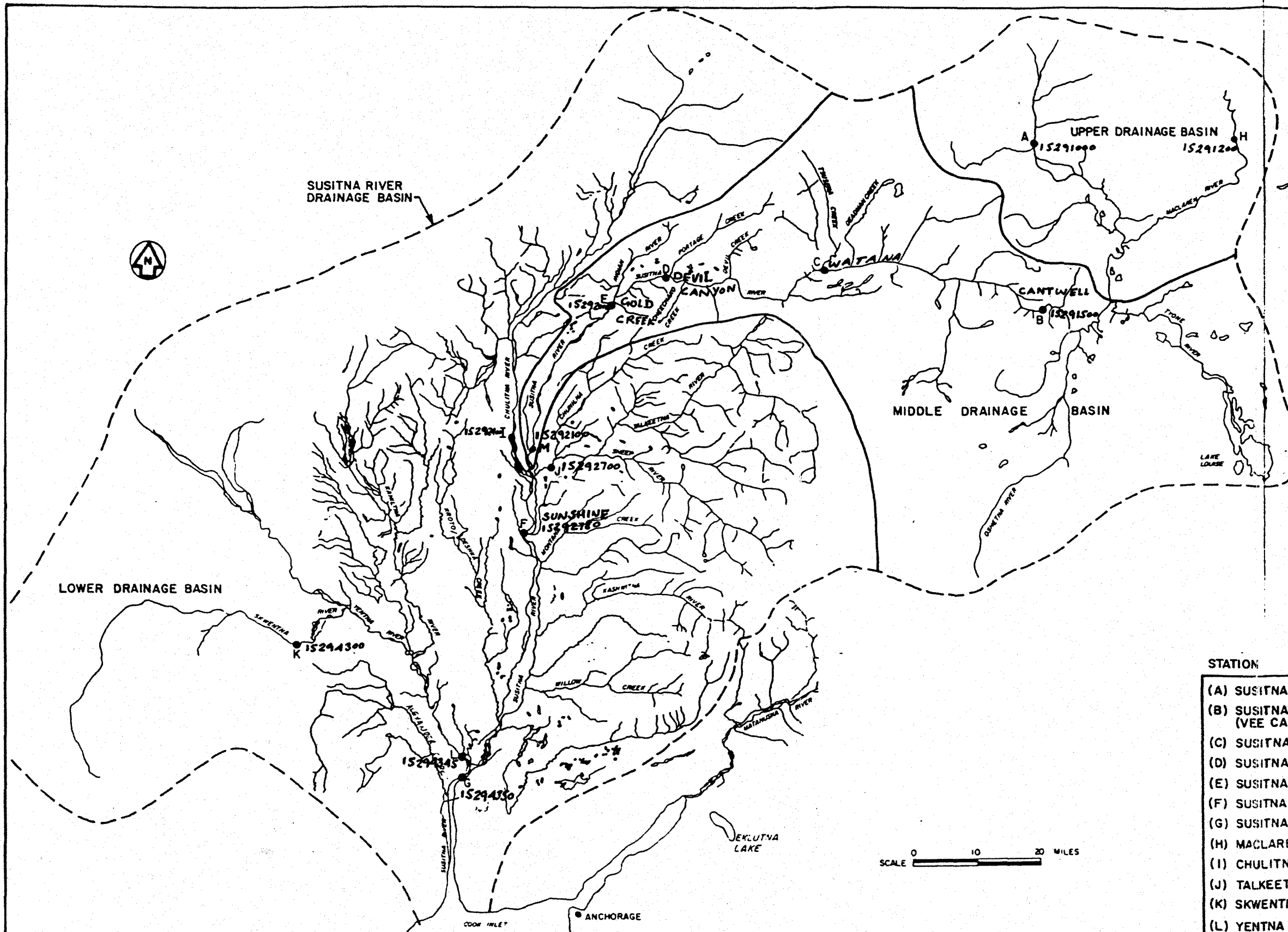


NOTES:

1. CONTINUOUS WATER QUALITY MONITOR INSTALLED.
2. DATA COLLECTION (JUL-SEP 1981 AND JUN-SEP 1982.)
3. THE LETTER BEFORE EACH STATION NAME IN THE TABLE IS USED ON THE MAP TO MARK THE APPROXIMATE LOCATION OF THE STATIONS.



SOURCE: SUSITNA HYDROELECTRIC PROJECT
LICENSE APPLICATION, EXHIBIT E, FIGURE E-2.1

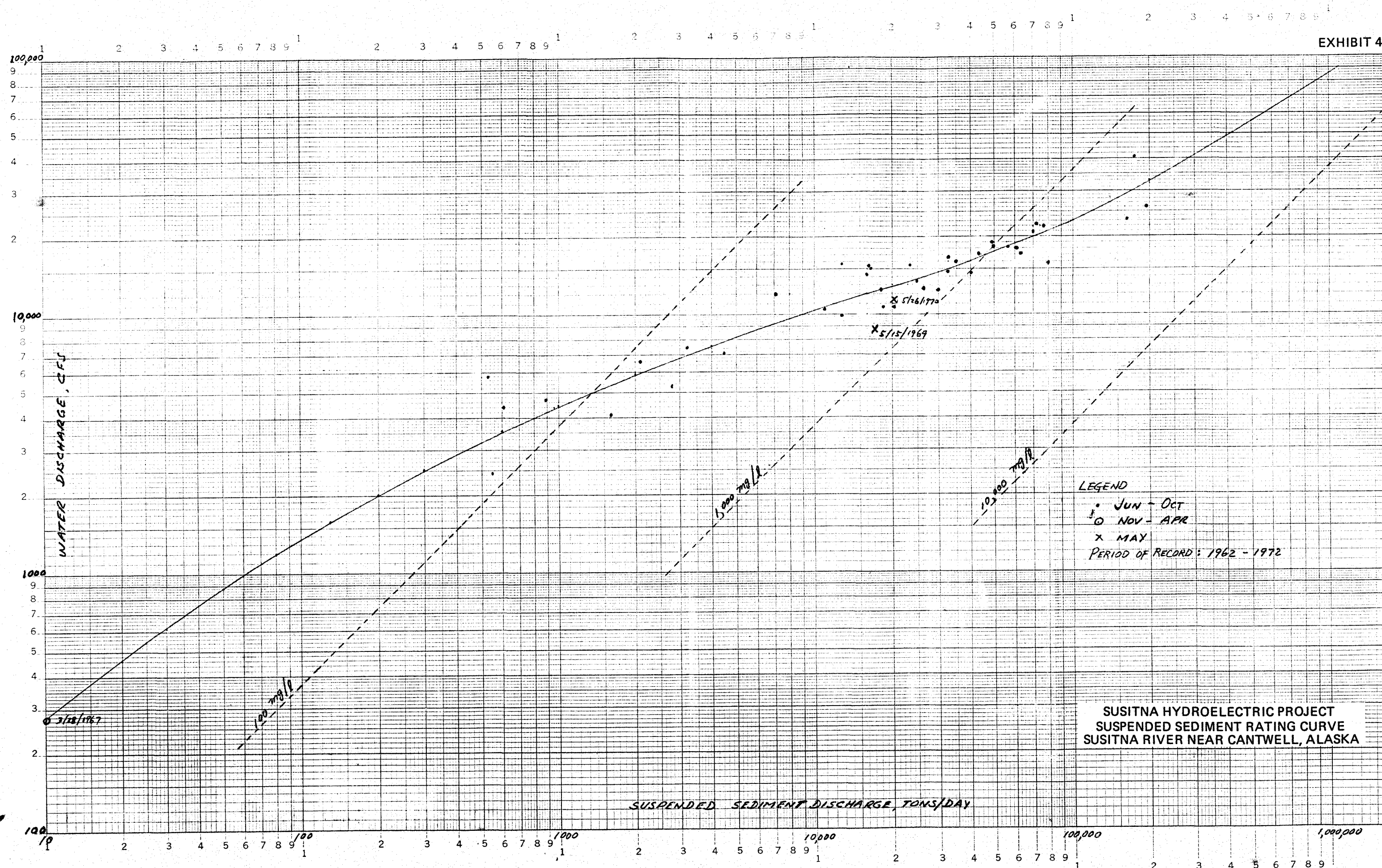
STATION	STREAMFLOW GAGING	CREST STAGE GAGE	STAFF GAGE	WATER QUALITY	WATER TEMPERATURE	SEDIMENT DISCHARGE	BEDLOAD SAMPLING ²	CLIMATE
(A) SUSITNA RIVER NEAR DENALI	X		X		X	X		X
(B) SUSITNA RIVER NEAR CANTWELL (VEE CANYON)	X		X	X	X	X		
(C) SUSITNA RIVER NEAR WATANA DAM SITE	X	X		X	X			X
(D) SUSITNA RIVER NEAR DEVIL CANYON		X	X					X
(E) SUSITNA RIVER AT GOLD CREEK	X			X	X	X	X	
(F) SUSITNA RIVER NEAR SUNSHINE	X				X	X	X	
(G) SUSITNA RIVER AT SUSITNA STATION	X			X	X	X		
(H) MACLAREN RIVER NEAR PAXSON	X							
(I) CHULITNA RIVER NEAR TALKEETNA	X				X	X	X	
(J) TALKEETNA RIVER NEAR TALKEETNA	X			X	X	X	X	
(K) SKWENTNA RIVER NEAR SKWENTNA	X			X	X	X		X
(L) YENTNA RIVER NEAR SUSITNA STATION	X				X	X		
(M) SUSITNA RIVER NEAR TALKEETNA						X	X	

