GW-24

GENERAL CORRESPONDENCE

YEAR(S):

1990=1981



UNITED STATES OIL CONSE

RE VED DIVISION

DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE BUG & AM 9 06 Ecological Services

Suite D, 3530 Pan American Highway, NE Albuquerque, New Mexico 87107

August 3, 1990

Mr. William J. Lemay, Director State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division P. O. Box 2088,

Santa Fe, New/Mexico 87504-2088

Dear Mr Lemay:

We have reviewed the Public Notice received July 24, 1990 requesting comments for the renewal of the discharge permit for the Avalon Gas Plant. The gas plant is owned and operated by Gas Company of New Mexico. The plant is located in the N/2 NW/4 SE/4, Section 9, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico.

According to the Public Notice approximately 1,000 gallons per day of process wastewater is disposed of in an Oil Conservation Division approved offsite disposal facility. The U.S. Fish and Wildlife Service recommends that, if the disposal facility is not currently screened or covered, it be screened to exclude migratory birds from gaining access to the wastewater.

If you have any questions, please call Richard Roy at (505) 883-7877.

Sincerely yours,

John C. Peterson Field Supervisor

cc:

Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife Enhancement, Albuquerque, New Mexico

Affidavit of Publication

No.	13216

STATE OF NEW MEXIC	0,	
County of Eddy:		,
Gary D. Scott		being duly
sworn, says: That he is th	nePublisher	of The
Artesia Daily Press, a d	laily newspaper of ge	neral circulation,
published in English at A	Artesia, said county an	d state, and that
the hereto attachedI	Legal Notice	
was published in a regul	lar and entire issue of	the said Artesia
Daily Press, a daily new	vspaper duly qualified	for that purpose
within the meaning of C		
	•	days
the state of New Mexico f	for 1 cons	
the same day as follows:		
First Publication	July 26, 1990	
Second Publication		
Third Publication		
Fourth Publication	1	A
4		//
. \		
- Xan	2 DO	Ill .
Subscribed and sworn	to before me this	30th day
of July		19 ⁹⁰
Backs	Bo	a ma
1	Notary Public, Eddy Co	unty, New Mexico
My Commission expires_	September 23, 1	.991

If no public hearing is held, the Director will approve of disapprove the proposed plan based on information available. If a public hearing is held, if a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 20th day of July, 1990. To be published on or STATE OF NEW MEXICO OIL CONSERVATION DIVISION STATE OF NEW MEXICO OIL CONSERVATION DIVISION S-William J. LeMay WILLIAM J. LEMAY DIRECTOR Published in the Artesia Daily Press, Artesia, N.M. July 26

LEGAL NOTICE

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan renewal application has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-24) - Gas Company of New Mexico, Robert Bogan, Plant Foreman, 311 Moore Drive, Carlsbad, New Mexico, 88220, has submitted an application for renewal of its previously approved discharge plan for its Avalon Plant located in the N/2 NW/4 SE/4, Section 9, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico. Approximately 1000 gallons per day of process wastewater is disposed of in an OCD approved offsite disposal facility. The wastewater has a total dissolved solids concentration of approximately 2600 mg/l. Ground water most likely to be affected by any discharge to the surface is at a depth of approximately 80 feet with a total disssolved solids concentration of approximately 1100 mg/l. The discharge plan addresses how spills, leaks and other discharges to the ground

will be managed. Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if

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NOTICE OF PUBLICATION STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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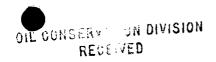
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Director will approve or disapprove the proposed plan based on information available. If a public hearing is beld, the Director approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

tion submitted at the hearing.
GIVEN under the Seal of New
Mexico Oil Conservation Commission
at Santa Fe, New Mexico, on this 20th
day of July, 1990.
STATE OF NEW MEXICO

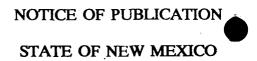
OIL CONSERVATION DIVISION s/William LeMay Director Journal, July 28, 1990 STATE OF NEW MEXICO County of Bernalillo



90 AUG 2 AM 8 56

Thomas J. Smithson, being duly sworn declares and says that he is National Advertising manager of the Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chaper 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, a copy of which is hereto attached, was published in said paper in the regular daily edition,

for LNL () of XULI publications on	times, the first publication being on the day day
AL SEAL OUTS	Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 30 day of 1990. PRICE #21.99
C-12 MEXICO 2-/3.93 EDJ-15 (R-12/89)	Statement to come at end of month. ACCOUNT NUMBER 681184



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 20th day of July, 1990. To be published on or before July 27, 1990.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

RECEIVED

JUN 15 1990 OIL CONSERVATION DIV. SANTA FE

GAS COMPANY OF NEW MEXICO

AVALON PLANT

WASTE WATER DISCHARGE PLAN

Submitted to:
New Mexico Oil Conservation Division
Santa Fe, New Mexico

Submitted by:

Robert (Bob) Bogan, Plant Foreman

Gas Company of New Mexico

Avalon Plant, Permian District

311 Moore Drive

Carlsbad, New Mexico 88220

May, 1990

CONTENTS

I.	Introduction	2
II.	General Information	3-4
III.	Proposed Site Modifications	5-17
IV.	Appendix	
	Plot Plan (2 prints)	

I. INTRODUCTION

This is an application for renewal of the Avalon Plant Waste Water Discharge Plan GW-24, filed September 28, 1984. Please refer to that plan for plant process, description, methods of effluent disposal, and site characteristics.

This application will address site modifications as discussed with Roger Anderson, O.C.D., Santa, N.M., during his visit to Avalon Plant in March, 1990.

DISCHARGE PLAN APPLICATION FOR NATURAL GAS PLANTS

II. GENERAL INFORMATION

A. Name of Discharger

Gas Company of New Mexico Avalon Plant 311 Moore Drive Carlsbad, New Mexico 88220 505/885-8082

B. Local Representative

Robert (Bob) Bogan 311 Moore Drive Carlsbad, New Mexico 88220 505/885-6110

C. Location of Discharge

The Avalon Plant is located approximately five and one half (5.5) miles north, northeast of Carlsbad, Eddy County, New Mexico. The plant has the following legal description:

The north one-half of the northwest one quarter of the southeast one-quarter (N/2, NW/4, SE/4) of Section 9, Township 21 south, Range 27 East, N.M.P., consisting of approximately 20 acres, more or less.

D. Type of Natural Gas Operation

The Avalon Plant utilizes a refrigerated lean oil absorption process to remove hydrocarbons (ethanes, propanes, butanes, pentanes and hexanes) from natural gas. Plant design capacity is 30 MMCFD.

E. Affirmation

"I hereby certify that I am familiar with the information contained in and submitted with this application and that such information is true, accurate, and complete to the best of my knowledge and belief."

Robert Bogan Plant Foreman

Robert Bogns 6/6/90

Signature

Date

III. PROPOSED SITE MODIFICATIONS

Three areas of concern were identified during the visit by Mr. Anderson: lack of adequate berms around some of the plant storage facilities, improper handling of casual spills and small leaks around certain process and storage areas, and lack of an area to keep used filter cartridges. To address these problems, GCNM proposes to make modifications as described below.

Proposed modification locations are shown on the enclosed plot plan. The projects and their corresponding letter headings are as follows:

		Page						
Α.	Waste Oil Storage Berm Construction	7						
В.	Condensate Storage (Upright 210 Barrel Tank)	10						
C.	Condensate Storage (Horizontal Tank)	13						
D.	Cooling Tower Blow down Tanks (2)	11						
E.	Caustic Storage Pad							
F.	Glycol Dehydration Pad							
G.	Lean Oil Storage (Horizontal Tank)	15						
Н.	Lean Oil Storage (Vertical Tank)	16						
I.	Proposed Filter Disposal Area	17						

Projects A,C,F,G and I, if approved, will be submitted for completion by the end of 1991. Projects E and H will be submitted for completion by the end of 1992, upon completion of design work. The following pages detail each project.

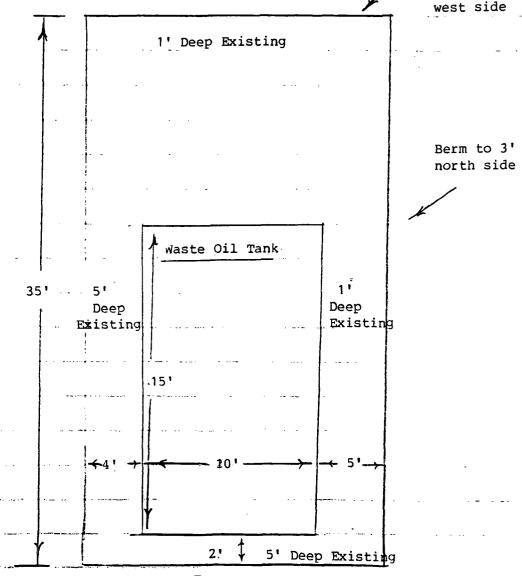
Projects A,C,D, and E address the lack of berms in certain areas of the plant. GCNM proposes to berm the waste oil storage and the caustic storage areas. The condensate overflow and the cooling tower blow down tanks, while not bermed, are considered to be intrinsically safe for the reasons cited below.

Project A: Waste Oil Storage Tank Berm Construction

This is an existing 210 barrel tank 10 feet diameter by 15 feet long mounted horizontally on a skid. This tank holds crankcase oil from the compressor building. It is located in a depression that is 5 feet high on the south side, 5 feet high on the cast side, 1 foot high on the north side, and 1 foot high on the west side.

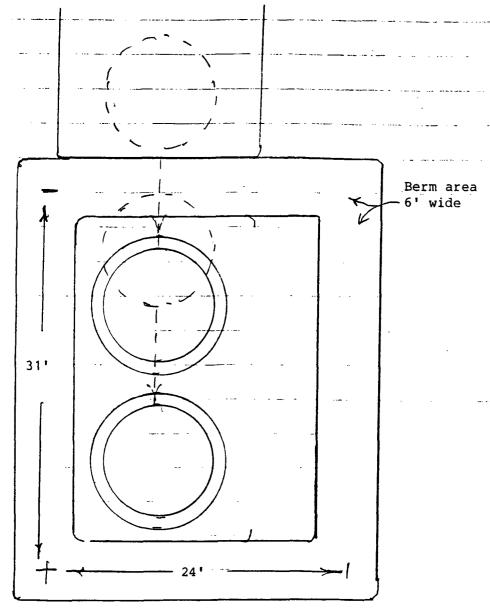
GCNM proposes to build a 3 foot berm on the north and west side of the tank to allow for adequate holding volume in case of tank rupture.

Berm to 3'



Project E: Caustic Storage Tanks

These are 2-210 barrel tanks, upright, 15 foot high and 10 feet in diameter. The east tank holds 50% liquid sodium hydroxide in water. The west tank holds spent caustic that is hauled to a licensed disposal well. GCNM proposed to move both of these tanks some 8 feet west and build a berm 3 feet high by 24 feet by 31 feet center to center. The tanks will set on 11 foot diameter gravel rings within this area.



GCNM proposes exempting three existing vertical storage tanks from berming requirements. These tanks are:

- 1. Condensate overflow tank this tank is a 210 barrel vertical tank, 15' high by 10' diameter on a gravel pad with a foundation ring, item B on the plot plan. The tank is an overflow for the existing condensate storage tank, which catches drip associated with pipeline pigging operations. The drip is hauled away within a week after each pigging operation ceases, leaving the tank normally empty.
- 2. Cooling tower blow down tanks there are two of these tanks (items D on the enclosed plot plant) each the same size as the above-described overflow tank and resting on the same type of foundation. The tanks contain water blown down from the plant cooling tower. No chromate compounds are used in tower water treating. An analysis of the water was included in the Plan GW-44, and is attached here for reference.

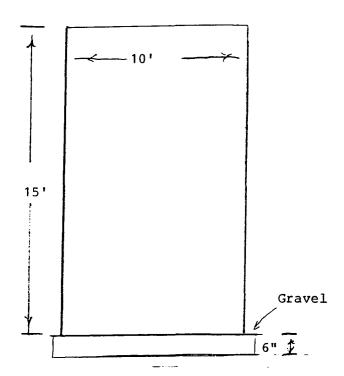
GCNM proposes exempting the cooling tower blow down tanks from berming requirements because the tanks contain only blow down chromate-free water.

GCNM recognizes that should circumstances alter the uses of the tanks in question, berming would have to be considered for the new uses.

Project B: Condensate Overflow Tank

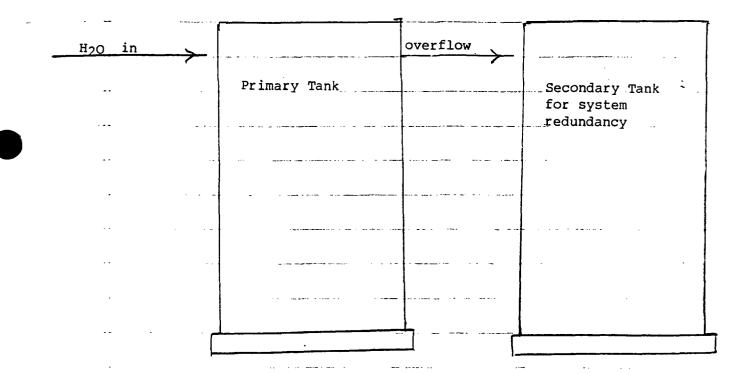
This is a vertical 210 barrel tank, 15 feet high and 10 feet in diameter on a 6 inch thick gravel bed with 11 foot diameter steel foundation ring.

This is an over fill condensate storage tank to ensure redundancy for storage tank C. This tank was cleaned prior to installation and has never been used. Would like to apply for exception to berming as this tank will be emptied within 1 week of any pipeline condensate is contained.



Project D: Cooling Tower Blow Down Tanks

These are 2-210 barrel upright tanks 15 foot high by 10 foot diameter setting on gravel enclosed rings - propose to exempt these tanks from berming as no chromate is used in water treating - analysis of contents was included in the 1984 discharge plant GW-24.



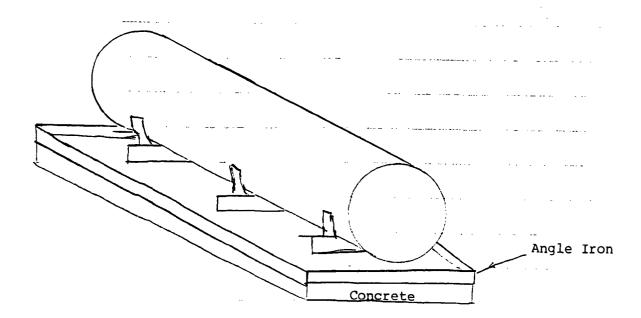
CASUAL SPILL AND DRIP CONTROL PROJECTS

Projects C,F,G, and H are proposed by GCNM to control casual spills and leaks occurring in the condensate, lean oil, and glycol dehydration areas shown on the plot plant. The areas in question are to be modified by addition of a 2" angle iron catch barrier around the perimeters of the respective areas. The barrier will be laid down over an impermeable sealant and bolted down to new or existing foundations at 5' intervals. An additional sealant bead will be applied to the interior seam between the barrier and the concrete.

Project C: Condensate Storage Modifications

This tank is an 11,000 gallon tank, 7 feet in diameter by 39 feet setting horizontal on supports.

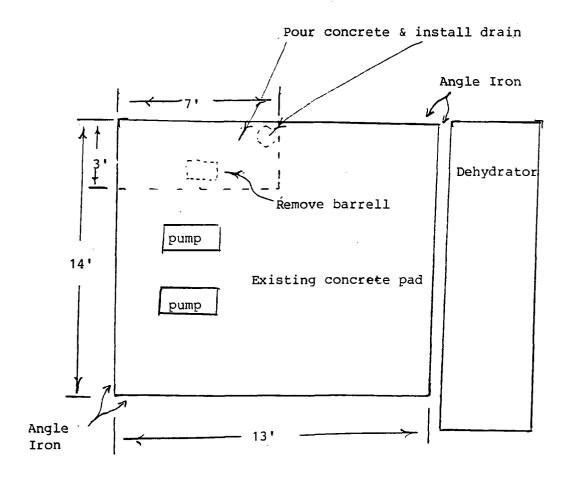
Propose to build a 10 foot by 40 foot concrete pad with 2 inch angle iron around the outer perimeter. A sealant will be applied before bolting the angle iron down at 5' intervals and then a 1/4 inch bead of sealant will be applied to the inside edge of the angle iron - pad will be 6 inches deed with expansion joints every 10 feet. 6x6x10 welded wire will be used for strength - 3000 lb concrete air-entrained 1-A.



Project F: Glycol Dehydration Pad

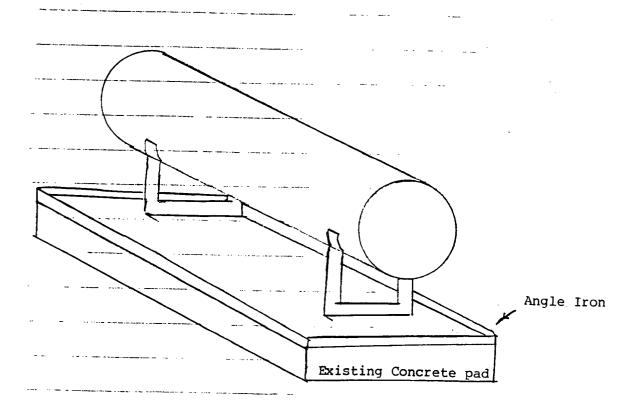
Propose to remove a leak containment barrel and cover that area with concrete. The entire pump area will be contained with a 2" angle iron ring with a drain installed in a low point at the west end of contained area - drain will be tied into existing drainage system from the dehydrator.

Angle iron will be bolted down every 5 feet with a silicon seal underneath and a 1/4 inch bead of silicon applied to inside cage.



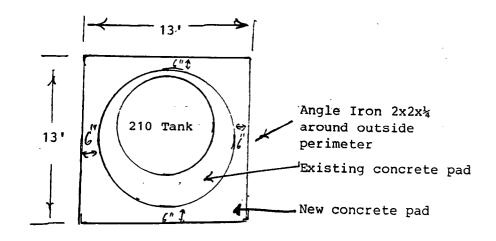
Project G: Lean Oil Storage (Horizontal)

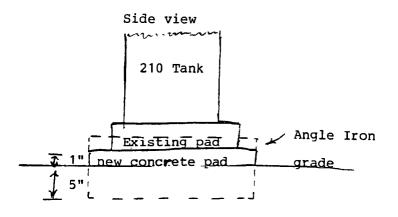
This is a 11,000 gallon tank, 7 feet in diameter by 39 feet setting horizontal on supports with a 10 foot by 40 foot concrete pad underneath. Propose to install 2 inch angle iron around the outer perimeter in the same manner as previously described.



