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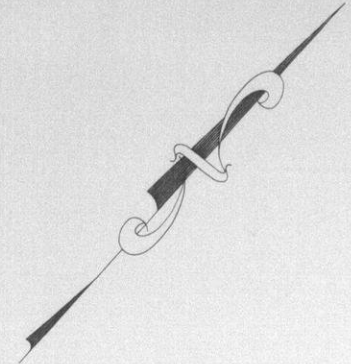
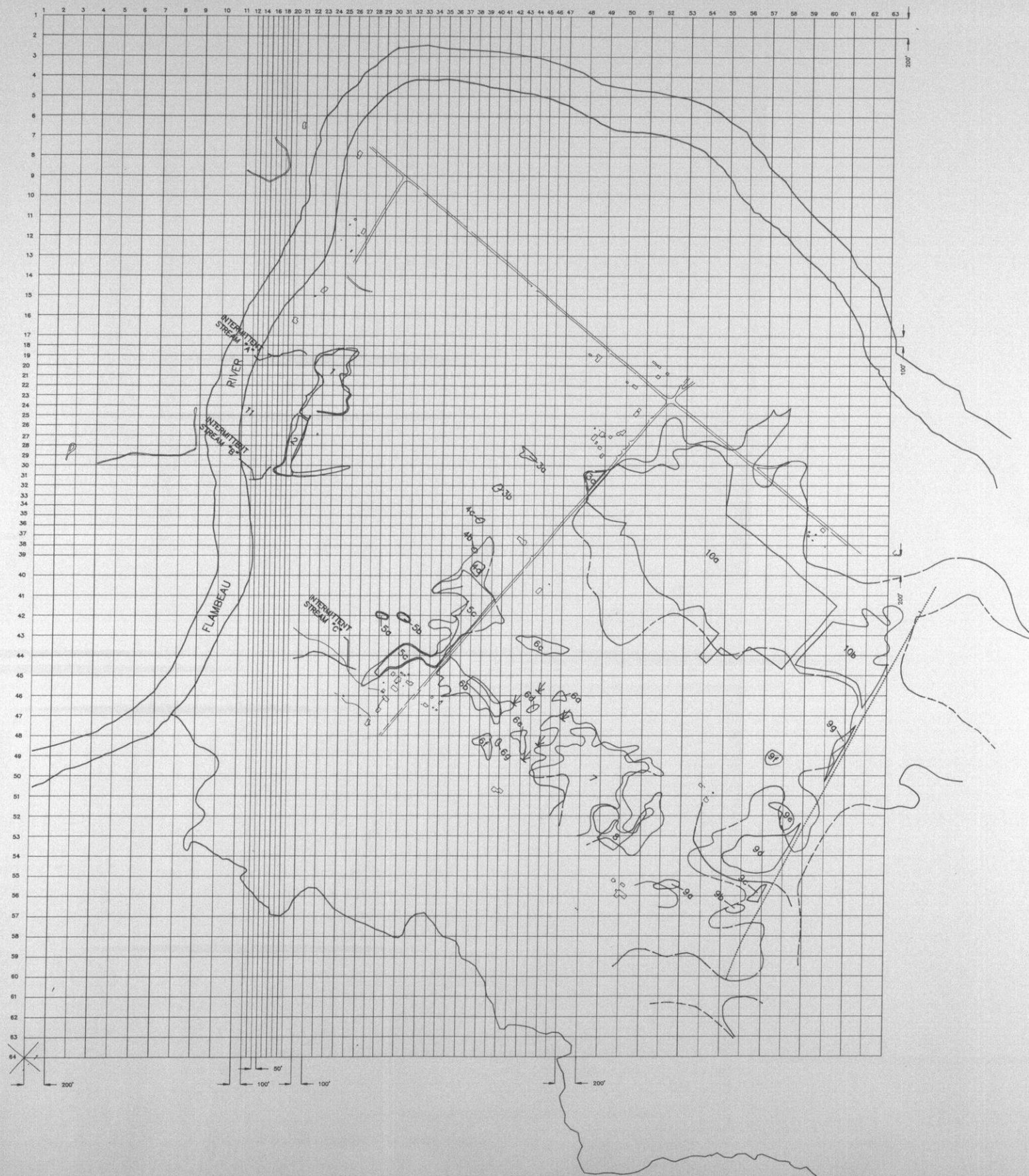
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REVISIONS			
DATE	DATE	BY	DESCRIPTION
5/2			

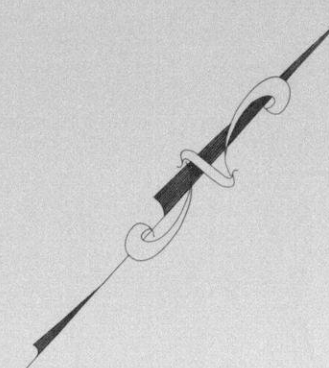
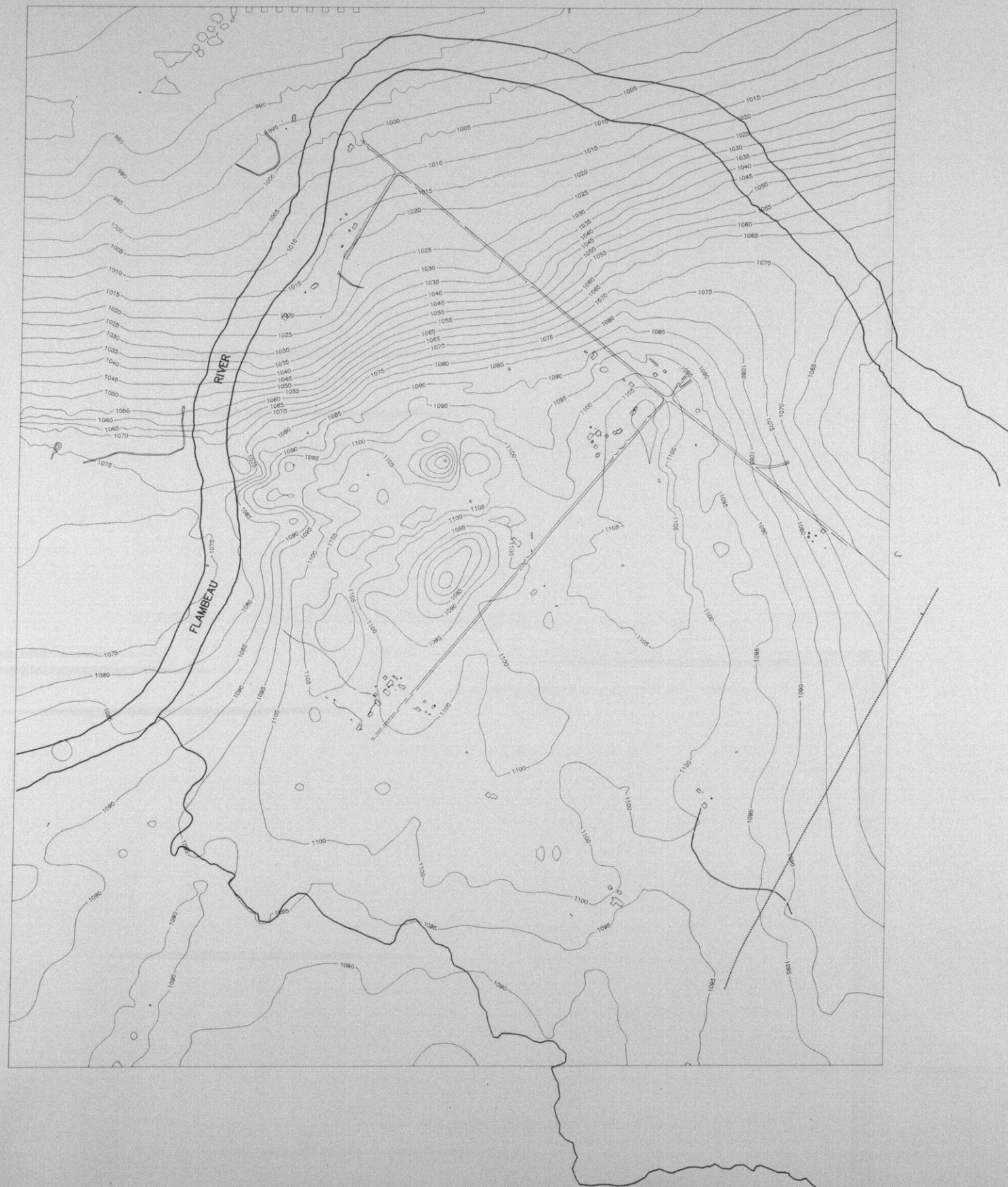
THOMAS A. PRICKETT & ASSOCIATES
 CONSULTING WATER RESOURCES ENGINEERS
 6 G.H. BAKER DRIVE
 URBANA, ILLINOIS 61801
 (217) 384 - 0615