SUSITNA HYDROELECTRIC PROJECT

SUSITNA RIVER BASIN
AND GAGING STATIONS

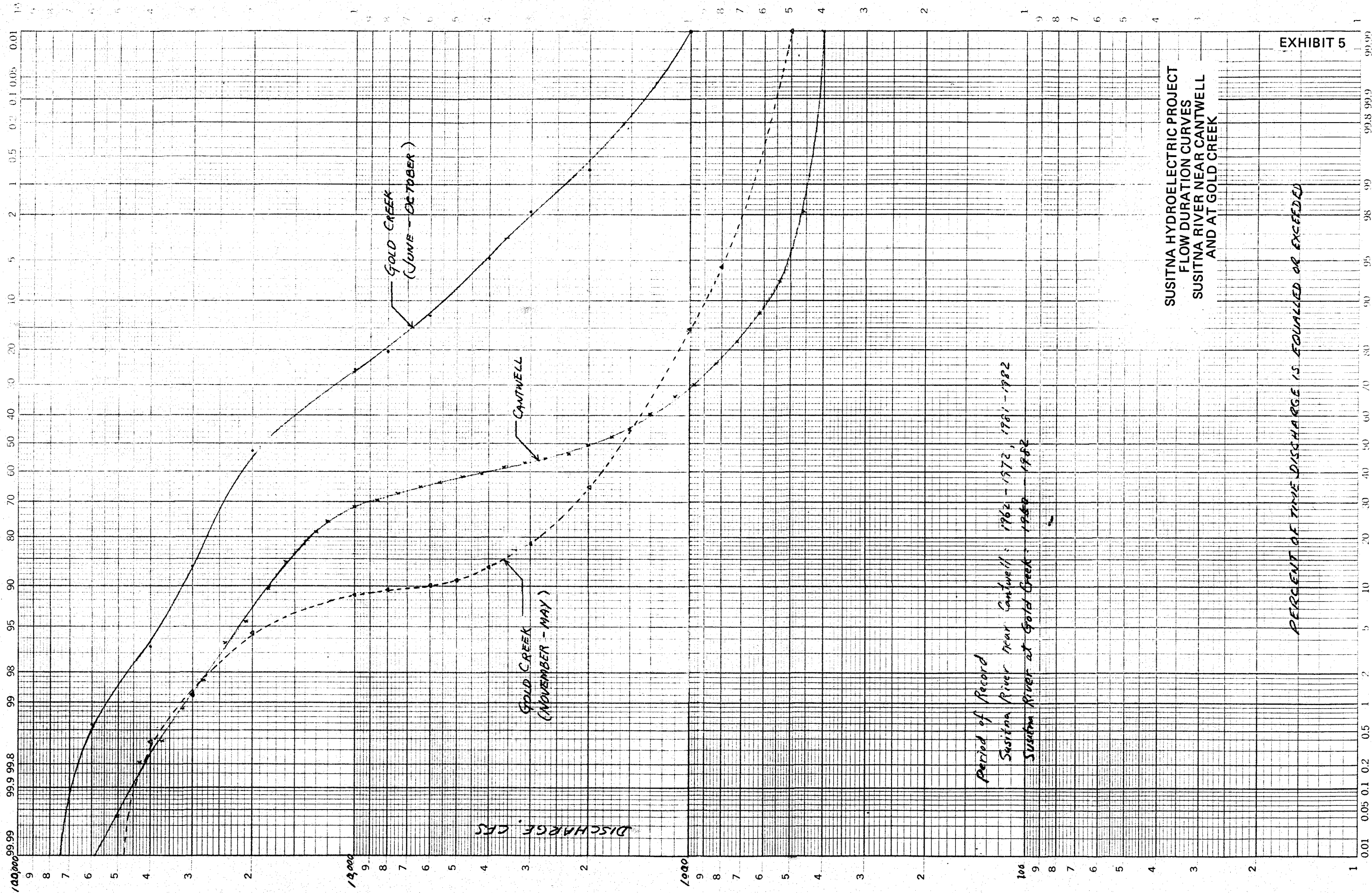
47 7523

LOGARITHMIC 3 X 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



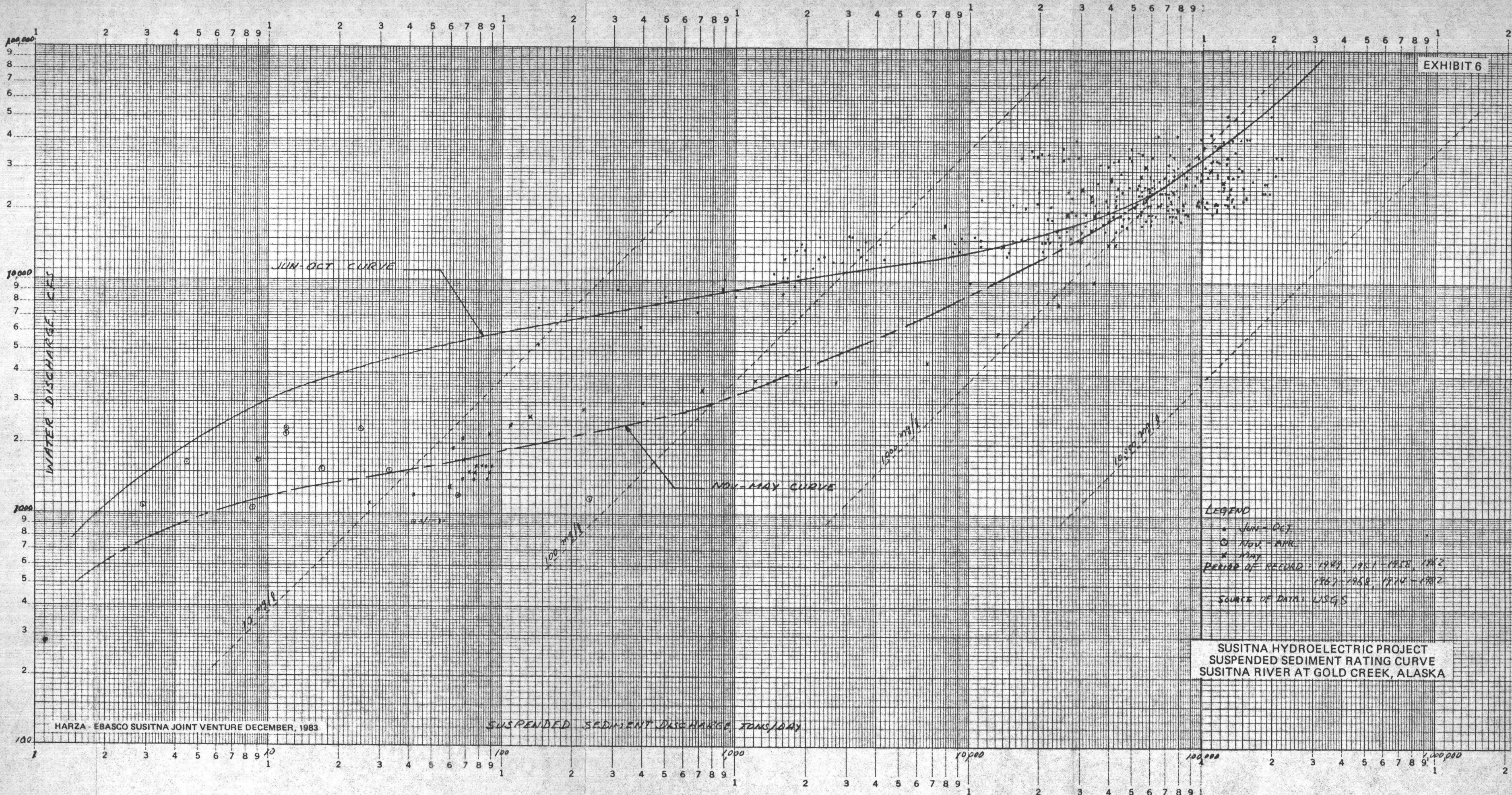