Project H: Lean Oil Storage (Vertical Tank)

This is a supplemental lean oil storage tank. It is a 210 barrel tank 15 feet high by 10 feet in diameter. It is setting on a round concrete pad that is 12 feet in diameter and 10 inches above grade. Propose to pour a square pad around the existing pad. The new pad will be 5 inches deep with 1 inch above grade. Angle iron will encompass the outer perimeter in the same manner as has been aforementioned. The interface between the new concrete pad and the old concrete pad will be sealed with silicon rubber.





Project I: Filter Storage Area

Propose to fence a 60 foot square area at the south east corner of plant yard. A pit some 50 feet long by 10 feet wide by 6 feet deep will be excavated to storage filters after they have been drained of process liquids. The fenced area will have a access gate on the north end. The other space provided will be used for expansion if needed, and storage of cooling tower bottom debris. This area is located at a high grade in the plant yard and will not be subject to rain water run off.

control of the state of the sta

Project I: Filter Storage Area

Propose to fence a 60 foot square area at the southeast corner of plant yard. A pit some 50 feet long by 10 feet wide by 6 feet deep will be excavated to storage filters after they have been drained of process liquids. The fenced area will have an access gate on the north end. The other space provided will be used for expansion if needed, and storage of cooling tower bottom debris. This area is located at a high grade in the plant yard and will not be subject to rain water run off.

An analysis of cooling tower bottom is located in the appendix.

IN STATE 505/982

99

OUT OF STATE 800/545-2188 • FAX - 505-982-Intion, Inc.

Gas Company of New Mexico Carlsbad, NM 88220 311 Moore Drive

Attn: Bob Bogan

Water Guality Work ID: P O # :

L-594-3387

04/16/90 Date Received:

06/01/90 90-04-271 Date Reported: Work Order:

Category:

Certified By:

IN STATE 505/982

lution, Inc.

OUT OF STATE 800/545.2188 • FAX - 505.982

Page 2 Received: 04/16/90

CEP, Inc. Results by Sample

REPORT

Work Order # 90-04-271

SAMPLE ID Coolant Tower Slop

FRACTION O1A TEST CODE TCLP NA Date & Time Collected not specified

NAME ICLP Metals
ad Category SOLID

TCLP Metals

RESULT

Aresnic

Barium

0.02

о Э

0.05

Chromium

Cadmium

0.016

0.03

<0.0004

0.14

Selenium

Silver

Mercury

Lead

<0.01

All results reported in:

UNITS

IN STATE 505/982

OUT OF STATE 800/545.2188 • FAX. 505.982.5 lution, Inc.

Work Order # 90-04-271

SAMPLE ID Coolant Tower Slop Page 3 Received: 04/16/90

REPORT CEP, Inc. Results by Sample

FRACTION OIA TEST CODE TCLP O NAME TCLP Organics
Date & Time Collected not specified Category SOLID

REG LEVEL RESULT

0.050 <0.006 Bis(2-chloroethyl)ether

\$0.01

O-cresol

M-cresol

P-cresol

<0.01

<u><0.0</u>

3.6 <0.004

<0.002

2, 3, 4, 6-Tetrachlorophenol

Pentachlorophenol

Phenol

<0.002

5.0 <0.005

0.30 <u><0.003</u>

2, 4, 6-Trichlorophenol

2,4-Dinitrotoluene

Hexachlorobenzene

2, 4, 5-Trichlorophenol

<0.006

0.13 <0.002

0.72 <0.001 001

Hexachlorobutadiene

Hexachloroethane

Nitrobenzene

4.3 <0.002

0.13 <0.002 Our reports are rendered upon the condition that they are not to be reproduced wholly or in part for advertising and/or other purposes over our signature or in connection with our name without special permission in winting.

Jution, Inc.



Page 4 Received: 04/16/90

REPORT CEP, Inc. Results by Sample

Work Order # 90-04-271 Continued From Above

SAMPLE ID Coolant Tower Slop

FRACTION <u>01A</u> TEST CODE TCLP O NAME TCLP Organics Date & Time Collected not specified Category <u>SOLID</u>

0.030 0.003 <0.001 <0.001

Chlordane

Endrin

0.001 <0.001

0.060 <0.001

<0.001

Methoxychlor

Toxaphene

Heptachlor

Lindane

0.070 <0.002

1.4 \$0.01

<0.001

4.3 <0.002

1,2-Dichlorobenzene

Silvex

2, 4-D

1, 4-Dichlorobenzene

<0.00

Notes and Definitions for this Report:

UNITS



Page Received:

CEP, Inc. Results by Sample

90-04-271 Work Order #

SAMPLE ID Coolant Tower Slop

FRACTION 01A TEST CODE ZHE NAME Zero Head Space Extraction Date & Time Collected not specified Category SOLID

EL								-						
REG LEVEL	D.	0.07	14	0.07	1.4	0.07	0.40	0. 10	36	8.6	7.2	5.0	10	T 3
RESULT	<10.0	<4. 4	<10.0	<2.8	<6.0	1.7	<2. B	<2. B	<10.0	<2. 8	<10.0	<10.0	<10.0	<6.9
	Acrlonitrile	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroform	1,2-Dichloroethane	1,1-Dichloroethylene	Isobutanol	Methylene Chloride	Methylethyl Ketone	Pyridine	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane

IN STATE 505/982 OUT OF STATE 800/545-2188 • FAX - 505-982-

Page 6 Received: 04/16/90

REPORT CEP, Inc. Results by Sample

Work Order # 90-04-271 Continued From Above

SAMPLE ID Coolant Tower Slop

NAME Zero Head Space Extraction ed Category SOLID FRACTION <u>OIA</u> TEST CODE ZHE NA Date & Time Collected not specified

<4.1 Tetrachloroethylene

33.3

<3.8

1, 1, 1-Trichloroethane

Toluene

1, 1, 2-Trichloroethane

Trichloroethylene

Vinyl Chloride

9

<5.0

0.07 ₹ 1.9

0.05 <10.0 Notes and Definitions for this Report:

UNITS



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

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

March 7, 1990

CERTIFIED MAIL RETURN RECEIPT NO. P-918-402-194

Gas Company of New Mexico Permian District 311 Moore Drive Carlsbad, New Mexico 88220

RE:

Discharge Plan GW-24

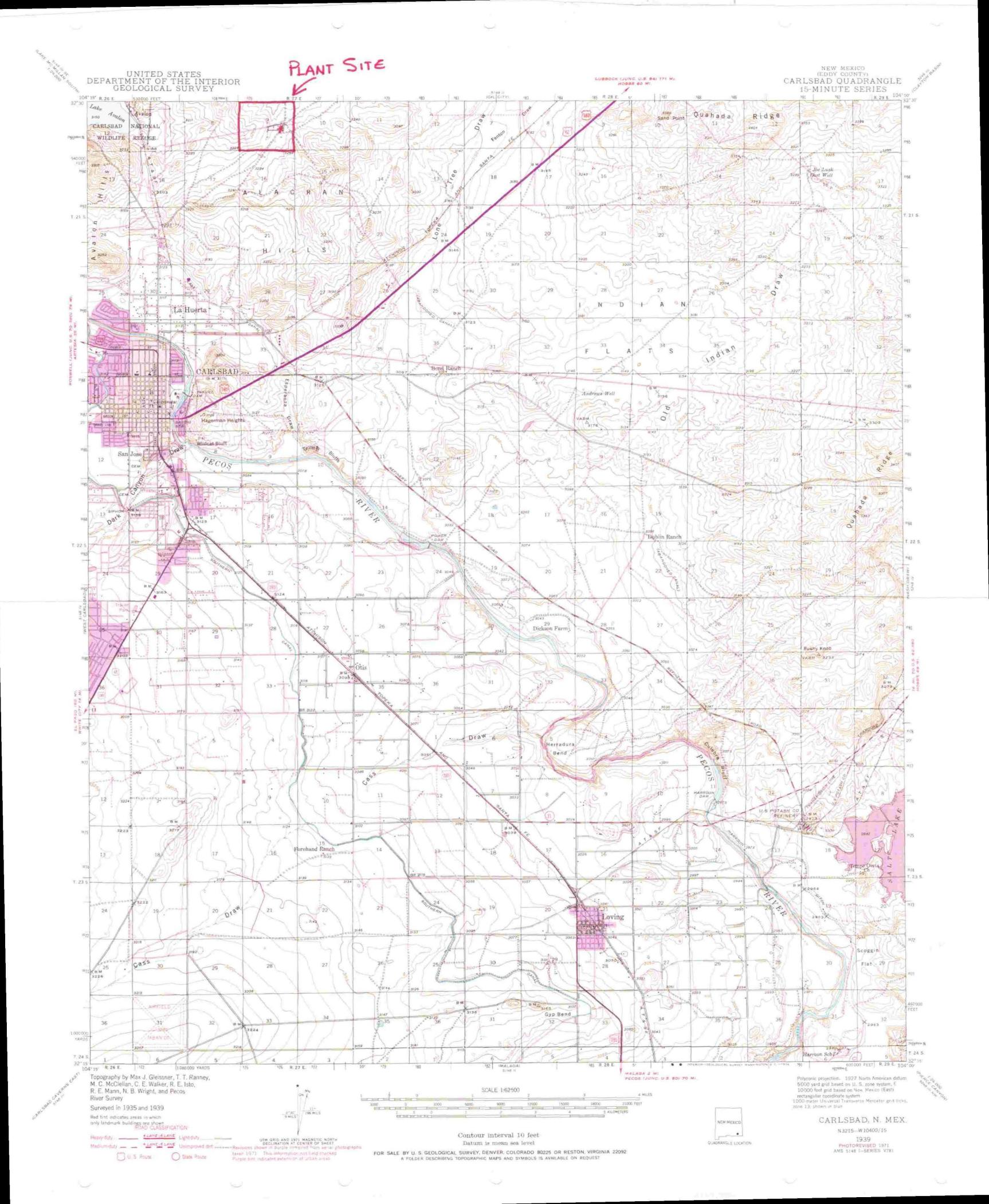
Avalon Gas Processing Plant Eddy County, New Mexico

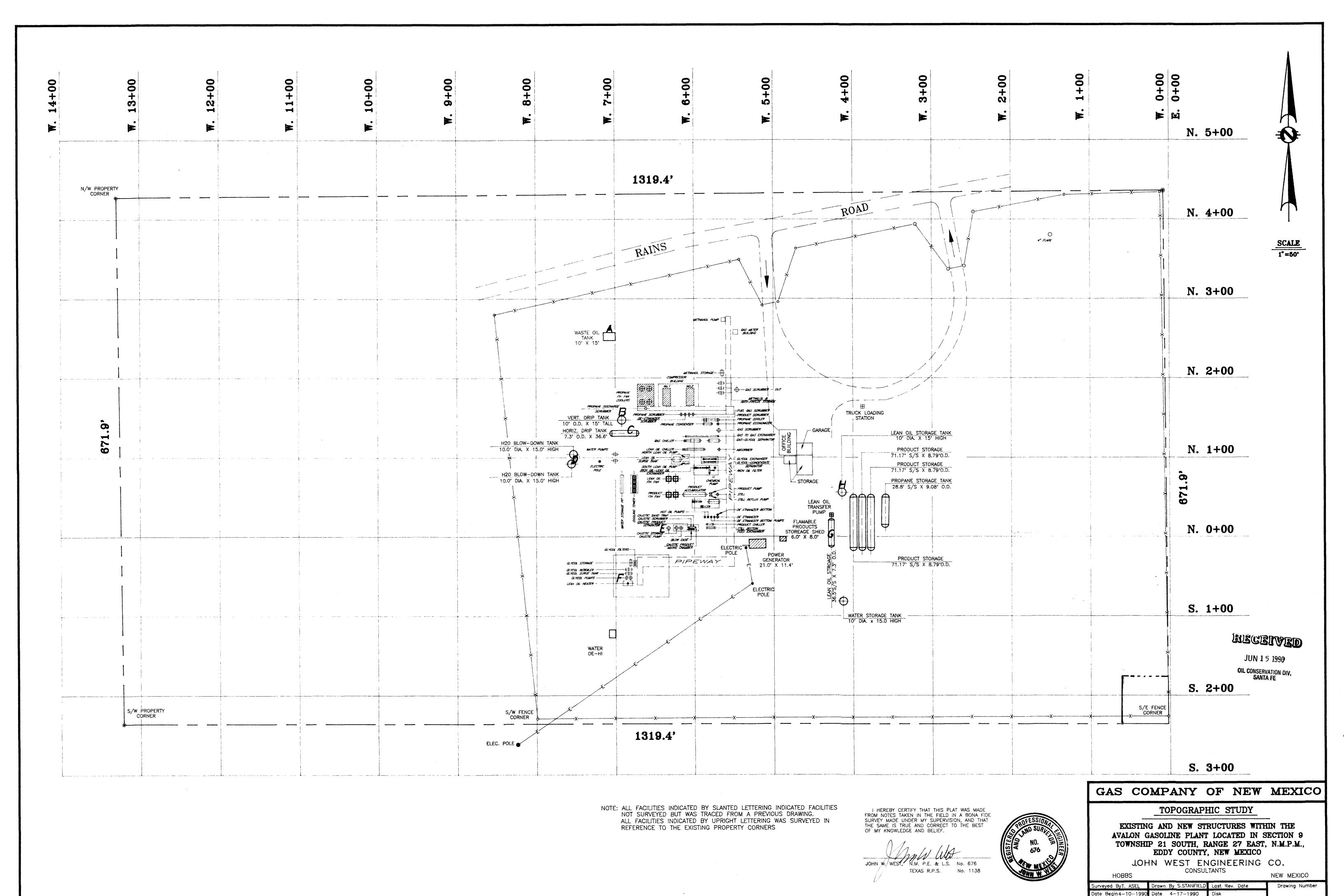
Dear Sir:

On September 18, 1985, the ground water discharge plan GW-24 for the Gas Company of New Mexico Avalon Gas Processing Plant located in Section 9, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on September 18, 1990.

If your facility continues to have effluent or leachate discharges and you wish to continue discharging, please submit your application for renewal of plan approval as quickly as possible. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can often extend for several months. Please indicate whether you made, or intend to make, any changes in your discharge system, and if so, include an application for plan amendment with your application for renewal. To assist you in preparation of your renewal application, I have enclosed a copy of the OCD's guidelines for preparation of ground water discharge plans at natural gas processing plants. These guidelines are presently being revised to include berming of tanks, curbing and paving of process areas susceptible to leaks or spills and the disposition of any solid wastes. Please include these items in your renewal application.

If you no longer have such discharges and discharge plan renewal is not needed, please notify this office.



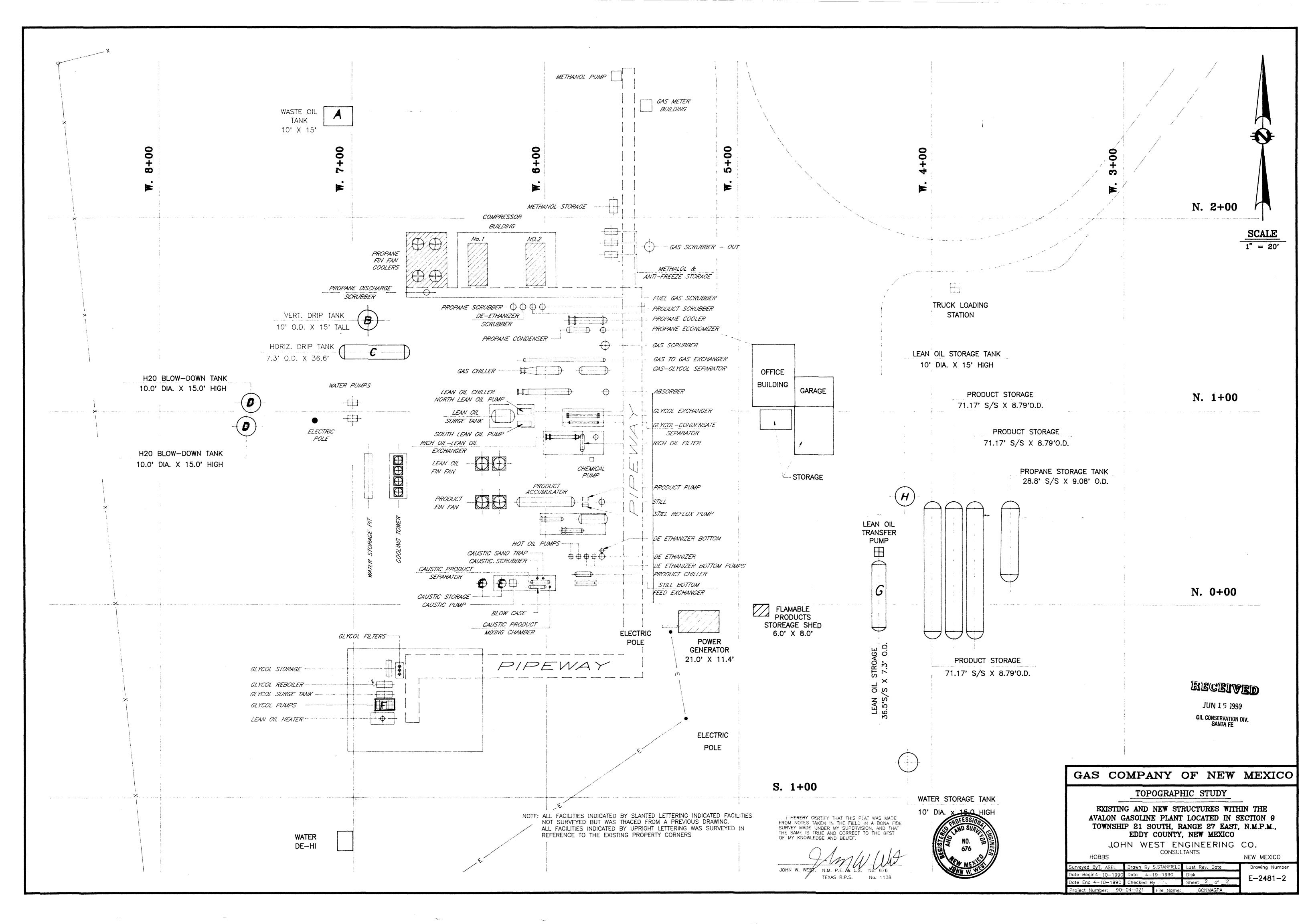


E-2481-2

GCNMAGP

Date End 4-10-1990 | Checked By 💪

Project Number: 90-04-021 File Name:



Mr. Grand Bart Mich

Same of WATER SAMPLE ANALYSIS HAVE NOT BEEN RECEIVED

THE THE THE THIS APPLICATION WAS MAILED. YOU

SHOULD EXPECT THE ANALYSIS BY OCTOBER 12,

The 1984: They will be mailed Asusoon as they are

RECEIVED BY GAS COMPANY OF NEW MEXICO.