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 (301) 461 - 9920

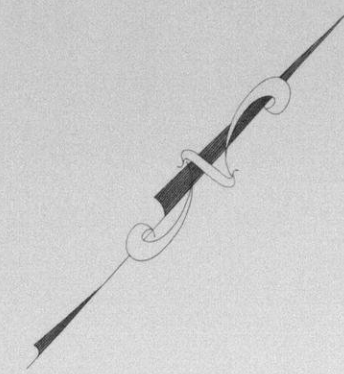
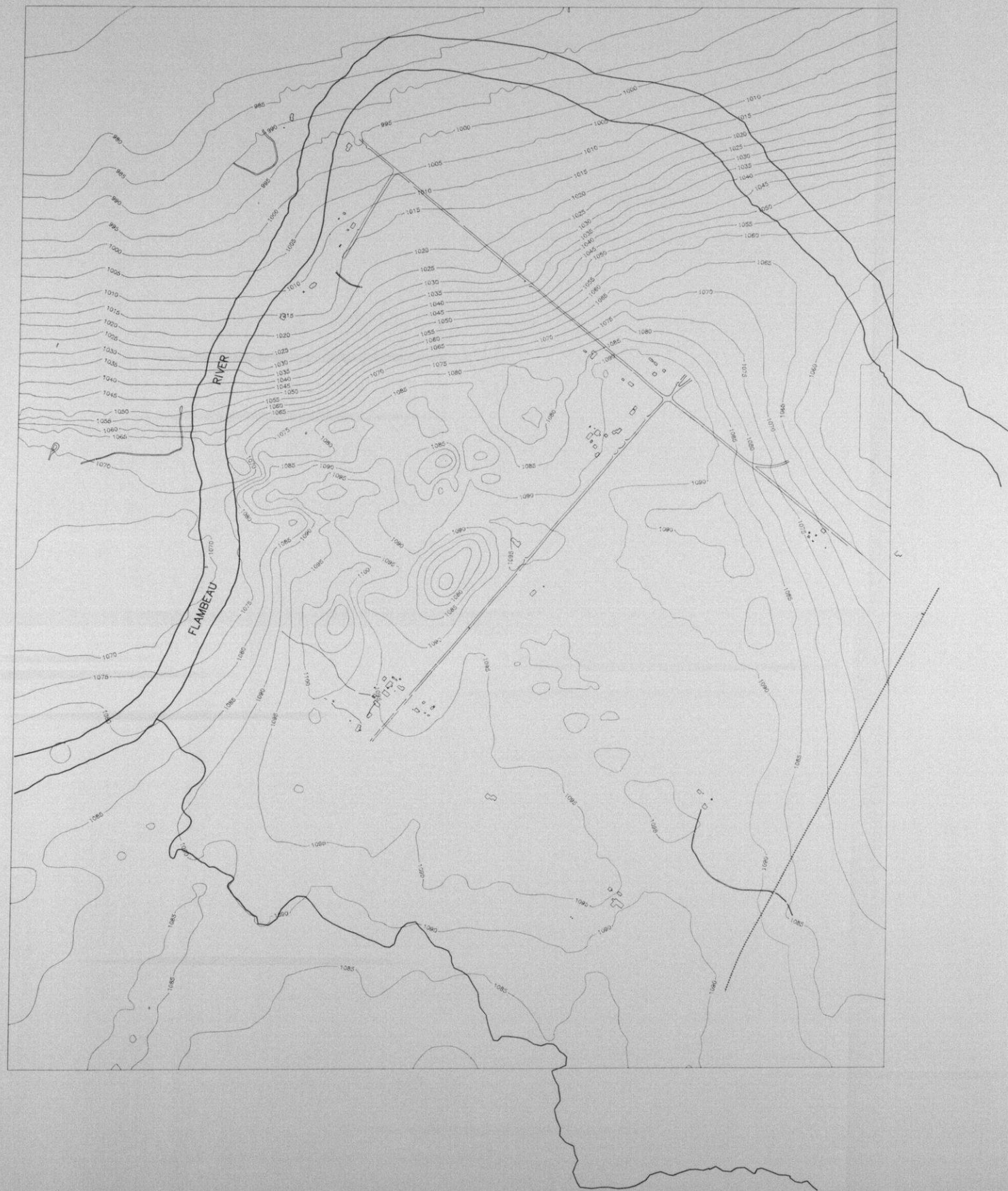
OWNER
 Kennecott Minerals Company
 1515 Mineral Square
 Salt Lake City, Utah 84147

FLAMBEAU PROJECT
 MODEL GRID
 SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7/19/89 SHEET: 1 OF 19

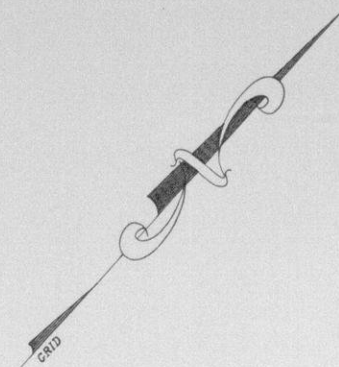
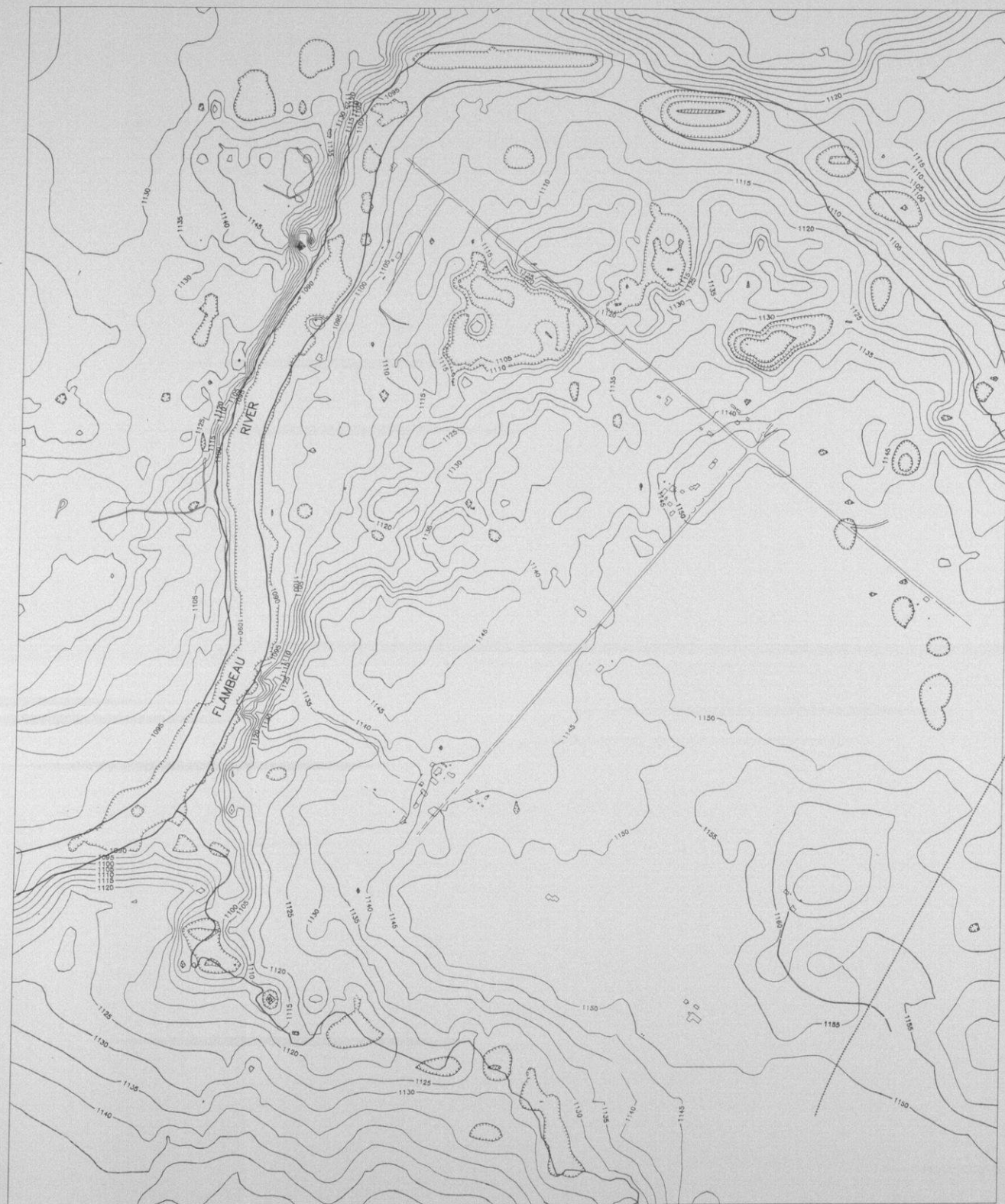
FLAMBEAU EXHIBIT 19