LEGEND
• JUN - OCT
○ NOV - APR
x MAY
PERIOD OF RECORD: 1962 - 1972

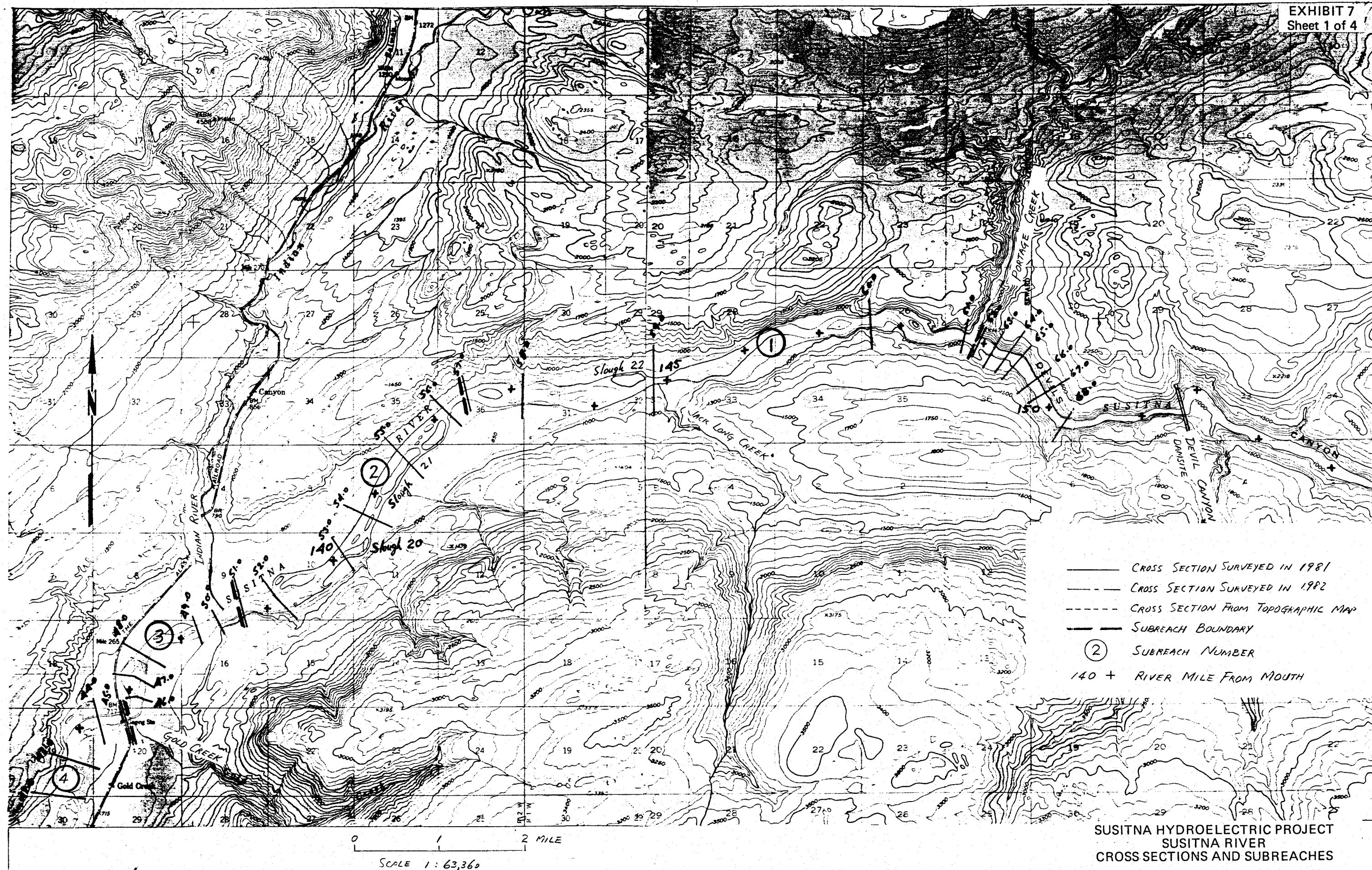
SUSITNA HYDROELECTRIC PROJECT
SUSPENDED SEDIMENT RATING CURVE
SUSITNA RIVER NEAR CANTWELL, ALASKA

