

GIANT
REFINING CO.

Route 3, Box 7
Gallup, New Mexico
87301

505
722-3833

Ren K. D.
Barber
Bob S. ✓
MC ✓

March 6, 1995

Mr. William Honker, Chief
RCRA Permits Branch
Hazardous Waste Management Division
USEPA Region 6
1445 Ross Avenue
Suite 1200
Dallas, TX 75202-2733

MAR 10 1995

**VIA: CERTIFIED MAIL #Z 046 325 001
RETURN RECEIPT REQUESTED**

**RE: Giant Refining - Ciniza
RCRA Operating Permit NMD000333211-2
Class I Permit Modification Determination Request**

Dear Mr. Honker:

Giant Refining Company generates and treats RCRA regulated wastes at its Ciniza Refinery per the requirements of Permit #NMD000333211-2 (last revision approved via EPA correspondence dated 08/16/91). To address recent regulatory changes and to assist in our waste minimization efforts, Giant proposes the following facility revision and associated permit modifications:

- 1) Giant Refining - Ciniza is currently permitted under Part A of RCRA Permit #NMD000333211-2 to operate a treatment tank (T01) for the treatment of D018 wastewaters at a rate of 187,000 gallons per day. This unit is the existing API oil/water separator which recovers RCRA-exempt hydrocarbon from wastewater that is TC for benzene. Per 40 CFR 268.38(a), non-CWA D018 wastes are prohibited from land disposal and subject to treatment standards for hazardous wastes. To enhance physical phase separation, control VOC emissions, and equalize flow and concentration variations, Giant proposes the replacement of the existing API oil/water separator with three (3) 5,000 barrel internal floating roof tanks. Giant requests that Ciniza's RCRA Part A permit be modified to show tank treatment (T01) of D018 wastewater with a total capacity of 630,000 gallons (Three units @ 210,000 gallons each - see attached EPA application forms). Given that the replacement tanks will function identically to the existing separation unit, the requested permit modification will require no revisions of management practices. Giant submits the above facility and permit modifications as Class I modifications per 40 CFR 270.42 (Appendix I G.1.e) subject to review and prior approval of the Director.

- 2) Giant Refining - Ciniza is currently permitted under Part A of RCRA Permit #NMD000333211-2 to operate a benzene stripping system (T04) for the treatment of D018 wastewaters at a rate of 187,000 gallons per day. This unit is the existing benzene stripping system. Per 40 CFR 268.38(a), non-CWA D018 wastes are prohibited from land disposal and subject to treatment standards for hazardous wastes. Giant proposes to upgrade the existing benzene stripping system to treat up to a total of 720,000 gallons per day (a total of 500 gallons per minute) of D018 wastewater. This upgrade provides additional management flexibility of surge capacity during high flow, precipitation events. Giant requests that Ciniza's RCRA Part A permit be modified to show benzene stripping treatment (T04) of D018 wastewater with a total capacity of 720,000 gallons per day (Two units @ 360,000 GPD each - see attached EPA application forms). Given that only the system pumping capacity will be changed and the upgraded unit will function identically to the existing unit, the requested permit modification will require no revisions of management practices. Giant submits the above facility and permit modifications as Class I modifications per 40 CFR 270.42 (Appendix I G.1.e) subject to review and prior approval of the Director.

Due to contractor availability constraints, Giant requests verbal confirmation of your approval of the Class I permit modifications as soon as possible, with written approval to follow by mail when convenient.

Should you or your staff have any questions regarding this matter, please do not hesitate to contact Walt Toomer or Dave Pavlich of our environmental staff at (505) 722-3833.

Sincerely,



John Stokes
Refinery Manager

JS/wdt

Attachment: Completed RCRA Part A Application Forms

cc: Mr. Benito Garcia (w/ attachment)
Bureau Chief
New Mexico Environmental Department
Hazardous & Radioactive Materials Bureau
525 Camino de Los Marquez
Santa Fe, NM 87502

K. Bullerdick (w/ attachment)
D. Pavlich (w/o attachment)
L. Shelton (w/o attachment)
WWT File (w/ attachment)

For EPA Regional Use Only Date Received Month Day Year 	United States Environmental Protection Agency Washington, DC 20460 <h2 style="margin: 10px 0;">Hazardous Waste Permit Application</h2> <h3 style="margin: 0;">Part A</h3> <p style="font-size: small; color: gray;">(Read the Instructions before starting)</p>
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I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