REVISIONS			THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3458 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 8920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah 84147	FLAMBEAU PROJECT			
DATE	BY	DESCRIPTION				TOP OF SANDSTONE			
SCALE: 1"=600'			CONTRACT NO.: 89302.10		DATE: 7/18/89		SHEET: 2 OF 19		



REVISIONS			THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS * PLANNERS * SURVEYORS 3458 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 9920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah 84147	FLAMBEAU PROJECT			
DATE	BY	DESCRIPTION				BEDROCK SURFACE			
SCALE: 1"=600'			CONTRACT NO.: 89302.10		DATE: 7/18/89	SHEET: 3 OF 19			



REVISIONS			
DATE	DATE	BY	DESCRIPTION

THOMAS A. PRICKETT
& ASSOCIATES
CONSULTING WATER RESOURCES ENGINEERS
6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0615

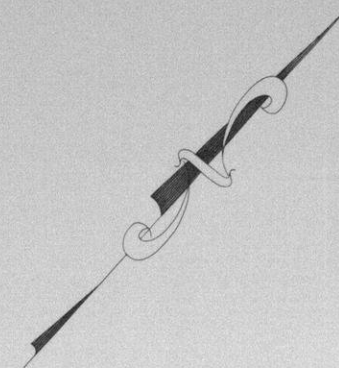
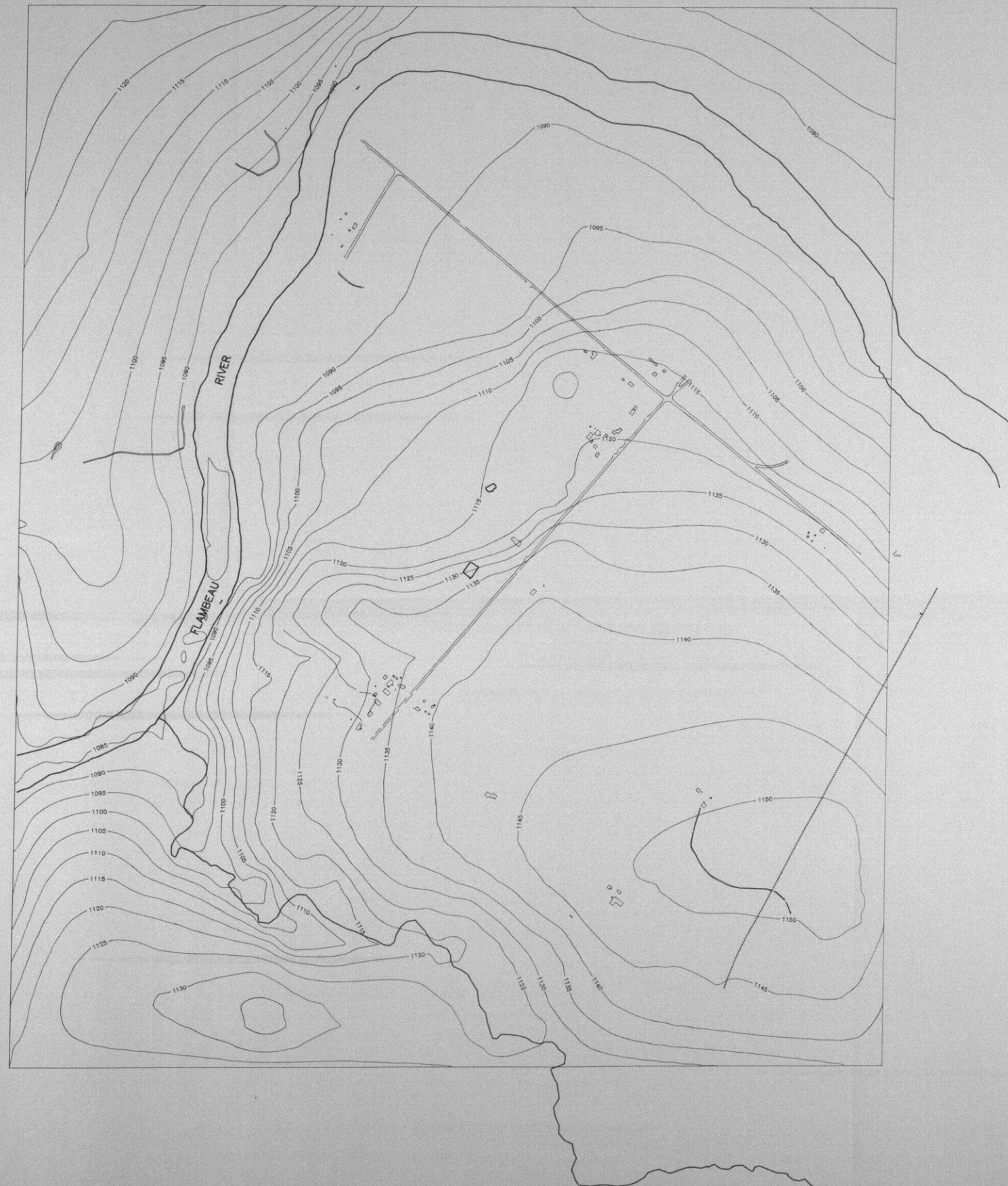
ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 9920

OWNER
Kennecott Minerals Company
1515 Mineral Square
Salt Lake City, Utah 84147

FLAMBEAU PROJECT

TOPOGRAPHY

SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7/19/89 SHEET: 4 OF 19



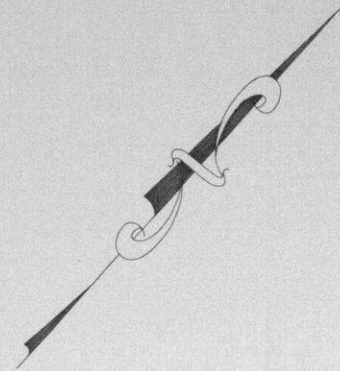
REVISIONS			
DATE	DATE	BY	DESCRIPTION

**THOMAS A. PRICKETT
& ASSOCIATES**
 CONSULTING WATER RESOURCES ENGINEERS
 6 G.H. BAKER DRIVE
 URBANA, ILLINOIS 61801
 (217) 384 - 0615

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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 (301) 461 - 9920

OWNER
 Kennecott Minerals Company
 1515 Mineral Square
 Salt Lake City, Utah

FLAMBEAU PROJECT			
STEADY STATE WATER TABLE FOR CALIBRATED POSITION			
SCALE: 1"=600'	CONTRACT NO.: 89302.10	DATE: 7/17/89	SHEET: 5 of 19



REVISIONS			
DATE	DATE	BY	DESCRIPTION

**THOMAS A. PRICKETT
& ASSOCIATES**

CONSULTING WATER RESOURCES ENGINEERS

6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0615

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3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 9920

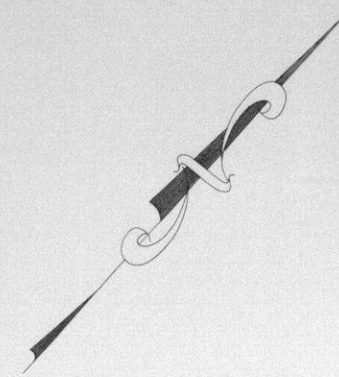
OWNER

Kennecott Minerals Company
1515 Mineral Square
Salt Lake City, Utah

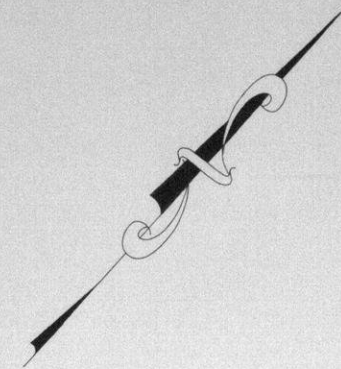
FLAMBEAU PROJECT

PREDICTED DEPTH TO WATER (ft)