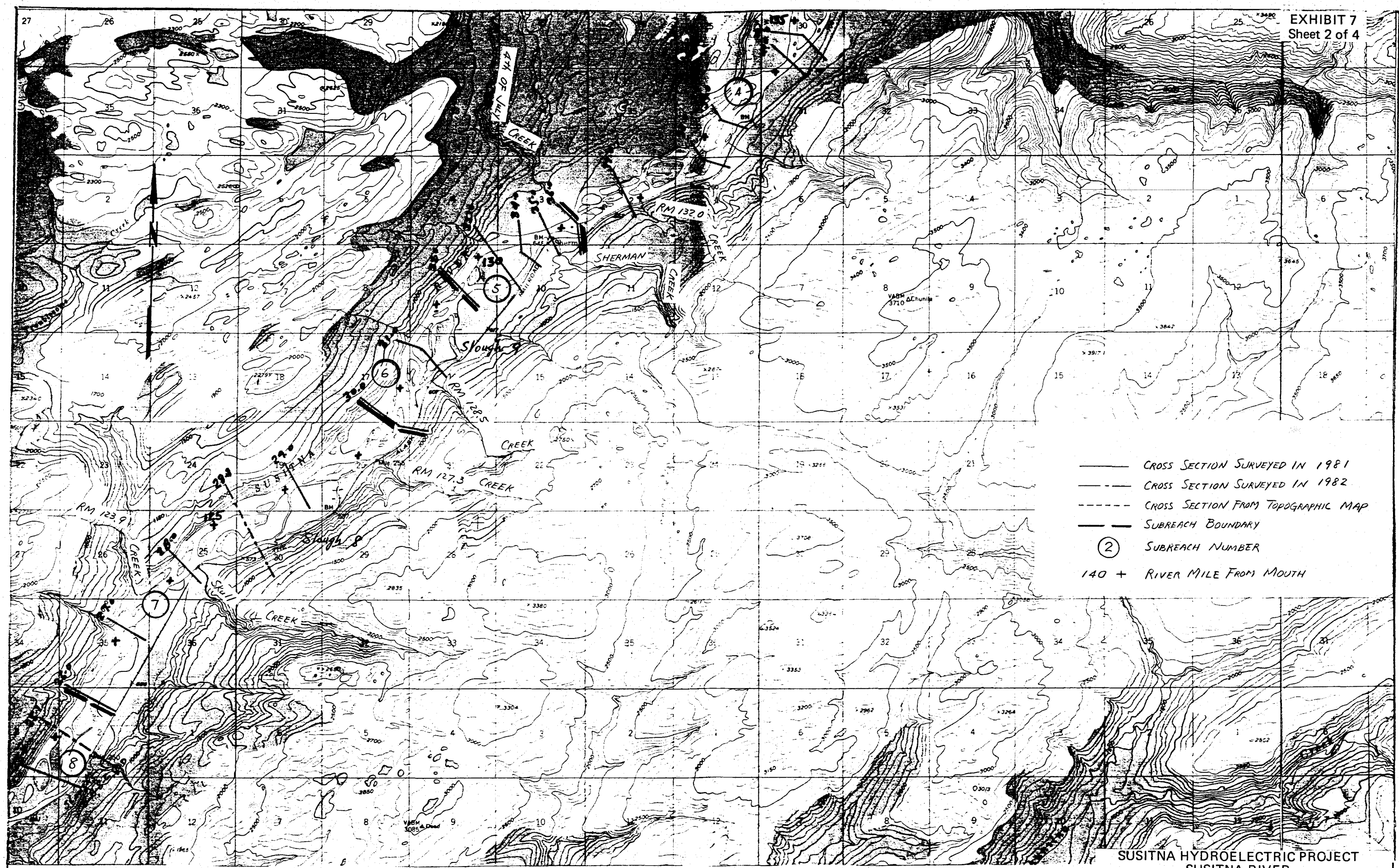


47 7523

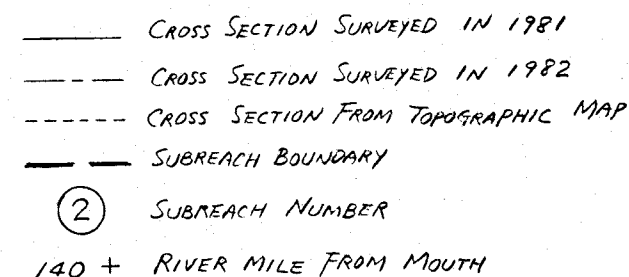
K-E LOGARITHMIC 3 X 5 CYCLES
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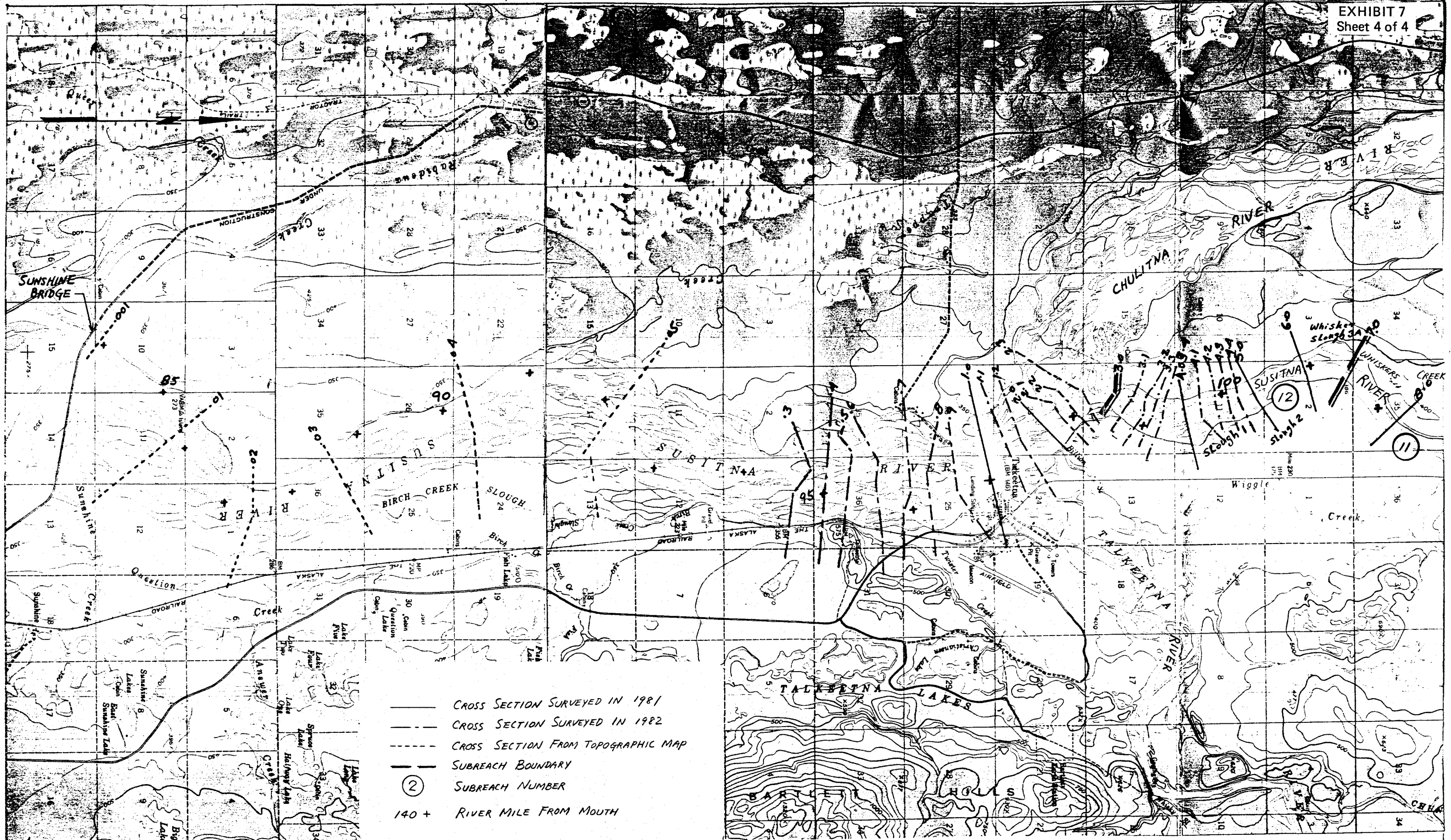