ইবিজ্ঞা সংগ্ৰহণ কৰিছে। তাৰী বাজেঞ্চল তাৰ প্ৰভাৱত কৰিছে কৰিছে বিজ্ঞানিক বিজ্ঞান বিজ্ঞান কৰিছে বিজ্ঞানিক হৈছে । তুলি বিজ্ঞানিক হৈছে ই

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The Comment

CONTROLS FOR ENVIRONMENTAL POLLUTION, INC.

SAMPLING INSTRUCTIONS FOR

GAS COMPANY OF NEW MEXICO (GCNM)

The following samples from each sampling point (with appropriate preservatives) are needed to properly analyze for Section. 3-103, A B and C (WQCC-81-2) as per telephone conversation with John Jones of (GCNM) on September 11, 1984.

Sample Container

1 gallon plastic cubitainer Sampling Sit

1 gallon plastic cubitainer Sampling Site

- 1, 4 oz. plastic bottle Sampling Site
- 2, 32 oz. glass bottle Sampling Site

Preservative

10 mls nitric acid (nitric acid

No Preservative

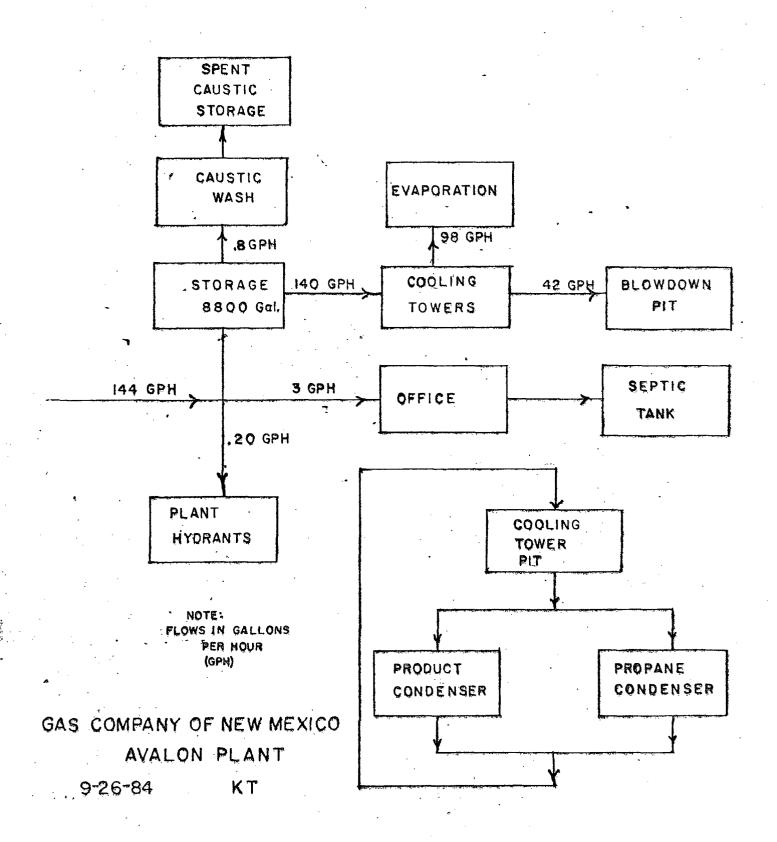
1 ml sulfuric acid (H_2SO_A)

Add to each bottle, 1 ml sulfuric acid and 1 gram cupric sulfate

* Place all samples in an ice chest and keep at 40C

Please label all bottles with sample I.D. + preservative (if any) used.

WATER FLOW SCHEMATIC FIGURE A



Unichem International, Inc. P. O. Box 1149
Hobbs, New Mexico 88240

General information:

Springs Unit Salt Water Disposal Well

Location:

Unit Letter I, 1650' from the South line and 754' from the east line; Section 27, Township 20 South, Range 26 East.

Bone Springs Formation

Elevation 3221' GL

Converted plugged and abandoned well to Salt Water Disposal Service as authorized by New Mexico Oil Conservation Commission Order No. SWD-86

Proceedure:

Drill out cement plugs, cut off 13 3/8 & 8 5/8 casing. Insert casing nipple and 8 5/8 head. Drilled out to 4580', ran tubing to bottom. Ran Guiberson type AF tension packer on 85 joints of 2 3/8 OD EUE 8rt 4.70# J-55 tubing with PA-600 plastic coating. Bottom of packer set at 2661'. Completed conversion 12-12-68.

Adminstratine 30 states of an Rote Resis

- (4) That the State Engineer has designated, pursuent to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foresecable beneficial use that would be impaired by contamination.
- (5) That the applicant, Unichem International, Inc., seeks as an exception to the provisions to the aforesaid Order (3) to permit the commercial disposal of produced brine into several unlined surface pits (natural salt lakes) located in Section 2, Township 23 South, Range 29 East, EMPM, Eddy County, New Moxico.
- (6) That the applicant proposes to dispose of up to 2000 barrels of salt water daily at company facilities located in the NW/4 of said Section 2, such salt water being hauled by Unichem or Unichem subsidiary trucks only.
- (7) That there appears to be no shallow fresh water in the vicinity of the subject pits for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination from the subject pits.
- (8) That the area of the salt lakes is sufficient to provide for evaporation in excess of the volume of salt water proposed for disposal (up to 2000 barrels of water per day).
- (9) That the disposal facility should consist of skim tanks, surge tanks, aeration tanks, skim oil storage tanks and a header pit all being of sufficient size and capacity to prevent the movement of any oil or solids onto or into any of the salt lakes affected by such disposal.
- (10) That if the applicant fails to prevent the movement of such oils or solids onto or into any of said salt lakes, the Director of the Division should be empowered to administratively suspend or rescind the authority for use of such lake for salt water disposal.
 - (11) That this application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Unichem International, Inc., is hereby granted an exception to Order (3) of Division Order No. R-3221, as amended, to dispose of up to 2000 barrels of salt water per day collected by its or its subsidiaries' trucks

in a commercial salt water disposal facility located in the RW/4 of Section 2, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico.

- (2) That prior to disposal of any water at said facility, the applicant shall install skim tanks, surge tanks, agration tanks, and skim oil storage tanks and shall construct a header pit all of combined size and capacity sufficient to prevent the movement of any oil or solids from the facility onto or into any natural salt lake or ground surface which may be affected by the disposal operation.
- (3) That upon completion of such installation and construction the applicant shall notify the supervisor of the Division's district office at Artesia in order that the Division may inspect said facility.
- (4) That the Director of the Division may by administrative order suspend or rescind such authority whenever it reasonably appears to the Director that such suspension or rescission would serve to protect fresh water supplies from contamination or if the applicant should permit the movement of oil or solids onto the ground surface or any natural salt lake as prohibited by Order No. (2) above.
- (5) The applicant shall file a monthly report of disposal volumes on Form C-120-A in accordance with Division Rule 1120.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

