite parts	
					110		Ls		col		grt		102.9m: Zn diss., 100m	
					112.1		Ls		col		grt		Col vs	
					113.2		MI		col		grt		MI with Sh end dolomitic parts	
					115.0		Ss		sil		grt			
					119.3		Sh				blk shd			
					120		Ss				grt		Ss dolomitic 122.3m: Zn diss 122.4m and 122.7m: gypsum vs.	
					122.6		Do				d-gry			
					126.0		Ss		sil		l-gry			
					130								Cm - Fm	
					130.9		Do		do		d-gry		St - Fm	
					133.7		Sh		do		blk			
					134.4		MI		do		p-gry			
					135.6		Sh		do		p-gry			
					137.2		MI		do		p-gry			
					140		MI		do		p-gry			
					141.8		MI		do		p-gry shd			
					142.6		MI		clt		p-gry shd			
					144.5		Alt		clt		blk shd			
					145		Alt		sil-clt		Zn d-gry			
					145.5		Zn-ore		sil		Zn blk		(Sp - Qt - Sid - Amr)	
					146.6		Alt		clt		Zn blk brn		Pb Zn ore: Pb + Zn 5-15%	
					147.4		Py-ore				Py Zn d-ysl shd			
					149.2		Py-ore				Py Zn d-ysl			
					150		Py-ore				Py Zn d-ysl			
					151.4		Zn-ore		brn		Zn Py brn		Zn diss in Po mas (Po Sp - Py - Gl) 172m 001 211 8.37 40	
					152.7		Py-ore				Py yel			
					153.8		Zn-ore				Pb Py brn			
					156.2		Zn-ore				Pb Py brn			
					159.2		Zn-ore				Pb Py brn			
					160		Alt		clt		blk shd		1605-1606m: clt shd	
					161.3		Py-ore				Py Zn d-ysl		(Sp - Gl - Py - Po)	
					163		Pb-Zn-ore		brn		Zn Py brn		Zn mas ore: brn and yel typ Sp (Sp - Gl - Qt - Sid - Cnl) Pb + Zn 40-50%	
					164.1		Zn-ore		clt		Py Zn d-ysl		(Sp - Gl - Pb - Py) (Sp - Cp - Py - Qt) Sp: d-grmish type (Sp - Cp - Py - Gl)	
					165		Zn-ore				Zn brn			
					165.6		Zn-ore				Zn brn			
					167.3		Zn-ore				Zn Py brn			
					169.2		Pb-Zn-ore				Zn Py brn		Pb-Zn mas ore: 40-50% d-brn, brn and yel types. three types of Sp ore observed	
					170		Zn-ore				Zn Py brn			
					175.6		Zn-ore		clt		Py Zn d-ysl		140m 048 323 4480 153 (Sp - Gl - Py - Cp)	
					176.6		Pb-Zn-ore				Pb Zn d-ysl			
					178.4		Py-ore				Py d-ysl		(Sp - Gl - Py - Po)	
					179.8		Zn-ore				Zn Py brn			
					180		Do		do		l-gry		80m 006 264-2159 32 (Sp - Gl - Py - Cp - Po)	
					182.3		Zn-ore				Zn Py d-brn			
					183.1		Sh				blk		Av 392m 019 261 2408 78 Int. Cu(%) Pb(%) Zn(%) Ag(g/t)	
					184.1		Sh				Zn Py blk			
					185.1		Sh				blk shd			
					186.4		Do		do		d-gry		Do wht vs	
					188.2		Sh				blk shd			
					189.3		Alt		do		Zn d-gry shd			
					190		Do		do		d-gry			
					190.4		Do				d-gry			
					191.4		Sh		do		Py blk			
					191.5		Do		do		grt			
					191.7		Ss-Do		do		Py grt			
					191.9		Ls		do		grt			
					192.1		Sid		do		Zn Py d-brn			
					192.3		Ls		brn		grt brn			

Assays					Depth		Symbol		Occurrence					Observations
Ag (g/t)	Zn (%)	Pb (%)	Cu (%)	Loss (ml)	Dep (m)	Str (m)	Rock	Oxd	All	Min	Color	Fract		
					201.0		Ls		brn		grt brn			
					204.2		Do		do		Po d-gry		2038-2042m: Sh	
					208.8		Py-ore		brn		d-gry shd			
					210		Sh		brn		blk shd			
					211.6		Do		do		grt			
					215.0		Sh				Py d-gry			
					216.3		Py-ore		Sid		Py yel		Massive Py ore (Sid - Py - Cnl - Qt)	
					218.5		Sh				Py blk		Phyllitic 220.6m end	
					220									



LEGEND and ABBREVIATION

10. Rock:	Pebble, sand, clay	Peb	
	Sandstone	Ss	
	Shale	Sh	
	Marl	MI	
	Limestone	Ls	
	Dolomitic limestone	Do - Ls	
	Dolomite	Do	
	Siderite	Sid	
	Quartzite	Qtz	
	Ore, high grade		
	Ore, low grade		
	Pyrite ore	Py	
	Hematite ore	Hm	
	Skarn	Sk	
	Brecciated rock	Brc	
	Altered rock	Alt	
	Fault, fracture	F	
11. Oxidation:	oxidized	oxd	
	limonitized	lim	
12. Alteration:	dolomitization	do	
	calcification	cal	
	argillization	clt	
	silicification	sil	
	sericitization	ser	
13. Mineralization:	Pyrite	Py	
	Pb-minerals	Pb	
	Chalcocite	Cc	
	Zn-minerals	Zn	
	Hematite	Hm	
	Magnetite	Mt	
14. Color:	light	l	
	dark	d	
	pale	p	
	gray	grt	
	white	wht	
	brown	brn	
15. Fracture:	Fault	F	
	sheared	shd	
	brecciated	brc	
16. Observations:	dissemination	diss	
	veins	vs	
	veinlets	vls	

**GEOLOGIC DRILL LOG
ISCAICRUZ PROJECT**

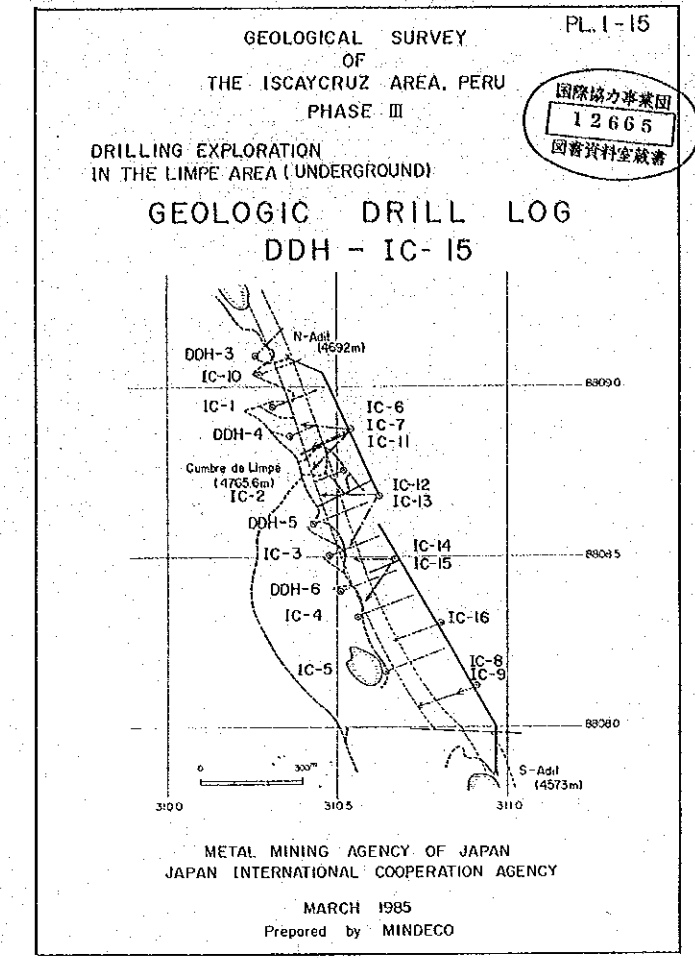
Coordinate N 8808.496 Direction 220°
E 310.688 Inclination 30°
Elevation 4.575m Total Depth 180.4m

DDH No. IC-15

Assays					Depth (m)	Symbol	Occurrence					Observations
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Other (%)			Rock	Oxid.	Alt.	Min.	Color	
					32	MI (Md)		cl		p-gr	crd	
					44	Do-Ss				gr		MI massive, soft
					110	MI (Md)				p-gr		
					116	MI		cl		p-gr	shd	
					162	MI		do		Py	p-gr	
					177	Ss		do		gr		
					20	Do				Py	blk	
					218	Ss		do		gr		
					246	Do		sil		gr		
					257	Do		do		gr		
					272	Alt		cl		p-gr	shd	Alt (MI-Do-Sh)
					30	Qtz		sil		gr		Qtz: fgd-mgd, sil very hard
					368	MI		cl		d-gr	shd	
					378	Iz		sil		gr		392m: Zn diss in J
					416	Do-Ss		do		Py	d-gr	Py vs and diss
					436	Do-Ss				Py	gr	
					495	Ss		sil		gr		Cm-Fm
					518	Do				d-gr		Boundary of Cm and St-Fms is transitional
					522	MI		do-sil		p-gr		535-543m Do
					554	MI		cl		p-gr	shd	
					564	MI		cl		p-gr	shd	
					572	MI		cl		p-gr	shd	
					579	MI		cl		p-gr	shd	
20	0.06	0.01	0.08	6	60	Py-ore		cl		Py	yel	Py massive ore
20	0.15	0.03	0.15	15	61	Py-ore		cl		Py	yel	Py siliceous ore
20	0.13	0.01	0.04	15	64	Py-ore		cl		Py	yel	Py massive ore
					66	Py-ore		cl		Py	yel	Py massive ore
					67	Py-ore		cl		Py	yel	Py massive ore
					68	Py-ore		cl		Py	yel	Py massive ore
					70	Py-ore		cl		Py	yel	Py siliceous ore
					74	Py-ore		cl		Py	yel	Py massive ore
					77	Py-ore		cl		Py	yel	Py massive ore
					80	Py-ore		cl		Py	yel	Py massive ore
					83	Py-ore		cl		Py	yel	Py siliceous ore
					84	Py-ore		cl		Py	yel	849-854m Energit Cp 8%
					89	Py-ore		cl		Py	yel	
					93	Py-ore		cl		Py	yel	
					94	Py-ore		cl		Py	yel	
					97	Py-ore		cl		Py	yel	
					98	Py-ore		cl		Py	yel	

Assays					Depth (m)	Symbol	Occurrence					Observations	
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Other (%)			Rock	Oxid.	Alt.	Min.	Color		Fract.
					100	Alt		cl		Py-Hm	p-gr	shd	
					102	MI-ore		cl		Sp	blk		
					107	Alt		do-sil		Zn-Cu	ch-cl	hm-Py	105.8m: Zn-Cu diss
					110	Ls		col		l-gr		107.4-107.7m Sh Col vs	
					116	Sh							
					120	Ls				gr			
					122	Sh		sil		blk			
					123	Ls				gr			
					126	Alt		cl		p-gr	shd	1262-1268m Col v 1268-1305m Brc	
					130	Do		do-sil		Zn-Py	p-gr		
					134	Sh				blk		1351-1353m: 20cm Zn ore 15%	
					135	Ls		do		Zn	l-gr		
					136	Zn				Zn		1376-1400m: Zn diss 4%	
2.9	0.03	0.21	2.71	18	140	Py-Pb		sil		Py-Pb	d-yel	1388m: Pb-Zn patch	
2.9	0.04	0.24	2.48	20	143	ore				Py-Zn			
1.2	0.12	0.02	8.31	20	143	Do		do		Zn-Py	brc	Zn diss ore in brc Do	
					145	Alt				d-gr	brc	Alt (Sh-MI-Ls)	
					147	Ls				gr			
					150	Sh		cl		shd			
					156	Ls				gr			
					160	Sh		col		blk		Calc Sh	
					162	Ls				gr			
					166	Sh				blk		Calc Sh	
					168	Alt (Ls)				Py	l-gr	Alt (Ls-Sh-MI)	
					170	Alt (Sh)				d-gr		Alt (Sh-MI-Ls)	
					171	Sh				Py	blk		
					178	Ls				blk			
					180	Col-S				blk		180.4m end	

Assays					Depth (m)	Symbol	Occurrence					Observations
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Other (%)			Rock	Oxid.	Alt.	Min.	Color	
					210							
					220							
					230							
					240							
					250							
					260							
					270							
					280							
					290							



LEGEND and ABBREVIATION

- | | | | |
|-----------|---------------------|-------|--|
| 10. Rock: | Pebble, sand, clay | Peb | |
| | Sandstone | Ss | |
| | Shale | Sh | |
| | Marl | MI | |
| | Limestone | Ls | |
| | Dolomitic limestone | Do-Ls | |
| | Dolostone | Do | |
| | Siderite | Sid | |
| | Quartzite | Qtz | |
| | Ore, high grade | | |
| | Ore, low grade | | |
| | Pyrite ore | Py | |
| | Hematite ore | Hm | |
| | Skarn | Sk | |
| | Brecciated rock | Brc | |
| | Altered rock | Alt | |
| | Fault, fracture | F | |
-
- | | | | |
|----------------|-------------|-----|--|
| 11. Oxidation: | oxidized | oxd | |
| | limonitized | lim | |
-
- | | | | |
|-----------------|----------------|-----|--|
| 12. Alteration: | dolomitization | do | |
| | calcification | cal | |
| | argillization | arg | |
| | silicification | sil | |
| | sericitization | ser | |
-
- | | | | | |
|---------------------|----------------|-----|--------------|--------|
| 13. Mineralization: | Pyrite | Py | Chalcopyrite | Cp |
| | Pb-minerals | Pb | Chalcocite | Cc |
| | Zn-minerals | Zn | Hematite | Hm-Spc |
| | Oxide minerals | Oxd | Magnetite | Mt |
-
- | | | | | |
|------------|-------|----|-------|-----|
| 14. Color: | light | l- | gray | gry |
| | dark | d- | white | wht |
| | pale | p- | brown | brn |
-
- | | | | |
|---------------|------------|-----|--|
| 15. Fracture: | Fault | F | |
| | sheared | shd | |
| | brecciated | brc | |
-
- | | | | |
|-------------------|---------------|------|--|
| 16. Observations: | dissemination | diss | |
| | veins | vs | |
| | veinlets | vis | |