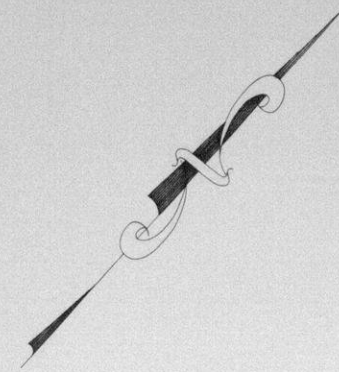
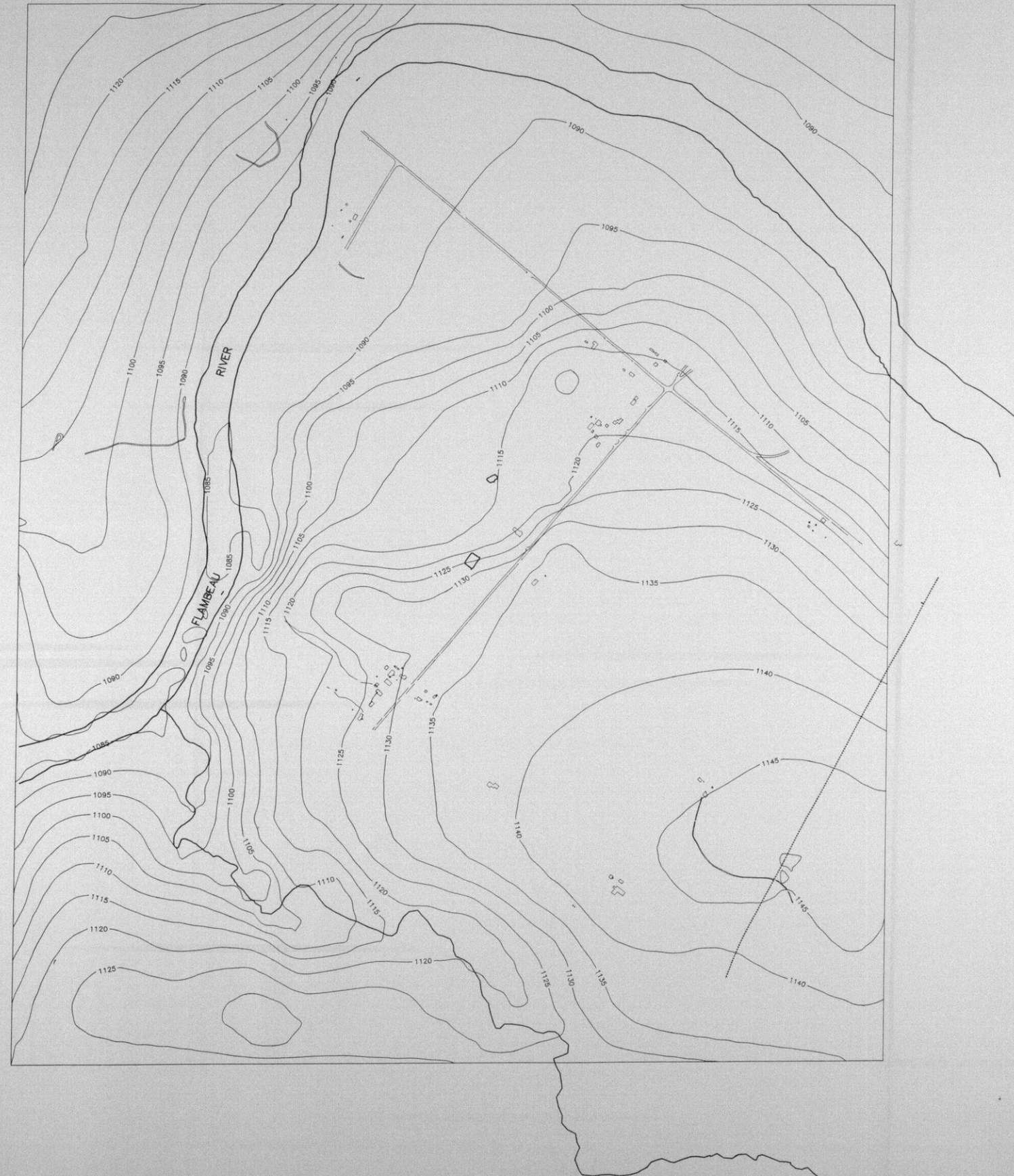
SCALE: 1"=600'	CONTRACT NO.: 89302.10	DATE: 7/17/89	SHEET: 6 OF 19
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REVISIONS				THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS * PLANNERS * SURVEYORS 3458 ELLICOTT CENTER DRIVE, SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 9920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah, 84147	FLAMBEAU PROJECT			
DATE	DATE	BY	DESCRIPTION				MODEL HYDRAULIC CONDUCTIVITY (gpd/sq ft) GLACIAL/FLUVIAL LAYER			
DHK	5-2						SCALE: 1"=600'			
	DATE						CONTRACT NO.: 89302.10			
	DATE						DATE: 7/19/89			
	DATE						SHEET: 7 OF 19			



REVISIONS				THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3458 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 9920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah, 84147	FLAMBEAU PROJECT			
DATE	DATE	BY	DESCRIPTION				MODEL HYDRAULIC CONDUCTIVITY (gpd/sq ft) SANDSTONE			
5/2/89							SCALE: 1"=600'			
DATE							CONTRACT NO.: 89302.10			
DATE							DATE: 7/19/89			
DATE							SHEET: 8 OF 19			



REVISIONS			
DATE	DATE	BY	DESCRIPTION

THOMAS A. PRICKETT
& ASSOCIATES
CONSULTING WATER RESOURCES ENGINEERS

6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0615

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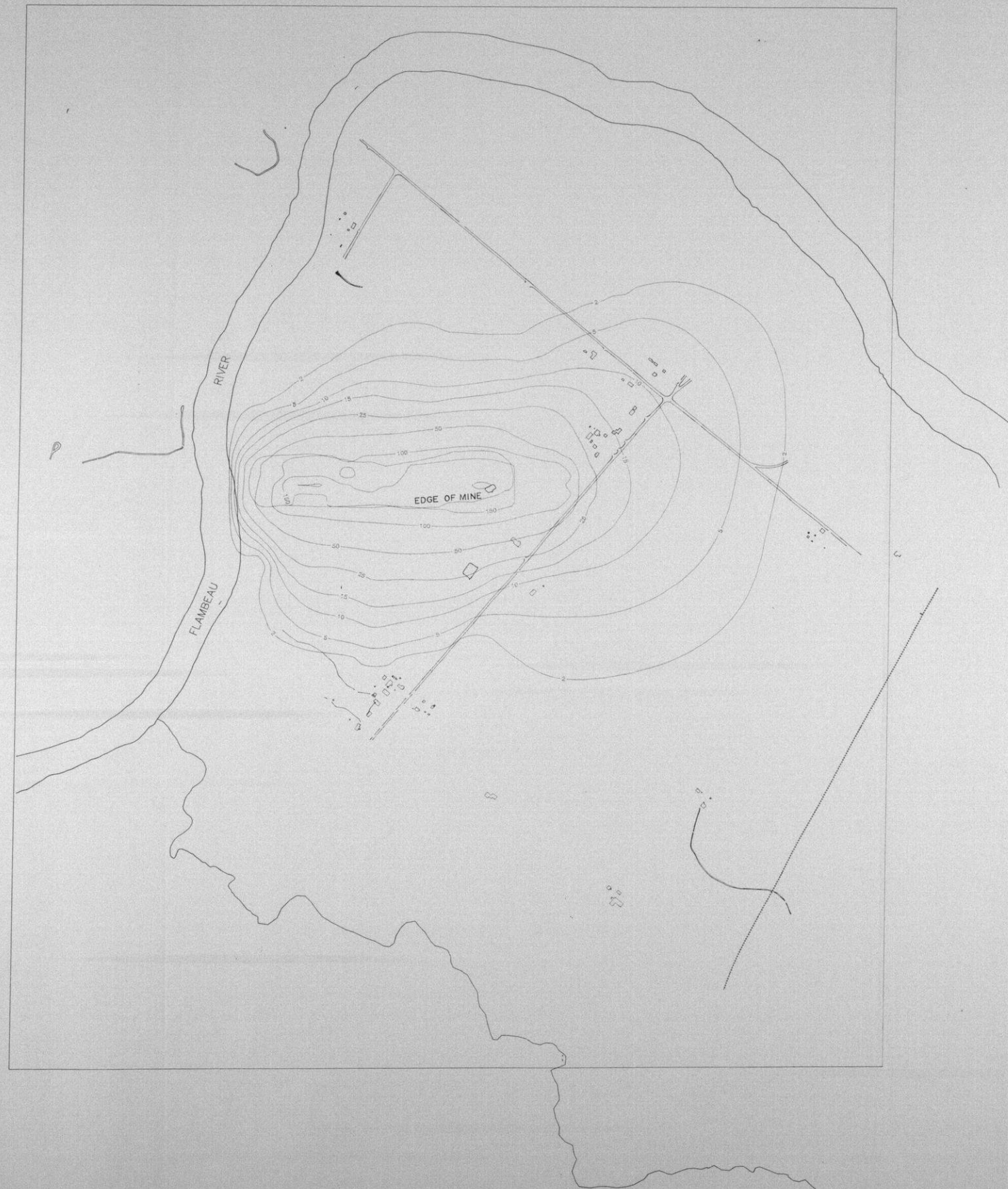
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 8920