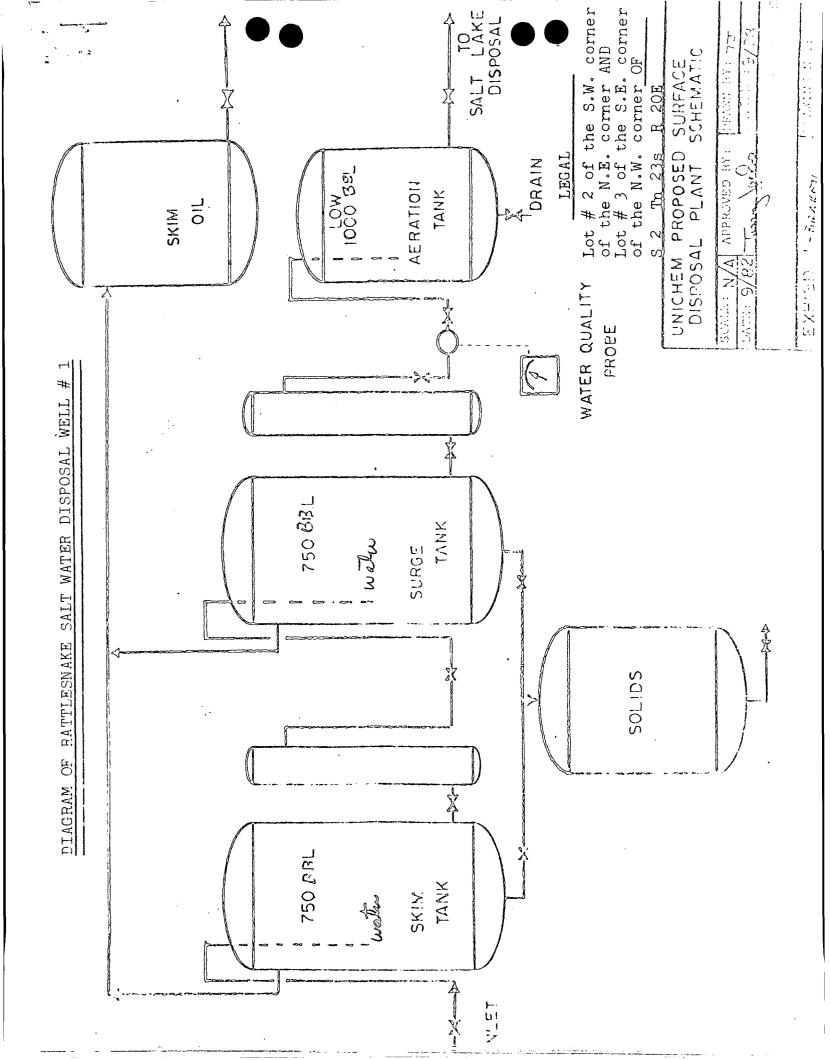
STATE OF NEW MEXICO

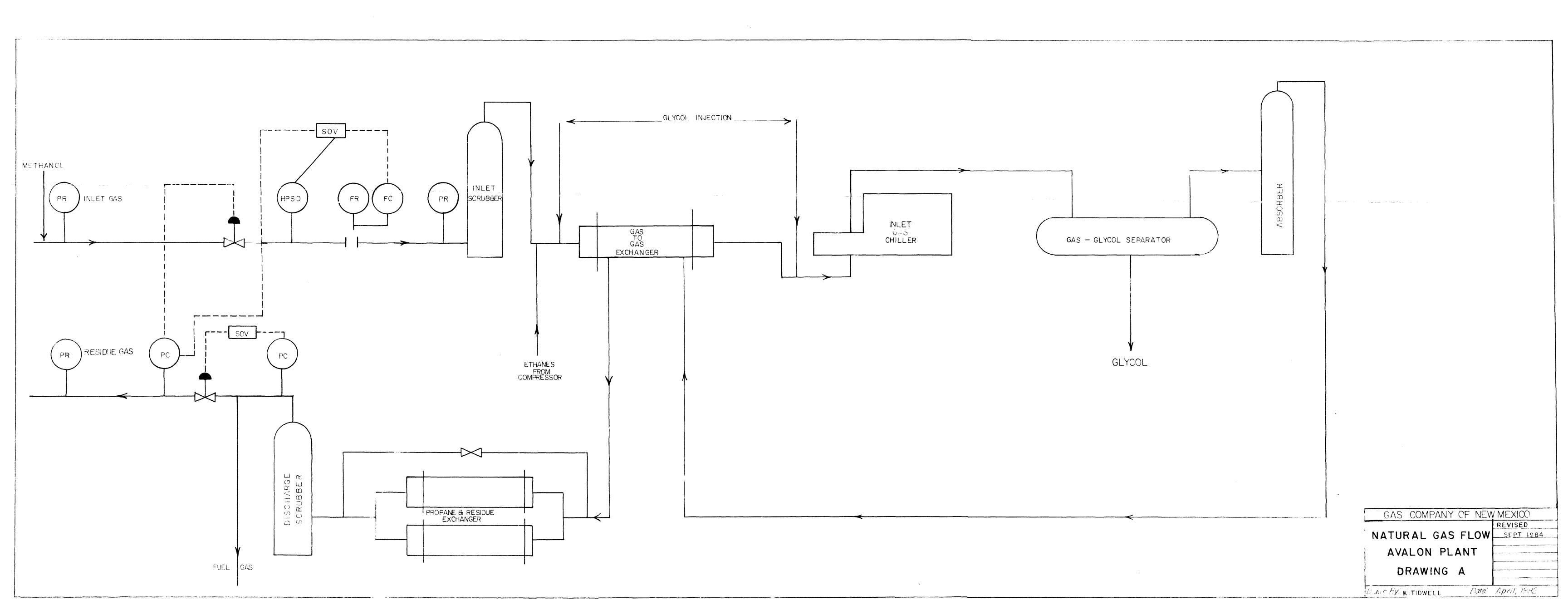
ONL CONSERVATION DIVISION

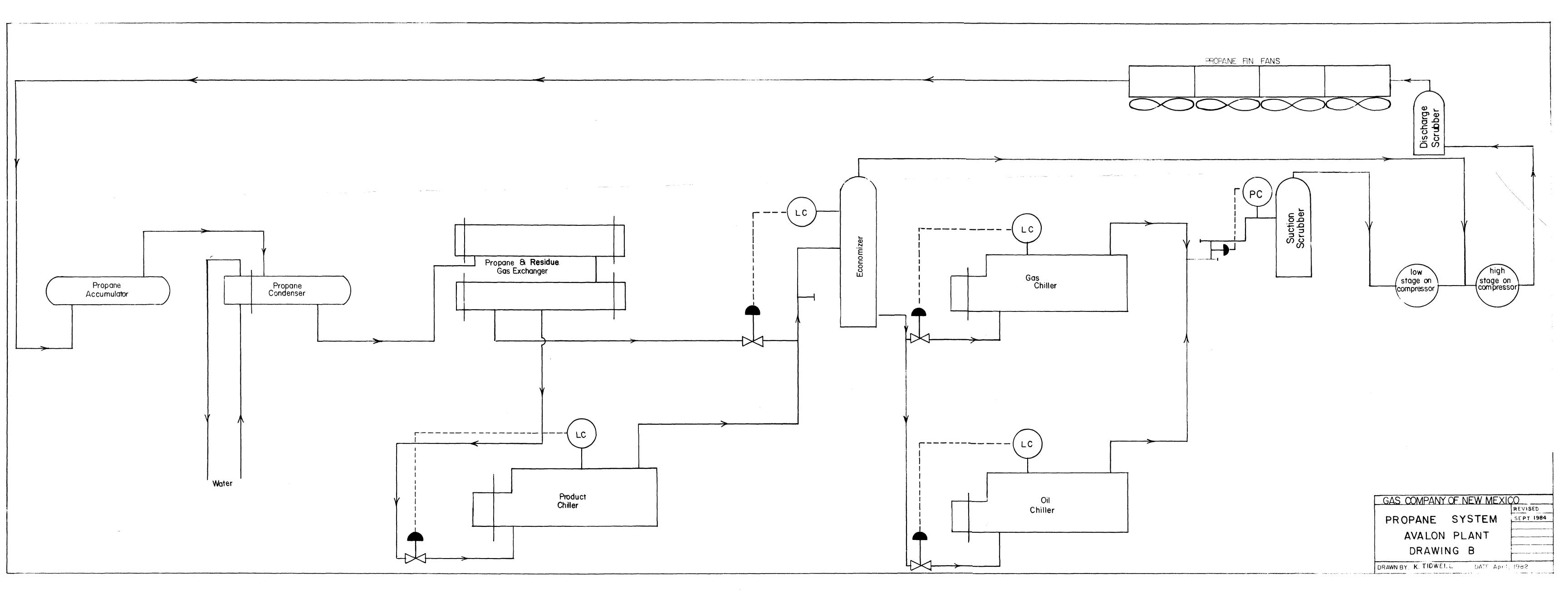
JOE D. RAMEY

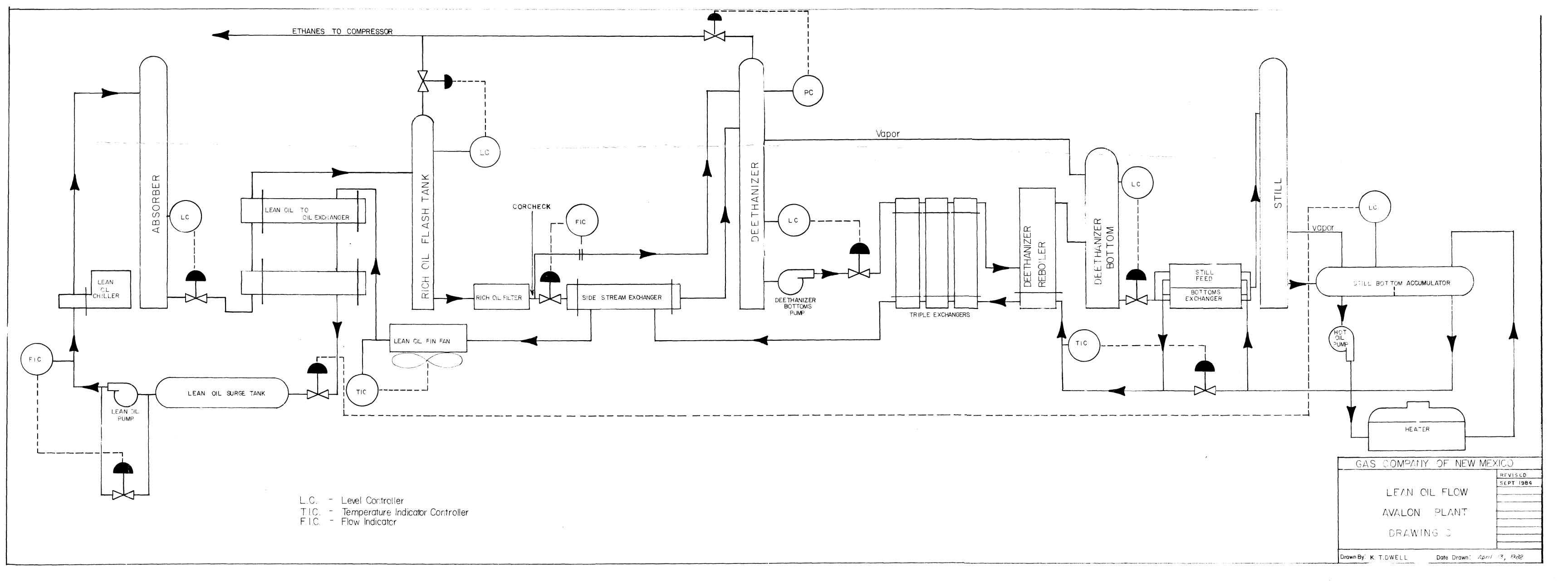
Director

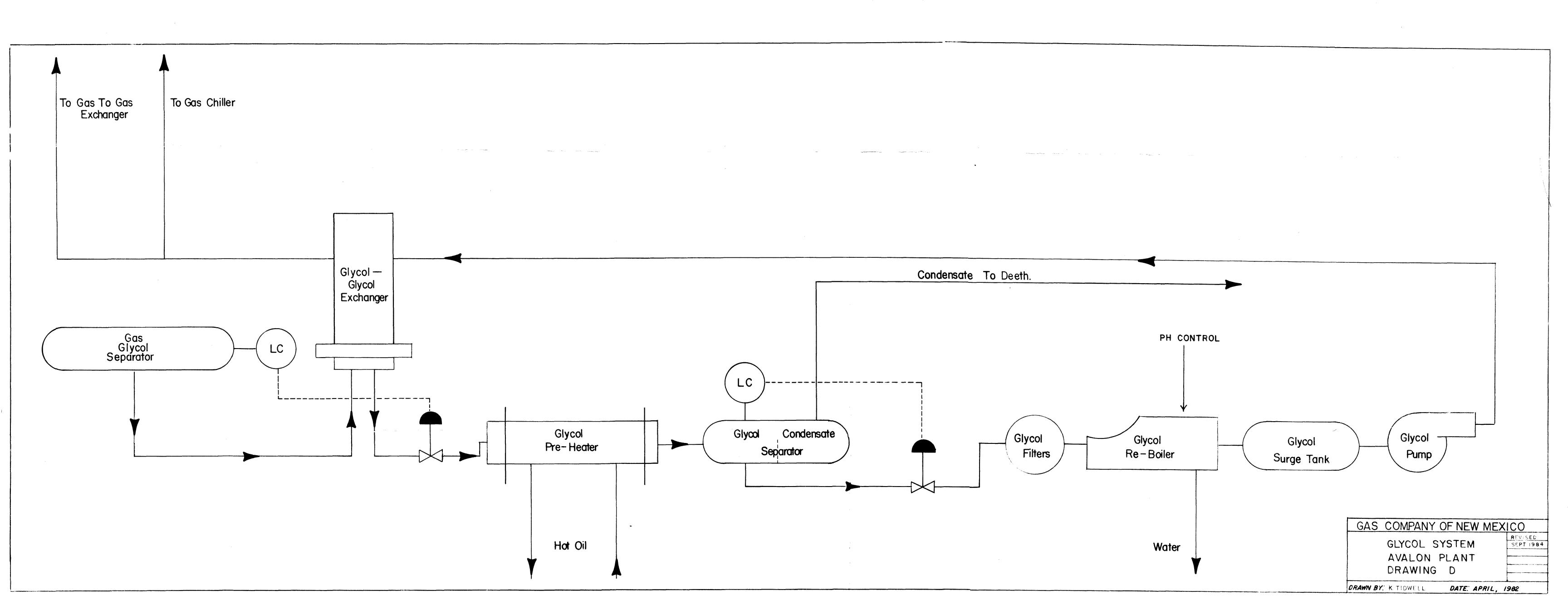
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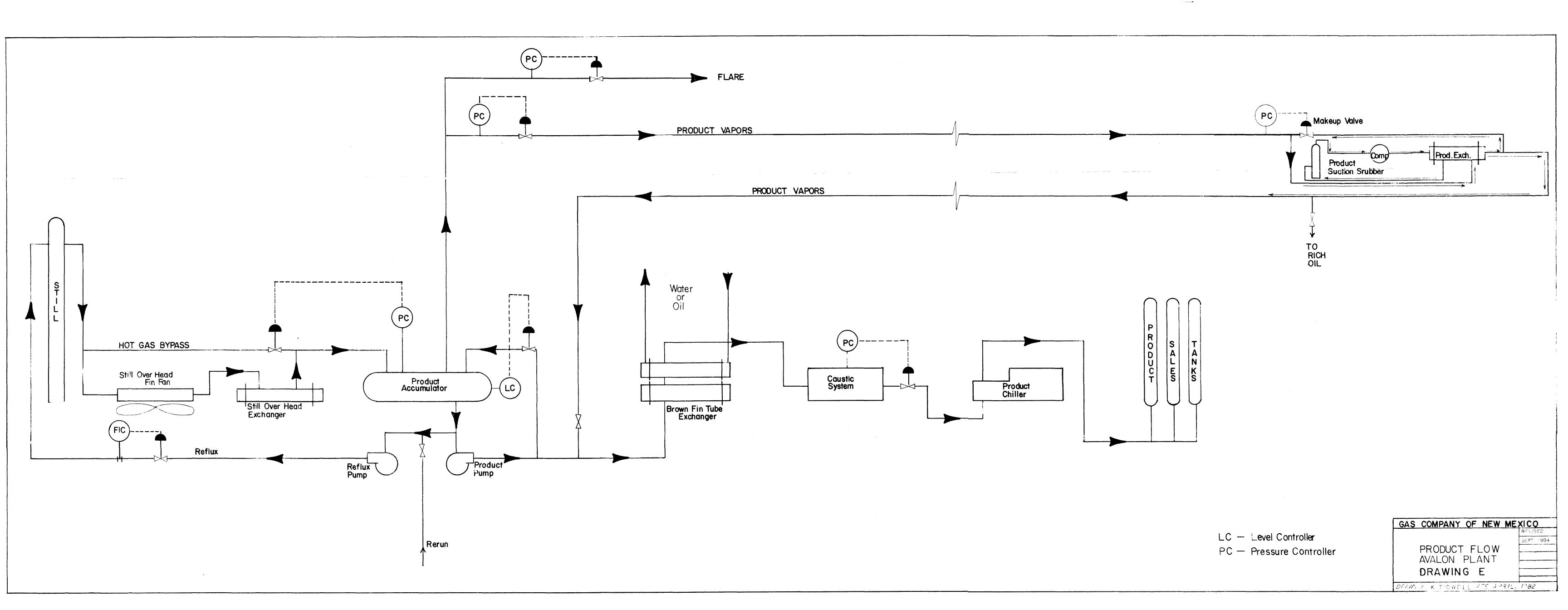


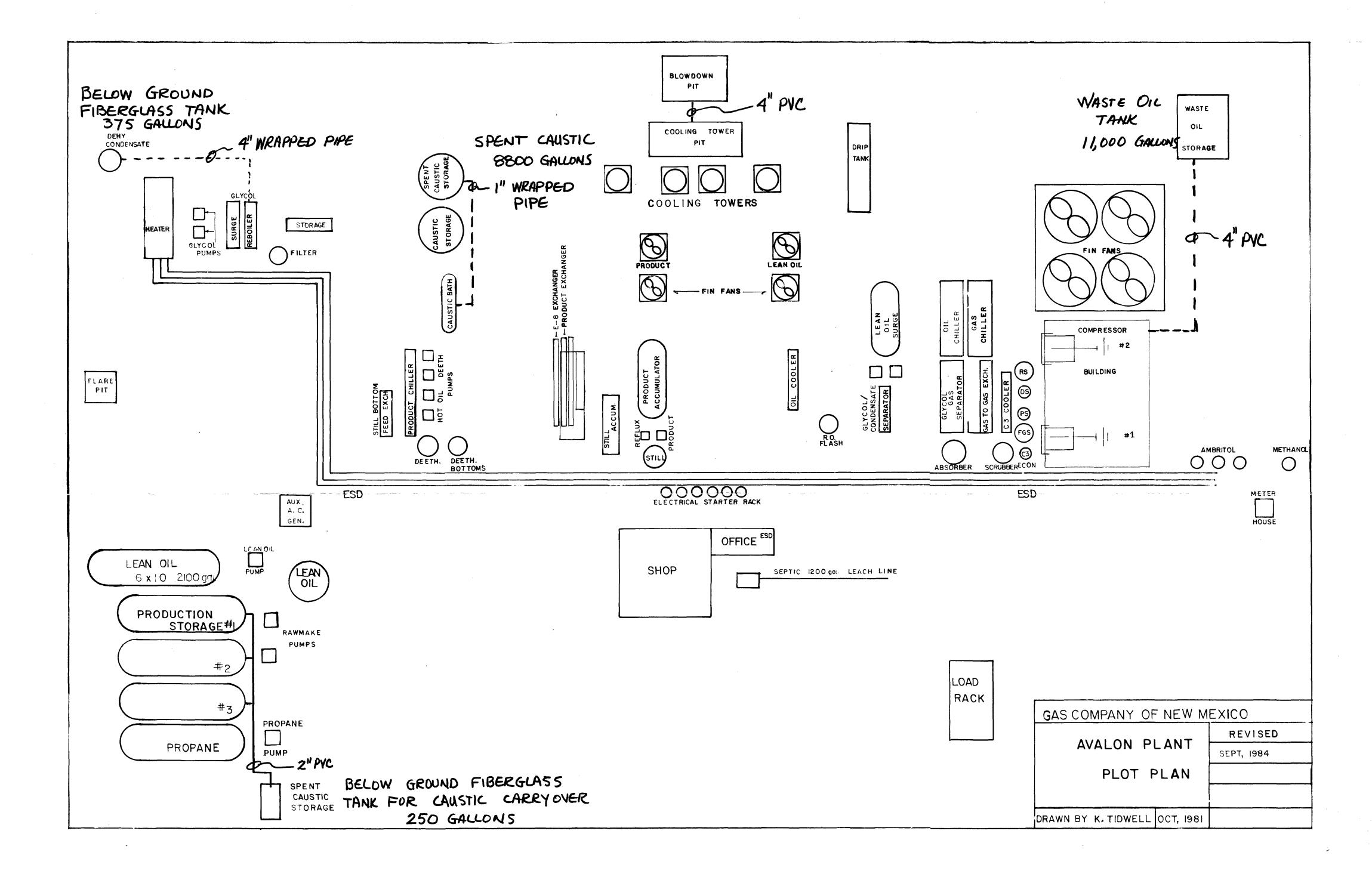












Gas Company of New Mexico March 7, 1990 Page -2-

Please note that all gas plants, refineries and compressor stations in excess of 25 years of age will be required to submit plans for, or the results of, an underground drainline testing program as a requirement for discharge plan renewal.

If you have any questions, please do not hesitate to contact Roger Anderson at (505) 827-5884.

Sincerely,

David G. Boyer, Hydrogeologist Environmental Bureau Chief

DGB/sl

Enclosure

cc: OCD Artesia Field Office

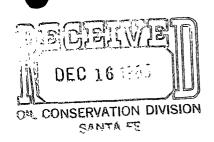


MEMORANDUM OF MEETING OR CONVERSATION

						
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	Originating Party		Other Parties			
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Conclusions or	Agreements		4.1	. 7		
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<u>Distribution</u>	****	Sig	ined			

GAS COMPANY OF NEW MEXICO

PERMIAN PIPELINE DISTRICT



December 12, 1985

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Energy and Minerals Department Oil Conservation Division State Land Office Bldg 310 Old Santa Fe Trail Room 206 Santa Fe, NM 87501

Attention: Mr. R. L. Stamets

RE: Avalon Plant Discharge Plan

Dear Mr. Stamets:

This is to notify you the earthen pit has been covered and mounded.

Pursuant to your letter of September 18, 1985, this now concludes our work on the discharge plan.

Should you have any questions, I may be reached at (505)887-1490.

Sincerely,

GAS COMPANY OF NEW MEXICO

Jon W. Jones

Manager Operations and Engineering

cc: T. Morse

D. Pickel

D. Davis

G. Mische

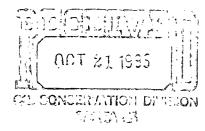
B. Bogan

Avalon Discharge Plan file

c. file

GAS COMPANY OF NEW MEXICO

PERMIAN PIPELINE DISTRICT



October 18, 1985

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Energy and Minerals Department Oil Conservation Division State Land Office Bldg. 310 Old Santa Fe Trail Room 206 Santa Fe, NM 87501

Attention: Mr. R. L. Stamets

RE: Avalon Plant Discharge Plant

Dear Mr. Stamets:

This is to notify you that the cooling tower blowdown was routed to the storage tanks on October 15, 1985.

The earthen pit will be covered up and mounded in approximately two months or when it dries up which ever occurs first.

Should you have any questions, I may be reached at (505) 887-1490.

Sincerely,

Jon W. (Jones

Senior Staff Engineer

cc: Mike Lambert Bob Corliss Gary Mische Bob Bogan

Avalon Discharge Plan File

Correspondence file



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

October 2, 1985

CERTIFIED MAIL RETURN RECIEPT REQUESTED

Gas Company of New Mexico Attn: Mr. Jon W. Jones 311 Moore Drive Carlsbad, New Mexico 88220

Dear Mr. Jones:

On September 18, 1985, an approval letter for the Gas Company of New Mexico's Avalon gas processing plant discharge plan was sent to you. Please be advised that there is an error concerning the deadline for closure of the unlined pit. Pit closure shall be completed by January 3, 1986, not January 3, 1985, as stated in the letter. We regret the error.

Sincerely,

Philip L. Baca Environmental Engineer

PLB/et



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION



1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission regulations, the following discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P.O. Box 2088, State Land Office Building, Santa Fe New Mexico 87501 (505) 827-5800.

Gas Company of New Mexico, Avalon Gas Processing Plant (SE/4 Section 9, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico), J. Jones, Authorized Agent, 311 Moore Drive, Carlsbad, New Mexico 88220, proposes to modify its existing facility by eliminating and closing an existing unlined evaporation pond, and disposing of approximately 1,000 gallons per day of cooling tower blowdown water into two steel above ground storage tanks with a total combined capacity of approximately 17,000 gallons. The water will be periodically transported to OCD approved waste disposal facilities. Liquid waste from other process vessels is currently stored in tanks and periodically transported to approved disposal and/or treating facilities. The cooling tower blowdown water has a total dissolved solids concentration of approximately 2600 mg/1. The groundwater most likely to be affected in the plant vicinity is at a depth of approximately 80 feet with a total dissolved solids of approximately 1100 mg/1.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by an interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available.

If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 10th day of July, 1985.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

R. L. STAMETS Director

SEAL

EMS COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

July 3, 1985

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Energy and Minerals Department Oil Conservation Division State Land Office Bldg. 310 Old Santa Fe Trail Room 206 Santa Fe, New Mexico 87501

Attention: Mr. R. L. Stamets

RE: Avalon Plant Discharge Plan

Dear Mr. Stamets:

Pursuant to your letter dated January 16, 1985, the following plan is submitted concerning the operation of the cooling tower blowdown pit.

We will install two (2) two hundred ten (210) barrel storage tanks to contain the cooling tower blowdown. The tanks will be connected and have a total capacity of seventeen thousand six hundred forty (17,640) gallons. A three quarter (3/4) inch PVC line will be installed to carry the discharge to the tanks. The tanks will be installed above ground and set on gravel beds.

The discharge will be removed by tanker trucks and disposed into injection and/or brine recovery facilities as outlined in the discharge plan.

The project will be completed within four weeks after the discharge plan has been approved.

Should you have questions or require additional information, I may be reached at 505 887-1490.

Sincerely yours,

Jon W. Jones

Senior Staff Engineer

cc: Mike Lambert
Bob Corliss
Gary Mische
Bob Bogan
Avalon Discharge Plan file
Correspondence file

JWJ/mj

CAS COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

May 22, 1985

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Energy and Minerals Department

Oil Conservation Division State Land Office Bldg. 310 Old Santa Fe Trail Room 206 Santa Fe, New Mexico 87501

Attention: Mr. R. L. Stamets

RE: Avalon Plant Discharge Plan

OIL CONSERVATION DIVISION
SANTA FE

Dear Mr. Stamets:

Pursuant to your letter dated January 16, 1985, the following propress report is submitted concerning the cooling tower blowdown discharge.

We have reviewed the four alternatives outlined in my letter of March 20. 1985 and find that alternative 2 appears to be the best solution.

I will, in the next two weeks, be making recommendations to our corporate management concerning this alternative. I would anticipate their response within two to three weeks. At this stage I see no problems making the July 8, 1985 deadline concerning how Gas Company of New Mexico plans to operate the cooling tower blowdown system.

Should you have questions or require additional information, I may be reached at 505 887-1490.

Sincerely yours,

Jon W. Jones

Senior Staff Engineer

cc: Mike Lambert
Bob Corliss
Gary Mische
Bob Bogan
Avalon Discharge Plan
Correspondence file

JWJ/mj 311 Moore Drive, Carlsbad, New Mexico 88220

TAS COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

March 20, 1985



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Energy and Minerals Department Oil Conservation Division State Land Office Bldg. 310 Old Santa Fe Trail Room 206 Santa Fe, New Mexico 87501

ATTENTION: Mr. R. L. Stamets

RE: Avalon Plant Discharge Plan

Dear Mr. Stamets,

Pursuant to your letter dated January 16, 1985, the following progress report is submitted concerning the cooling town blowdown discharge.

Information is presently being gathered on the following four alternatives:

- 1. Continued operation as present but proving that ground water standards are not being exceeded by the discharge.
- 2. Containing the discharge and having it removed to an approved injection well and or brine recovery system.
- 3. Install a lined evaporation bond.
- 4. Have the discharge injected into the waste heat generated by the lean oil heater. The discharge would be turned into steam vapor.

As of this date no alternative has emerged as the best solution.

Should you have questions or require additional information, I may be reached at 505-887-1490.

Sincerely yours,

Jon W. Jones

Senior Staff Engineer

cc: Mike Lambert

Gary Mische Bob Corliss Bob Booan

Avalon Discharge Plan

file

rm/TWL

STA	ATE OF
NEW	MEXICO



MEMORANDUM OF MEETING OR CONVERSATION -

DIVISION					
Telephone Personal	Time 10 am		Date 2/2 6 785		
Originating Party	,	Other Parties			
P. BACA - OC	D	J.	JONES-Gas Co. of N.M.		
Subject Water and	sis Son OCD 2/22	A rel = 185	on Gas Plant		
phase the yester of the district known ing tower blows the glycol dehyd	phase, or I also 2 to hou	alysic aska se th	d him if he thought and the cool- imilar to that for		
Conclusions or Agreements Mr. Jones will Jones will Language 2.	L find oni	t olæ	nt the analysis		
<u>Djstribution</u>	Si	gned P. L	Bocq		

FEB 25 1995

COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

TECEIVED

February 21, 1985

CERTIFIED_MAIL
RETURN RECEIPT REQUESTED

Energy and Minerals Department Oil Conservation Division State Land Office Bldg. 310 Old Santa Fe Trail Room 206 Santa Fe, New Mexico 87501

Attention: Mr. R. L. Stamets

RE: Avalon Plant Discharge Plan

Gentlemen:

Enclosed are the analysis for the various samples requested in a letter, dated December 5, 1984, from Mr. David Boyer. The analysis are provided to answer question number seven (7) of that letter.

Three of the samples are for discharges we are currently having removed and injected into an injection well operated by Unichem International, Inc. The fourth sample was cooling tower blowdown and was only analysized for the toxics since it has already been analysized for section 3-103 section A, B and C previously.