**GEOLOGIC DRILL LOG
ISCAYCRUZ PROJECT**

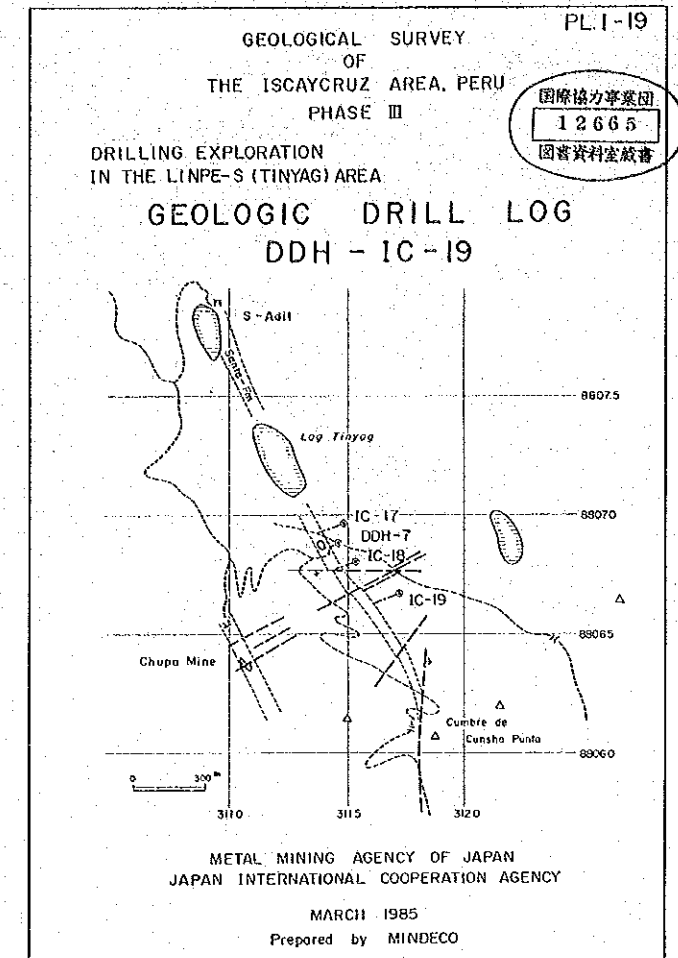
Coordinate N 8806.740 Direction 250°
E 311.630 Inclination -50°
Elevation 4.694m Total Depth 203.6m

DDH No. IC-19

Assays					Depth		Symbol		Occurrence					Observations	
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)	Dep (m)	Str. (m)	Rock	Oxd	All	Min	Color	Fract.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
									Qtz	lim	sil		whl		Qtz: mgd. vary hard
								45°							
					10										
					20										
					23.5			30°	Qtz	lim	sil	cl	whl		Qtz intc. with Sh thin beds
					28.8				Ml	lim	cl		p-brn		
					30			30°	Qtz	lim	sil		whl		
					39.0				All (Ss)		cl		l-gry		All (Ss): MU
					40.8				Ml	lim	cl		p-brn		40.4-40.5m: crd
					42.1			25°	Qtz	lim	sil		whl		44.2m: Qtz-Lim v
					50										
					50.6				Qtz	lim	sil		d-brn	crd	50.6-50.9m: brn cly F
					55.6				Cly		cl		p-gry	shd	
					56.4				Ml		cl		p-brn		Ml: massive, soft
					58.6				Qtz	lim	sil		red-brn	crd	
					60			30°					whl		
					63				Qtz		sil		whl		
					67.6				Qtz	hm	sil		red-brn	crd	
					70			30°					whl		
					78.5				Qtz	lim	sil		d-brn	crd	
					80										
					89.0				Ml	lim	cl		p-brn		
					90			30°					p-gry		
					95.1										
									Qtz	lim	sil		whl	drs	95.9-96.1m: cly F
													d-brn		96.4-96.7m: cly F

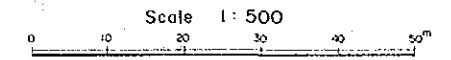
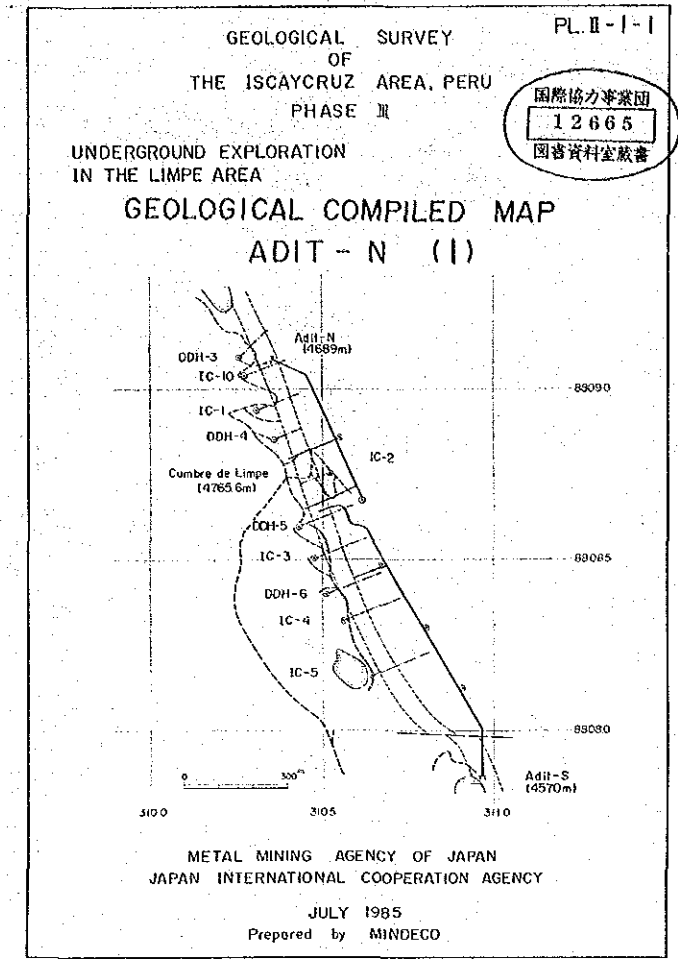
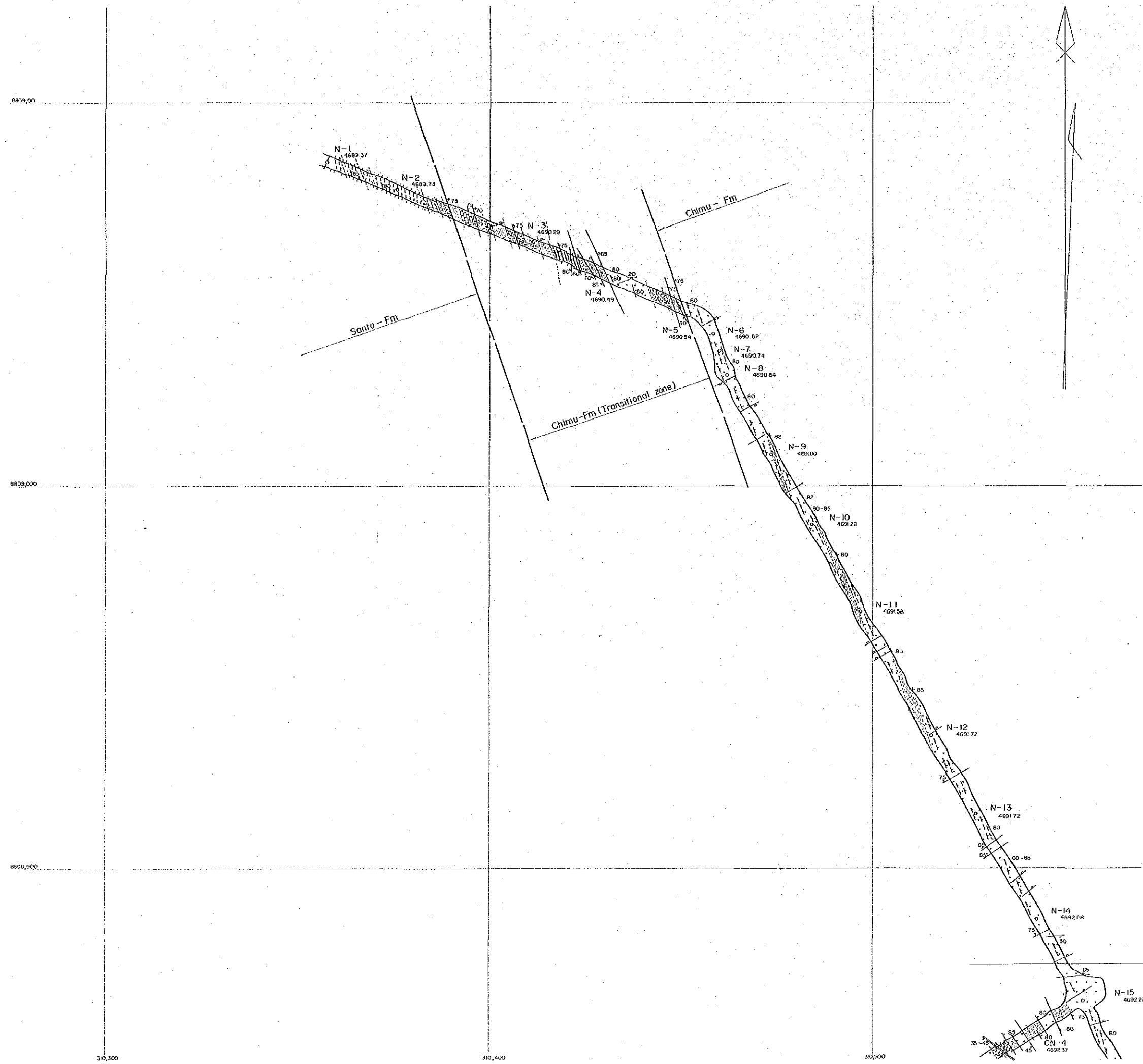
Assays					Depth		Symbol		Occurrence					Observations		
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)	Dep (m)	Str. (m)	Rock	Oxd	All	Min	Color	Fract.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
									Qtz	lim	sil		Py	d-brn	crd	
									Ss		cl			d-brn		
					110			40°	Qtz		sil		Py	whl		
					120											
					121.0				Ss	lim	sil		Py	whl		Ss (Qtz): fgd
					125.5									shd		
					127.6									shd		Cm - Fm
					130									shd		
					140									frc		
					144.0				Ald (F)	lim	cl		brn	whl	frc	
5	0.05	0.3	0.8	38	147.6				Gos	lim			brn	frc		
					149.0				Ald		cl		Py	shd		Ss - Fm
					150			35°								
					156.4				Ald (Sk)		cl		Py	p-gry		156.4m: Zn patch
					157.6											
					158.0				F		cl		p-brn	F		
					160									brc		
					163.7											
					164.3											
					165.0				Pyore		sil		Py			
					166.5						cl					
					167.7				Ald		sil		Py	whl		Ald (Sh)
					168.7											
					170				Pyore		sil		Py	yel		
					173.9											
					178.2											
					180				Ald		cl		Py	whl		
					183.7											
					187.0											
					189.0				Sh (Ald)		cl		Py	whl		Cz - Fm
					192				Sh (Ald)		cl		Py	d-yel		
					193.9				Ald							
					197				Sh (Ald)		cl		Py	whl		
					203.6				Ss		cl		Py	whl		Fgd 203.6m end

Assays					Depth		Symbol		Occurrence					Observations		
Ag (%)	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)	Dep (m)	Str. (m)	Rock	Oxd	All	Min	Color	Fract.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
					210											
					220											
					230											
					240											
					250											
					260											
					270											
					280											
					290											



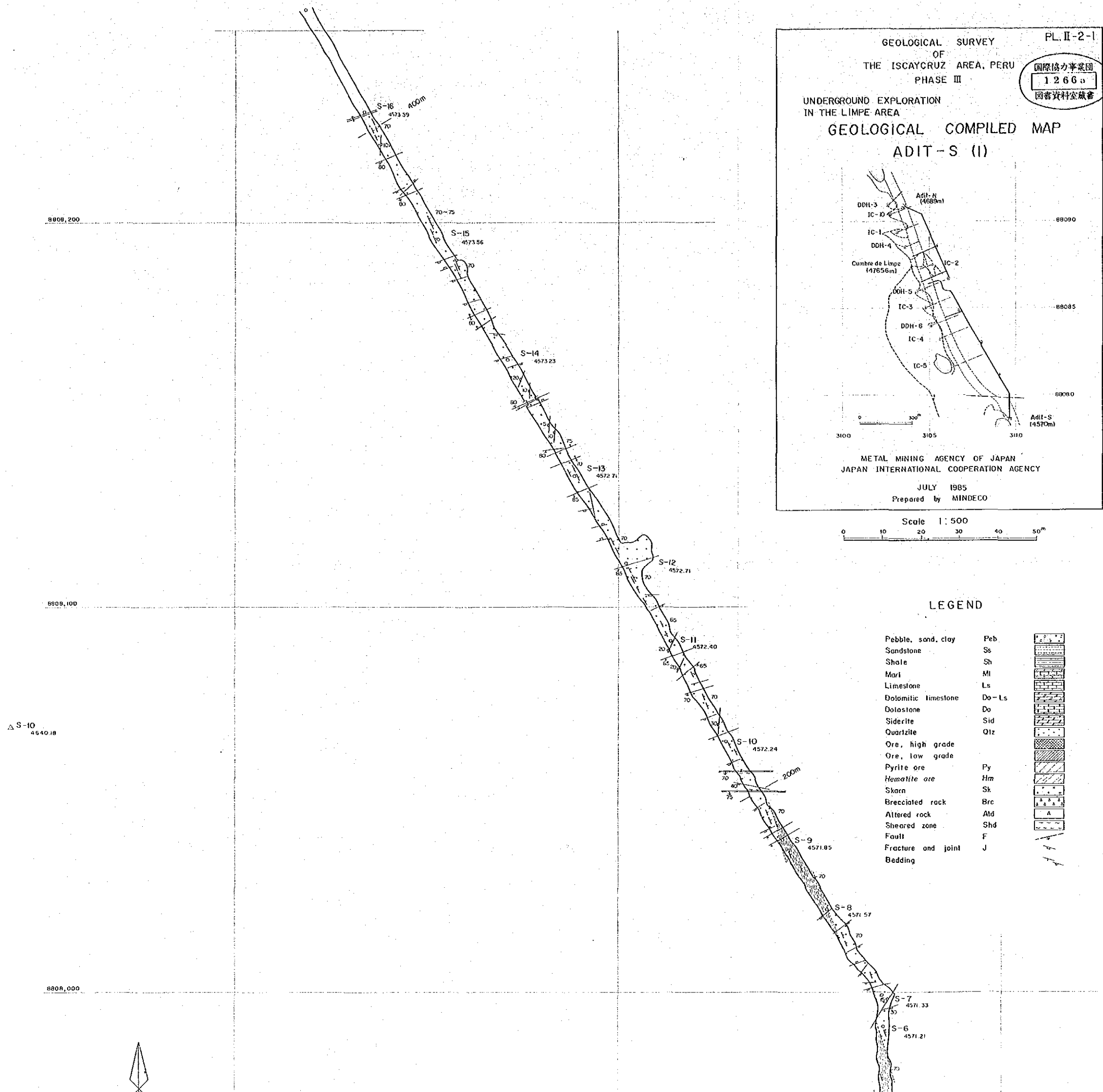
LEGEND and ABBREVIATION

10. Rock:	Pebble, sand, clay	Peb	
	Sandstone	Ss	
	Shale	Sh	
	Marl	Ml	
	Limestone	Ls	
	Dolomitic limestone	Do - Ls	
	Dolomite	Do	
	Siderite	Sid	
	Quartzite	Qtz	
	Ore, high grade		
	Ore, low grade		
	Pyrite ore	Py	
	Hematite ore	Hm	
	Skarn	Sk	
	Brecciated rock	Brc	
	Altered rock	Ald	
	Fault, fracture	F	
11. Oxidation:	oxidized	oxd	
	limonitized	lim	
12. Alteration:	dolomitization	do	
	calcification	cal	
	argillization	arg	
	silicification	sil	
	sericitization	ser	
13. Mineralization:	Pyrite	Py	Chalcopyrite Cp
	Pb-minerals	Pb	Chalcocite Cc
	Zn-minerals	Zn	Hematite Hm
	Oxide minerals	Ord	Magnetite Mt
14. Color:	light	l	gray gry
	dark	d	white wht
	pale	p	brown brn
15. Fracture:	Fault	F	
	sheared	shd	
	brecciated	brc	
16. Observations:	dissemination	diss	
	veins	vs	
	veinlets	vl	