- CROSS SECTION SURVEYED IN 1981
- CROSS SECTION SURVEYED IN 1982
- CROSS SECTION FROM TOPOGRAPHIC MAP
- SUBREACH BOUNDARY
- ② SUBREACH NUMBER
- 140 + RIVER MILE FROM MOUTH



SCALE 1 : 63,360

SUSITNA HYDROELECTRIC PROJECT SUSITNA RIVER CROSS SECTIONS AND SUBREACHES



- CROSS SECTION SURVEYED IN 1981
- - - CROSS SECTION SURVEYED IN 1982
- - - CROSS SECTION FROM TOPOGRAPHIC MAP
- - - SUBREACH BOUNDARY
- ② SUBREACH NUMBER
- 140 + RIVER MILE FROM MOUTH

0 1 2 MILE

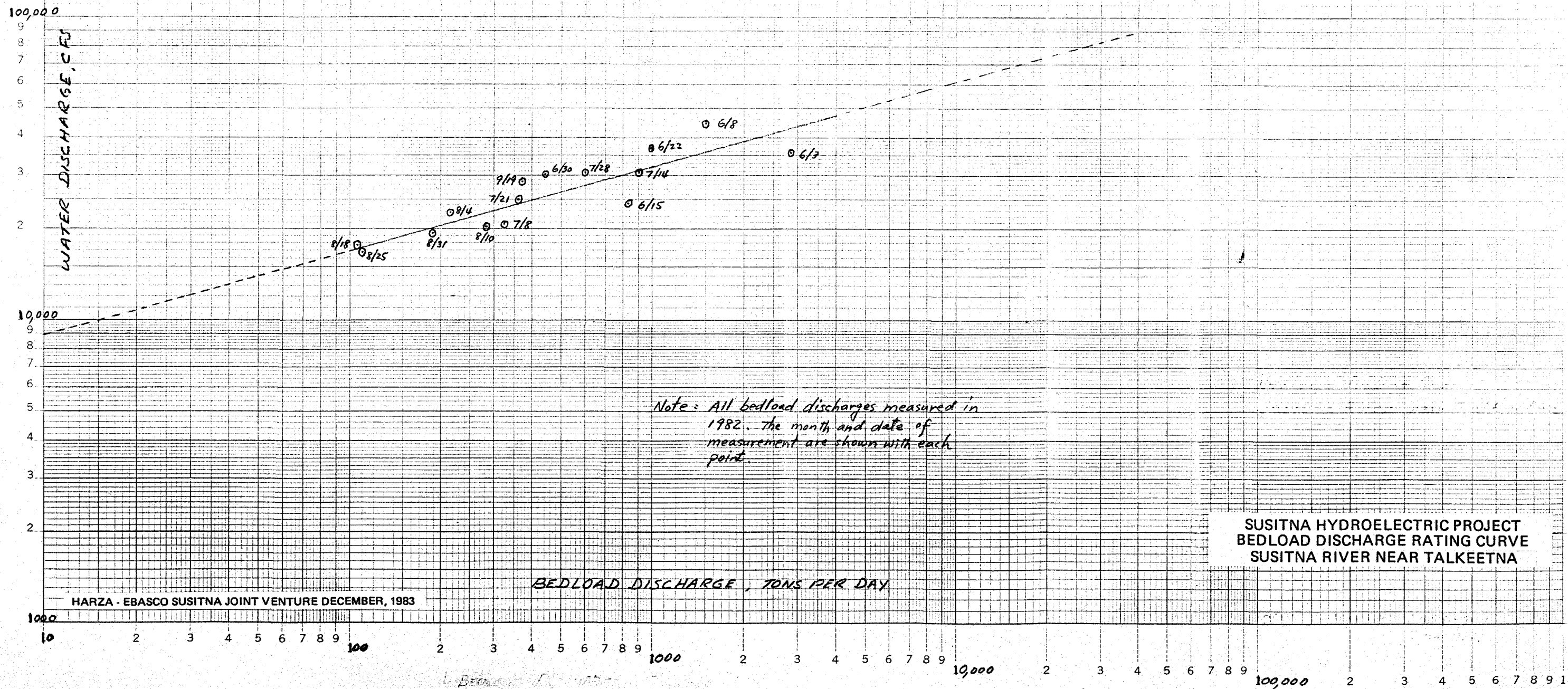
SCALE 1 : 63,360

SUSITNA HYDROELECTRIC PROJECT
SUSITNA RIVER
CROSS SECTIONS AND SUBREACHES

47 7523

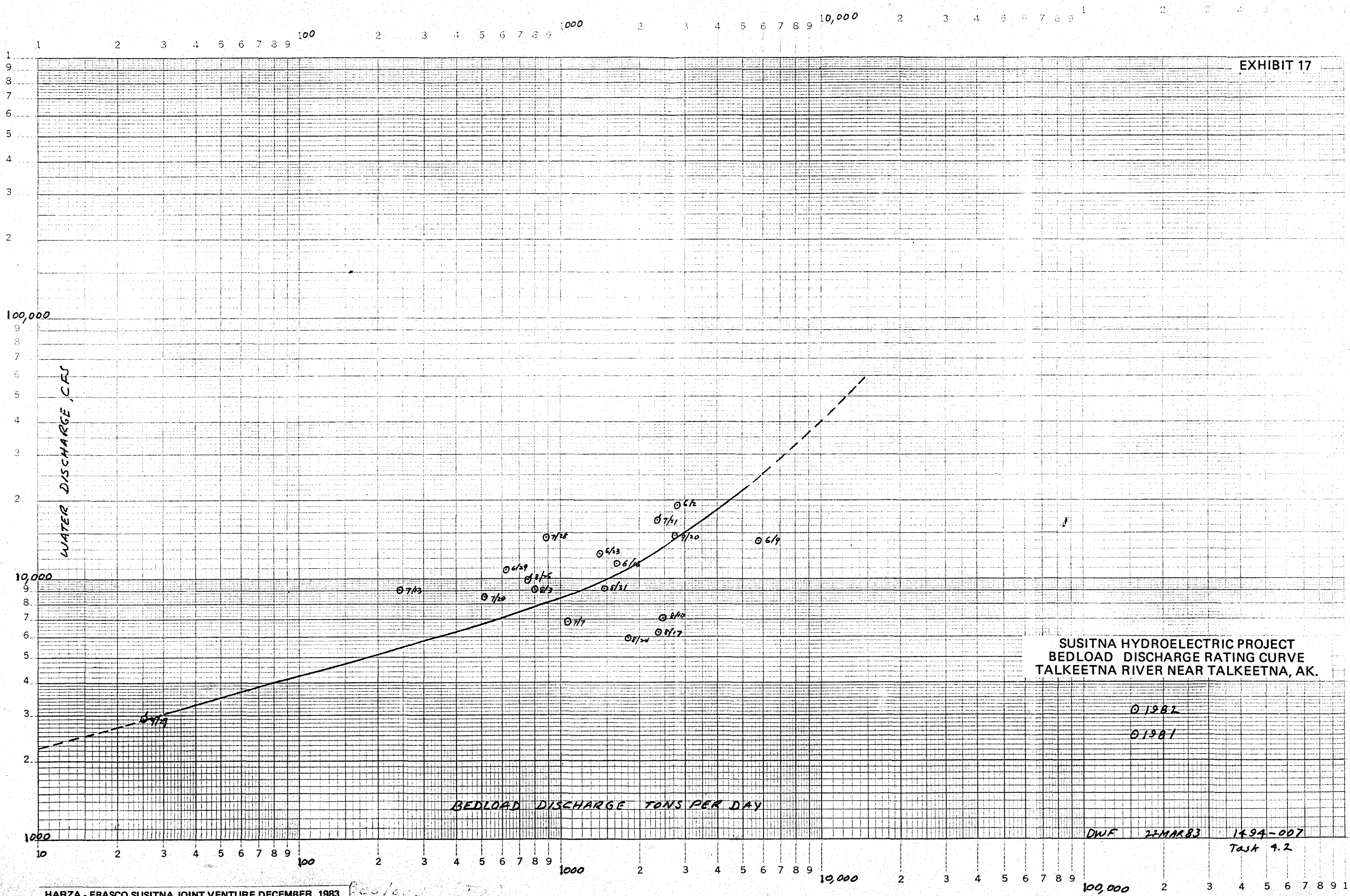
LOGARITHMIC 3 X 5 CYCLES
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EXHIBIT 16