<input type="checkbox"/> A. First Part A Submission	<input checked="" type="checkbox"/> B. Part A Amendment #
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C. Installation's EPA ID Number N M D O O O 3 3 3 2 1 1	D. Secondary ID Number (If applicable)
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II. Name of Facility

G I A N T R E F I N I N G C O M P A N Y C I N I Z A

III. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

I N T E R S T A T E 4 0		
Street (Continued) E X I T 3 9		
City or Town J A M E S T O W N	State N M	Zip Code 8 7 3 4 7 -
County Code (If known) M C K I N L E Y	County Name	

B. Land Type (Enter code) P	C. Geographic Location LATITUDE (Degrees, Minutes & Seconds) 3 5 2 9 0 2 0	LONGITUDE (Degrees, Minutes & Seconds) 1 0 8 2 5 0 4 2	D. Facility Existence Date Month Day Year 1 0 1 8 1 9 8 0
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IV. Facility Mailing Address

Street or P.O. Box

R O U T E 3 B O X 7		
City or Town G A L I U P	State N M	Zip Code 8 7 3 0 1 -

V. Facility Contact (Person to be contacted regarding waste activities at facility)

Name (Last) P A V L I C H	(First) D A V I D
Job Title M A N A G E R H / S / E	Phone Number (Area Code and Number) 5 0 5 - 7 2 2 - 3 8 3 3

VI. Facility Contact Address (See Instructions)

A. Contact Address Location Mailing Other <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	B. Street or P.O. Box
City or Town	State Zip Code

EPA I.D. Number (Enter from page 1)	Secondary ID Number (Enter from page 1)
N M D 0 0 0 3 3 3 2 1 1	

VII. Operator Information (See instructions)

Name of Operator																												
G	I	A	N	T		R	E	F	I	N	I	N	G		C	O	M	P	A	N	Y		C	I	N	I	Z	A
Street or P.O. Box																												
R	O	U	T	E		3		B	O	X		7																
City or Town												State		ZIP Code														
G	A	L	L	U	P											N	M	8	7	3	0	1	-					

Phone Number (Area Code and Number)	B. Operator Type	C. Change of Operator Indicator	Date Changed		
5 0 5 - 7 2 2 - 3 8 3 3	P	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Month	Day	Year

VIII. Facility Owner (See instructions)

A. Name of Facility's Legal Owner																											
G	I	A	N	T		I	N	D	U	S	T	R	I	E	S		A	R	I	Z	O	N	A		I	N	C
Street or P.O. Box																											
2	3	7	3	3		N	O	R	T	H		S	C	O	T	T	S		D	A	L	E		R	O	A	D
City or Town												State		ZIP Code													
S	C	O	T	T	S	D	A	L	E							A	Z	8	5	2	5	5	-				
Phone Number (Area Code and Number)												B. Owner Type		C. Change of Owner Indicator			Date Changed										
6	0	2	-	5	8	5	-	8	8	8	8				P	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Month	Day	Year								

IX. SIC Codes (4-digit, in order of significance)

Primary				Secondary			
2	9	1	1	(Description)			
PETROLEUM REFINING				(Description)			
Secondary				Secondary			
				(Description)			
(Description)				(Description)			

X. Other Environmental Permits (See instructions)

A. Permit Type (Enter code)	B. Permit Number	C. Description
R	N M D 0 0 0 3 3 3 2 1 1	RCRA PART B PERMIT
E	A Q P 6 3 3 - M - 2	NM AIR QUALITY PERMIT
N	N M R 0 0 A 1 7 2	GENERAL NPDES STORMWATER
E	G W - 3 2	NMOC DISCHARGE PLAN

EPA ID Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

N M D O O O 3 3 3 2 1 1

XI. Nature of Business (Provide a brief description)

The Giant-Ciniza Plant refines crude oil and markets refined petroleum fuel products.

XII. Process Codes and Design Capacities

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item XIII.