LEGEND

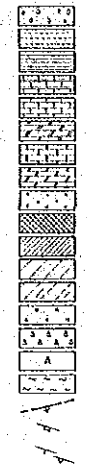
Pebble, sand, clay	Peb	
Sandstone	Ss	
Shale	Sh	
Marl	Ml	
Limestone	Ls	
Dolomitic limestone	Do-Ls	
Dolostone	Do	
Siderite	Sid	
Quartzite	Qtz	
Ore, high grade		
Ore, low grade		
Pyrite ore	Py	
Hematite ore	Hm	
Skarn	Sk	
Brecciated rock	Brc	
Altered rock	Ald	
Sheared zone	Shd	
Fault	F	
Fracture and joint	J	
Bedding		



Scale 1:500
0 10 20 30 40 50m

LEGEND

- | | |
|---------------------|-------|
| Pebble, sand, clay | Feb |
| Sandstone | Ss |
| Shale | Sh |
| Marl | Ml |
| Limestone | Ls |
| Dolomitic limestone | Do-Ls |
| Dolostone | Do |
| Siderite | Sid |
| Quartzite | Qtz |
| Ore, high grade | |
| Ore, low grade | |
| Pyrite ore | Py |
| Hematite ore | Hm |
| Skon | Sk |
| Brecciated rock | Brc |
| Altered rock | Ald |
| Sheared zone | Shd |
| Fault | F |
| Fracture and joint | J |
| Bedding | |



△ S-10
4540.18

8908,100

8908,000

8907,900

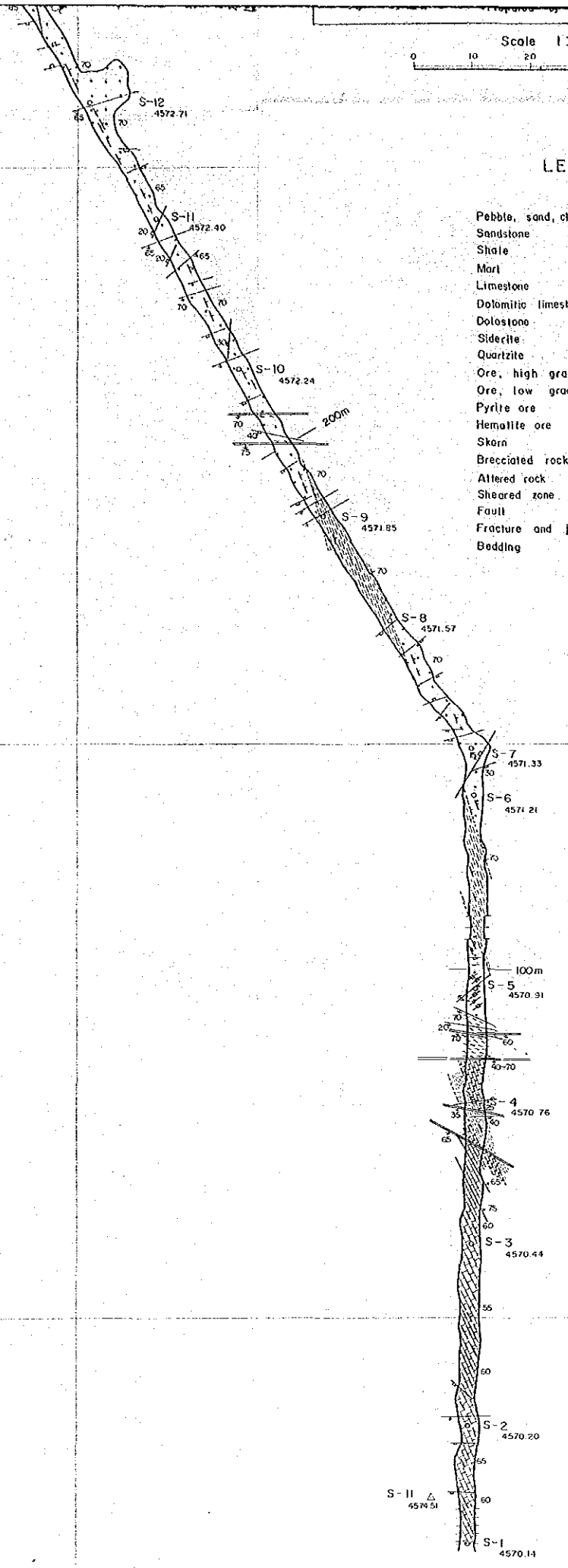


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310,900

○ A
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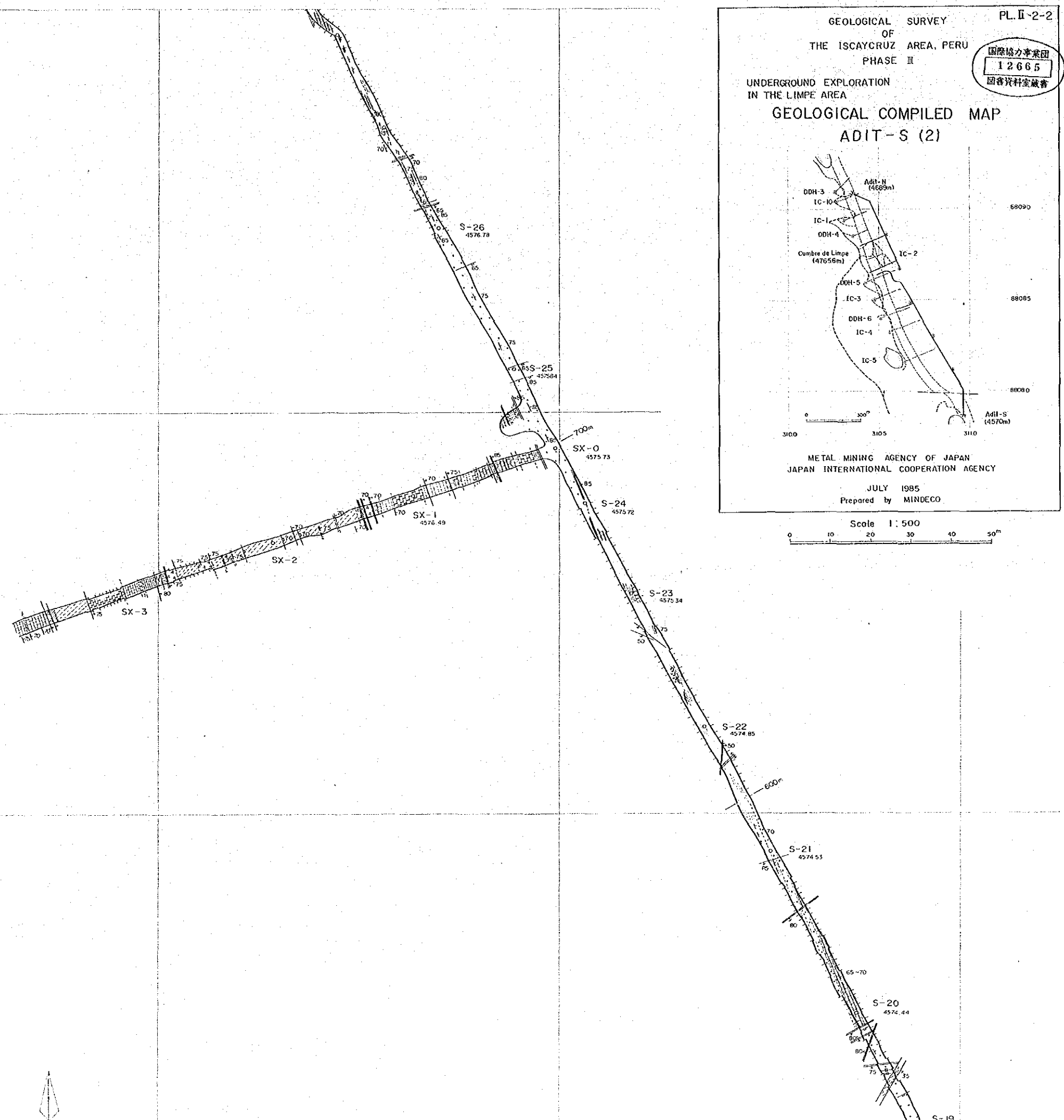
311,000



8809 600

8808 500

8138 400



PL. II-2-2

GEOLOGICAL SURVEY
OF
THE ISCAYCRUZ AREA, PERU
PHASE III

国際協力事業団
12665
図書資料室蔵書

UNDERGROUND EXPLORATION
IN THE LIMPE AREA

GEOLOGICAL COMPILED MAP
ADIT-S (2)

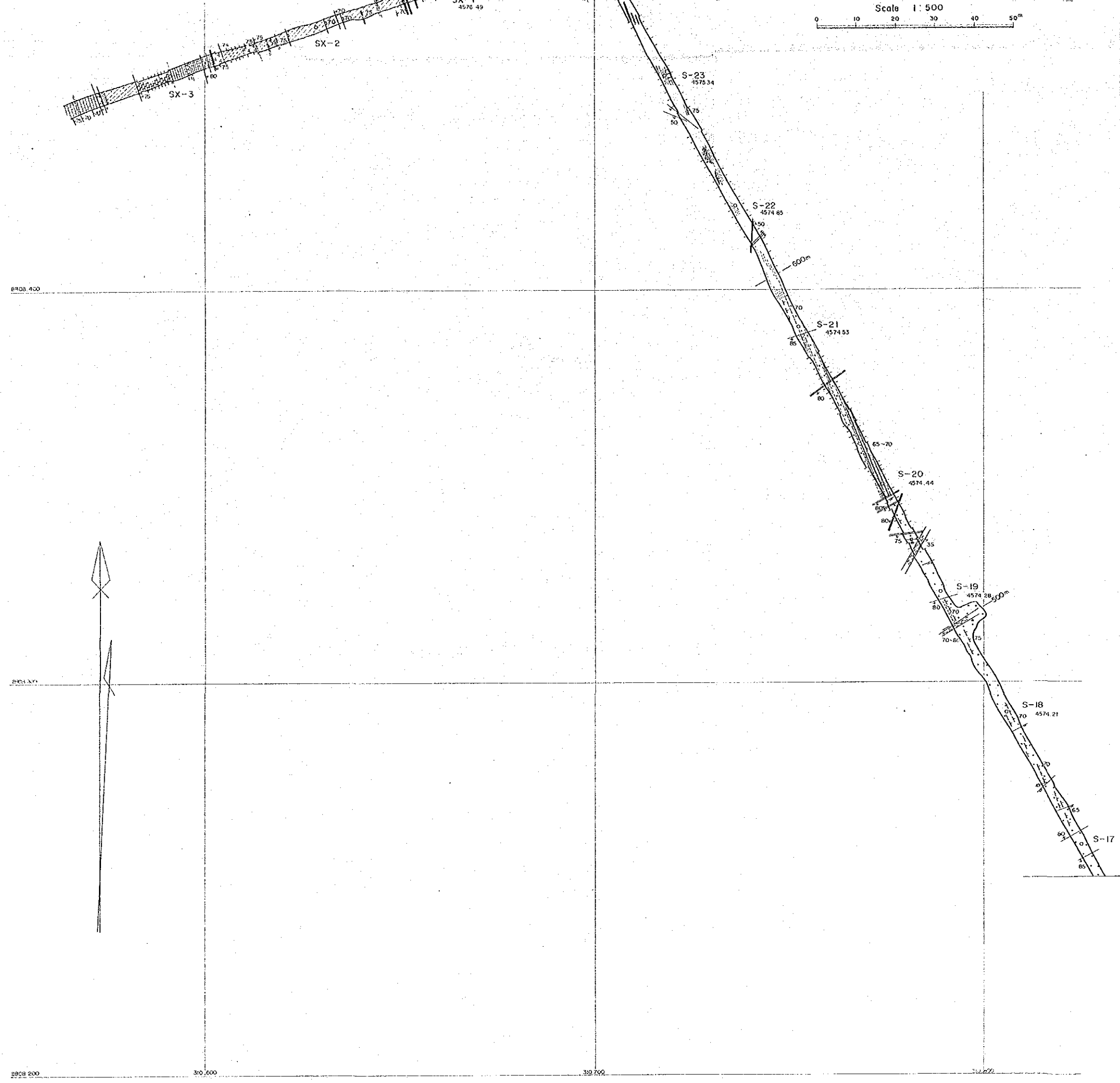
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY