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K&E LOGARITHMIC 3 X 5 CYCLES
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EXHIBIT 18

WATER DISCHARGE, CFS

100,000

10,000

1,000

BEDLOAD DISCHARGE, TONS PER DAY

LEGEND

◊ 1981

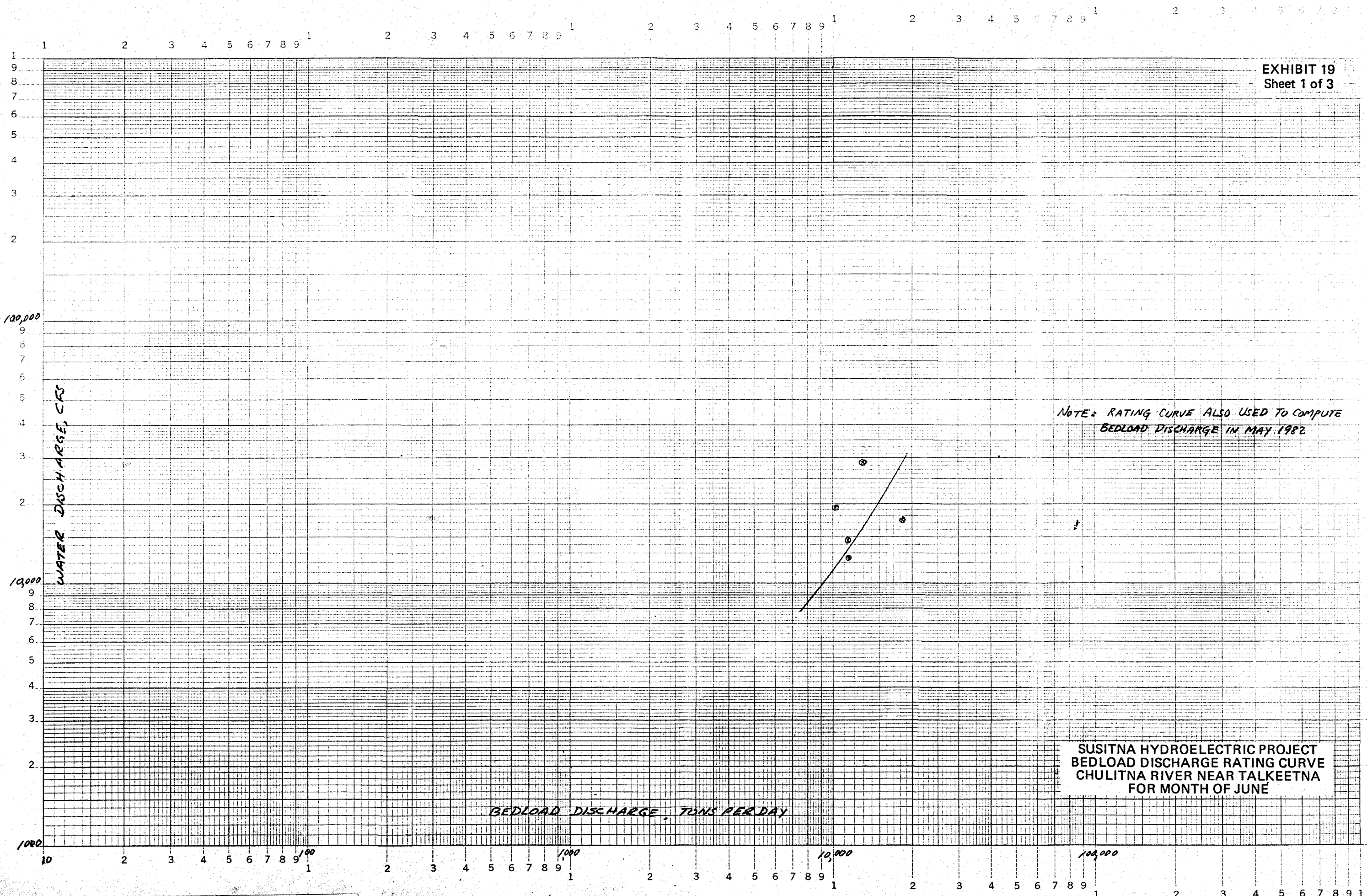
○ 1982

The month and date of measurement
are shown with each point

SUSITNA HYDROELECTRIC PROJECT
BEDLOAD DISCHARGE RATING CURVE
SUSITNA RIVER AT SUNSHINE

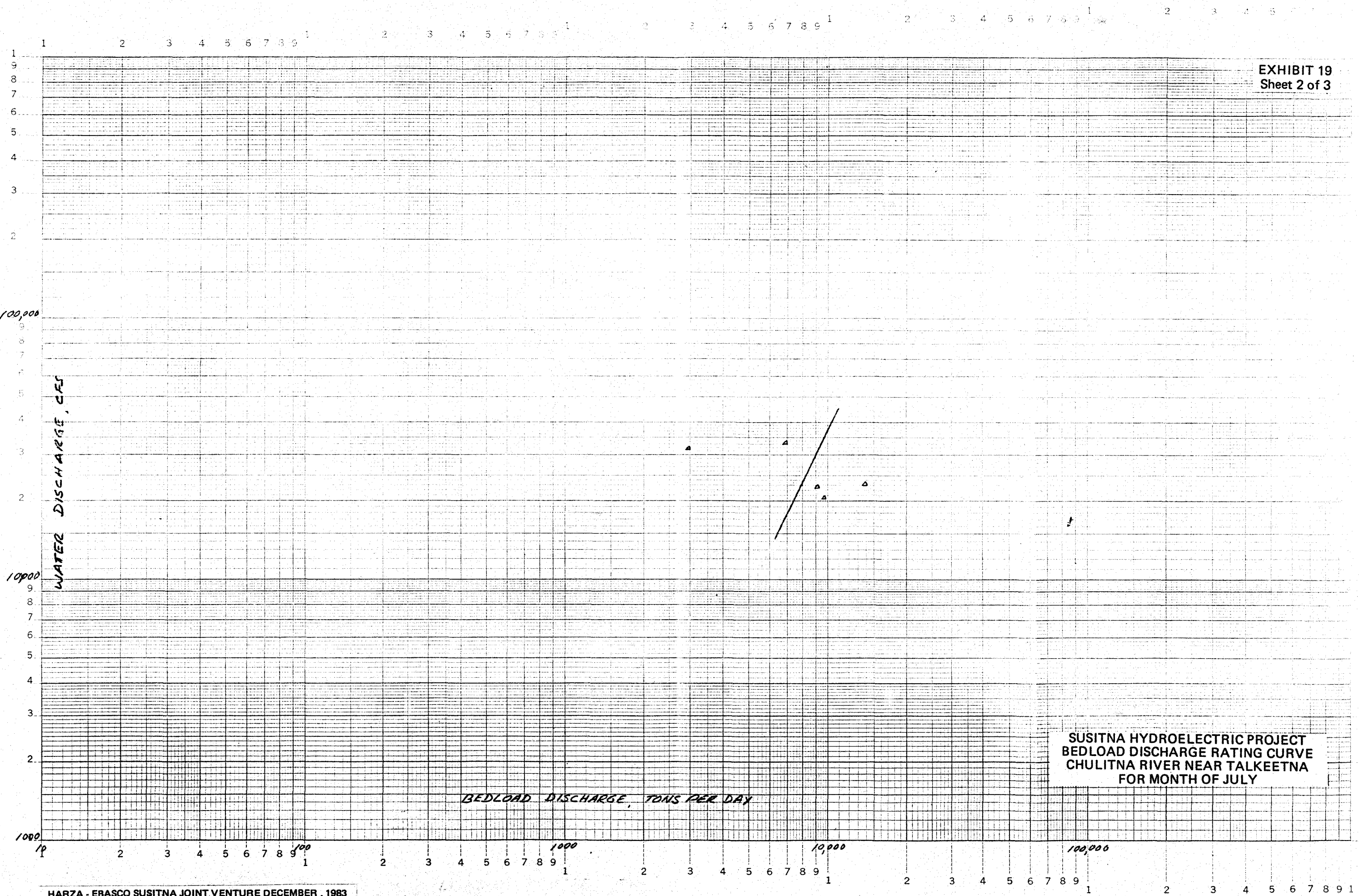
47 7523

K&E LOGARITHMIC 3 X 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



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K&E LOGARITHMIC 3 X 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



SUSITNA HYDROELECTRIC PROJECT
BEDLOAD DISCHARGE RATING CURVE
CHULITNA RIVER NEAR TALKEETNA
FOR MONTH OF JULY

47 7523

K&E LOGARITHMIC 3 X 5 CYCLES
KUPFEL & ESSER CO. MADE IN U.S.A.

100,000

10,000

1,000

WATER DISCHARGE, CFS

BEDLOAD DISCHARGE, TONS PER DAY

LEGEND

- x AUGUST
- o SEPTEMBER

NOTE: RATING CURVE ALSO USED TO COMPUTE
BEDLOAD DISCHARGE IN OCTOBER 1981
THROUGH APRIL 1982

SUSITNA HYDROELECTRIC PROJECT
BEDLOAD DISCHARGE RATING CURVE
CHULITNA RIVER NEAR TALKEETNA
FOR MONTHS OF AUGUST AND SEPTEMBER

PRINTED IN U.S.A. ON CLEARPRINT TECHNICAL PAPER NO. 1015
CLEARPRINT CHARTS
CLEARPRINT PAPER CO. NO. C423 LOGARITHMIC 5 BY 3 1/2 INCH CYCLES