B. PROCESS DESIGN CAPACITY - For each code entered in column A, enter the capacity of the process.
1. AMOUNT - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	
D79	<u>Disposal:</u> Underground Injection	Gallons; Liters; Gallons Per Day; or Liters Per Day	T87	} Smelting, Melting, Or Refining Furnace	} Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour	
D80	Landfill	Acre-feet or Hectare-meter	T88			Titanium Dioxide Chloride Process Oxidation Reactor
D81	Land Treatment	Acres or Hectares	T89			Methane Reforming Furnace
D82	Ocean Disposal	Gallons Per Day r Liters Per Day	T90			Pulping Liquor Recovery Furnace
D83	Surface Impoundment	Gallons or Liters	T91			Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid
D99	Other Disposal	Any Unit of Measure Listed Below	T92			Halogen Acid Furnaces
S01	<u>Storage:</u> Container (Barrel, Drum, Etc.)	Gallons or Liters	T93			Other Industrial Furnaces Listed In 40 CFR §260.10
S02	Tank	Gallons or Liters	T94			Containment Building-Treatment
S03	Waste Pile	Cubic Yards or Cubic Meters				<u>Miscellaneous (Subpart X):</u>
S04	Surface Impoundment	Gallons or Liters	X01			Open Burning/Open Detonation
S05	Drip Pad	Gallons or Liters	X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Day; Metric Tons Per Day; Pounds Per Hour; or Kilograms Per Hour	
S06	Containment Building-Storage	Cubic Yards or Cubic Meters	X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Day; or Btu's Per Hour	
S99	Other Storage	Any Unit of Measure Listed Below	X04	Geologic Repository	Cubic Yards or Cubic Meters	
T01	<u>Treatment:</u> Tank	Gallons Per Day or Liters Per Day	X99	Other Subpart X	Any Unit of Measure Listed Below	
T02	Surface Impoundment	Gallons Per Day or Liters Per Day				
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour				
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				
T80	Boller	Gallons or Liters				
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				
T82	Lime Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				
T83	Aggregate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				
T84	Phosphate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				
T85	Coke Oven	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				
T86	Blast Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour				

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons	G	Short Tons Per Hour	D	Cubic Yards	Y
Gallons Per Hour	E	Metric Tons Per Hour	W	Cubic Meters	C
Gallons Per Day	U	Short Tons Per Day	N	Acres	B
Liters	L	Metric Tons Per Day	S	Acre-feet	A
Liters Per Hour	H	Pounds Per Hour	J	Hectares	Q
Liters Per Day	V	Kilograms Per Hour	R	Hectare-meter	F
				Btu's Per Hour	I

EPA I.D. Number (Enter from page 1)										Secondary ID Number (Enter from page 1)													
N	M	D	0	0	0	3	3	3	2	1	1												

XII. Process Codes and Design Capabilities (Continued)

EXAMPLE FOR COMPLETING ITEM XII (Shown in line number X-1 below): A facility has a storage tank, which can hold 533,788 gallons.

Line Number	A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY			C. Process Total Number Of Units	For Official Use Only			
				1. Amount (Specify)		2. Unit Of Measure (Enter code)					
X 1	S	0	2	5 3 3 7 8 8		G	0 0 1				
1	D	8	1	15 0		B	001				
2	T	0	1	210,000		G	003				
3	T	0	4	360,000		U	002				
4	T	0	4	300 0		U	001				
5	S	0	1	8,000 0		G	001				
6											
7											
8											
9											
1 0											
1 1											
1 2											
1 3											

NOTE: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in Item XIII.

XIII. Other Processes (Follow instructions from Item XII for D99, S99, T04 and X99 process codes)

Line Number (Enter #s in seq w/XII)	A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY			C. Process Total Number Of Units	D. Description Of Process
				1. Amount (Specify)		2. Unit Of Measure (Enter code)		
X 1	T	0	4					In-situ Vitrification
1	T	0	4	360,000		U	002	AIR STRIPPING
2	T	0	4	300 0		U	001	
3								FILTER PRESS
4								

EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

N M D 0 0 0 3 3 3 2 1 1

XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of Item XIV-D(1).
3. Enter in the space provided on page 7, Item XIV-E, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS							
				(1) PROCESS CODES (Enter code)			(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
X 1	K 0 5 4	900	P	T	0	3	D	8	0		
X 2	D 0 0 2	400	P	T	0	3	D	8	0		
X 3	D 0 0 1	100	P	T	0	3	D	8	0		
X 4	D 0 0 2										Included With Above

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

EPA I.D. Number (Enter from page 1)										Secondary ID Number (Enter from page 1)													
N	M	D	0	0	0	3	3	3	2	1	1												