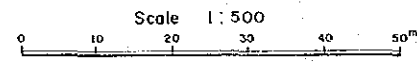
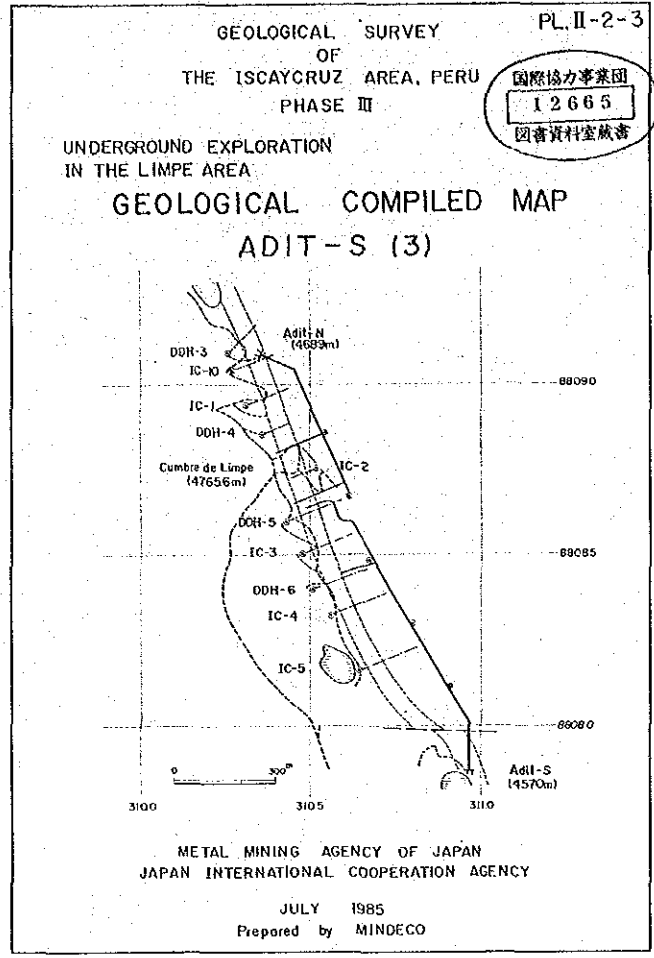
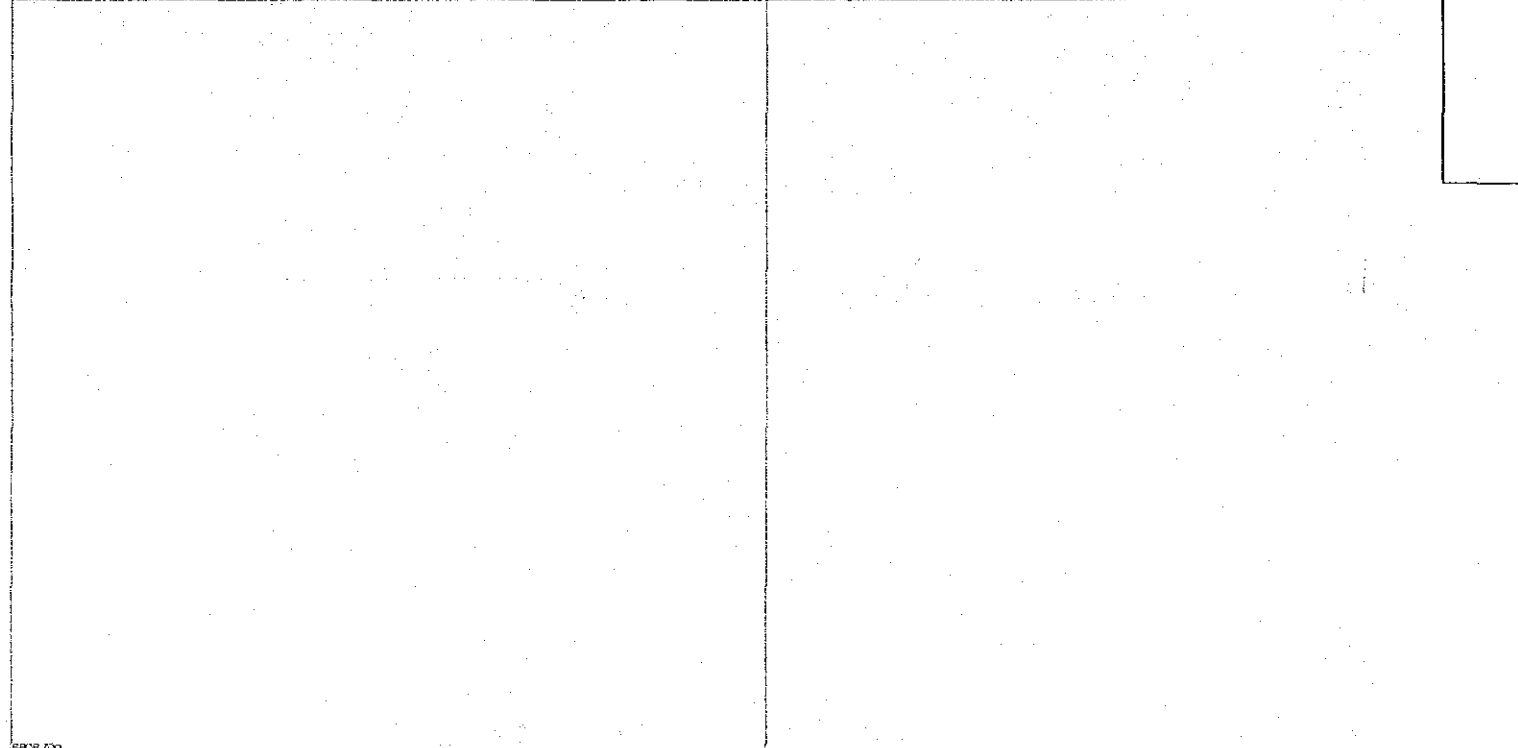
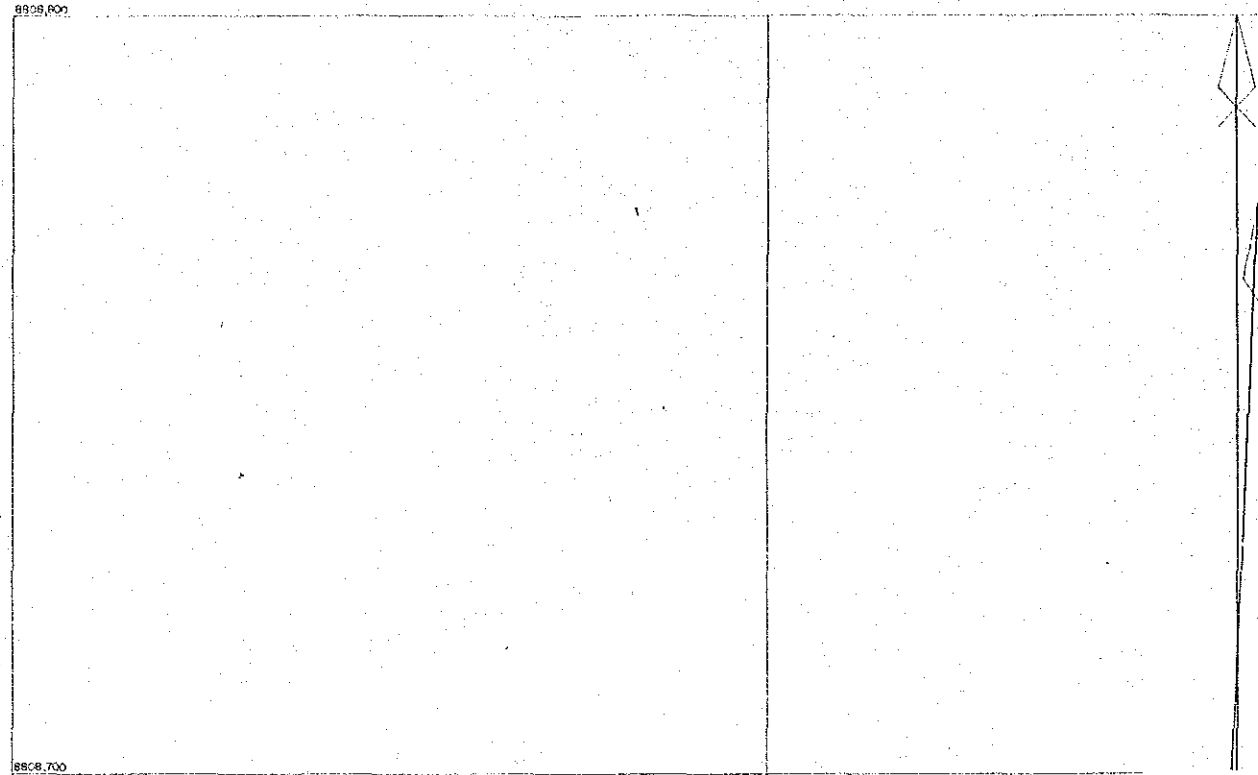
JULY 1985
Prepared by MINDECO

Scale 1:500

S-19

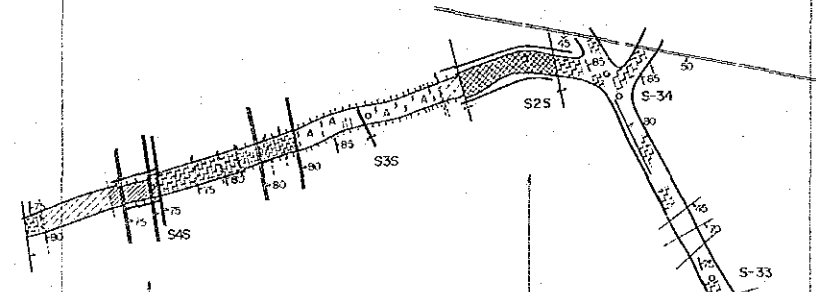
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LEGEND

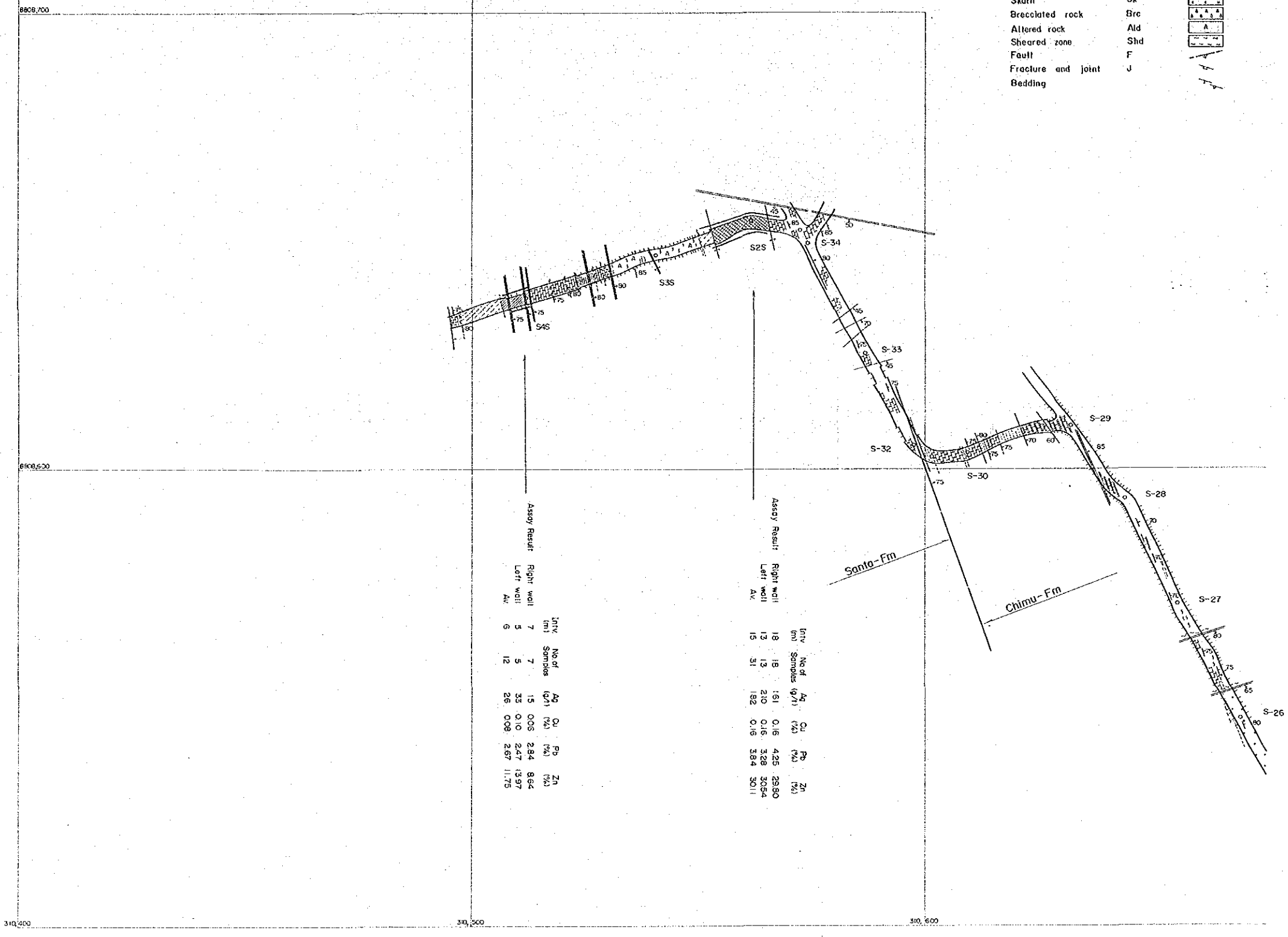
Pebble, sand, clay	Peb	
Sandstone	Ss	
Shale	Sh	
Marl	Ml	
Limestone	Ls	
Dolomitic limestone	Do-Ls	
Dolostone	Do	
Siderite	Sid	
Quartzite	Qiz	
Ore, high grade		
Ore, low grade		
Pyrite ore	Py	
Hematite ore	Hm	
Skarn	Sk	
Brecciated rock	Brc	
Altered rock	Ald	
Sheared zone	Shd	
Fault	F	
Fracture and joint	J	
Bedding		