OWNER

Kennecott Minerals Company
1515 Mineral Square
Salt Lake City, Utah

FLAMBEAU PROJECT
STEADY STATE WATER TABLE
WITH 10 FOOT
EVAPOTRANSPIRATION EXTINCTION DEPTH

SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7/17/89 SHEET: 9 OF 19



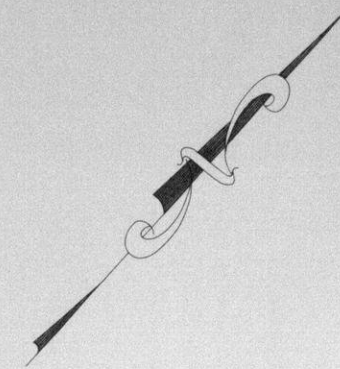
REVISIONS			
DATE	DATE	BY	DESCRIPTION
7-13			
DATE			
DATE			
DATE			

THOMAS A. PRICKETT
& ASSOCIATES
CONSULTING WATER RESOURCES ENGINEERS
6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0815

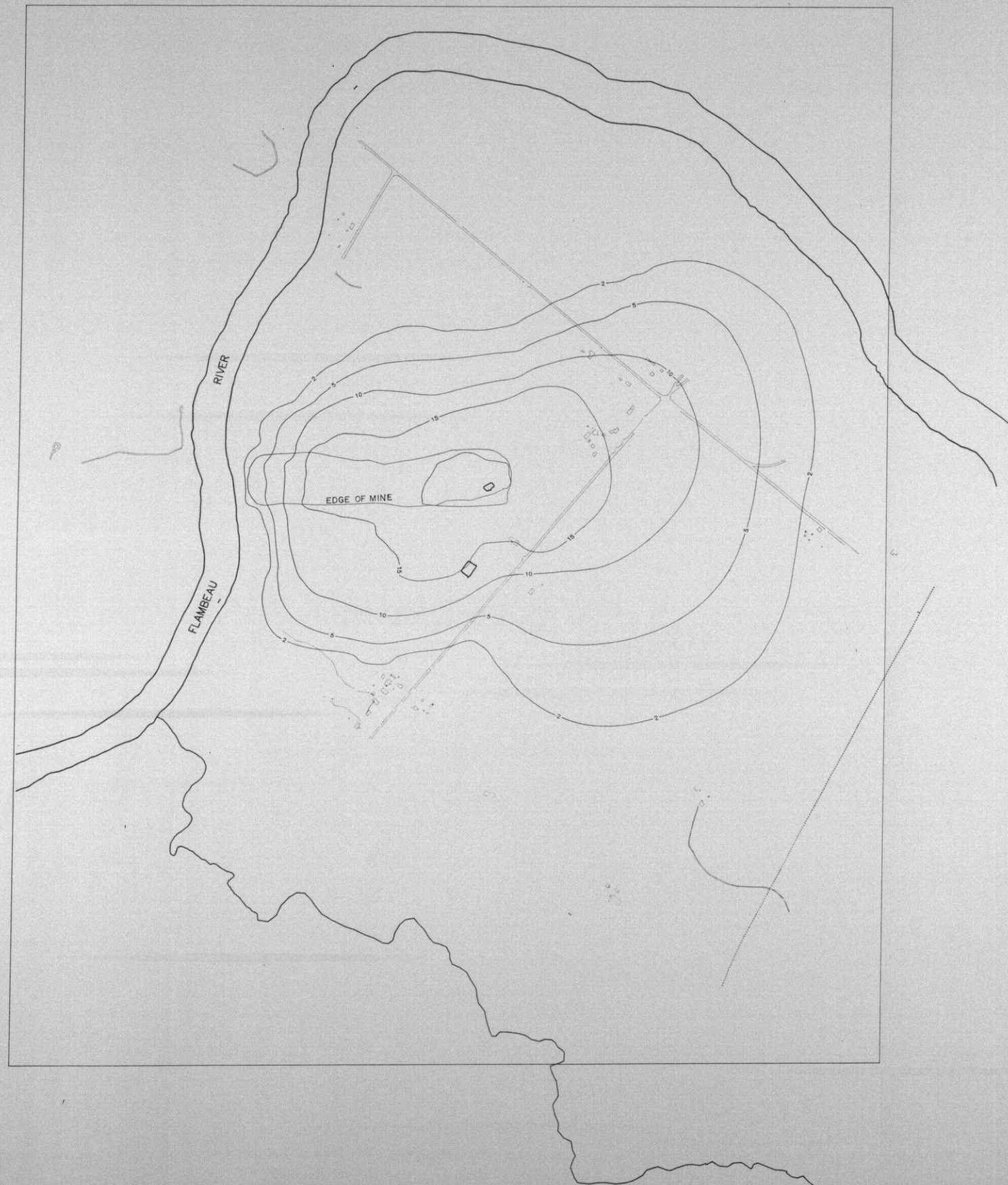
ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 9920

OWNER
Kennecott Minerals Company
1515 Mineral Square
Salt Lake City, Utah

FLAMBEAU PROJECT
DRAWDOWN AT END OF MINING
SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7/18/89 SHEET: 10 OF 19



REVISIONS				THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3458 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 9920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah	FLAMBEAU PROJECT			
DATE	DATE	BY	DESCRIPTION				PREDICTED WATER TABLE AT			
JMY 7-13 DATE							END OF MINING			
DATE										
DATE										
				SCALE: 1"=600'				CONTRACT NO.: 89302.10	DATE: 7/19/89	SHEET: 11 OF 19



REVISIONS			
DATE	DATE	BY	DESCRIPTION
JMY 7-13			
DATE			
DATE			
DATE			

THOMAS A. PRICKETT
& ASSOCIATES

CONSULTING WATER RESOURCES ENGINEERS

6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0615

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ELLICOTT CITY, MARYLAND 21043
(301) 461 - 9920