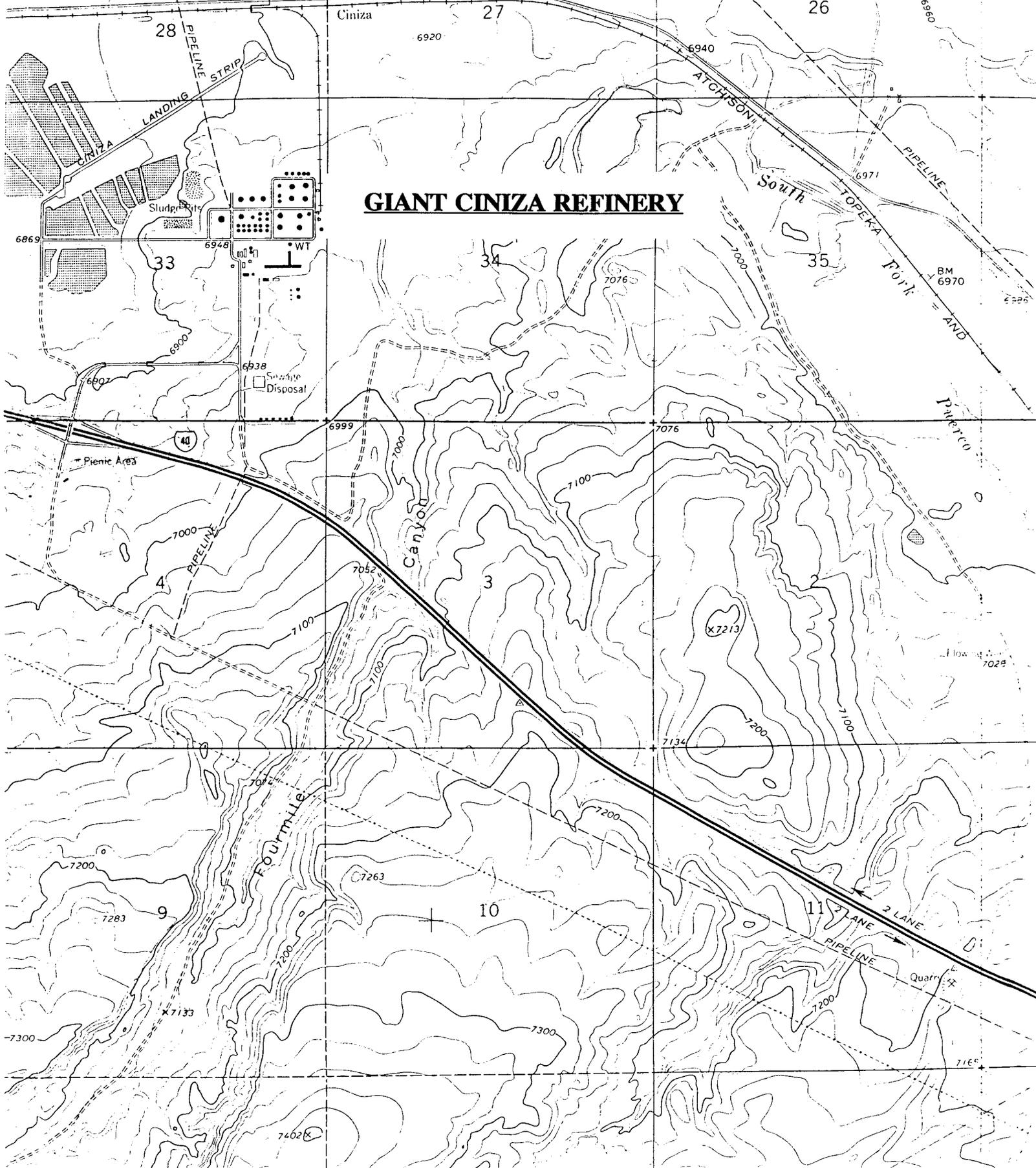
XIV. Description of Hazardous Wastes (Continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESSES										
	(1) PROCESS CODES (Enter code)						(2) PROCESS DESCRIPTION (If a code is not entered in D(1))										
1	K	0	4	9	0.4	T	T	0	4	S	0	1					FILTER PRESS
2	K	0	5	0	5.0	T	T	0	4	S	0	1					FILTER PRESS
3	K	0	5	1	250.0	T	T	0	4	S	0	1					FILTER PRESS
4	K	0	5	2	10.0	T	T	0	4	S	0	1					FILTER PRESS
5	D	0	1	8	1.1EE6	T	T	0	1	T	0	4					AIR STRIPPING
6	D	0	1	8	200.0	T	S	0	1	D	8	1					
7	D	0	0	1	1.0	T	S	0	1								
8	D	0	3	9	1.0	T	S	0	1								
9	F	0	3	7	5.0	T	T	0	4	S	0	1	D	8	1		FILTER PRESS
1 0																	
1 1																	
1 2																	
1 3																	
1 4																	
1 5																	
1 6																	
1 7																	
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3 1																	
3 2																	
3 3																	