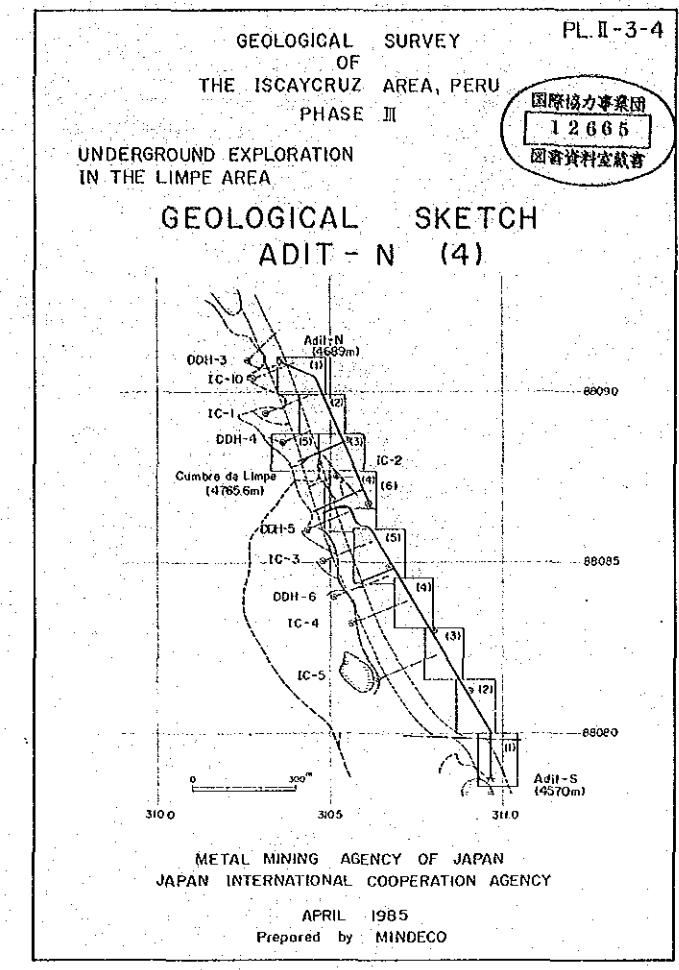
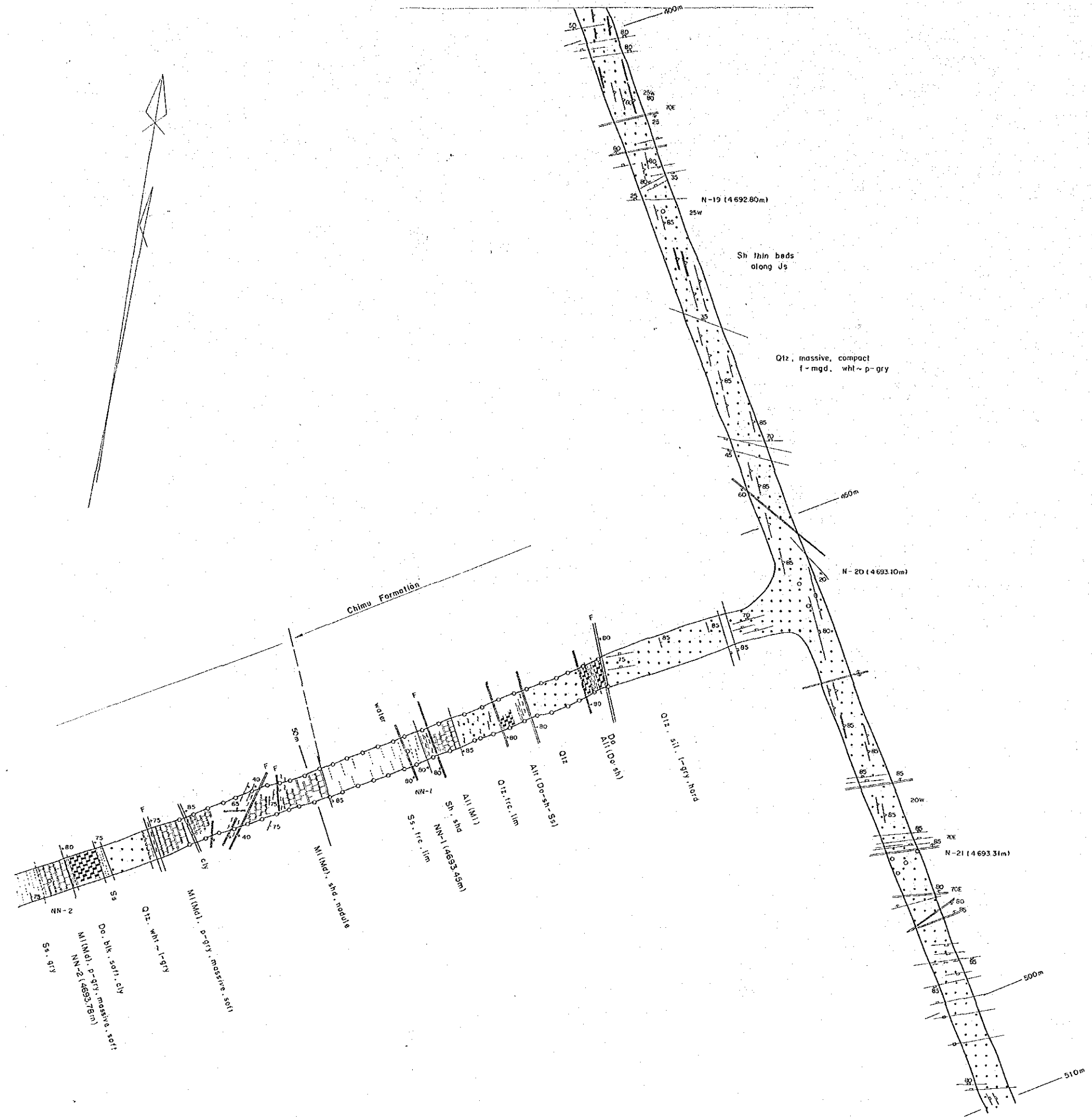


Scale 1:500
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LEGEND

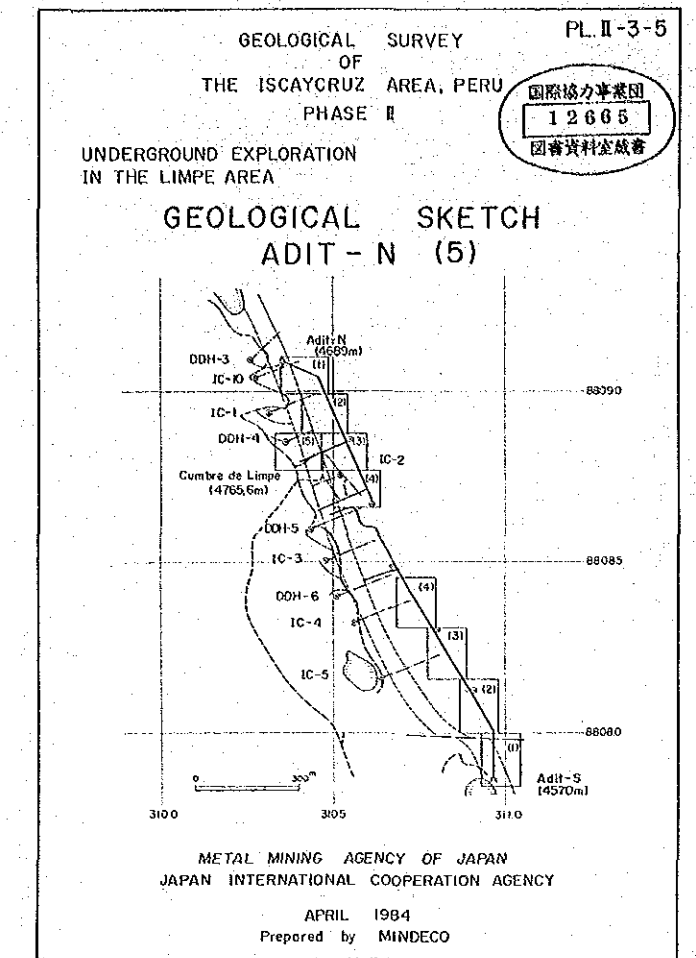
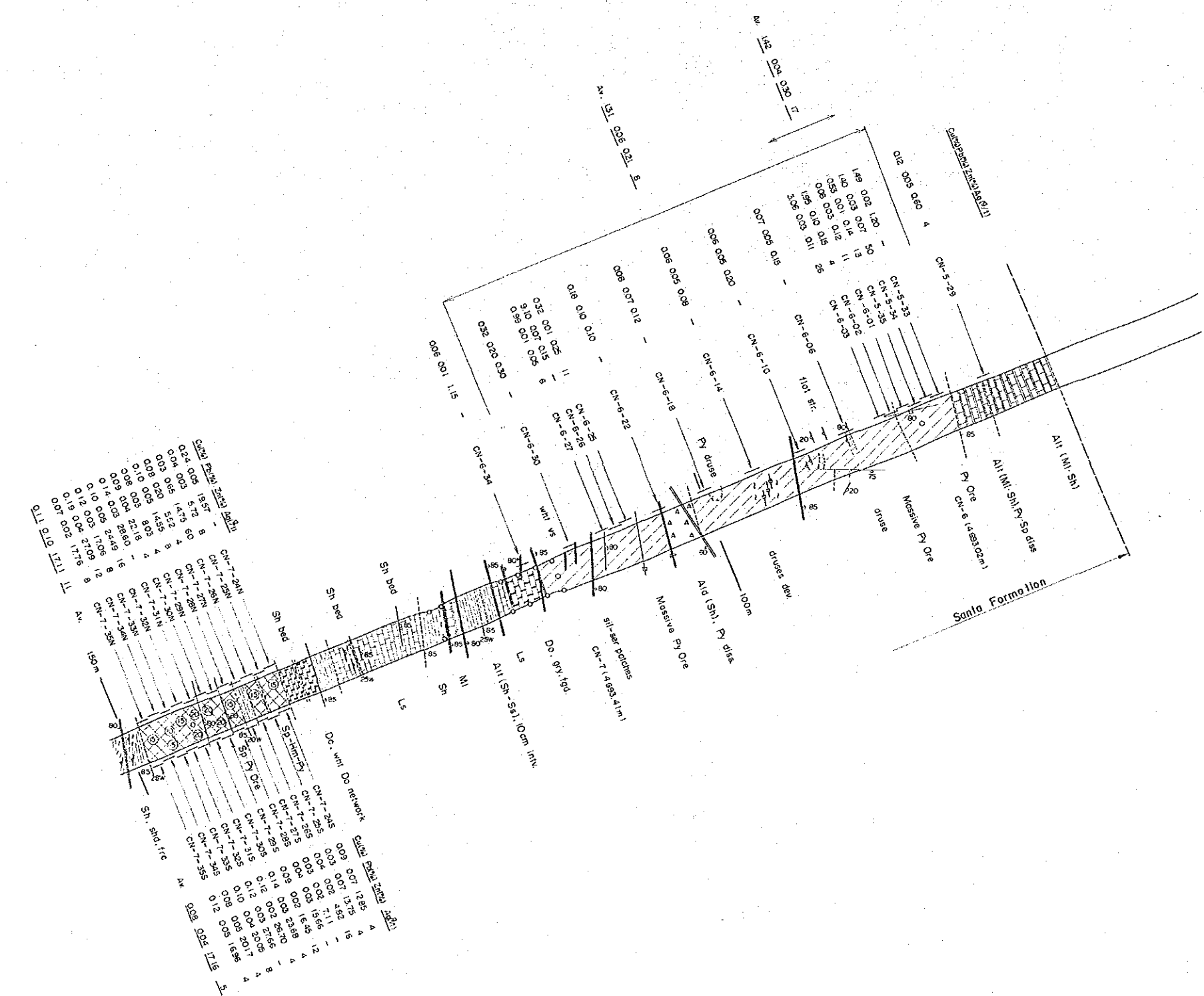
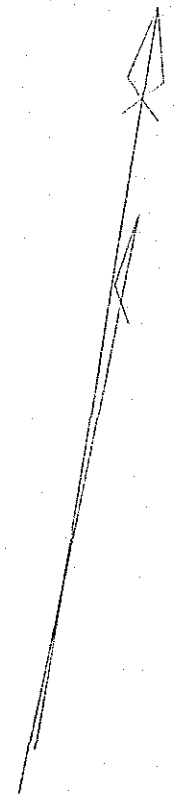
Pebble, sand, clay	Feb	
Sandstone	Ss	
Shale	Sh	
Marl	Ml	
Limestone	Ls	
Dolomitic limestone	Do-Ls	
Dolostone	Do	
Siderite	Sid	
Quartzite	Qtz	
Ore, high grade		
Ore, low grade		
Pyrite ore	Py	
Hematite ore	Hm	
Skarn	Sk	
Brecciated rock	Brc	
Altered rock	Ald	
Sheared zone	Shd	
Fault	F	
Fracture and joint	J	
Bedding		