The method of sampling is as follows:

- Sample number 1 is Spent Caustic. This discharge is contained in a 210 barrel (8820 gallon) tank. The sample was taken from a valve located one (1) foot off the tank bottom. This is the same valve used to drain the tank when the contents are sent off site for injection.
- 2. Sample number 2 is the used crankcase oil, ambitrol and wash water. This discharge is contained in a 210 barrel (8820 gallon) tank. Since the oil seperates from the ambitrol and wash water part of the sample was obtained from a valve located near the bottom of the tank. The oil was obtained through a vent cap on top of the tank. The tank was full at the time of sampling whereby the oil level was near the top.
- 3. Sample number 3 is the glycol dehydrator condensate. This discharge is contained in a fiberglass tank. The samples were dipped out using the sample bottles.

4. Sample number 4 is the cooling tower blowdown. The sample was collected directly from the blowdown location which is a valve and tubing connected on the discharge of the cooling tower pumps.

In all cases the sample bottle was rinsed out with the sample before the sample bottle was filled.

You will note on Sample Number 2 the analysis was done on the water portion and oil portion seperately. They need to be combined if you need that result. We do not know how much of each constituent is in the tank at the time of disposal.

Should you have any questions on the analysis, I may be reached at 505-887-1490.

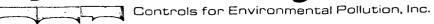
Sincerely yours,

Jon W. Jones

Senior Staff Engineer

Enclosures

cc: Mike Lambert w/o
Bob Corliss w/a
Gary Mische w/o
Bob Bogan w/a
Avalon Discharge Plan w/a
Correspondence file w/o





February 5, 1985

Due to the nature of the samples, we analyzed fractions of each separately which gave us the differing detection limits. In the case of the crankcase oil and water sample we are reporting values for both. The ratio of oil to water for that sample was 40 mls oil to 60 mls water if you need to combine them.

1925 Rosina • Santa Fe, New Mexico 87502 • (505) 982-9841

Controls for Environmental Pollution, Inc.

P.O. BOX 5351 • Santa Fe, New Mexico 87502 CEP, Inc.

02/05/85 13:17:59

PREPARED Controls for Environmental

コロロ

87502

Santa Fe, NM

(505) 982-9841

PHONE

ATTEN

1925 Rosina Street Pollution,

OUT OF STATE 800/545-2188 IN STATE 505/982-9841 LAB # 85-01-151

CONTACT GAIL

CERTIFIED BY

Gas Company of New Mexico 88220 311 Moore Drive Carlsbad, NM REPORT TO

John Jones ATTEN

Gas Company of New Mexico Carlsbad, NM 88220 311 Moore Drive GAS CO NM CLIENT COMPANY ACILITY

Water Quality and Organics WORK ID

TRANS

<u>under separate cover</u> INVOICE

on this report TEST CODES and NAMES used

Aluminum Chloride Benzene Suanide Cadmium Arsenic Barium Boron ENZ BA

otal Dissolved Solids P Xulene Selenium Sulfate Tolvene P XYLE SO4 W TDS 1 SE 1

Zinc

ZNI

Nitrogen

Vitrate,

NO3

dickel

Xulene

Phenol

PHEN

ead

1olubdenum andanese Luoride

てのひ

Υ Xulene

Chromium Cobalt copper 0 Crnkcse. Dil, Amb. & W. W. 4 Cooling Tower Blowdown 3 Glucol Dehydrator Con.

AGE 1 ECEIVED: 01/09/85

TAKEN

-iguid TYPE

SAMPLE IDENTIFICATION Spent Caustic 되양양성

Controls for Environmental Pollution, Inc. P.O. BOX 5351 • Santa Fe, New Mexico 87502

REPORT OF ANALYSIS

LAB # 85-01-151

(ug/liter) (ug/liter) (ug/liter) (ug/liter) (ug/liter)

ma/liter

OUT OF STATE 800/545-2188 IN STATE 505/982-9841

SAMPLE IDENTIFICAL 1 Spent Caustic

TYPE OF ANA!	Benzene	1 1 2
DATE COLLECTED	not specified	

T1 1 C X	O Xylene P Xylene Toluene	Phenols Chloride Charide	Cyanica Fluoride Nitrogen, Nitrate (as N) pH	Sulfate Solids, Total Dissolved Aluminum
Z B Z	0 L P	£ 5 5	Z I I Z	. Ω Ω Ω. • Σ Ω Ω.

1.42 37500

			(units)																	
<0. 1 40. 1	12.5	<0.1	11.41	15240	319000	0.0	0.06	0.13	0.7	0.122	<0.02	80.0	. 0.77	48	96.0	0.05	<0.2	0.13	0.02	о. О

Molybdenum Nickel Manganese

Chromium

Copper

Iron

Cadmium

Cobalt

Arsenic

Barium

Boron

Selenium

Zinc

Lead

Crnkcse. Dil, Amb. & W. W.

AMPLE IDENTIFICATION

AGE 3

OUT OF STATE 800/545-2188 IN STATE 505/982-9841

LAB # 85-01-151

REPORT OF ANALYSIS

DATE COLLECTED	TYPE OF ANALYSIS	mq/liter	
not specified	Benzene	\sim	ug/liter)
	M Xylene		(ug/liter)
	O Xulene		(ug/liter)
	P Xulene		(ug/liter)
	Toluene		(ug/liter)
	Phenols		ı
	Chloride	on.	
	Cyanide	<0.1	
	Fluoride	0.6	
	Nitrogen, Nitrate (as N)	0.9	
	Ha		(units)
	Sulfate	20	
	Solids, Total Dissolved	630	
	Aluminum	<0. 2	
	Arsenic	<0.02	
	Barium	<0.2	
	Boron	34. 9	
	Cadmium	0.004	
	Cobalt	<0.02	
	Chromium	0.04	
	Copper	. 0.01	
	Iron	8.42	
	Manganese	0.40	
	Molybdenum	<0.02	
	Ninkel	<0. P	
	Lead	o. o	
	Selenium	<0.02 <0.02	
	Zinc	o. o	
	Aluminum	<10	
	Arsenic	₽	
	Barium	<10	
	Boron	<10	
	Cadmium	O. 5	
	Cobalt	Į,	
		•	

(water)

↑ 00 0 1 00

Molybdenum Manganese

Chromium

(0il)

Copper Iron

AGE 4

Controls for Environmental Pollution, Inc. P.O. BOX 5351 • Santa Fe, New Mexico 87502

REPORT OF ANALYSIS

OUT OF STATE 800/545-2188

SAMPLE IDENTIFICATION

2 Crnkcse. Oil, Amb. & W. W.

DATE COLLECTED

TYPE OF ANALYSIS Lead

<10<13<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<10<l

Selenium Zinc

IN STATE 505/982-9841

LAB # 85-01-151

mq/liter

AGE 5

Controls for Environmental Pollution, Inc. P.O. BOX 5351 • Santa Fe, New Mexico 87502

REPORT OF ANALYSIS

OUT OF STATE 800/545-2188 IN STATE 505/982-9841

LAB # 85-01-151

3 Glycol Dehydrator Con. JAMPLE 1

not specified

Nitrate (as N) TYPE OF ANALYSIS Nitrogen M Xylene Xylene P Xylene Chloride Fluoride Coluene Phenols Cyanide Benzene

Solids, Total Dissolved Sulfate

Molybdenum Manganese Aluminum Selenium Chromium Arsenic Cadmium Cobalt Barium Copper Nickel Boron Iron pear

(ug/liter) (ug/liter)

(ug/liter) 'ug/liter

(ug/liter)

<0. 1

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(units)

<0.2

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Controls for Environmental Pollution, Inc. P.O. BOX 5351 • Santa Fe, New Mexico 87502

REPORT OF ANALYSIS

OUT OF STATE 800/545.2188 IN STATE 505/982-9841

LAB # 85-01-151

Cooling Tower Blowdown SAMPLE IDENTIFICATION

DATE COLLECTED not specified

TYPE OF ANALYSIS P Xylene M Xylene O Xylene Benzene Toluene

	(ug/liter)	(ug/liter)	(ug/liter)	/lite	(ug/liter)
mq/liter	4.8	Ċ)	ง	୯>	\ \ \



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

January 16, 1985

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Gas Company of New Mexico Permian District 311 Moore Drive Carlsbad, NM 88220

Attention: Mr. Jon W. Jones

Dear Mr. Jones:

We have received your letted dated January 2, 1985, containing some of the additional information requested by the OCD with respect to the Gas Company of New Mexico Avalon Plant discharge plan. By your letter we understand that the additional water samples requested were obtained the week of January 7th. Your letter also indicates that six months are needed to assess the alternatives available to you with respect to your unlined blowdown pit.

Pursuant to Section 3-106.A. of the New Mexico Water Quality Control Commission Regulations and for good cause shown, Gas Company of New Mexico is hereby granted an extension until September 30, 1985, to operate the Avalon Gas Plant without an approved discharge plan with the following provisions:

- 1) A report should be submitted every sixty (60) days detailing the progress made with respect to your assessment of the alternatives available to you in reference to your blowdown pit as outlined in your letter of January 2, 1985. Submittal dates for these reports shall not be later than March 22, 1985, and May 21, 1985.
- 2) A report outlining the method of blowdown pit operation chosen by Gas Co. of New Mexico for the Avalon Plant shall be submitted not later than July 8, 1985. If the planned mode of operation will require new construction, drill-

ing (e.g. injection well), or modification to the existing pit, a schedule with the anticipated completion date shall be included. It should be noted that if the blowdown pit is to be lined, the proposed design shall be submitted to the OCD for approval prior to installation.

If you have any questions on this extension or the discharge plan process, please feel free to contact Phil Baca or Dave Boyer at (505) 827-5812.

Sincerely

R. L. STAMETS

Director

RLS/PB/dp

cc: OCD-Artesia District Office

receipt for certified mail NO INSURANCE COVERAGE PROVIDED-NOT FOR INTERNATIONAL MAIL Moore Drive \mathbf{E} (See Reverse) Return Receipt Showing to whom and Data Delivered of P.O., State and ZIP Code TOTAL Postege and Fees Restricted Dalivery Fee . 00 Special Delivery Fes 505 Street and Mp. Gas Carlsbad. Corrifica Fee Sont to

PS Form 3800, Feb. 1982

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CAME COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

January 2, 1985



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Energy and Minerals Department Oil Conservation Division State Land Office Bldg. 310 Old Santa Fe Trail Room 206 Santa Fe. New Mexico 87501

Attention: Mr. David G. Boyer

Dear Mr. Boyer:

In response to your letter dated December 5. 1984 all questions except numbers seven (7) and 12 regarding our discharge plan will be answered at this time.

Regarding the statement that Gas Company of New Mexico (GCNM) has not responded to the April 7, 1981 letter is incorrect. I have enclosed copies of all correspondence between GCNM and the OCD concerning the discharge plan. You will note that GCNM filed a discharge plan in November 1981. It wasn't until March 1984 that the OCD responded to that plan.

Pertaining to question number seven (7), samples will be taken the week of January 7, 1985. Based on previous analysis, the turn around time for these analysis will be between 30 to 45 days.

Regarding question number 12 the legal description on the nearest active water well was incorrect. The correct description should have read:

NE 1/4 SW 1/4, Section 3 Township 21 South, Range 27 East NMP.

The well mentioned in your letter located in the SW1/4 SW1/4, Section 9, Township 21 South, Range 27 East NMP has been abandoned and capped by the operator due to vandelism on the windmill.

The following answers are submitted in the same order as the question:

1. The methanol is injected at 2 gallons per minute. Concentration is 100%. This is done only when repairs are being made to the glycol system. This occurs approximately 2 to 3 times a year for 4 to 8 hours each time. The methanol remains in the product. It is stored in an above ground storage tank which is located on a stand.

- Injection rate is one quart per day. It is not seperated from the stream. Description sheet attached for Corchek 1686.
- 3. The caustic (NaOH) is stored in an above ground steel tank. Capacity is 210 barrel (8820 gallons).
- 4. This discharge from the discharge scrubber in the propane flow is dumped manually into a 5 gallon bucket. This bucket is dumped into the 11,000 gallon drip tank. This tank is described in the discharge plan in Section II, Plant Process, Section A Sub 6, Natural Gas Condensate. The daily volume is approximately 1 pint.
- 5. Rich oil and glycol filters plus oil filters from the compressors are picked up by a local sanitation service, T-N-T Disposal. They are hauled to the local county land fill.
- 6. Material Safety Data Sheet is attached for Ambitrol.
- 8. Both underground tanks are fiberglass. The contents are not corrosive to fiberglass. Both tanks are empied as needed and the condition of the sides and bottom are observed each time. The contents are sent to the injection well for disposal.
- 9. In the event of any tank failure a local trucking contractor would be called to remove the spill. All tanks are observed daily. Any sign of leakage would be fixed immediately.

The disposal holding tanks are sized to hold a years supply of discharge.

The injection well would have to be down for over a year at which time additional tanks would be installed.

10. On October 22, 1984 an analysis of the glycol was received. The pH was 4.5, therefore a program was re-initiated whereby DEA is driped into the glycol surge tank. The DEA is stored in five gallon plastic buckets.

11. The cooling tower blowdown pit is an unlined pit having the following dimensions:

21 feet square by 5 foot 3 inches deep

The cooling tower pit is a rectangle structure made of concrete. This is used as a pit or sump for the cooling water pumps. It has the following dimensions:

6'-9" X 23'-11" X 3'-9" deep

There are no monitor wells and chromates have not been used to my knowledge.

In summary the analysis will be available by February 20, 1985. This will answer question number seven (7).

In regard to question number 12 an engineering economic analysis is needed to determine which is the best solution for the cooling tower blowdown. As I see it we can:

- 1. Install a lined evaporation pond.
- 2. Shipment to an injection well.
- 3. Demonstrate that the groundwater standards are not being exceeded by the discharge.

In consideration of the above alternatives I hereby request an extension of six (6) months to continue operating the Avalon Plant without an approved discharge plan.

Should you have any questions regarding this letter or the request for extension, you may contact me at 885-8082 or 887-1490.

Sincerely,

Jon W. Jones

Senior Staff Engineer

Enclosures

cc: Gary Mische w/o
Bob Corliss w/o
Correspondence file w/o
Avalon Plant Discharge Plan w/a

MATERIAL SAFETY DATA SHEET PAGE: 1 DOW CHAMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY FRONE: 517-636 4400

EFFECTIVE DAUE: 10 SEP 80 PRODUCT CODE: 07671

PRODUCT NAME: AMBITROL (R) NEC ANTIFREEZE MSD: 0554

INSECTIONS (TYPICAL VALUES-NOT SPECIFICATIONS) : % :

PROPYLENE GLYCOL INDUSTRIAL : 95.4 : .
INHIBITORS : 2.1 :
WATER : 2.5 :

SECTION 1

FEISICAL DATA

BOILING POINT: 320F, 160C : SOL. IN WATER: COMP. MISCIBLE VAP PRESS: 0.22 MMHG @ 20C : SP. GRAVITY: 1.055 @ 60/60F, 16C VAP DENSITY (AIR=1): 2.62 : \{\bar{1}} VOLATILE BY VOL: NOT APPLICABLE APPEARANCE AND CROER: BLUE LIQUID

SECTION 2

FIRE AND EVENOSION HARARD DATA

FLASH POINT: 215F, 102C : FLAMMABLE LIMITS (STP IN AIR)
AFTHOD USED: CLEVELAND OPEN CUP : LFL: NOT DETER. UFL: NOT DETER.
EXTINGUISHING M-DIA: WATER FOG, ALCOHOL FOAM, CO2, AND DRY CHEMICAL.
SPECIAL FIRE FIGHTING EQUIPMENT AND EAZARDS: NONE.

SECTION 3

PEASTIVITY DATA

STABILITY: ---INCOMBATIBILITY: OXIDIZING MATERIAL
HAZARDOUS DECOMPOSITION FRODUCTS: ---HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 SPILL, LEAK, AND FISHOSAL PROCADURES

ACTION TO TAKE FOR SPILLS (TSE APPROFRIATE SAFETY BOUTFFINT): SMALL SPILLS: COVER WITH ABSORPENT HATERIAL, SCAN UP AND SWEEP INTO A TRUM. TAKES SPILLS: MIVE AROUND SPILL AND FUMP INTO SUITABLE CONTAINERS. DIPPOLAL METHOD: FRANCOSES OR FURN IN TROPER INCINERATOR IN ACTUAL ANCE WITH LOCAL, FIRME, AND FELLIAL RESULATIONS.

SHOTION 5

 $\langle \rangle$

HEALTH HAZAFD LATA

(CONTINUED ON PAGE 2) (R) INDICATES A FEGISTIFIED OR TRAITMARK NAME OF THE DOW CHEMICAL COMPANY

MATERIAL SAFETY DATA SHEET PAGE: 2 DOW CHHMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400

AFFECTIVE DATE: 10 SEP 80

FRODUCT CODE: 07671

PRODUCT (CONT'D): AMBITROL (R) NTC ANTIFREEZE

MSD: 0554

SECTION 5

HEALTH HAZARD DATA (CONTINUED)

INGESTION: LOW SINGLE DOSE ORAL TOXICITY. LD50 RATS IS GREATER THAN 10 g/kg.

EYE CONTACT: UP TO MINOR IMPLIATION BUT NO CORNEAL INJURY.

SKIN CONTACT: PROLONGED OR REPEATED EXPOSURE MAY CAUSE AT MOST ONLY MINOR IRRITATION.

SKIN ABSORPTION: NOT LIKELY TO BE ABSORBED IN TOXIC AMOUNTS. VERY LOW IN TOXICITY BY THIS ROUTE.

INHALATION: DOW INDUSTRIAL HYGIENE GUIDE 10 Mg/M3 AERCSOL, 400 FPM VAPOR PROPYLENE GLYCOL. CONSIDERED TO BE VERY LOW IN HAZARD BY INHALATION. EFFECTS OF OVEREXPOSURE: ----

SECTION 6

FIRST AID--NOTE TO PHYSICIAN

FIRST AID PROCEDURES:

EYES: IRRIGATION OF THE EYE IMMEDIATELY WITH WATER FOR FIVE MINUTES IS GOOD SAFETY FRACTICE. CONSULT MEDICAL.

SKIN: GOOD PERSONAL HYGIENE.

INHALATION: FAING EFFECT HAPPOTFD.

INGESTION: LOW IN TOXICITY. INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED.

NOTE TO PHYSICIAN: HUMAN EFFECTS NOT ESTABLISHED. PROBABLY WOULD FRODUCE NO MORE THAN MILD ILLNESS WITH SPONTANEOUS RECOVERY.

SECTION 7 SPECIAL HANDLING INFORMATION

VENJILATION: RECOMMEND CONTROL OF PROPYLENE GLYCOL TO SUGGESTED GUIDES. - ESPIRATORY PROTECTION: NOME NURBALLY NEEDED.