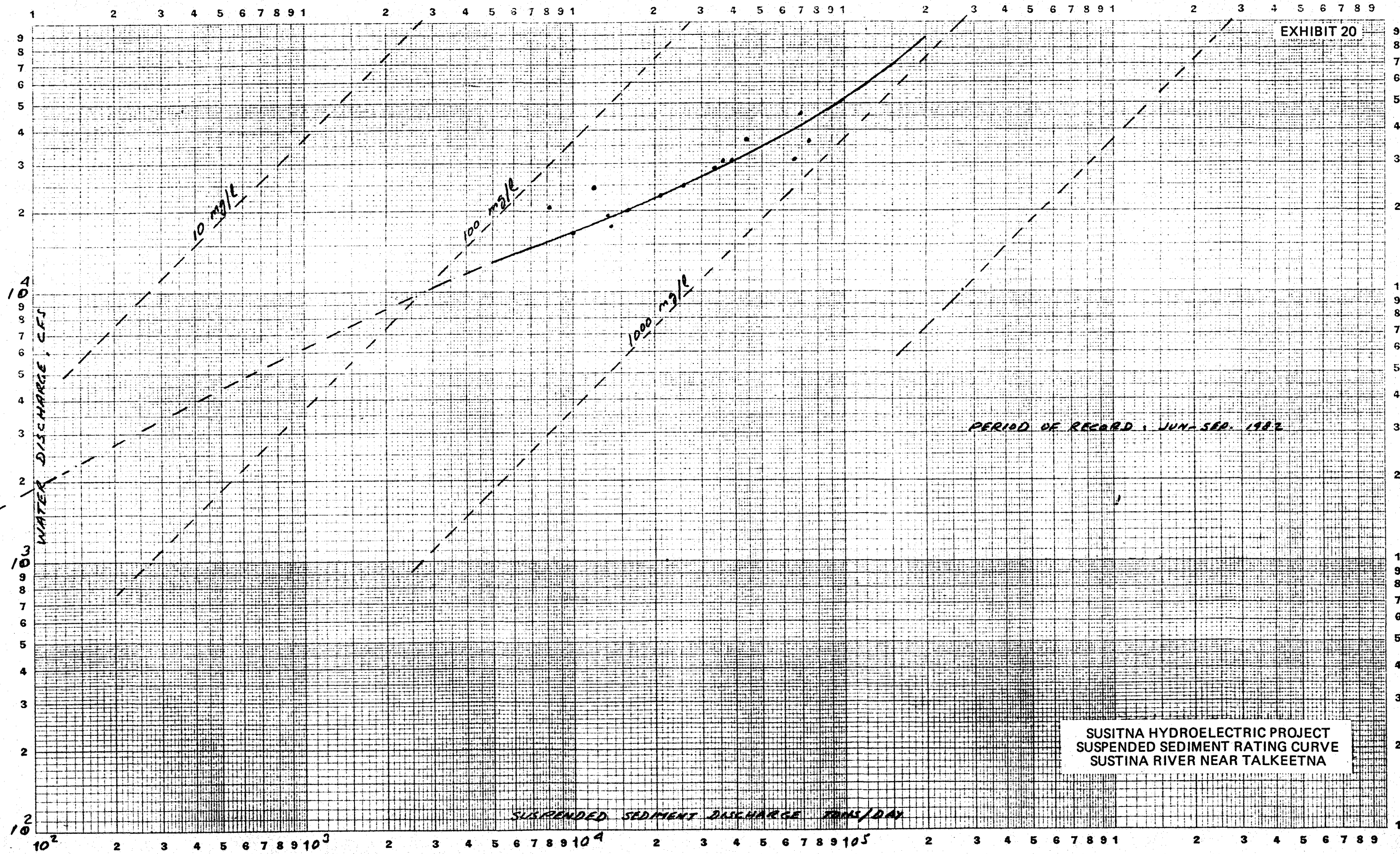
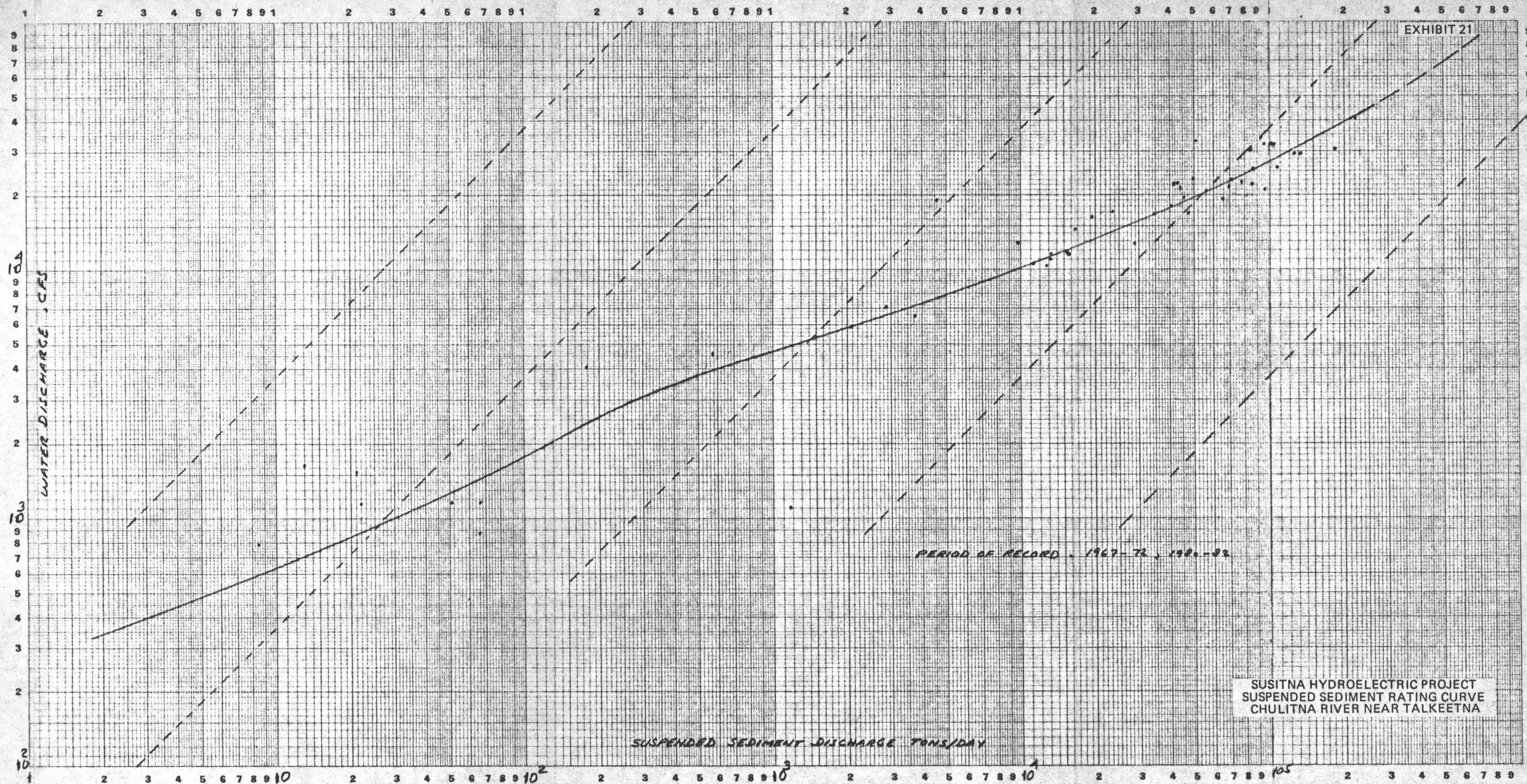
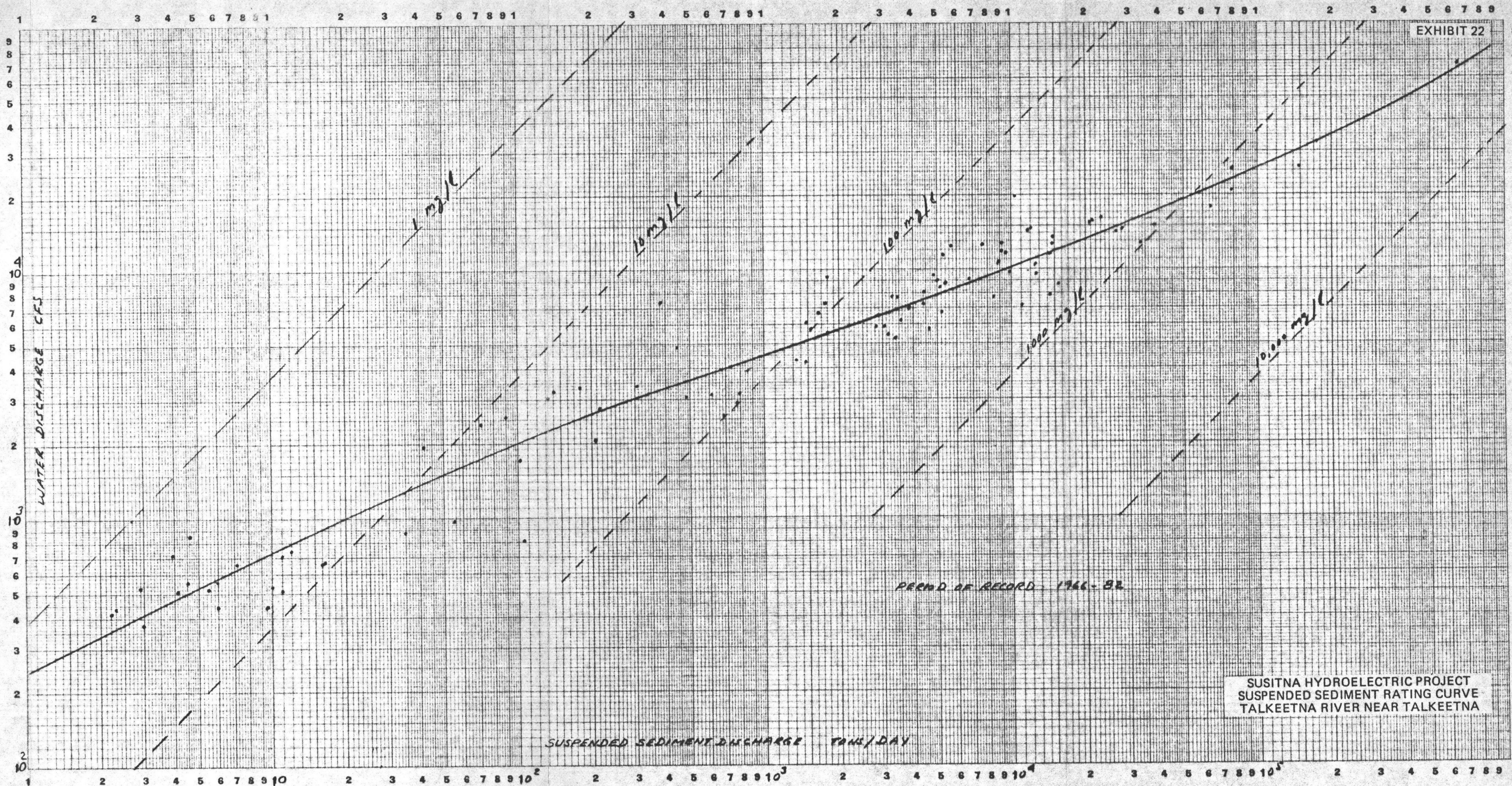


EXHIBIT 20





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K-E LOGARITHMIC 3 X 5 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