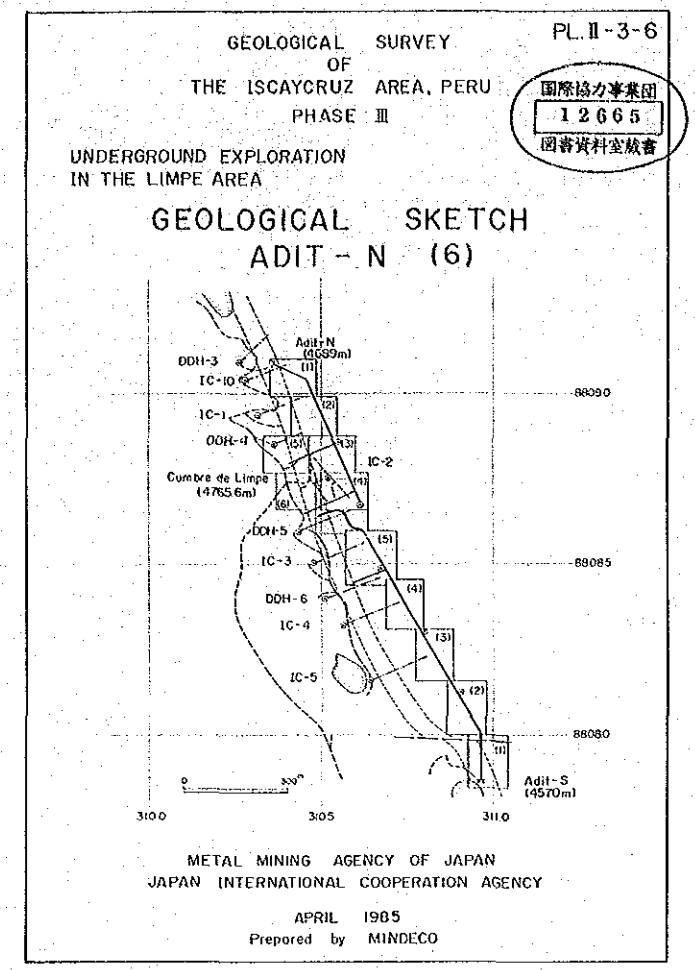
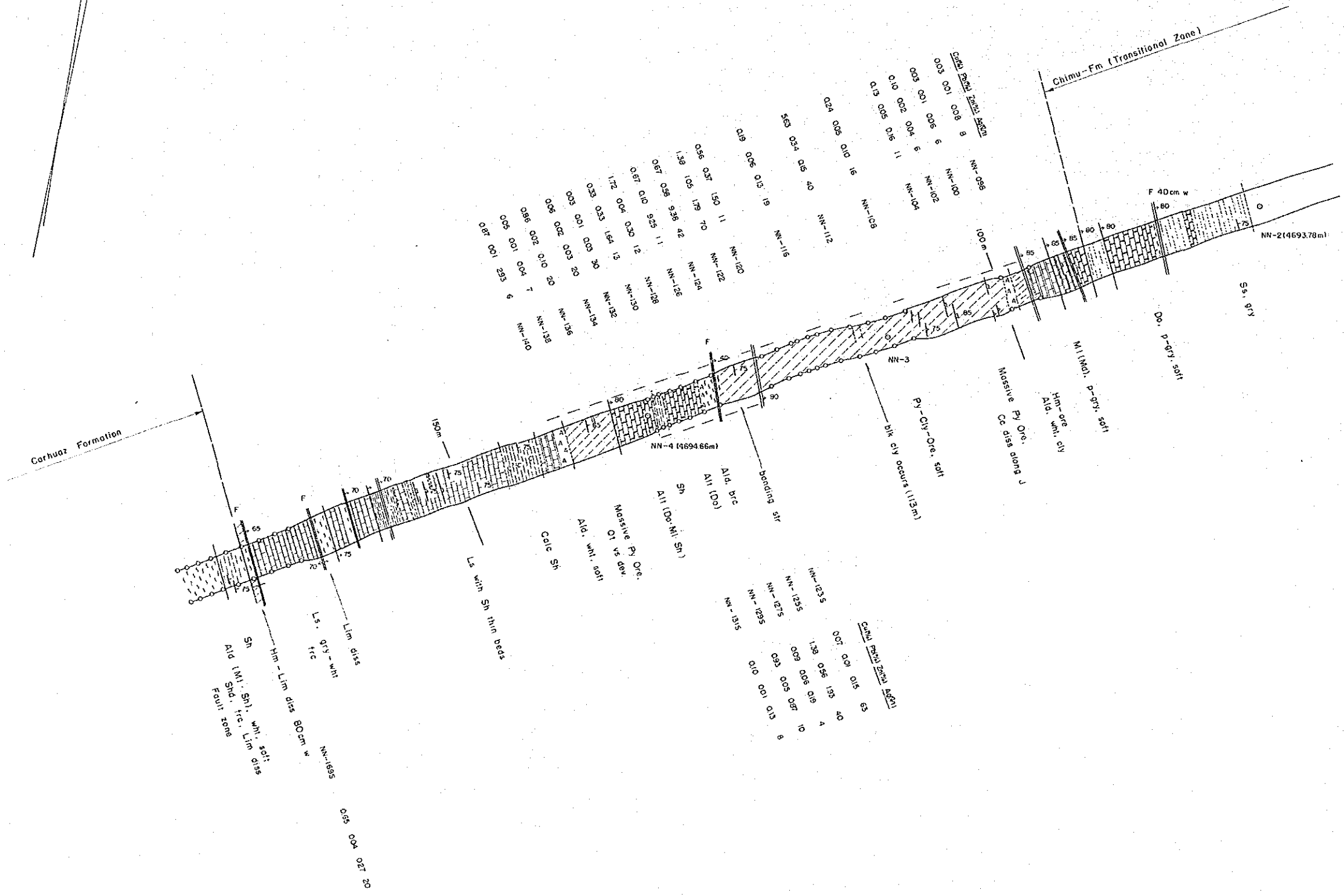
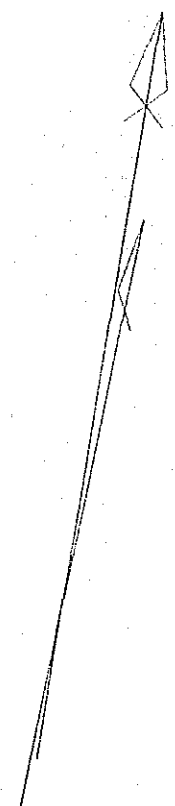
LEGEND and ABBREVIATION

Rock:	Pebble, sand, clay	Peb	
	Sandstone	Ss	
	Shale	Sh	
	Marl	Ml	
	Limestone	Ls	
	Dolomitic limestone	Do-Ls	
	Dolostone	Do	
	Siderite	Sid	
	Quartzite	Qtz	
	Ore, high grade		
	Ore, low grade		
	Pyrite ore	Py	
	Hematite ore	Hm	
	Skarn	Sk	
	Brecciated rock	Brc	
	Altered rock	Alr	
	Sheared zone	Shd	
	Fault	F	
	Fracture and joint	J	
	Bedding		
Alteration:	dolomitization	do	
	calcification	cal	
	argillization	clt	
	silicification	sil	
	sericification	ser	
Mineralization:	Pyrite	Py	
	Galena	Gl	
	Sphalerite	Sp	
	Chalcopyrite	Cp	
	Quartz	Qt	
	Calcite	Cal	
	Magnetite	Ml	
	Hematite	Hm	
	Chalcocite	Cc	
	Limonite	Lim	
	Oxide minerals	Oxd	
Color:	light	l-	
	dark	d-	
	gate	p-	
	grey	gry	
	white	wht	
	brown	brn	
Other:	fine-grained	fgd	
	medium-grained	mgd	
	coarse-grained	cgd	
	intercalated	inc	
	vein	v	
	veinlet	vl	
	dissemination	diss	
	Alteration	Alt	
Sampling location and assay result			



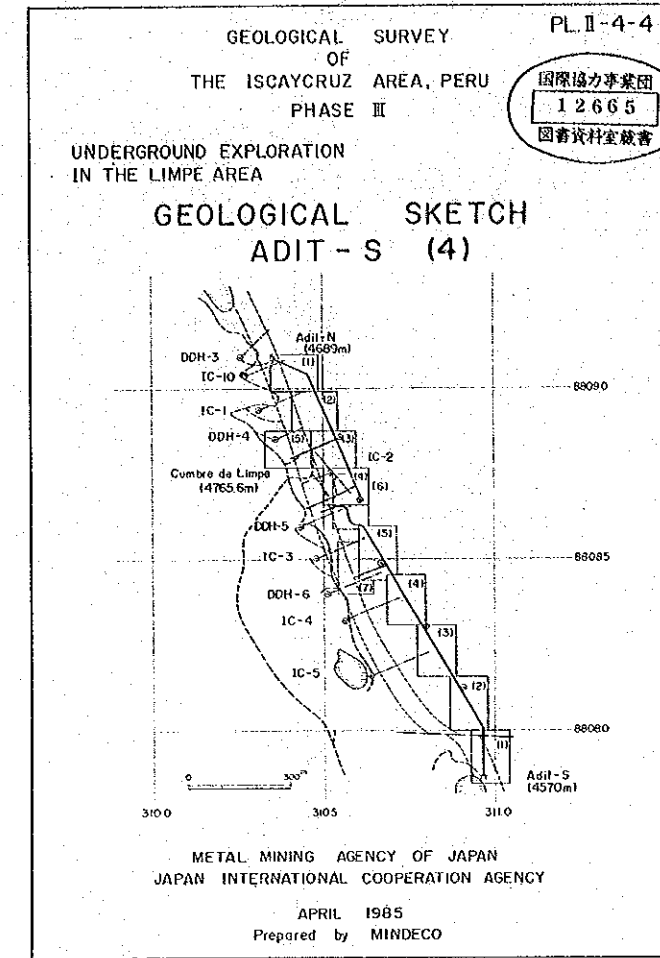
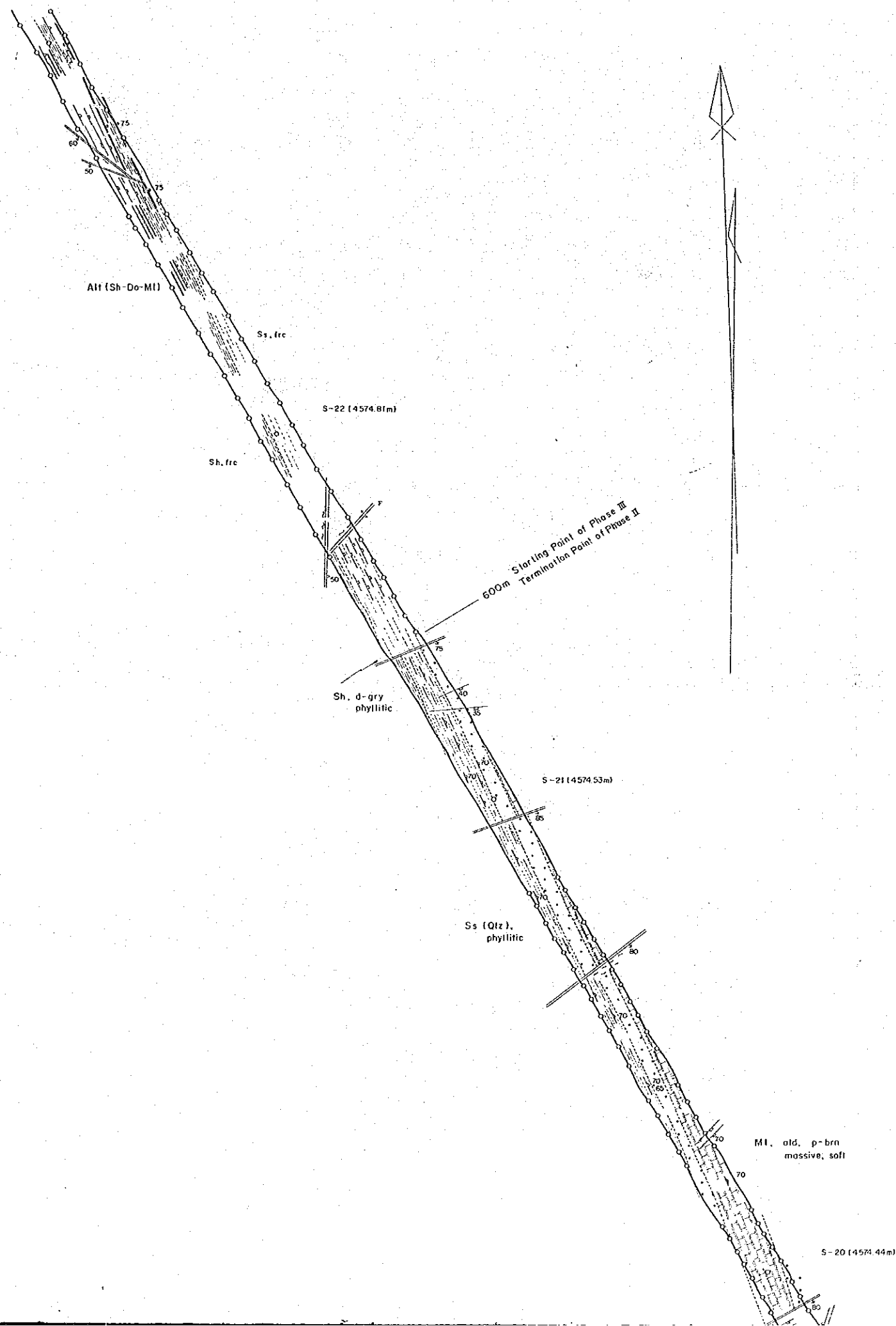
LEGEND and ABBREVIATION

Rock :	Pebble, sand, clay	Peb		
	Sandstone	Ss		
	Shale	Sh		
	Marl	Ml		
	Limestone	Ls		
	Dolomitic limestone	Do-Ls		
	Dolostone	Do		
	Siderite	Sid		
	Quartzite	Qtz		
	Ore, high grade			
	Ore, low grade			
	Pyrite ore	Py		
	Hematite ore	Hm		
	Skan	Sk		
	Brecciated rock	Brc		
	Altered rock	A(ald)		
	Sheared zone	Shd		
	Fault	F		
	Fracture and joint	J		
	Bedding			
Alteration :	dolomitization	do		
	calcification	cal		
	argillization	cl		
	silicification	sil		
	sericitization	ser		
Mineralization :	Pyrite	Py	Magnetite	Mi
	Galena	Gl	Hematite	Hm-Spc
	Sphalerite	Sp	Chalcocite	Cc
	Chalcopyrite	Cp	Limonite	Lim
	Quartz	Qtz	Oxide minerals	Oxd
	Calcite	Col		
Color :	light	l-	black	blk
	dark	d-	white	whl
	grey	gry	brown	brn
Other :	fine-grained	fgd	vein	v
	medium-grained	mgd	veiolet	vlt
	coarse-grained	cgd	dissimination	diss
	intercalated	intc	Alteration	All
Sampling location and assay result				NI-OI