PROPERTIVE CLOTHING: NONE NEEDED.

EYE PROTECTION: NOT MCRMANLY NOFEED. IF RECESSARY, SAFETY GLASSES WITHOUT SIDE SHIFTEDS.

SECTION 8 SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

TH: LAUTIONS TO BE TAKEN IN HAMPLING AND STORAGE: PRACTICE REASONABLE CARE AND CAUTION.

ADDITIONAL INFORMATION: CP SEP SO REVISIONS OF 05 JUN 78 -- SECTION 5 AND 7.

LAST PAGE

(R) INDICATES A REGISTERED OR CHACHNARK WAME OF LHE DOW CHEMICAL COMPANY

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, TRANSPORT INPLIED, IS MADE.

A.C.C.O., Inc.

915/362-5751 / 3040 LAKEVIEW / ODESSA, TEXAS 79762

A. C. C. O.'S
HIGH TEMPERATURE FILMING AMINE CORROSION INHIBITOR

Performance

CORCHEK 1686 is a filming amine corrosion inhibitor which effectively controls corrosion due to H2S, CO2, mineral and organic acids. Since it is non volatile it will not be carried over with vapors. Fecause of its detergent and corrosion inhibition properties, it reduces deposits due to corrosion byproducts, thereby prolonging equipment life. It is also effective against corrosion due to pH and high temperature.

Physical Properties

Form
Specific gravity @ 60°F
Flash point
Pour point
Viscosity @ 60°F
Solubility

Amber liquid
0.940 (7.65 lbs./gal.)
185°F
Below 0°F
37 cps
Water dispersible, oil soluble

Contains no heavy metals or organic chlorine compounds.

Regulation

CORCHEK 1686 should be fed continuously, but certain applications will permit batch feeding. Initial dosages of 15-20 ppm can often be reduced to less than 5 ppm using a corrosion test method to determine the most effective dosage. CORCHEK 1686 can be diluted with most hydro carbons for easy feeding. CORCHEK 1686 can be fed in water dispersions of the chemical pot is agitated. When used as as anti-foulant dosage in the range of 45-30 ppm should be maintained.

Handling Instructions

CORCHEK 1686 does not have dangerous properties. Reasonable precautions should be taken, however, to avoid repeated or prolonged skin contact. Wash exposed body with soap and water. DO NOT TAKE INTERNALLY.

Packaging and Delivery

CORCHEK 1686 packaged in 55 gallon steel drups weighing approximately 420 pounds and will be shired from our Odessa Plant within 7 days after receipt of your purchase order. Eulk deliveries are available.



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

December 5, 1984

TONEY ANAYA

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501 (505) 827-5800

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Gas Company of New Mexico Permian District 311 Moore Drive Carlsbad, New Mexico 88220

Attention: Mr. Jon W. Jones

Dear Mr. Jones:

The Oil Conservation Division has received your discharge plan for the Gas Co. of New Mexico Avalon Plant. Your excellent description of the plant processes and effluent sources is greatly appreciated. To continue further with the review process, the following information is requested:

- 1. As referenced in Drawing A of your discharge plan, methanol is introduced to the gas stream. At what rate and concentration is it introduced? Does it remain in the product or is it regenerated or disposed of? If disposed of, to what effluent stream is it delivered to? How is the methanol supply stored?
- 2. Drawing C indicates that Corcheck is injected in the rich oil line upon exiting the rich oil filter. What is the injection rate? Is it separated from the stream later on and disposed of? If so, what effluent stream is it disposed to? Provide a chemical description or safety sheet (if available) for Corcheck.
- 3. How is the caustic supply stored?
- 4. The discharge scrubber in the propane flow

process diagram is dumped manually. To where is this discharge dumped? If dumped to an effluent stream, what is the composition and average daily volume of this dumped fluid.

- 5. Is any solid waste generated (e.g. rich oil and glycol filters)? If so, where and how is the waste disposed of?
- 6. The engine cooling waters are treated with Ambritol. What is Ambritol's chemical composition? Send a safety sheet if available.
- 7. The water analysis for the tower blowdown pit should also include analysis for benzene, toluene, and para-, meta-, and ortho- xylenes. A chemical analysis of the effluents sent to the injection well is requested. The chemical analysis should include major cations and anions and analysis for WQCC parameters listed in Section 3-103 except for radioactivity, silver, uranium, mercury, and chlorinated hydrocarbons. Be sure to describe briefly the sampling method used.
- 8. How would a leak in the underground tanks be detected?
- 9. Do you have a contingency plan in the event of a tank leak or long-term injection well shut-down?
- 10. What is used for pH control in the glycol reboiler? In what quantities and where is this chemical stored?
- 11. Your plot plan shows both a cooling tower pit and a blowdown pit. The blowdown pit is described as being unlined. Provide the dimensions of both pits and liner information for the cooling tower pit. Are there any monitor wells? Were chromates ever used as treatment chemicals in the cooling towers?
- 12. Your discharge plan indicates that the nearest well is located in the NE/4 SW/4, Section 3, Township 20 South, Range 28 East and is about 1 ½ miles away from the plant. However, when

mapped that location is about seven miles east and seven miles north of the plant. The New Mexico State Bureau of Mines and Mineral Resources Ground-Water Report No. 3, "Geology and Ground-Water Resources of Eddy County, New Mexico", shows a well in the SW/4 SW/4, Section 9, Township 21 South, Range 27 East, less than one mile from the plant in the same The depth to water was listed as 81 feet in 1950 and the water bearing sediments are listed as being alluvium. An analysis of the water showed 1090 mg/l TDS (vs. 2632 mg/l in your discharge) and lower values of sulfate, chloride, fluoride and nitrogen than in your discharge (copies enclosed). your discharge water is of poorer quality than the ground water in the area, you will not be allowed to continue discharging to the unlined blowdown pit unless you can demonstrate that the discharge will not cause ground water standards to be exceeded at a place of present or foreseeable future use of the water. a demonstration would need to include a detailed hydrogeological study of the area (eg. ground water availability and movement, geology, water quality, vadose interactions, etc.), and your plans for sampling and monitoring both the effluent and ground water (via likely use of monitoring wells) for the lifetime of the plant and possibly longer (see Section 3-107 of the WQCC Regulations for what may be required). your discharge is relatively small, you may wish to investigate some other method of disposal including a lined evaporation pond, or shipment to an injection well.

By letter dated April 7, 1981, the Avalon Plant was required by the Oil Conservation Division to submit a discharge plan for approval. WQCC Regulation 3-106 A. provides that after notification a person may continue to discharge without an approved plan for only 240 days unless the Director for good cause allows a longer time. No permission to continue the discharge without an approved plan has been requested by Gas Company, nor has OCD given permission to continue the discharge without an approved plan. Therefore, within 30 days after receipt of this letter, and based on the information within this letter (especially Item No. 12), Gas Company

should provide an estimate of the time needed to complete discharge plan submittals, and, giving good cause, request the necessary extension of time to operate without an approved plan.

If you have any questions regarding this letter or the discharge plan process, please contact either myself or Philip Baca at 827-5812.

Sincerely,

1373

DAVID G. BOYER, Hydrologist

cc: R. L. Stamets

Holoxia 126 office

PS Form 3800, Fe	5. 198	32				
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PERMIAN PIPELINE DISTRICT



November 13, 1984

Mr. David Boyer
State of New Mexico
Energy & Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

RE: Gas Company of New Mexico Discharge Plant for the Avalon Plant.

Gentlemen:

Enclosed are the sample analysis pertaining to the above referenced discharge plan.

Please advise if additional information or data is required.

Sincerely,

Jon W. Jones

Senior Staff Engineer

JWJ/mj

Enclosures

Controls for Mavironmental Polictica, Inc. U BOX UGO TO Garta Ta New Maxima BYBOS

11/06/84 16:34:33

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PECEIVED: 09/14/84 REPORT Gas Company of New Mexico

ALITIOVA

WORK ID

COMPANY

CLIENT

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P.O. #

311 Moore Drive 88220 PREPARED Controls for Environmental 1925 Rosina Street Pollution, Inc

Carlsbad, NM 88220			1925 Rosina Street		מוחליווייים מיייים
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Carlsbad, NM 88220					
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SAMPLE IDENTIFICATION	CEP,	Inc.	TEST CODES and NAMES		en this report
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Controls for Environmental Hollerion, Inc.

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Spoling Tower Blow Down

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OUT DE STATE SOCIETATION OF THE SOCIETY

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2632 28. 0 <0. 001	7.29 (units) <0.6 (pCi/liter) <1 (pCi/liter)		^O. O1 O. U	<pre><0.01 </pre>	0.07 0.003 <0.0004 0.45	<0.001 <0.01 <0.01 0.005	四点/ 1.4を表示 <0.01 <0.01

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Controls for Environmental Dolletion, Inc.

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REPORT OF ANALYSIS

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CAYOLE IDENTIFICATION

CYLES CONTROL SON BOX 5351 • Santa Fe, New Mexico 87505
REPORT OF ANALYSIS Controls for Environmental Collution, Inc.

OUT OF START BOOKSASTON BB IN STATE 505/582 9841

- AT 4 21-09-176

			DATE COLLECTED
Sulfate Solids, Total Dissolved Nitrogen, Nitrate (as N) Phenols	Chloride Cyanide Fluoride pH Radium-226 Radium-228	Metcury Manganese Molybdenum Nickel Lead Celenium Zinc Boron	TYPE DE ANALYSIS Silver Aluminum Arsenic Barium Cadmium Cobalt Copper Iron Iron Iron Irosal Uranium
1620 3326 5. 0 <0. 001	240 <0.1 < < 	<pre><0.0004 0.16 0.02 <0.1 <0.01 <0.01 0.1 0.4</pre>	mn/liter <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 0.02 0.023

CANS COMPANY OF NEW MEXICO

PERMIAN PIPELINE DISTRICT

Baptemier 28, 1564



Jos D. Ramey, Director
State of New Mexico
Engmov and Nimerals Decamposit
Dir Companyation Division
A. J. Box 2018
Larna Ro. New Yexton - 67500

Swem on- Readows

Michaed tlease find an application for the discharge blan for the Avalor Flant. I have also attached a popy of your lawfor cutlining inadeclasses in a plan treviously submittee.

- taken hove the parentarity shalves are not in the blank lines are not in the blank lines are not been received by my office. They should be averable in a been to ben days and will be further to your office as soon as received.

BOOKER YOU TAVE ONY MICHIESENS BLEASE DALL.

Simperely.

John A. James

Genior Staff Erringer

In Brown Folder - P.B.

JWI/mj

in 'Epaments

EAS CLMPANY OF NEW MEXICO AVALON PLANT WASTE WATER DISCHARGE PLAN

Submitted to:

Vek Mexico bil Conservation bivision

Santa Fe, New Mexico

Submitted by:

Jas Corpany of New Mexico

Permian District

311 Moore Drive

Carlsoad, New Mexico

September 25, 1984

CONTENTE

	GENERAL INFORMATION	in the second
2. I	FLENT PROCESUES	i ši
rax	EFFLCENT DISPOSME	<u>;</u>
IV	SITE CHARGO ERISTICS	15
V	RODITIONAL INFORMATION	16
	APAENDIX	
	PLOT PLAN	
	PROCESS FLOW DIREMAYS	
	LSSS TOPRERAPHY MEP	
	REED WARER FLOW	
	TRUBUTION WELL DATA	
	SAMPLE WANT VAIS	

DISCHARGE PLAN APPLICATION FOR NATURAL GAS PLANTS

I GENERAL INFORMATION

A. Name of Discharger

Gas Company of New Mexico, Avalon Flant 311 Moore Drive Carlsbad, New Mexico 88220 505-885-8082

B. Local Representative

Jon W. Lones 311 Moore Drive Carlabac. New Mexico 88220 505-855-8082

C. Location of Discharge

The Avalon Plant is located approximately five and one half (2.5) miles north conth east of Carlsoad. Eddy County, New Yexico. The plant has the following label description:

The month one-half of the northwest one quarter of the southeast che-cuarter (N/2, NW/4, SE/4) of Section \forall_3 Township 21 South. Range 27 East, N.M.J., consisting of approximately 20 acres, more or less.

D. Type of Natural Was Operation

The Avalon Plant utilizes is a methoderated lean oil absorption process to remove hydrocarbons (ethanes, propanes, butanes, pendanes and nexames) from natural das. Plant design dapacity is 30 MMC-0.

The plant processes can best be described by reviewing the process flow diagrams (located in the Appendix) and the description of each flow. Residably there are two main flows, Natural Das Flow and the end result flow or Product Flow. The process requires three additional flows propage, lean oil and plycol. Each is described below:

Natural	bas Flow	Flow	Diagram	Θ
Product	Flow	Flow	Diapram	ü
Lea Oil	Flow	Flow	Diagram	
Propane	Flow	Flow	Diagram	B
Glycol i	HIOW	Flow	Diagram	C_{\bullet}

NATURAL GAS FLOW

The gas that feeds the Avalon Plant comes from Gas Company of New Mexico Permian District's Garnering and Transmission System.

Inlet Valve - The operation of the inlet valve is hard to follow on the flow sheet. Perhaps a description will help. The controller on this valve looks at pressure down stream of the plant, as the pressure drops this valve opens to let more gas through the plant. Normally, this valve is wice open, however, if down stream pressure gets too nigh, this valve will start to close. The air supply to the pressure controller is fed through a high flow controller, closing the inlet valve. The solehold is operated with two switches. One of these is the high pressure shut down. If Plant pressure exceeds 558 psi, this switch will deactivate the solehold. Shuting off the firm supply to the inlet valve controller. Also operation of the plant exercise shut down switch will deactivate the solehold valve.

inlet Scrubber - The inlet scrubber has a high level switch on it that will sound an alarm.

Gas to Gas Exchanger - When inlet das leaves the scrubber, it goes to the gas to has exchanger. Ethanes from the de-ethanizer, and rich oil flash crum are pushed with the compressor into this line. Also glycol is injected into the das going into the gas to has exchanger. The glycol is used to absorb noisture which helps prevent freezing in the gas to gas exchanger, because the gas is cooled with has leaving the absorber.

Inlet Chillen - After the pas leaves the gas to pas exchanger it goes to the inlet cas chillen. Here it is cooked down more in the chillen. Additional giveol is injected into the cas stream to prevent freezing.

Bas-Glycol Separator - The volume of the cas sweeps the clycol into the cas plycol separator. A valve is tred into the two lines off of low points in the pas lines inmediately after the two cooling exchangers. This valve is opened when cas volume is not sufficient to push the plycol into the separator.

Absorber - When the cold has leaves the das clycol separator, it poes into the bottom of the absorber. It than goes up the absorber through the cold oil coming down the absorber. The colder the oil and gas the better the transfer of product from the pas to the oil.

Propane-Residue Exchanger - when the gas leaves the top of the absorber, it goes back through the das to gas exchanger to neighborhood inlet gas. It then goes to the propane residue exchanger. Generally this exchanger is bypassed with the gas, because the propane is already cooler than the gas. When the exchanger is used, the bypass is generally not closed all the way, because this restricts das flow.

Discharger scrubber - After leaving the propane residue exchanger, the gas goes through the discharge scrubber. If oil accumulates in this vessel, it is manually cumped into the rich oil flash vessel.

Discharge Valve - This valve is used to hold back pressure on the plant. If plant pressure pets too low_1 it closes to hold in gas pressure. Generally absorber pressure is monitored to set the discharge valve controller. After the gas leaves the discharge valve, it poes back into the transmission system.

PRODUCT FLOW

Product Accumulator - When product leaves the still it does through the still over head fin fan and then through the still over head fin fan and then through the still over head exchanger. This cooling helps to concerne the hot vapors into liquic which are deposited in the product accumulator. A hot cas bypass controller is used to by pass the cooling in order to maintain enough pressure on the accumulator to keep the compressor stage from starving.

Compressor - The compressor bulls the valors of the accumulator that have not concended into liquid and pushes them into either the rich oil stream or back into the product stream going to storape. A control valve at the accumulator maintains accumulator pressure. If this pressure gets too low the valve will close, starving the compressor. That is the reason for the hot gas bypass controller. Before the vapors get to the compressor they to through the product excharger and then into the suction scrubber. The suction scrubber has a high level switch that will shut down the compressor if the scrubber fills up with product This vessel is dumbed manually and should be checked liquid. several times each shift. After the scrubber, the vapors are compressed and pushed back through the product exchanger to either the oil or product stream. A makeup valve is used to control proper suction pressure to the compressor. If suction pressure falls too low, this valve will open, cumping some of the hither pressure off of the discharge rack into the suction side of the compressor. This valve is not large enduan to hold up suction pressure on the compressor if the accumulator pressure drops. Its primary too is to smooth out any pressure swings from the accumulator.

kerlux Pumb - The Reflux bumb pushes some of the broduct out of the accumulator back into the top of the still. This product goes onto several trays that are above the oil entry into this vessel. The abount of product travelish town these top travelontable the temperature of the hot product valors coming us out of the top of the still. This action also helps to hold any vapors from the oil in the still.

Product Pump - This pump cushes product in two directions. One of the streams is used to maintain a level in the accumulator. As the level drops a valve opens to let some of the liquid product go back into the accumulator. The rest of the product is pumped through the prown Fin tube exchanger where it is either heated up or cooled in order to maintain a project temperture when it goes through the caustic system.

Caustic System - The terperature of the product council through the caustic system determines the heat of the caustic solution. This temperature should be held somewhere between 70 and 80 degrees he by manually adjusting the temperature of the brown him tube. A pressure controlling valve is used to hold the pressure on the caustic system. This is to keep the product from flashing in the

caustic and carrying caustic into the storage tanks. Product is pumped through caustic in this vessel to remove impurities in the product.

Storage - When the product leaves the caustic system, it ross through the product chiller where it is cooled and then is stored in the product tanks, for shipping.

LEAN OIL FLOW

Lean Oil Chiller - cools oil joing to absorber remerally the oil temperature should be as low as possible.

Absorber - contacts cool oil coing down with cool cas going up to the oil captures product from the Gas. The higher the absorber pressure the better the transfer of product to oil, however, the absorber is rated at 556 psi maximum and was rated in 1945, therefore, this pressure should probably be run at least 15 psi pelow maximum.

Rich Oil to Oil Exchanger - the oil leaving the absorber toes through this exchanger to heat it up, also the hot oil coming back from the still is cooled to prepare it for re-entry into the absorber. The Lean Oil fin Fan has a controller on it that helds to control the temperature of the oil coing into the oil to bill exchanger. This in turn varies the temperature of the oil poing to the rich oil flash tank.