OWNER

Kennecott Minerals Company

1515 Mineral Square

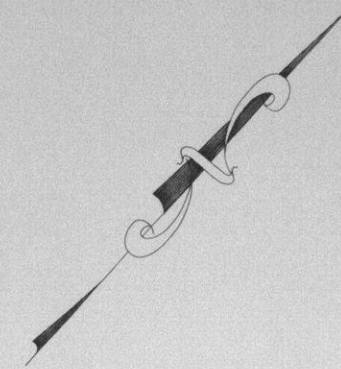
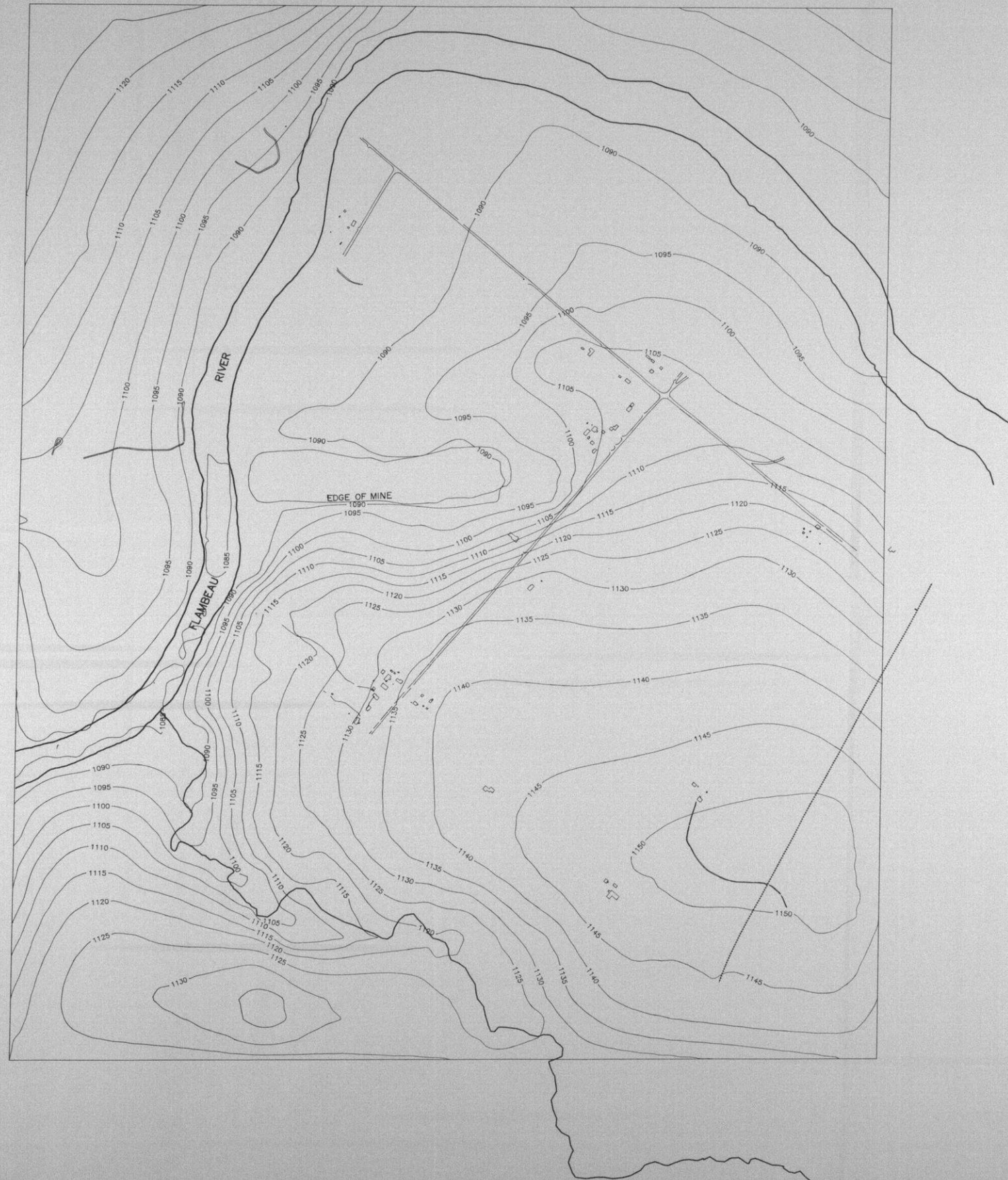
Salt Lake City, Utah

FLAMBEAU PROJECT

MAXIMUM EXTENT OF DRAWDOWN

2.3 YEARS AFTER RECLAMATION BEGINS

SCALE: 1"=600'	CONTRACT NO.: 89302.10	DATE: 7/18/89	SHEET: 12 OF 19
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REVISIONS			
DATE	DATE	BY	DESCRIPTION
7-13			
DATE			
DATE			
DATE			

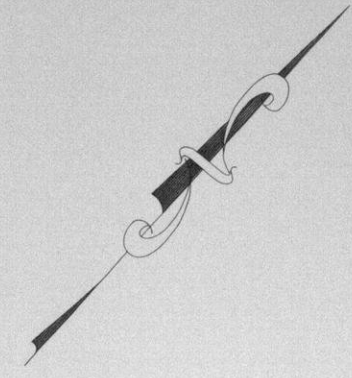
THOMAS A. PRICKETT
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 URBANA, ILLINOIS 61801
 (217) 384 - 0615

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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 (301) 461 - 9920

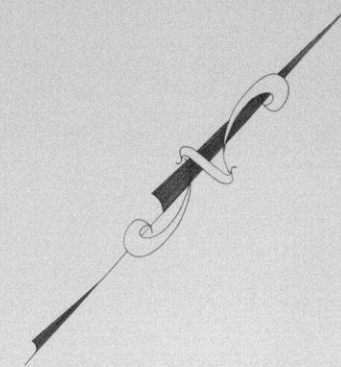
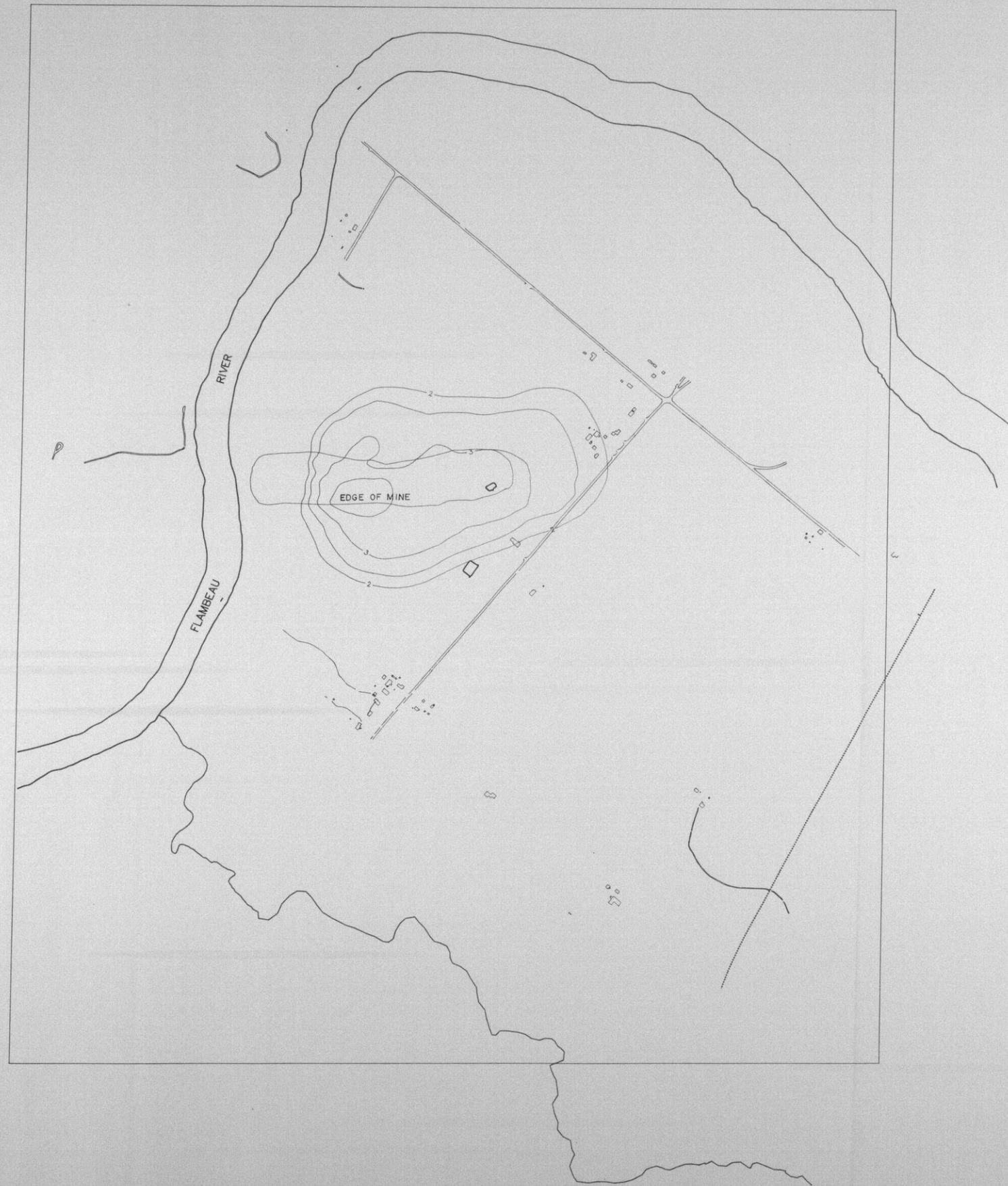
OWNER
 Kennecott Minerals Company
 1515 Mineral Square
 Salt Lake City, Utah