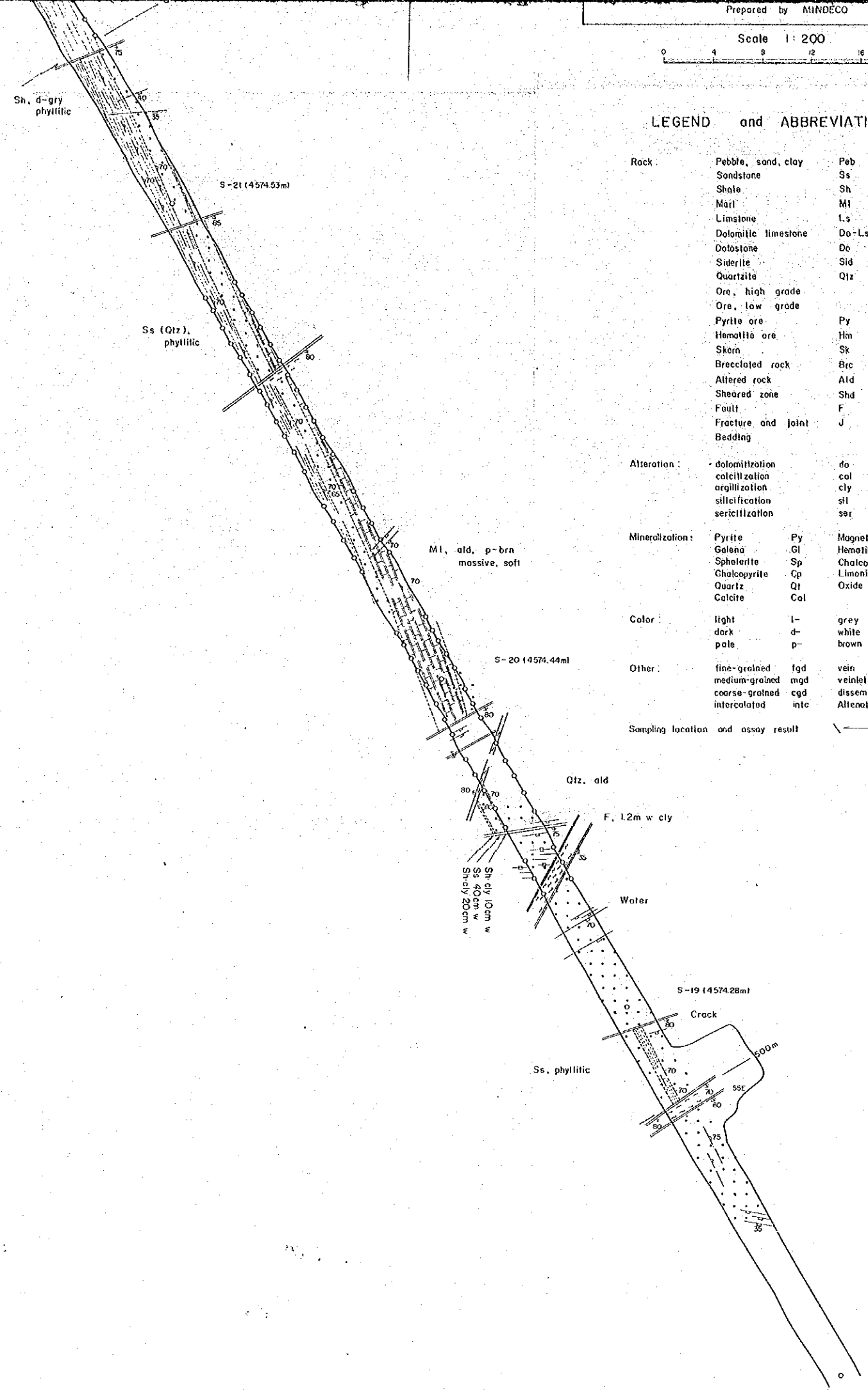
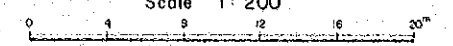
LEGEND and ABBREVIATION

Rock	Pebble, sand, clay	Peb		
	Sandstone	Ss		
	Shale	Sh		
	Mud	Ml		
	Limstone	Ls		
	Dolomitic limestone	Do-Ls		
	Dolostone	Do		
	Siderite	Sid		
	Quartzite	Qtz		
	Ore, high grade			
	Ore, low grade			
	Pyrite ore	Py		
	Hematite ore	Hm		
	Skarn	Sk		
Brecciated rock	Brc			
Altered rock	Ald			
Sheared zone	Shd			
Fault	F			
Fracture and joint	J			
Bedding				
Alteration	dolomitization	do		
	calcitization	cal		
	argillization	arg		
	silicification	sil		
	sericitization	ser		
Mineralization	Pyrite	Py	Magnetite	Mt
	Galena	Gl	Hematite	Hm-Spc
	Sphalerite	Sp	Chalcoite	Cc
	Chalcopryite	Cp	Limonite	Lim
	Quartz	Qtz	Oxide minerals	Oxd
	Calcite	Cal		
Color	light	l-	grey	gry
	dark	d-	white	wht
	pale	p-	brown	brn
Other	fine-grained	fgd	vein	v
	medium-grained	mgd	veinlet	vtl
	coarse-grained	cgd	dissemination	diss
	intercalated	inc	Alteration	Ald
Sampling location and assay result				NI-01



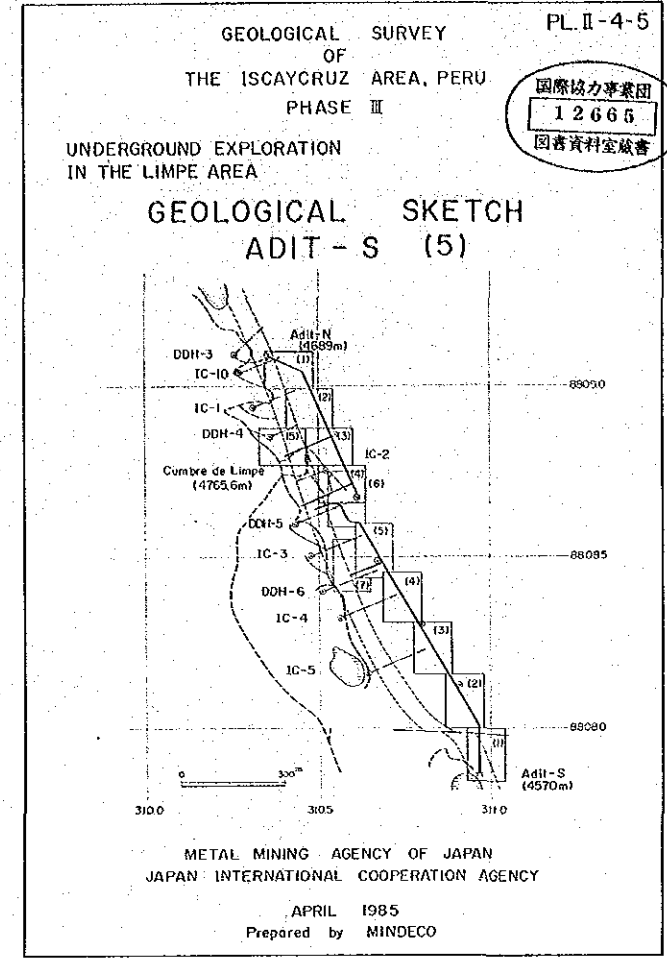
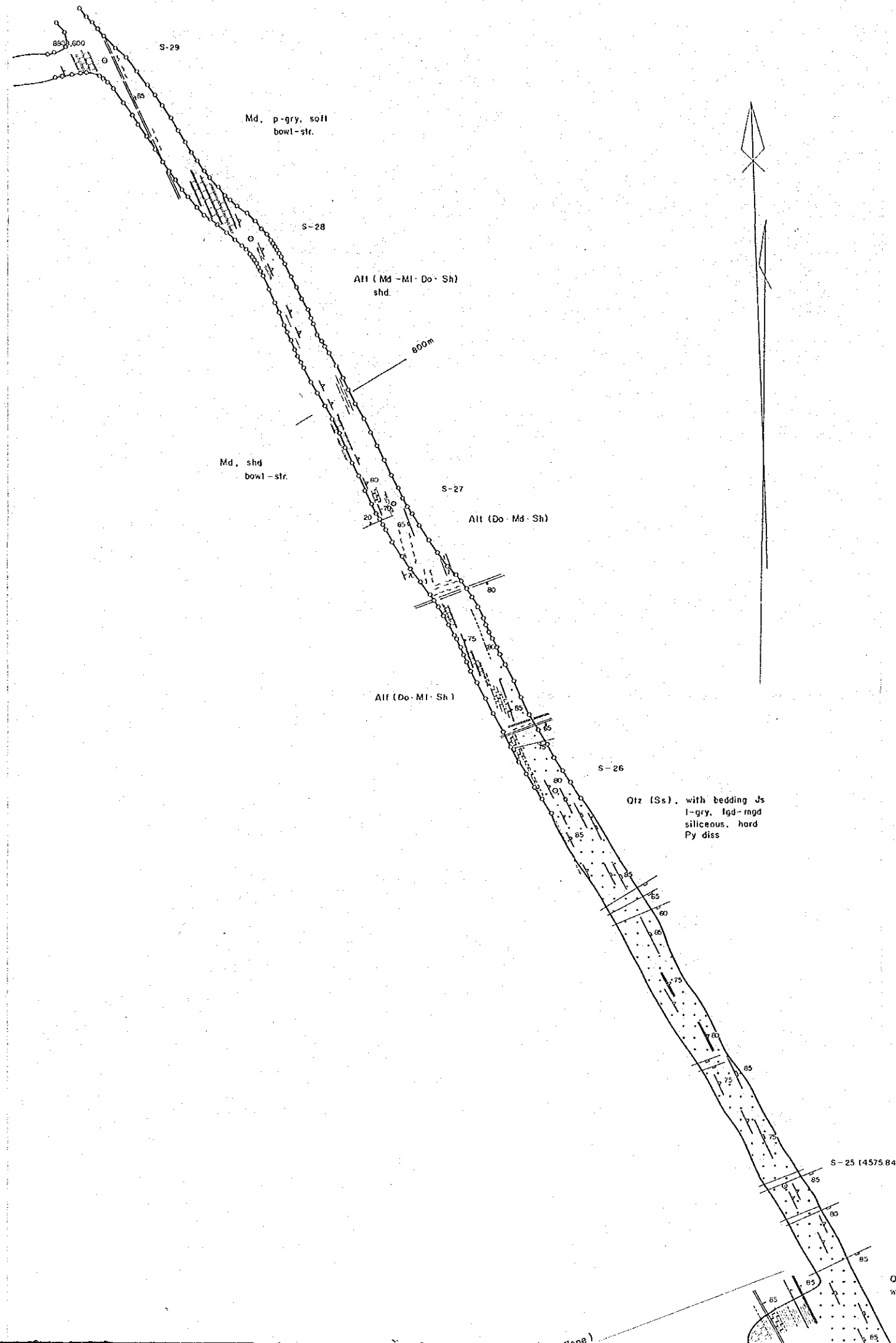
LEGEND and ABBREVIATION

Rock:	Pebble, sand, clay Sandstone Shale Marl Limestone Dolomitic limestone Dolostone Siderite Quartzite Ore, high grade Ore, low grade Pyrite ore Hematite ore Skarn Brecciated rock Altered rock Sheared zone Fault Fracture and joint Bedding	Peb Ss Sh MI Ls Do-Ls Do Sid Qtz Py Hm Sk Brc Ald Shd F J		
Alteration:	dolomitization calcitization argillization silicification sericitization	do cal cly sil ser		
Mineralization:	Pyrite Galena Sphalerite Chalcocopyrite Quartz Calcite	Py Gl Sp Cp Qt Cal	Magnetite Hematite Chalcocite Limonite Oxide minerals	MI Hm-Spc Cc Lim Oxd
Color:	light dark pale	l- d- p-	grey white brown	gry whl brn
Other:	fine-grained medium-grained coarse-grained intercalated	fgd mgd cgd intc	vein veinlet dissemination Alteration	v vlt diss Alt
Sampling location and assay result				



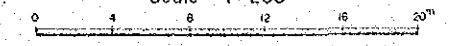
LEGEND and ABBREVIATION

Rock:	Pebble, sand, clay	Peb		
	Sandstone	Ss		
	Shale	Sh		
	Marl	Ml		
	Limestone	Ls		
	Dolomitic limestone	Do-Ls		
	Dolostone	Do		
	Siderite	Sid		
	Quartzite	Qtz		
	Ore, high grade			
	Ore, low grade			
	Pyrite ore	Py		
	Hematite ore	Hm		
	Skein	Sk		
	Brecciated rock	Brc		
	Altered rock	Ald		
	Sheared zone	Shd		
	Fault	F		
	Fracture and joint	J		
	Bedding			
Alteration:	dolomitization	do		
	calcitization	cal		
	argillization	cly		
	silicification	sil		
	sericitization	ser		
Mineralization:	Pyrite	Py	Magnetite	Mt
	Galena	Gl	Hematite	Hm-Spc
	Sphalerite	Sp	Chalcoite	Cc
	Chalcocopyrite	Cp	Limonite	Lim
	Quartz	Qt	Oxide minerals	Oxd
	Calcite	Cal		
Color:	light	l-	grey	gry
	dark	d-	white	whl
	pale	p-	brown	brn
Other:	fine-grained	fgd	vein	v
	medium-grained	mgd	veinlet	vlt
	coarse-grained	cgd	dissemination	diss
	intercalated	intc	Alteration	Alt
Sampling location and assay result				NI-OI



LEGEND and ABBREVIATION

Rock:	Pebble, sand, clay	Peb	
	Sandstone	Ss	
	Shale	Sh	
	Marl	Ml	
	Limestone	Ls	
	Dolomitic limestone	Do-Ls	
	Dolostone	Do	
	Siderite	Sid	
	Quartzite	Qtz	
	Ore, high grade		
	Ore, low grade		
	Pyrite ore	Py	
	Hematite ore	Hm	
	Skan	Sk	
	Brecciated rock	Brc	
	Altered rock	Ala	
	Sheared zone	Shd	
	Fault	F	
	Fracture and joint	J	
	Bedding		
Alteration:	dolomitization	do	
	calcification	cal	
	argillization	cl	
	silicification	sil	
	sericitization	ser	
Mineralization:	Pyrite	Py	
	Galena	Gl	
	Sphalerite	Sp	
	Chalcopyrite	Cp	
	Quartz	Qt	
	Calcite	Cal	
	Magnetite	Mt	
	Hematite	Hm:Sp	
	Chalcocite	Cc	
	Limonite	Lim	
	Oxide minerals	Oxd	
Color:	light	l-	
	dark	d-	
	pale	p-	
	grey	gry	
	white	whl	
	brown	brn	
Other:	fine-grained	fgd	
	medium-grained	mgd	
	coarse-grained	cgd	
	intercalated	intc	
	vein	v	
	veinlet	vll	
	dissemination	diss	
	Alteration	Alt	
Sampling location and assay result		NI-OI	



All (Do, MI, Sh)