Rich Oil Flash Tank - After the oil has been heated to in the oil to oil exchanger it goes to the mich oil flash tank where the pressure is crosped. This released some of the him vapors out of the oil and they go out of the top of the kich Oil Flash into a line coming from the top of the ceethanizer bound to the compressor. The level is controlled in this vessel with a valve in the vapor line. As the level rises in this vessel it closes the valve in the vapor line creating a pas booket in the Rich Oil Flash that forces the oil back down.

Rich Oil Filter - Filters out some of the particles in the oil.

Side Stream Exactages - A flow controlies controls the amount of oil going to the top of the Deethenizer by opening or closing a valve coing to the side stream exchanger. By varying the flow to the top of the deethanizer, the flow is changed boing through this side stream exchanger, where it is heated up, at the same time cooling the oil coming back from the still.

Deethanizer — At the deschanizer one oil that soes into the woder section acts as a reflux to help hold in the heavier components of the Gases that are coming out the too as vapors to the compressor. This stream starts down the Deethanizer and meets the warmer stream coming in the side of the deethanizer and continues on down to the postom of the deathanizer. The temperature of the vapors off the too of the deethanizer are cartially controlled by the arount of oil that coes through the side stream exchanger. The deethanizer pressure is controlled by a valve in the vapor line off the top of the deethanizer.

The oil is sumped off or the ceethar-zer through two more exchangers (where it is heated up more) to the decimanizer bottom. The reason is is sumped is because there is a valor line from the deethanizer bottom into the deethanizer, therefore, both vessels run at the same pressure.

Deethanizer Bottom - When the oil that has been heated up more reaches this vessel it releases hot vapons that so through the vapon line into the deethanizer and go up the deethanizer nelocing to strip the oil that is coming down. The oil leaving the deethanizer bottom goes to the still feed bottom exchanger where it is heated up more and then goes into the upper section of the still.

Still - The oil does down the still and into the still bottom accumulator. It is then pumped to the heater where it is heated up and returned to the other side of the still bottom accumulator. There is a paffel in the accumulator that separates these two streams. The baffel is open at the top so the hot vapors from the oil that has been heated up can so back up the still to help strip product out of the oil that is coming down. Still pressure should run between 155 and 160 ps; and is controlled with a valve in the product vapor line.

Still Feed Bottom Exchancer - After the oil leaves the accumulation it loss through the still feed bottom exchancer. A terberature controller looks at oil temperature down stream of this exchanger and controls a valve that bytasses oil around this exchanger. Varying the temperature on this exchanger effects Desthanizer bottom temperature because the still feed bottom exchancer the notter that oil is. This in turn affects the temperature of the ceethanizer reboiler exchancer.

rean Uil surge lark - After the oil leaves the destranter reboiler and coes through two more exchangers and the fin Fam, Cooling down at each doing - through the oil to oil exchanger into the lean oil surge tank. From here it is pumped pack through the lean oil chiller. The lean oil flow is controlled with a controller at the lean oil chiller.

PROPANE FLOW

Propane Accumulator - After propane vapors have been compressed in compressor, and colled in fin fans, liquid and vapors to the accumulator. From the accumulator they do to the condenser.

Propane Condenser - Propane goes through this exchanger and is cooled with water to further condense vapors into liquid.

Propane-Residue Exchanger - Propane goes through this exchanger and is cooled further with the cool gas from the absorber. however, this exchanger is not used unless the propane is noticenthan gas from the absorber. This cociini is accomplished by partially closing the bypasses valve on the gas stream that bypasses the propane exchanger.

Product Chiller - Liquid propage is tabled at the product chiller with vapors point to the economizer.

Economizer - The lavel in the economizer is controlled with a valve upstream of the economizer. As the level cross in this vessel, the valve is opened up to built more liquid from the propane pas exchanger. Vapors that accumulate in the economizer are builted off and taken back to the compressor where they are run back through the high stace on compressor. The economizer has a high level switch on it that will ship cown the compressor if the liquid level sets too high in this vessel. Liquid propage does from here to the chillers.

bas and Uil Chillers - When the propage reaches the chillers the pressure is propped on it by bulking propage vapors off the top of the chillers. This flashing action of tours from liquid to vapors causes the chillers to cool down.

buction Scrubber - When the vacors leave the chillers they do to the suction scrubber. This scrubber has a switch on it that will shut the compressor down if it tills up with liquid. A took indication of this is frost on the bottom of the chiller are frost on the (Bull Horns). If this happens, the liquid can be warmed up and flashed off by cracking hot vacros off of the discharge side of the compressor back into the scrubber. This lime is not shown.

Compressor - Vacons are culted off of the too of the scrubber and run through the low stage cylinder. They then join the vacons from the economizer and are compressed through the high stage cylinder. The suction stage should be held to 8-10 beto more to have good flashing action in the chillers. This is controlled by starting and stopping propage for Sens and cooking tower fame.

Discharge bordoper - After the vacors are occoressed, they to the discharge scrubber. The level should be checked in this vessel once a day. It is dumbed manually.

BLYCUL FLOW

Gas-Glycol Separator - When gas glycol mixture coes into this vessel, the plycol talls out and settles in the pottom. Pressure then pushes it to the glycol glycol separator.

Glycol Glycol Exchanger — Here the plvcol leaving the separator is warmed up, while the plvcol noting to injection is cocked down. It then goes through the separator level control valve into the glycol preheater.

Glycol Preheater - Here the diycol is heated up to approximately 130 deprees F. by manually operating a valve in the not oil line. The valve is not shown. Then it does to the divcol condensate separator.

diyool Condensate becamator - In this vessel the pressure is dropped so the concensate that is mixed in with the diyool can separate and go but the top of the glycol condensate separator into the oil stream that is boin to the deethanizer. There is a paffel in this vessel that extends part of the way to. It hold the plycol in one section of this vessel so it can settle to the bottom. A level controller looks at the interface of these two liquid levels and controls glycol level.

Glycol Filters - When the glycol leaves the glycol concersate separator. it goes through the glycol filters to remove particle impurities.

Glycol Reboiler - After leaving the tlycol filters, the glycol goes to the glycol reboiler where it is heated to to 220 decrees, and the pressure is propped to atmosphere. The water that has been captured is released as steam and some concensate in this process.

Glycox Sunce tank - when the divided Leaves the reporter it does into the glycol sumpe tank where it is halo to be pumped back to the injection heads in the two sas cooling exchangers.

E. Affirmation

"I hereby certify that I am tamiliar with the information contained in and submitted with this application and that such information is thue, accurate, and complete to the best of my knowledge and belief."

ON W. DOWS

September 28, 1084

Jon W. Jones

Senior Staff Engineer

II PLANT PROCESS

- A. Sources and Suantities of Effluent and Process Fluids.
 - 1. Engine Cooling Waters

The plant utilizes two 550 horsebower compressors. The compressor engines are cooled by a closed loop (radiator) system. Ambitrol is used in the radiators for corrosion control. The compressors and engines are situated on a concrete pad surrounded by a raised curb. Any leakage is routed to the orain which is connected to a 11,000 ballon tank located northwest of the compressor building. Approximately 180 gallons of coolant (50% ambitrol - 50% water) is drained to this tank annually.

2. Cooling Tower

The plant uses four Delta cooling towers. Lach tower is 79 inches in diameter and 79 inches in headth with a capacity of 50 your each. These cooling towers are used to cool both the product and propage system. The cooling vater is treated with sulfuric acid (74PPM) and cordner A (300PPM) for Phane scale control respectively. Approximately 3360 GPD of make up water is used and approximately 1000 GPD of cooling tower blowdown is girected to an earther pit.

3. Separators (produced water)

As part of the process natural pas is convected with ethylene glycol to absorb moisture (water) from the natural pas. The glycol stream is regenerated to remove this water. Approximately 2 GPD are routed from the glycol reboiler to a 375 ballon fiberplass tank.

4. Bewage

The sanitary waste water is handled by a sepurc tank. The plant is staffed by two people during the day shift and two people during the evening are night shifts. Based on water usage data found in Design manual — Oncide wastewater Theatment and Disposal Systems". Usage b4. sanitary water usage is 32 dalions/person/day. With one third day occupancy car person, the total usage is estimated at 42 callons per day. Since the sanitary weste stream is not comminded with other streams, the sanitary waste discharge is exempt from the discharge plan review under Section 3-105 Part B of the WGCC regulations.

5. Product Treating

A caustic wash is used to remove hydroten sulfide and or Methyl and ethyl mercaptans from the product stream. Edual volumes of product and recirculated caustic are mixed and discharged into a caustic settling tank. This caustic system is a non-repenerative patch process. Cleaning up the product pradually uses up (stends) the caustic. The used (spent) cautic is stored in a 210 barrel (B820 pallons) tank. Caustic use amounts to approximately 5000 gallons of 50 percent caustic in water annually. The spent caustic is removed by Acwland Trucking for disposal in an injection well.

8. Natural was Condensate (Dris)

The incoming stream of natural gas has cuantities of condensate commonly referred to as only or natural gasolines. This condensate is precominately nabthal and is removed and stored in the drip tank. This concensate is removed from the plant by Tec True Trucking Company. It is sent to local refinences for accitional processing.

7. Other - Usec Endine Cils

The used entities of the are disposed in the same manner as entities continuous waters discussed earlier. Approximately 1200 callons of oil are drained to the holding tank and removed from the plant by Rowland Inucking for disposal in an intection well.

B. Quality Characteristics

The colling tower blowdown is the only effluent being discharged directly upon the around. All other effluents are contained and discosed in an injection well therefore only the cooling tower blowdown was analysed per Section 3-103 Farts S. B and C of the WGCC reculations.

The cooling tower blowdown was a grab sample. The sample was sent to Controls For Environmental Pollution, Santa Fe, New Mexico. The sample was preserved per instructions from the above firm.

C. Transfer and Storage of Effluents and Process Fluids

Gee figure A and the Plot Plan for the water arc wastewater flow schematics respectively.

D. Spill/Leak Prevention and Housekeeping Procedures

Areas within the plant where leakage has historically occured such as level sight plasses, valves, lean oil pumps have containers underheath to contain any spills. These containers are dumbed into the 11,000 gallon drip oil storage tank. The compressor building is curbed and has grains to the waste oil tank.

The caustic bath area currently has a butter out does not contain a curb. Future modifications are discussed later in this report.

Pl. effluent except cooling tower plowdown are contained in tanks. Above pround tanks are carbon steel and are monitored for leakage daily. Two below dround tanks for plycol repoller condensate and spent caustic at the product tanks are floerplass. Luantities in these tanks are observed daily. The plycol repoller concensate amounts to 2 600 which evaporates. The spent caustic is removed with the main spent caustic raterial.

in the event the disposal injection well is closed for any reason the effluent containment tanks are large enough to hold a years supply from the tlant.

All but two lines going to the efficient storage tanks are PVU plastic to guard against corresion. The other line is wrapped steel.

The OCO will be notified on an annual basis the total wastewater volume injected and any occurrence of leakage in the containment vessels.

ITE EFFLUENT DISPUSSE

A. Existing Coerations

1. On-date Facilities

The area around the caustic wash system has a purter system with the drain coind to the flare bit. This area is washed down monthly with an estimated flow of 20 pallons per month going to the flare bit.

During the annual plant soutdown (April 1985) the above drain system will be recessioned. The design will include a sumb and sumb bumb to move this effluent to the spent caustic storage tank.

The cooling tower blowcown is routed to an earther bit. This flow is approximately 1000 GPJ.

2. Off-Bive Disposal

Waste oils and scent caustic are removed from the plant by Rowland Trucking. These effluents are injected into a class II injected well coerated by Unichem International, Inc.: P.J. Box 1149, Hobbs, New Mexico. See Appendix for additional data on injection wells.

After caustic wasning the product some spent caustic is carried over to the product storage tanks. Inis caustic is drained off the product tanks into a fiberplass tank located in the scuthwest part of the plant. This spent caustic is removed by vaccum truck with the other spent caustic material.

the plycol resolver concensate is routed to a fiberglass storage tank located in the northwest part of the plant. The concensate flow rate is 2 GPD which evaporates.

Fig. solid wastes are removed weakly from the clark by a private contractor.

Proposes Acquricestons

The only proposed requifications will be the caustic wash chain system.

IV SITE CHARACTERISTICS

A. Hydrologic Features

There are no codies of water within one mile of the plant. The closest (1-1/4 miles) is a domestic stock well located in the NE 1/4 \odot \times 1/4. Section 3. Township 20 South. Range 28 East NMP.

An analysis of the waver from the above comestic stock was analysized by Controls for Environmental Pollution - Santa Fe. New Yexico.

B. Geologic Description of Discharge bite

The plant is located in the Alachan Hills. This area has sectmentary surfficial deposits of alluvium of stream and valuey cottom.

U. Ficoding Protection

The plant is located approximately 2-3/4 miles east of Lake Avalon and is approximately /O feet hitner in elevation. The topography of the clant is such that runorf would be towards the northeast.

V ADDITIONAL INFORMATION

In additional to the analysis of the coollyb tower blowdown and the above mentioned domestic stock well, a third sample, plant feed water. was analysized. These analysis were conducted by Controls for Environmental Pollution, Inc., 1925 Rosina Street, Santa Fe. New Mexico 87508. See Appendix for preservatives in each sample.

The Plant feed water is substiled by the City of Carlsbad.

APPENDIX

Unichem International, Inc. P. O. Box 1149 Hobbs, New Mexico 88240

General information:

Springs Unit Salt Water Disposal Well

Location:

Unit Letter I, 1650' from the South line and 754' from the east line; Section 27, Township 20 South, Range 26 East.

Bone Springs Formation
Elevation 3221' GL

Converted plugged and abandoned well to Salt Water Disposal Service as authorized by New Mexico Oil Conservation Commission Order No. SWD-86

Proceedure:

Drill out cement plugs, cut off 13 3/8 & 8 5/8 casing. Insert casing nipple and 8 5/8 head. Drilled out to 4580', ran tubing to bottom. Ran Guiberson type AF tension packer on 85 joints of 2 3/8 OD EUE 8rt 4.70# J-55 tubing with PA-600 plastic coating. Bottom of packer set at 2661'. Completed conversion 12-12-68.

Administratine #
instead Jan R. #
R#

- (4) That the State Engineer has designated, pursuant is Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all unlerged undwater in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against containing ination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.
- (5) That the applicant, Unichem International, Inc., seeks as an exception to the provisions to the aforesaid Order (3) to permit the commercial disposal of produced brine into make all unlined surface pits (natural salt lakes) located in Section 2, Township 23 South, Range 29 East, EMPM, Eddy County, New Maxico.
- (6) That the applicant proposes to dispose of up to 2000 barrels of salt water daily at company facilities located in the NW/4 of said Section 2, such salt water being hauled by Unichem or Unichem subsidiary trucks only.
- (7) That there appears to be no shallow fresh water in the vicinity of the subject pits for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination from the subject pits.
- (8) That the area of the salt lakes is sufficient to provide for evaporation in excess of the volume of salt water proposed for disposal (up to 2000 barrels of water per day).
- (9) That the disposal facility should consist of skim tanks, surge tanks, aeration tanks, skim oil storage tanks and a header pit all being of sufficient size and capacity to prevent the movement of any oil or solids onto or into any of the salt lakes affected by such disposal.
- (10) That if the applicant fails to prevent the movement of such oils or solids onto or into any of said salt lakes, the Director of the Division should be empowered to administratively suspend or rescind the authority for use of such lake for salt water disposal.
 - (11) That this application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Unichem International, Inc., is hereby granted an exception to Order (3) of Division Order No. R-3221, as amended, to dispose of up to 2000 barrels of salt water per day collected by its or its subsidiaries' trucks

in a commercial salt water disposal facility located in the HW/4 of Section 2, Township 23 South, Range 29 East, MMEM, Eddy County, New Mexico.

- (2) That prior to disposal of any water at said facility, the applicant shall install skim tanks, surge tanks, aeration tanks, and skim oil storage tanks and shall construct a header pit all of combined size and capacity sufficient to prevent the movement of any oil or solids from the facility onto or into any natural salt lake or ground surface which may be affected by the disposal operation.
- (3) That upon completion of such installation and construction the applicant shall notify the supervisor of the Division's district office at Artesia in order that the Division may inspect said facility.
- (4) That the Director of the Division may by administrative order suspend or rescind such authority whenever it reasonably appears to the Director that such suspension or rescission would serve to protect fresh water supplies from contamination or if the applicant should permit the movement of oil or solids onto the ground surface or any natural salt lake as prohibited by Order No. (2) above.
- (5) The applicant shall file a monthly report of disposal volumes on Form C-120-A in accordance with Division Rule 1120.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

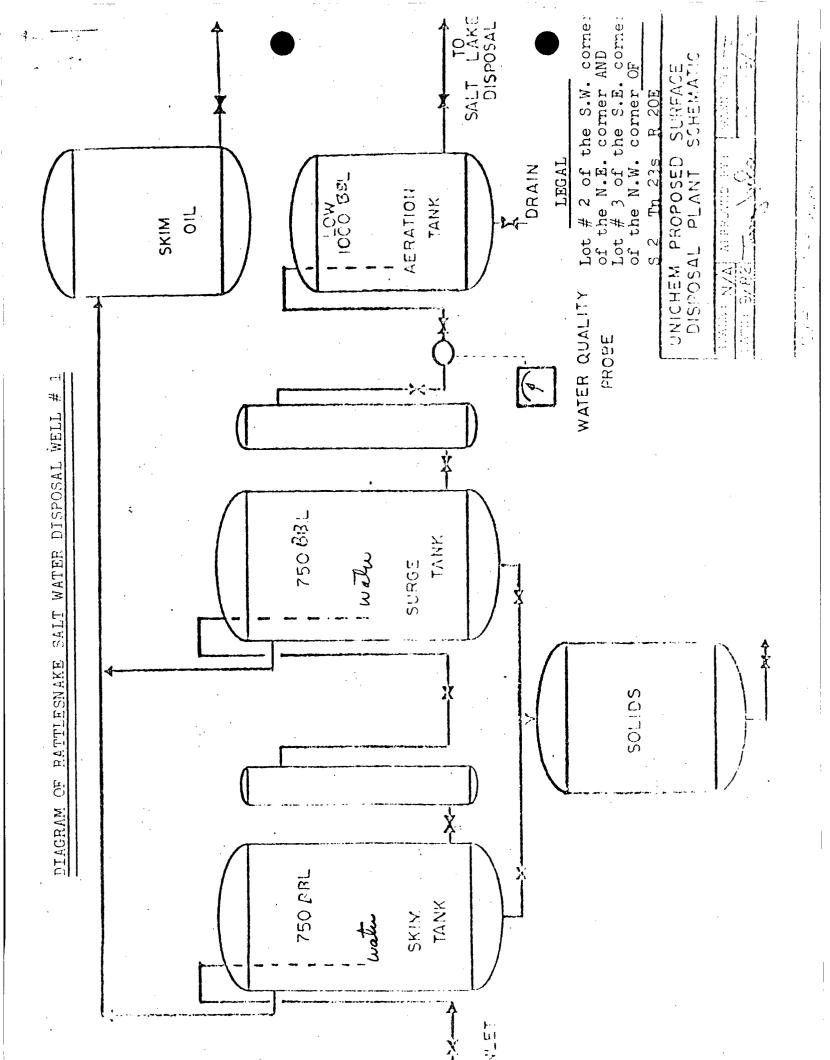
DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO

ON CONSERVATION DIVISION

JOE D. RAMEY

Director





TONEY ANAYA GOVERNOR

September 14, 1984

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Mr. John Jones Gas Company of New Mexico 311 Moore Drive Carlsbad, New Mexico 88220

> Re: Gas Company of New Mexico

Avalon Gas Plant

Dear Mr. Jones:

Enclosed as you requested is a copy of the New Mexico Water Quality Control Commission Regulations.

