

GW - 28

REPORTS

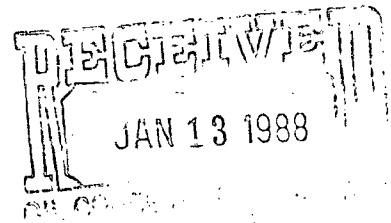
YEAR(S):

1986



United States Department of the Interior

GEOLOGICAL SURVEY
Water Resources Division
Rm. 115 Federal Bldg.
Cathedral Place
Santa Fe, NM 87501



September 16, 1987

Zeke Sherman
Navajo Refinering, Co.
P.O. Box 159
Artesia, NM 88210

Dear Zeke:

Our Carlsbad office is sending the following:

1. Station description - use reference marks to get gage datum for a survey.
2. Rating curve - use 81,700 cfs to determine a gage height in feet for the elevation of the 100 year flood discharge.

Yours truly,

Scott Waltemeyer
Scott Waltemeyer

TECHNIQUES FOR ESTIMATING FLOOD-FLOW FREQUENCY FOR UNREGULATED STREAMS IN NEW MEXICO

By Scott D. Waltemeyer

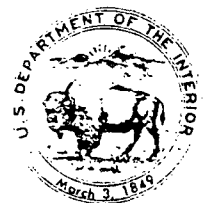
U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 86-4104

Prepared in cooperation with the
NEW MEXICO STATE HIGHWAY DEPARTMENT

Albuquerque, New Mexico

1986



UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
Water Resources Division
505 Marquette NW, Room 720
Albuquerque, New Mexico 87102

Copies of this report can
be purchased from:

U.S. Geological Survey
Books and Open-File Reports
Federal Center, Building 41
Box 25425
Denver, Colorado 80225
(303) 236-7476

Table 3. Flood-frequency characteristics for streamflow-gaging stations - Continued