FLAMBEAU PROJECT
 PREDICTED GROUNDWATER TABLE
 2.3 YEARS AFTER MINING
 MAXIMUM DRAWDOWN

SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7-13-89 SHEET: 13 OF 19



REVISIONS				THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3458 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 9920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah	FLAMBEAU PROJECT			
DATE	DATE	BY	DESCRIPTION				POSTRECLAMATION STEADY STATE			
7-13							WATER TABLE			
							SCALE: 1"=600'	CONTRACT NO.: 89302.10	DATE: 7-13-89	SHEET: 14 OF 19



REVISIONS			
DATE	DATE	BY	DESCRIPTION
7-13			

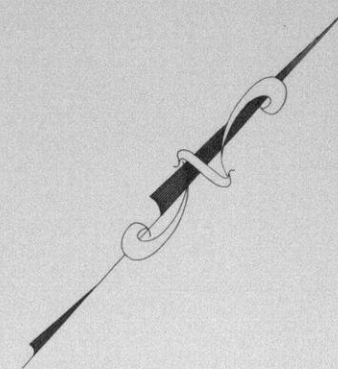
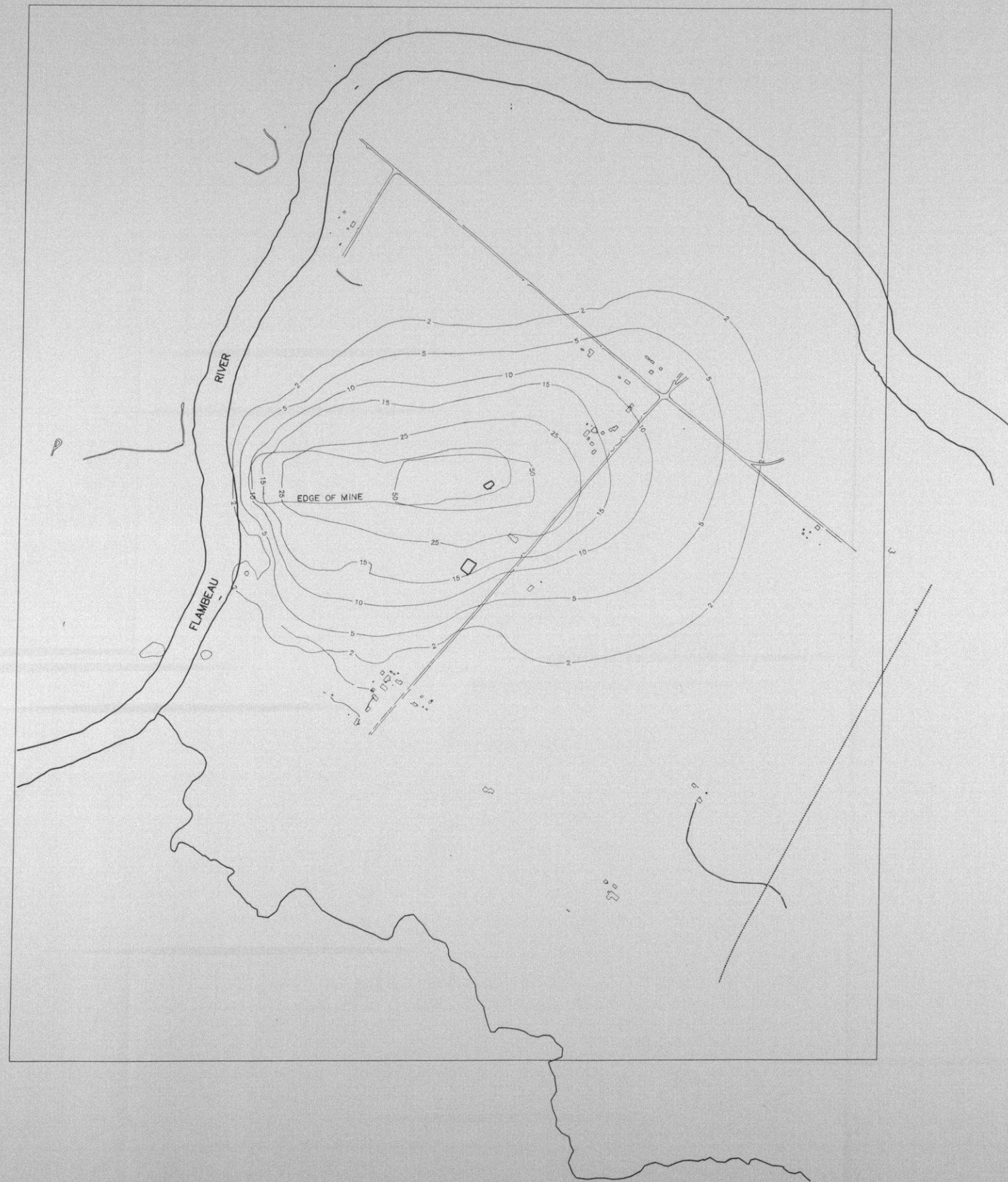
**THOMAS A. PRICKETT
& ASSOCIATES**
CONSULTING WATER RESOURCES ENGINEERS
6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0615

**ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.**
ENGINEERS • PLANNERS • SURVEYORS
3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 9920

OWNER
Kennecott Minerals Company
1515 Mineral Square
Salt Lake City, Utah

FLAMBEAU PROJECT
DIFFERENCE BETWEEN STEADY STATE PREMINING
AND POSTMINING WATER TABLES

SCALE: 1"=600'	CONTRACT NO.: 89302.10	DATE: 7/17/89	SHEET: 15 OF 19
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REVISIONS			
DATE	DATE	BY	DESCRIPTION
7-13			

THOMAS A. PRICKETT
& ASSOCIATES

CONSULTING WATER RESOURCES ENGINEERS

6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384 - 0615

ENGINEERING TECHNOLOGIES
ASSOCIATES, INC.

ENGINEERS • PLANNERS • SURVEYORS

345B ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461 - 9920

OWNER

Kennecott Minerals Company

1515 Mineral Square

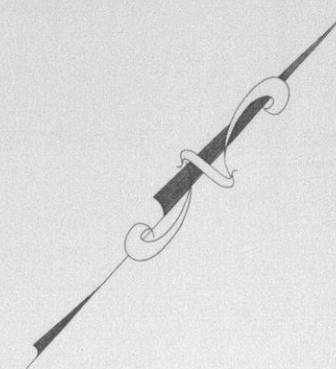
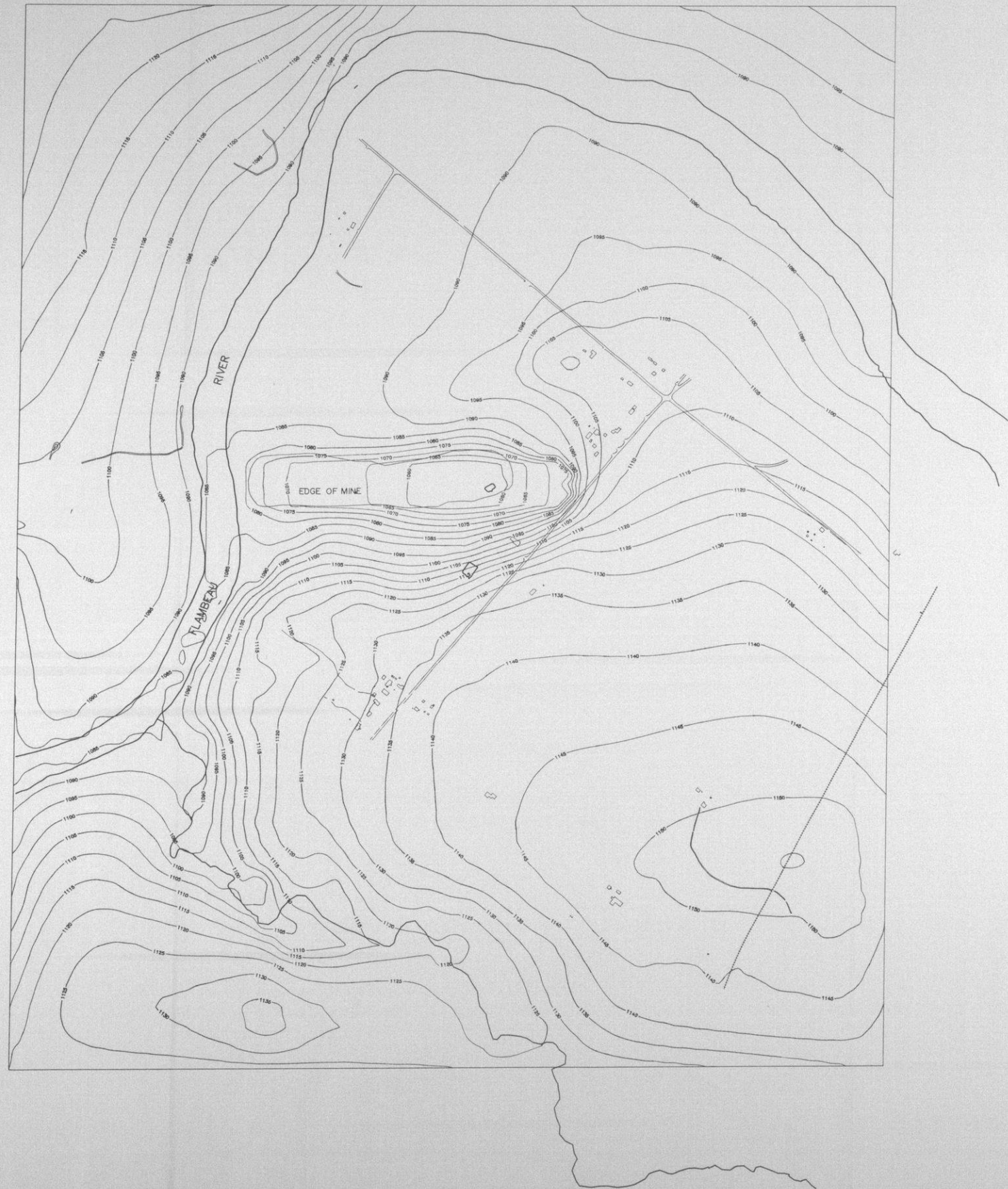
Salt Lake City, Utah