S-26
Qtz (Ss), with bedding Js
l-gry, fgd-mgd
siliceous, hard
Py diss

LEGEND and ABBREVIATION

Rock:	Pebble, sand, clay	Pob		
	Sandstone	Ss		
	Shale	Sh		
	Marl	MI		
	Limestone	Ls		
	Dolomitic limestone	Do-Ls		
	Dolostone	Do		
	Siderite	Sid		
	Quartzite	Qtz		
	Ore, high grade			
	Ore, low grade			
	Pyrite ore	Py		
	Hematite ore	Hm		
	Skarn	Sk		
	Brecciated rock	Brc		
	Altered rock	Alt		
	Sheared zone	Shd		
	Fault	F		
	Fracture and joint	J		
	Bedding			
Alteration:	dolomitization	do		
	calcification	cal		
	argillization	arg		
	silicification	sil		
	sericitization	ser		
Mineralization:	Pyrite	Py	Magnetite	Mt
	Galena	Gl	Hematite	Hm-Spc
	Sphalerite	Sp	Chalcocite	Cc
	Chalcopyrite	Cp	Limonite	Lim
	Quartz	Qt	Oxide minerals	Oxd
	Calcite	Cal		
Color:	light	l-	grey	gry
	dark	d-	white	whl
	pale	p-	brown	brn
Other:	fine-grained	fgd	vein	v
	medium-grained	mgd	veinlet	vit
	coarse-grained	cgd	dissemination	diss
	intercalated	inc	Alteration	Alt
	Sampling location and assay result			NI-OI

- 005 11
- 009 01
- 010 01
- 011 01
- 012 01
- 013 01
- 014 01
- 015 01
- 016 01
- 017 01
- 018 01
- 019 01
- 020 01
- 021 01
- 022 01
- 023 01
- 024 01
- 025 01
- 026 01
- 027 01
- 028 01
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- 084 01
- 085 01
- 086 01
- 087 01
- 088 01
- 089 01
- 090 01
- 091 01
- 092 01
- 093 01
- 094 01
- 095 01
- 096 01
- 097 01
- 098 01
- 099 01
- 100 01

Chimu Formation (Transitional Zone)

Qtz (Ss), with bedding Js

Sampling location and assay result

All (Do, Sh, MI)

S-23 (4574 34m)

SX-0 (4575.74m)

S-25 (4575.84m)

Ss (Qtz)

All (Ss, Do)

MI, p-gr, massive, soft

Do, blk, mgd-cgd massive, soft

Ss, dolomitic

Alt, p-gr, all, ch, Py, diss

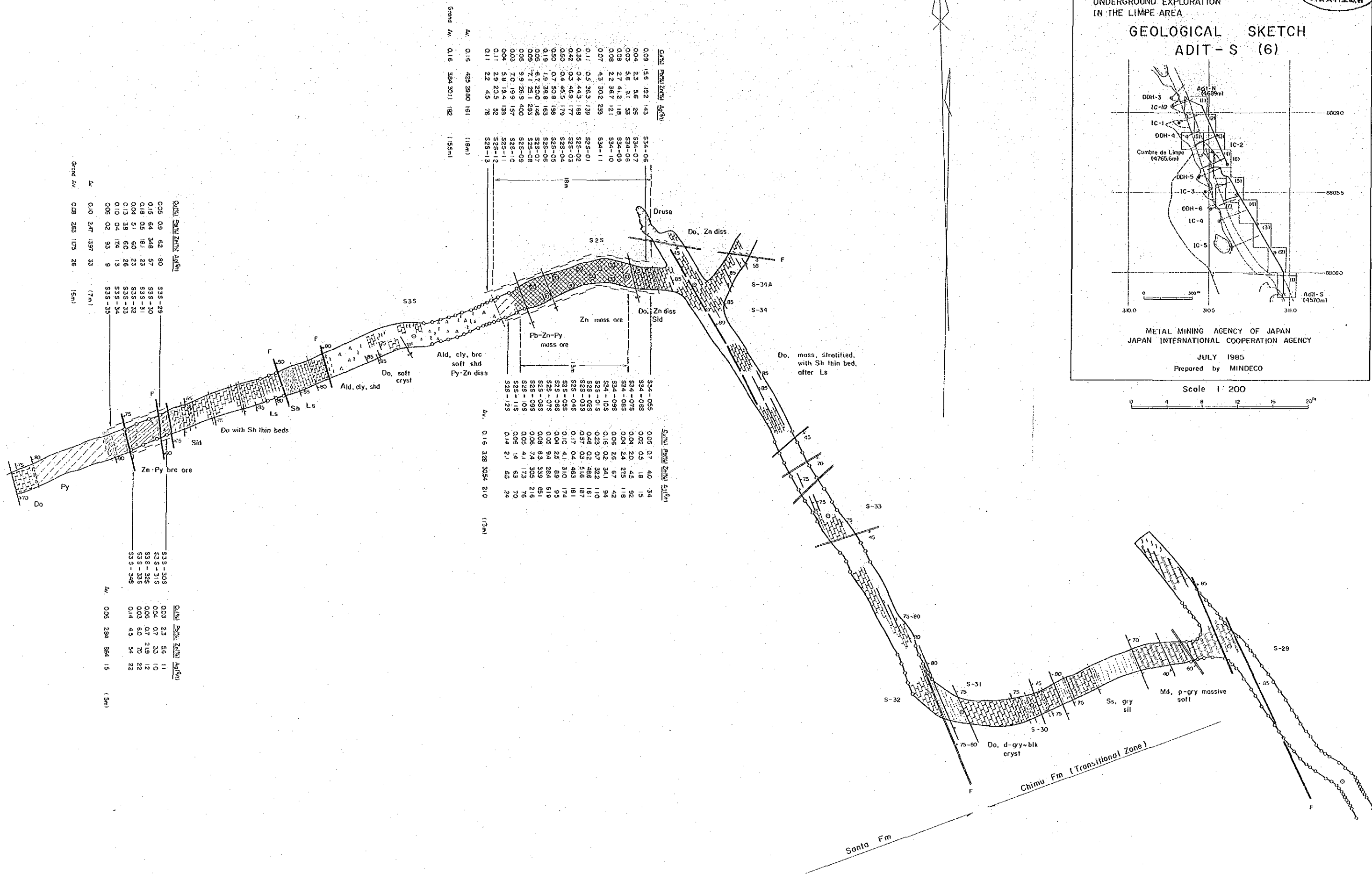
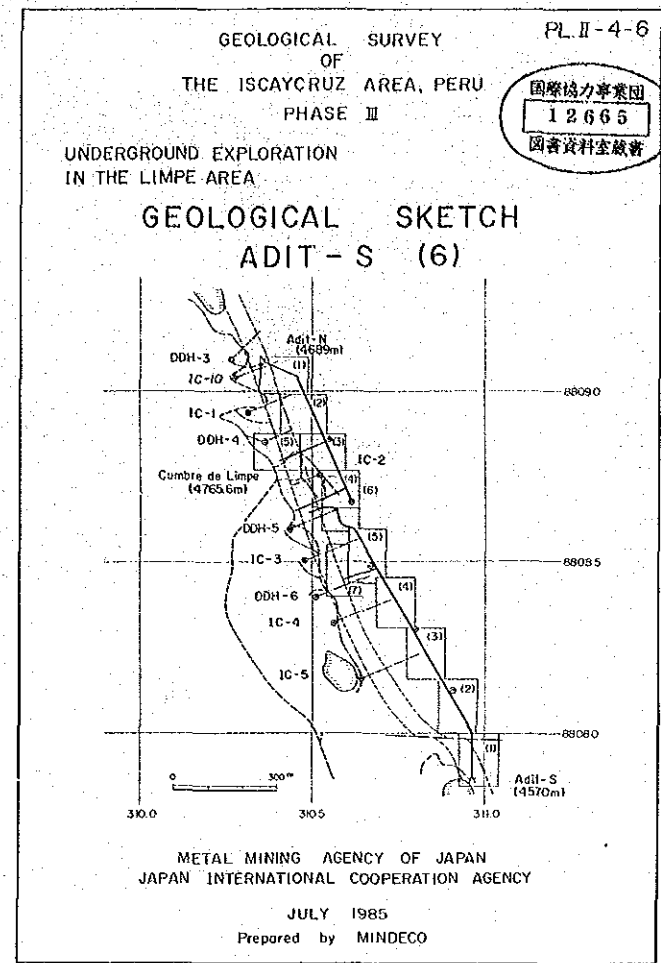
Acid water

SX-2

SX-1

700m

S-24



Ground Av. 015 425 2980 151 (18m)

0.09	15.6	192	143
0.04	2.3	5.6	25
0.03	5.8	9.1	53
0.08	2.7	4.2	118
0.07	4.3	30.2	235
0.11	0.5	36.3	139
0.23	0.4	44.3	188
0.22	0.4	46.9	177
0.20	0.4	49.5	179
0.20	0.7	50.8	198
0.18	4.9	32.8	163
0.08	7.1	24.1	235
0.08	9.9	32.8	400
0.03	7.0	19.9	157
0.04	5.8	19.4	138
0.11	2.9	20.5	32
0.11	2.2	4.5	76

Ground Av. 015 328 3054 210 (17m)

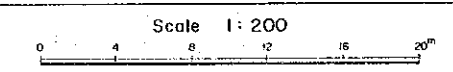
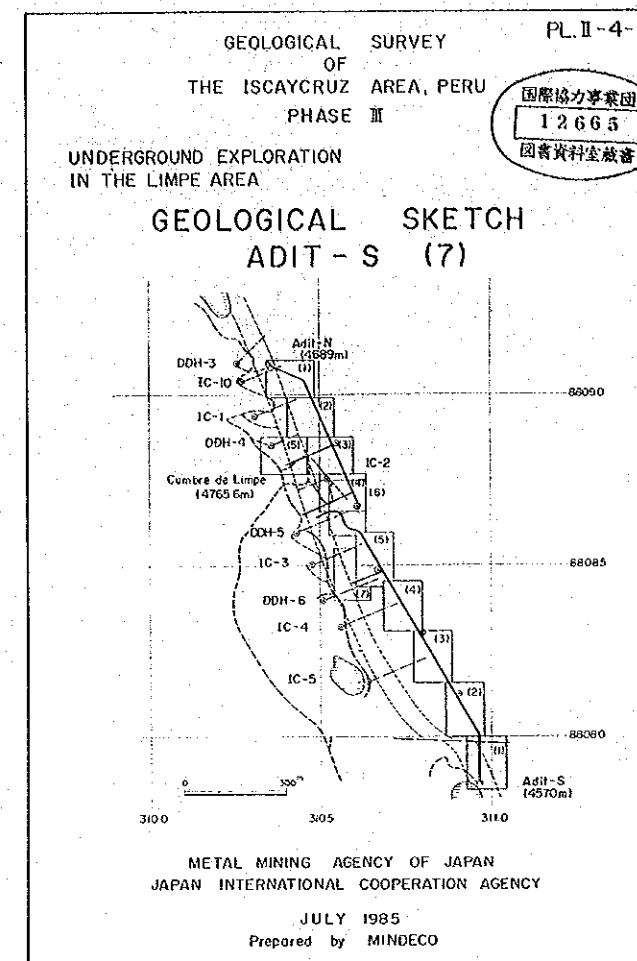
0.05	0.7	4.0	34		
0.02	0.5	1.8	15		
0.06	2.0	4.5	32		
0.04	3.4	27.5	118		
0.04	2.6	6.7	42		
0.08	0.2	30.2	94		
0.18	0.2	29.2	110		
0.28	0.7	28.6	187		
0.27	0.3	51.6	187		
0.25	0.45	0.17	0.4	46.3	181
0.10	4.1	31.0	174		
0.03	9.4	28.4	610		
0.08	8.3	33.9	651		
0.06	7.4	30.9	216		
0.03	4.1	17.3	76		
0.06	1.4	6.3	70		
0.14	2.1	6.8	24		

Ground Av. 008 283 1075 26 (15m)

0.03	0.9	6.2	80
0.15	6.4	34.8	57
0.18	0.5	18.1	23
0.04	5.1	6.0	23
0.13	3.8	6.0	26
0.10	0.4	17.6	13
0.05	0.2	9.3	9

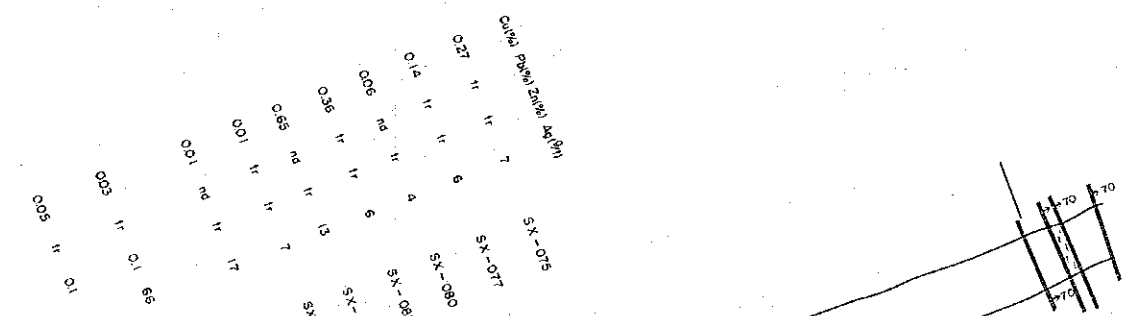
Ground Av. 006 284 864 15 (3m)

0.03	2.3	5.6	11
0.04	0.7	2.3	10
0.05	0.7	2.19	12
0.03	6.0	7.0	22
0.14	4.5	5.4	22



LEGEND

<p>Rock:</p> <p>Pebble, sand, clay</p> <p>Sandstone</p> <p>Shale</p> <p>Marl</p> <p>Limstone</p> <p>Dolomitic limestone</p> <p>Dolostone</p> <p>Siderite</p> <p>Quartzite</p> <p>Ore, high grade</p> <p>Ore, low grade</p> <p>Pyrite ore</p> <p>Hematite ore</p> <p>Skorn</p> <p>Brecciated rock</p> <p>Altered rock</p> <p>Sheared zone</p> <p>Fault</p> <p>Fracture and joint</p> <p>Bedding</p>	<p>Peb</p> <p>Ss</p> <p>Sh</p> <p>Ml</p> <p>Ls</p> <p>Do-Ls</p> <p>Do</p> <p>Sid</p> <p>Qlz</p> <p>Py</p> <p>Hm</p> <p>Sk</p> <p>Brc</p> <p>Ald</p> <p>Shd</p> <p>F</p> <p>J</p>	
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LEGEND

Rock	Pebble, sand, clay	Peb	
	Sandstone	Ss	
	Shale	Sh	
	Marl	MI	
	Limestone	Ls	
	Dolomitic limestone	Do-Ls	
	Dolostone	Do	
	Siderite	Sid	
	Quartzite	Qtz	
	Ore, high grade		
	Ore, low grade		
	Pyrite ore	Py	
	Hematite ore	Hm	
	Skarn	Sk	
	Brecciated rock	Brc	
	Altered rock	Ald	
	Sheared zone	Shd	
	Fault	F	
	Fracture and joint	J	
	Bedding		