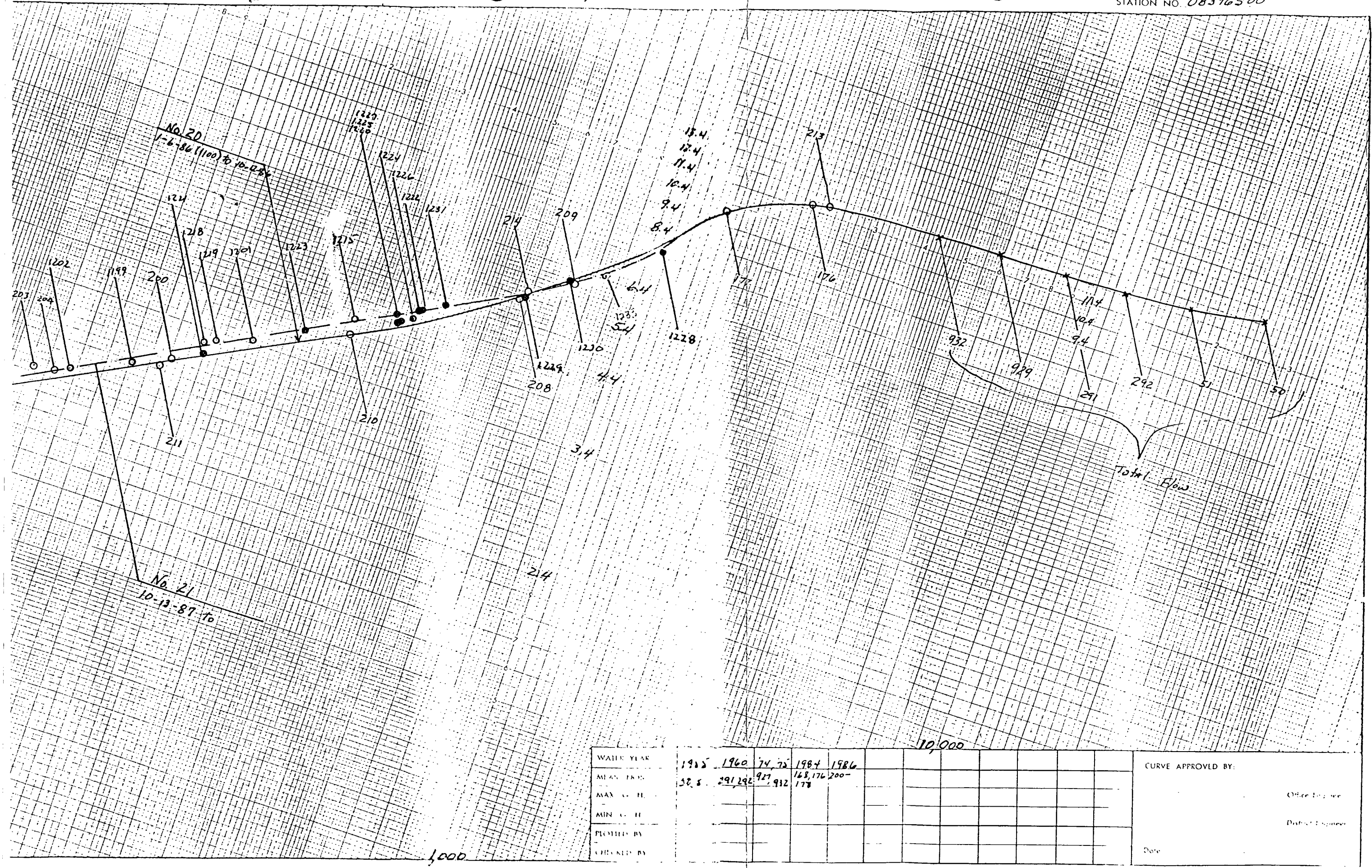
		Discharge, in cubic feet per second, for indicated exceedance probabilities					
Station number	Years of record	0.50	0.20	0.10	0.04	0.02	0.01
Southeast mountain region (3) - Concluded							
08405050	24	102	241	372	586	782	1,010
08405100	13	2,880	4,950	6,600	8,980	11,000	13,200
08405500	37	2,630	10,500	21,300	44,800	71,800	109,000
08408500	45	4,040	11,800	21,300	40,800	62,900	93,600
08480650	23	964	1,920	2,750	4,060	5,220	6,550
08480700	25	123	366	636	1,130	1,630	2,260
08481000	22	2,080	4,990	7,810	12,500	16,800	21,900
08481100	25	257	941	1,810	3,570	5,480	8,020
08481500	35	722	1,760	2,790	4,530	6,180	8,170
08482000	11	2,230	4,900	7,340	11,300	14,800	18,900
Southeast plains region (4)							
08379300	28	1,590	3,820	6,130	10,300	14,500	19,700
08379500	62	6,610	12,300	17,300	25,000	31,900	39,900
08379550	11	185	558	1,020	1,950	3,000	4,450
08379600	31	17	61	123	263	433	683
08380300	23	103	431	939	2,200	3,850	6,420
08380500	66	621	1,660	2,820	5,040	7,380	10,500
08381000	57	467	1,190	1,970	3,420	4,910	6,840
08382000	12	2,730	4,100	5,100	6,490	7,600	8,790
08382500	31	3,440	7,060	10,400	15,900	20,900	27,000
08383000	55	8,510	18,100	27,100	42,200	56,400	73,600
08383500	44	9,400	16,500	22,300	31,000	38,600	47,200
08384500	22	8,630	15,000	20,300	28,200	35,100	42,700
08385530	20	31	139	314	763	1,370	2,350
08385600	31	1,560	3,680	5,860	9,750	13,600	18,500
08385670	20	420	807	1,150	1,690	2,170	2,740
08393600	24	12	71	186	532	1,060	2,000
08396500	27	10,300	21,100	31,200	47,800	63,200	81,700
08480150	22	1,280	2,460	3,250	5,190	6,710	8,490