ATTACHMENT A

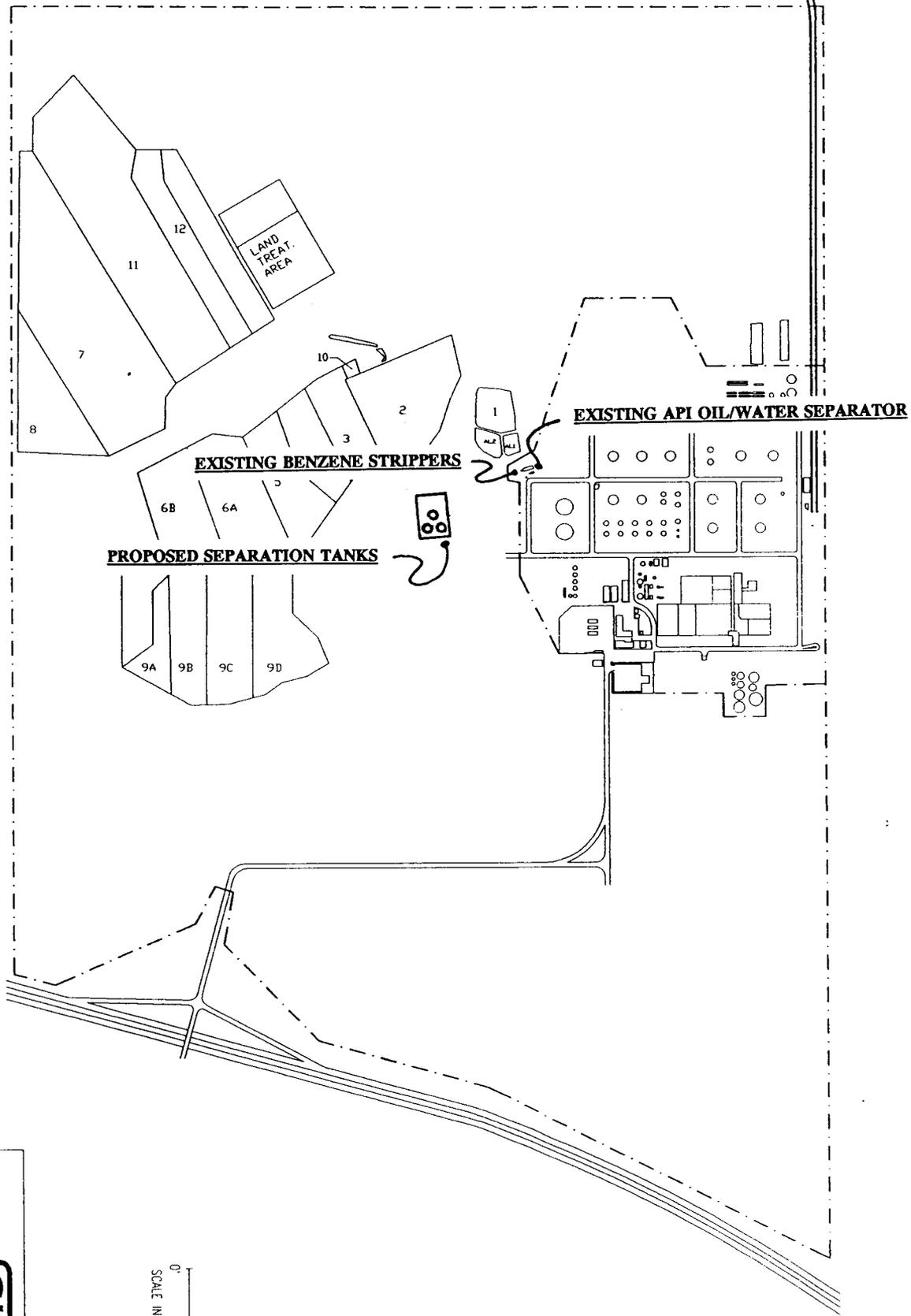
USGS Quadrangle

4355 III SW (PINEDALE) 733 734 25' R. 15 W. 735 330 000 FEET 736 737



ATTACHMENT B

Facility Plan



SIZE DWG NO.
 A |
GIRANT
 SITE PLAN

0' ——— 500'
 SCALE IN FEET

ATTACHMENT C

Aerial Photograph