FLAMBEAU PROJECT

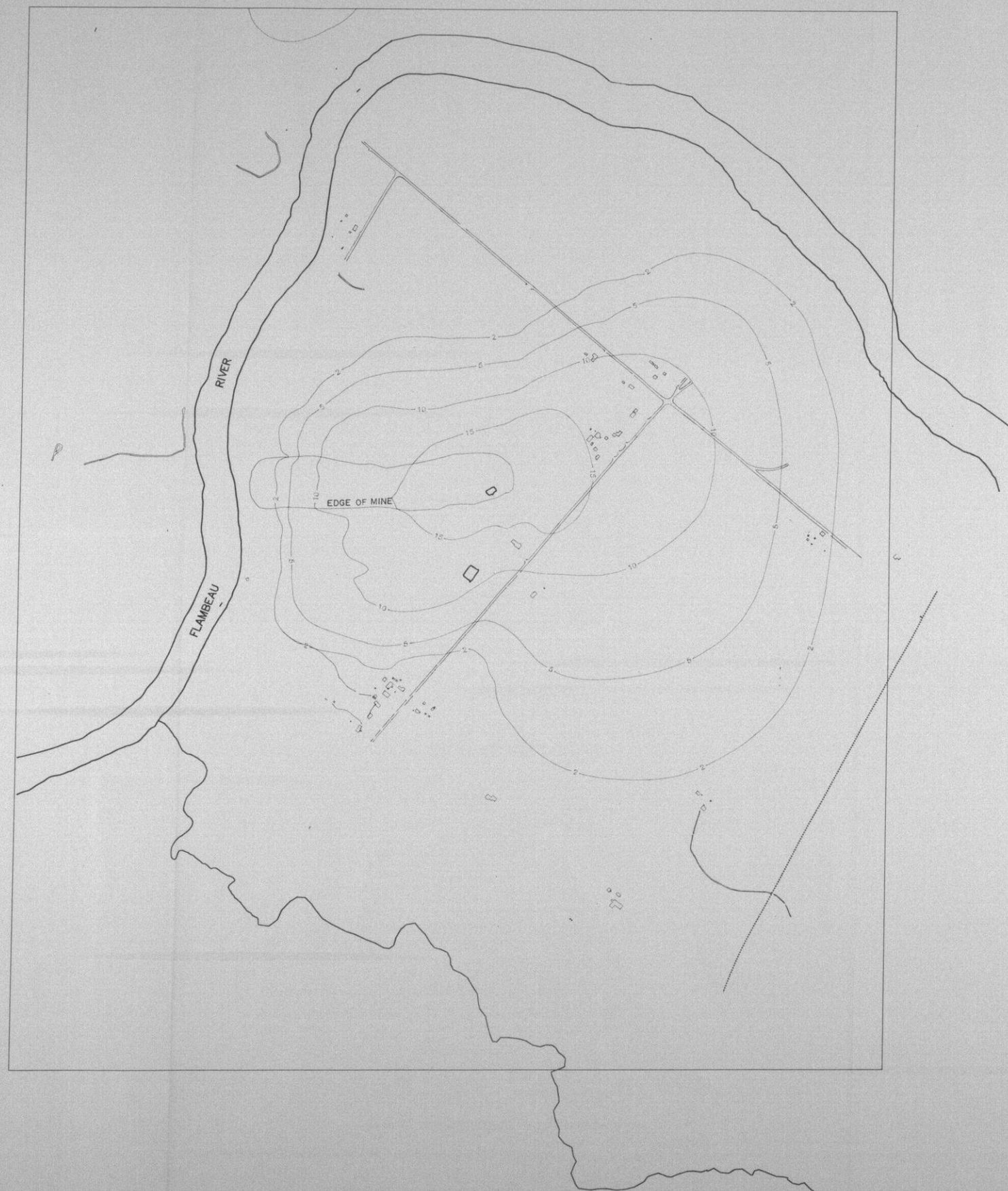
MAXIMUM EXTENT OF DRAWDOWN

LOW PERMEABILITY SCENARIO

SCALE: 1"=600'	CONTRACT NO.: 89302.10	DATE: 7/17/89	SHEET: 16 OF 19
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REVISIONS				THOMAS A. PRICKETT & ASSOCIATES CONSULTING WATER RESOURCES ENGINEERS 6 G.H. BAKER DRIVE URBANA, ILLINOIS 61801 (217) 384 - 0615	ENGINEERING TECHNOLOGIES ASSOCIATES, INC. ENGINEERS * PLANNERS * SURVEYORS 3458 ELLICOTT CENTER DRIVE SUITE 101 ELLICOTT CITY, MARYLAND 21043 (301) 461 - 9920	OWNER Kennecott Minerals Company 1515 Mineral Square Salt Lake City, Utah	FLAMBEAU PROJECT			
DATE	DATE	BY	DESCRIPTION				GROUND WATER TABLE AT AT MAXIMUM DRAWDOWN LOW PERMEABILITY SCENARIO			
JMY 7-13										
DATE										
DATE										
				SCALE: 1"=600'			CONTRACT NO.: 89302.10	DATE: 7/18/89	SHEET: 17 OF 19	



REVISIONS			
DATE	DATE	BY	DESCRIPTION
7-13			
DATE			
DATE			

THOMAS A. PRICKETT
& ASSOCIATES
CONSULTING WATER RESOURCES ENGINEERS
6 G.H. BAKER DRIVE
URBANA, ILLINOIS 61801
(217) 384-0615

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ASSOCIATES, INC.
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3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
(301) 461-9920

OWNER
Kennecott Minerals Company
1515 Mineral Square
Salt Lake City, Utah

FLAMBEAU PROJECT
MAXIMUM EXTENT OF DRAWDOWN
HIGH PERMEABILITY SCENARIO
SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7/17/89 SHEET: 18 OF 19



REVISIONS			
DATE	DATE	BY	DESCRIPTION
JMY	7-13		
DATE			
DATE			

THOMAS A. PRICKETT
 & ASSOCIATES
 CONSULTING WATER RESOURCES ENGINEERS
 6 G.H. BAKER DRIVE
 URBANA, ILLINOIS 61801
 (217) 384 - 0615

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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 (301) 461 - 9920

OWNER
 Kennecott Minerals Company
 1515 Mineral Square
 Salt Lake City, Utah

FLAMBEAU PROJECT
 GROUND WATER TABLE AT
 MAXIMUM DRAWDOWN
 HIGH PERMEABILITY SCENARIO

SCALE: 1"=600' CONTRACT NO.: 89302.10 DATE: 7/17/89 SHEET: 19 OF 19