LEVEL SUMMARY

STA. *Pecos River near Artesia, N. Mex.*

DATE	PARTY	RM 1	RM 2	USGS BM P 257	REFERENCE POINT INSIDE STAFF			DIFF.	OUTSIDE GAGE	REMARKS
					FOUND	LEFT				
1-12-56		21.43	-	-						
4-11-62	Ostrander Cranston	21.46	21.46	21.48						Upper section found OK - section 3.32 ft to 6.64 ft found reading a 0.5 ft high, reset correct.
9-16-62	Cranston Ostrander	21.46	21.46	21.48						Found OK - reset correct on 5th channel banking found to have settled .05 ft.
3-25-71	Rogers DeWesses	Not run	21.46	21.48						Lower 10-ft. section of gage well replaced.
3-13-75	DeWesses Kueck Rogers	21.46	21.46	* 21.48						Not reset.
3-23-81	McCracken PARGAS	B 21.46	21.46	-	RM3 12.43	RM4 11.72	RM5 11.98			ESTABLISHED NEW RM's USING NEW GAGE LOCATED 250 FT UPSTREAM FROM OLD SITE
4-3-81	RONNIE McCracken CLARK				11.72	B 11.98				SET OUTSIDE STAFF AT NEW G.A
RM 3	CHARGED SQUARE IN DOWNSTREAM STREAMWARD CORNER OF LEFT A-FRAME SUPPORT									
RM 4	STATE HIGH BEAST CAP #RLW 75 (STAMPED EL. 3303.67) LOCATED DOWNSTREAM FROM GAGE APPROX 135' ON LT. BANK AT FENCE CORNER, 25' EAST OF TELEPHONE POLE.									
RM 5	STATE HIGH BEAST CAP #RL 100 (STAMPED EL. 3303.92) LOCATED DOWNSTREAM FROM GAGE APPROX 110' ON LT. BANK 10' EAST OF FENCE.									
	BEAST CHARGED SQUARE ON CORNER OF DOWNSTREAM SIDE OF LEFT BRIDGE ABUTMENT									
	BEAST CHARGED SQUARE ON CORNER OF UPSTREAM SIDE OF LEFT BRIDGE ABUTMENT									

USGS BM P 257 -





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

September 9, 1987

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED - RETURN
RECEIPT REQUESTED

Mr. David Griffin
Environmental Affairs Superintendent
Navajo Refining Company
P. O. Drawer 159
Artesia, New Mexico 88210

Re: Navajo Refinery Discharge Plan, GW-28

Dear Mr. Griffin:

On August 4, 1987 you received correspondence from this office, dated August 3, 1987, informing you of the necessity for OCD to resample selected wells in the pond area. This resampling was required due to inconclusive laboratory results obtained from our previous sampling trips. Resampling was conducted on Wednesday, August 12, 1987. The laboratory results from this trip have not been received, therefore, the OCD is not prepared to make a decision on discharge plan approval before the September 15, 1987 expiration date of the current extension to discharge without an approved discharge plan.

Pursuant to Water Quality Control Commission Regulation 3-106.A Navajo Refining Company is hereby granted a 120 day extension, to January 15, 1988, to discharge without an approved discharge plan at its Artesia Refinery. This extension will allow for the receipt and evaluation of the additional sampling results, issue public notice and allow for public comment. In the meantime, you are requested to respond as soon as possible to OCD letters of August 3 and August 27 so that remaining issues may be resolved.

FLOOD HAZARD BOUNDARY MAP

EDDY COUNTY,
NEW MEXICO

UNINCORPORATED AREA

PAGE 8 OF 45

(SEE MAP INDEX FOR PAGES NOT PRINTED)

EFFECTIVE DATE:
FEBRUARY 7, 1978

COMMUNITY - PANEL NO.
350120 0008 A

U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

RECEIVED
JAN 13 1988
CITY OF ARTESIA

City of Artesia
(AREA NOT INCLUDED)

LEGEND

SPECIAL FLOOD HAZARD
AREA

ZONE A

Note: These maps may not include all Special Flood Hazard Areas in the community. After a more detailed study, the Special Flood Hazard Areas shown on these maps may be modified, and other areas added.

CONSULT NFIA SERVING COMPANY OR LOCAL INSURANCE AGENT OR BROKER TO DETERMINE IF PROPERTIES IN THIS COMMUNITY ARE ELIGIBLE FOR FLOOD INSURANCE.

APPROXIMATE SCALE IN FEET
2000 0 2000