Part 3 of the regulations controls discharges onto or below the surface of the ground that may impact ground water. If the discharge may move directly or indirectly into ground water, the person causing or allowing the discharge must have an approved discharge plan unless specifically exempted by the regulations.

Also enclosed are draft guidelines for preparation of ground water discharge plans at natural gas processing plants. At this point they should be used as a guide to the type of information OCD desires to be included in a discharge plan. Final guidelines will not be ready before late fall.

Since I will be out of the office until October 24, I will not be able to act on any application or be available to answer questions until after that date.

Sincerely,

D. G. BOYER

Hydrogeologist

DGB/fd

cc: Artesia Field Office



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION



1935 - 1985

TONEY ANAYA

August 14, 1985

POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING
SANTA FE. NEW MEXICO 87501

43 29 153

ERRATA

The attached public notice was not sent to persons who had requested to be notified of the filing of a discharge plan with the Director of the Oil Conservation Division. The public notice was published in mid-July as required in state newspapers, and affected governmental bodies were notified.

Because notification had not been given to those persons requesting it, the 30-day public comment period will remain open until September 16, 1985.

DAVID G. BOYER

Environmental Bureau Chief



AUG 1 5 1985

MOSES, DUNN, BECKLEY,



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION



1935 - 1985

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501 (505) 827-5800

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission regulations, the following discharge plan has been submitted for approval to the Director of the Oil Conservation Division, P.O. Box 2088, State Land Office Building, Santa Fe New Mexico 87501 (505) 827-5800.

Gas Company of New Mexico, Avalon Gas Processing Plant (SE/4 Section 9, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico), J. Jones, Authorized Agent, 311 Moore Drive, Carlsbad, New Mexico 88220, proposes to modify its existing facility by eliminating and closing an existing unlined evaporation pond, and disposing of approximately 1,000 gallons per day of cooling tower blowdown water into two steel above ground storage tanks with a total combined capacity of approximately 17,000 gallons. The water will be periodically transported to OCD approved waste disposal facilities. Liquid waste from other process vessels is currently stored in tanks and periodically transported to approved disposal and/or treating facilities. The cooling tower blowdown water has a total dissolved solids concentration of approximately 2600 mg/1. The groundwater most likely to be affected in the plant vicinity is at a depth of approximately 80 feet with a total dissolved solids of approximately 1100 mg/1.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and a public hearing may be requested by aninterested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed plan based on information available.

If a public hearing is held, the Director will approve or disapprove the proposed plan based on information in the plan and information submitted at the hearing.

GIVEN Under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 10th day of July, 1985.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

R. L. STAMETS

Director

SEAL

GAS COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT



10 May 1984

Mr. Joe D. Ramey, Director Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe. N.M. 87501

Dear Mr. Ramey,

Enclosed is El Paso Natural Gas Company's Discharge Plan and the correspondence file on Gas Company of New Mexico. Both of these items will aid me in preparing our discharge plan.

It would also be very beneficial if you could send me a copy of the New Mexico Water Quality Control Commission Regulations.

Again thank you for the use of the material.

Yours very truly,

Jon W. Jones

Senior Staff Engineer

Enclosures (2)

JWJ/mj

cc: file



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA

March 9, 1984



Mr. James G. Townsend Gas Company of New Mexico 311 Moore Drive Carlsbad, New Mexico 88220

Dear Mr. Townsend:

I have reviewed your proposed discharge plan for your Avalon Processing Plant and find the plan inadequate in the following:

- 1. Description of plant process.
- 2. Description of all chemicals used in the process.
- 3. Geological and hydrological description of the ground water in the area with source of water to plant and an analysis of the ground water for quality background.
- 4. Drawing of plant drainage system if present.
- 5. Description and drawing of disposal system (tank and lines to tank) and statement of where final disposal will be.
- 6. Disposition of solid wastes generated at the plant and disposition of same.
- 7. Monthly or yearly volume of each waste water stream (waste water, caustic, oil pit).
- 8. Description of what is used in engine jackets and disposition of same.
- 9. Flooding potential.

Page 2 Letter to James G. Townsend March 9, 1984

Please submit this information by October 1, 1984, and when these areas have been satisfactorily addressed, your discharge plan can be approved.

Yours very truly,

JOE D. RAMEY Director

JDR/fd

CAS COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

OIL CONSERVATION DIVISION
SANTA FE

November 17, 1981

Mr. Oscar Simpson
State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2008
Santa Fe, New Mexico 87501



Dear Mr. Simpson:

Responding to your request for a plan that outlines our efforts to control the effluent discharge from our Avalon Processing Plant, we submit the following material.

Attached is a schematic representing the process plant, the plant facilities, and our effluent discharge facilities. Those facilities shown on the plan in red ink are those that we propose to install to move the effluent from the three sources, the caustic bath, the water cooling towers, and the building that houses the compressors, to a common holding tank via a four-inch plastic gathering line. As outlined in previous conversations, the quantity of effluent from these three sources amounts to approximately 600 gallons per month. We propose to pipe these three sources of effluent to a common location where it will be held awaiting further disposal. This common storage point will be a 210 barrel tank. This tank is of standard oilfield construction, being 10 ft. in diameter, 15 ft. tall, 3/16" steel walls, 1/4" steel top and bottom, with appropriate safety stairs, venting, and unloading facilities.

We have contacted a local trucking firm and find that we have access to a certified disposal well which is the Spring Unit Disposal, Unit Letter I. This well is located 1650 ft. FSL, 754 ft. FEL, Section 28, Township 20 South, Range 26 East.

By using the trucking firm we will be able to maintain records showing those dates that we have had effluent removed and have copies of the bills of lading for those quantities of effluent which the firm has moved to the certified disposal well.

Provisions have been made, pending your approval, to implement this plan so we may be in compliance with the laws of the State of New Mexico.

November 17, 1981 Page Two

Thank you very much for your help and consideration. We anticipate hearing from you soon.

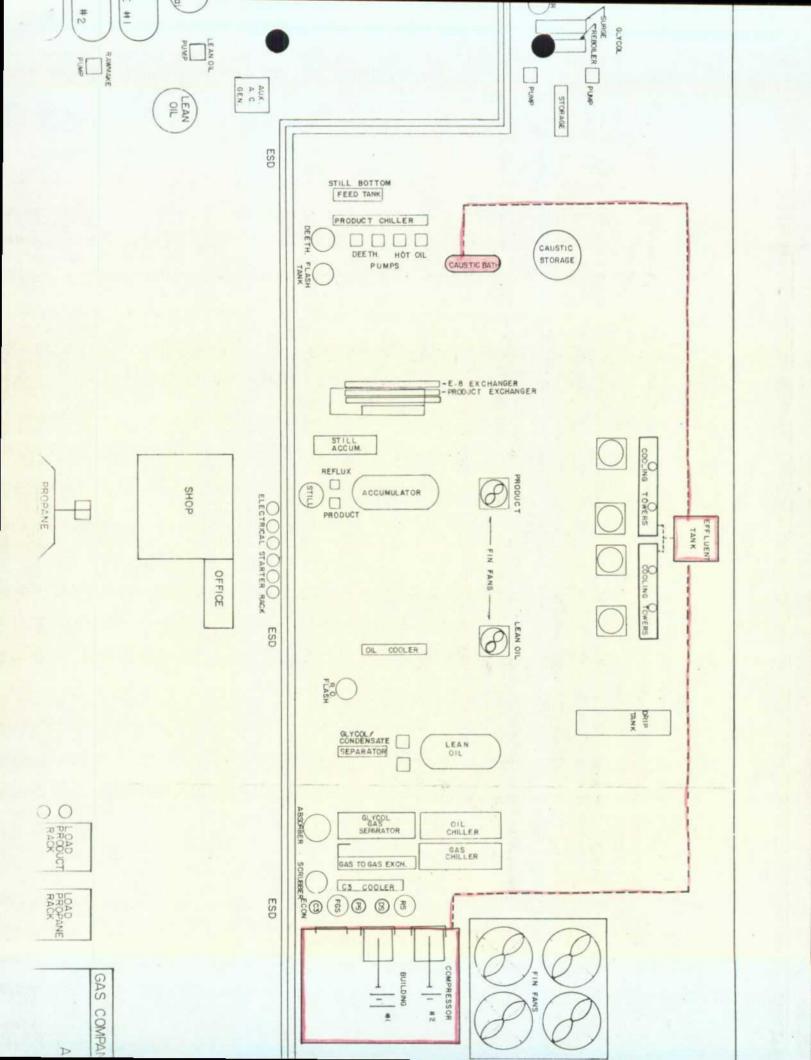
Very truly yours,

James G. Townsend

Plant Supervisor

JGT:mh Enc.

cc: Graham E. Evans - Dallas David J. Davis - Carlsbad

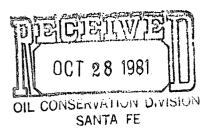


October 28, 1981 Gas Company of New Mexico 311 Moore Drive Carlobad, NM 88220 ATTENTION: David J. Davis RE: Discharge Plan for Avalon Plant Doar Sir: Pursuant to your letter of October 27, 1981, requesting an extension of time for the Avalon Plant Discharge Plan, the Oil Conservation Division hereby grants your extension. The Avalon Discharge Plan due date is extended to December 28, 1981. If you have any questions on this matter, please call met at (505) 827-2534. Sincorely, Oscar A. Simpson, III Water Resource Specialist OAS/dp

GAS COMPANY OF NEW MEXICO

DAVID J. DAVIS, P.E. DISTRICT VICE PRESIDENT

October 27, 1981



Mr. Oscar Simpson
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2008
Santa Fe, New Mexico 87501

Dear Mr. Simpson:

Pursuant to our conversation of October 26, 1981, I hereby request a thirty-day extension on behalf of our company. This will allow us to properly prepare a waste discharge plan for the Avalon Processing Plant facilities and be in compliance with the laws of the State of New Mexico.

Thank you very much for your help and consideration. I am looking forward to hearing from you soon.

Very truly yours,

David J. Daviš

District Vice President

DJD:mh

cc: Graham E. Evans - Dallas James G. Townsend - Carlsbad GAS COMPANY OF NEW MEXICO

Ofer 22'rg



DAVID J. DAVIS, P.E. DISTRICT VICE PRESIDENT

October 13, 1981

Mr. Oscar A. Simpson Water Resources Specialist Energy & Minerals Department P. O. Box 2008 Santa Fe, New Mexico 87501

Re: Discharge Plan for Avalon Plant

Dear Mr. Simpson:

Enclosed is a chemical analysis of waste water, caustic and oil effluent from the Avalon Plant. As you can see, the standards set in Section 3-103 are met except with regard to chloride, iron and TDS.

In lieu of preparing a complete discharge plant, Gas Company of New Mexico requests that it be permitted to install concrete holding receptacles for the caustic and oil effluent for collection and disposal in an approved manner.

Very truly yours,

David J. Davis

District Vice President

DJD:mh Att.

cc: Walter F. Bohls
Graham E. Evans
James G. Townsend

MOBILE ANALYTICAL LABORATORIES & SOLAR ENERGY TESTING P.O. BOX 6771 ODESSA, TEXAS 79762 PHONE 337-4744

SEPTEMBER 23, 1981

MR. ED JOHNSON
A.C.C.O., INC.
3040 LAKEVIEW DRIVE
ODESSA, TEXAS 79762

MR. ED JOHNSON:

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.2 MA

pamala

THE FOLLOWING ARE THE RESULTS OF THE TESTS ON THE SAMPLES RECEIVED 9-16-81, LAB NO. 1179-1181:

	WASTĖ WAI LAB NO.		09015	CAUSTIC- LAB NO.	#109016 1180	OIL PIT-	
METALS							
, os MAG	4.05	MG/L		<.05	MG/L	<.05	MG/L
so val	<5.0	MG/L		<5.0	MG/L	<5.0	MG/L
.01 VAS	<0.1	MG/L		<0.1	MG/L	<0.1	MG/L
. 05 CR	<05	MG/L		<.05	MG/L	<.05	MG/L
· 63 VCLI	<1.0			<1.0		<1.0	MG/L
O OFE	<1.0				MG/L X		MG/LX
LE VNI	40.2			<0.2		<0.2	
10.0 0 ZN	‡i0	MG/L		<10	MG/L	<10	MG/L
CATIONS							
NA	175	MG/L				1139	MG/L
CA	200						MG/L
MG		MG/L					MG/L
	409						
	401						
ANIONS	I .						
250 VEL	- 284	MG/L		284	MG/LX	1846	MG/L X
600 0004		MG/L		30	PPM	150	MO/L
HC03	122	MG/L	SI	PECIFIC C	ONDUCTANCE	24	MG/L
	.75(8) 906						
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MOBILE ANALYTICAL LABORATORIES & SOLAR ENERGY TESTING P.O. BOX 6771 ODESSA, TEXAS 79762 PHONE 337-4744

SEPTEMBER 23, 1981

PAGE 2

		WASTE WATER-#109015 LAB NO. 1179	CAUSTIC-#109016 LAB NO. 1180	OIL PIT-#109014 LAB NO. 1181
1000	TDS	1315 MG/L 🗡	275,025 MG/L 🗡	3262 MG/L⊁
6-9	PH	4. 5	12.9 X	4.9 X
	SP.GRAV.	1,0013		1.0013
10	IRON	1.0 MG/L	2.0 MG/L≯	3.2 MG/L≯
	H2S	0		o
	C02	5 MG/L		88 MG/L
	P-ALK.	· o		O
	M-ALK.	ioo MG/L		20 MG/L
	TOTAL HARDNESS	\$40 MG/L		300 MG/L

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

WALTER REID

Walter Reid

WR/BS

GAS COMPANY OF NEW MEXICO PERMIAN PIPELINE DISTRICT

September 17, 1981





State of New Mexico Energy & Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Oscar A. Simpson, Water Resources Specialist

Gentlemen:

As per our conversation yesterday, I would like to submit application for an additional 60 day extension as to our expected reply to you on analysis of effluents (caustic solution and oil effluent) from our Avalon Gasoline Plant.

As you must be well aware, those analyses are quite complex and time consuming to lab technicians that have the ability and equipment to properly conduct the required chemical analysis.

We plan to fully submit the analysis and a water disposal plan as required as soon as possible.

If you have any questions, please feel free to contact me at any time.

Respectivity

James G. Townsend Plant Supervisor

JGT:mh



COVERNOR LARRY KEHOE

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



August 19, 1981

Gas Company of New Mexico First International Building Dallas, Texas 75270

Attention: Graham E. Evans

David J. Davis

Discharge Plans for Re:

Avalon Plant

Gentlemen:

Pursuant to the letters of July 20, 1981 by Mr. Evans and Mr. Davis acting on behalf of Gas Company of New Mexico, the Oil Conservation Division finds that Gas Company of New Mexico does not qualify for an exemption from the Discharge Plan requirements under the provisions of Section 3-105 (A).

The Oil Conservation Division denied your request on the grounds that no chemical analysis was submitted of the caustic solution or the oil effluent from the Avalon Plant. Testimony by David J. Davis is inadequate and not applicable in this case. The discharge of a caustic solution into a flare pit and oil effluent into an open pit is considered waste water effluent; which directly or indirectly may move into the ground water table in the plant area.

The Oil Conservation Division requests that Gas Company of New Mexico submit a chemical analysis of the caustic solution and oil effluent of Avalon Plant and should be tested for those elements as listed in Section 3-103 (A, B, and C) of Part 3 Water Quality Control. Also under Section 3-106 "Application for Discharge Plan Approval" and Section 3-105 (A) under the revised "Water Quality Control Commission Regulations" WQCC 81-2 which supersedes WQCC 77-1 and amendments thereof, Gas Company of New Mexico must consider "toxic pollutants" as defined and listed in Part I (X), pages 4, 5, and 6. If Gas Company of New Mexico persists on exemption to the Discharge Plan under Section 3-105, then chemical analysis for toxic pollutants must be submitted in conjunction with chemical analysis for elements listed in Section 3-103.

Enclosed is a copy of the revised Water Quality Control Commission Regulations WQCC 81-2. A 30 day extension will be granted to Gas Company of New Mexico to reply and submit the required chemical analysis. Collection preserving and analysis of the waste water effluent shall be done in accordance with Section 3-107 (B) of the WQCC. If evidence reveals that collection, preserving, and analysis of the waste water effluent was improperly done the process shall be completely redone. Written documentation of some manner should be coordinated with this analysis request.

If you have any questions on this manner please call me at 505-827-2534.

Escor a. Sempson H

OSCAR A. SIMPSON

Water Resources Specialist

OAS/jc

CAS COMPANY OF NEW MEXICO



August 3, 1981

David J. Davis
Gas Company of New Mexico
311 Moore Drive
Carlsbad, New Mexico 88220

Re: Petition for Exemption from Water Quality Control Regulations at Avalon Plant.

Dear Dave:

Attached is a copy of the Petition and Affidavit prepared for the exemption from the Water Quality Control Commission Regulations pursuant to Section 3-105 thereof for the Avalon Plant.

Please sign the Petititon and Affidavit and have them notarized before forwarding to the Oil Conservation Division of the Energy and Minerals Department. No filing fee applies to this Petition.

Sincerely,

Graham Evans

GE/bwl

Attachment

cc: Walter F. Bohls

AUG 1 1 1981

OIL CONSERVATION DIVISIONS
SANTA FE

BEFORE THE OIL CONSERVATION DIVISION ENERGY AND MINERALS DEPARTMENT OF THE STATE OF NEW MEXICO July 20, 1981

In the Matter of Gas Company)
Of New Mexico Petition)
for Exemption from)
Water Quality Control)
Commission Regulations)

To the Director of the Oil Conservation Division:

COMES NOW, Gas Company of New Mexico, First

International Building, Dallas, Texas 75270 ("Company"),
and petitions the Oil Conservation Division, Energy and

Minerals Department of the State of New Mexico as follows:

I.

Gas Company of New Mexico requests exemption from the filing of a Discharge Plan, as required by Section 3-104 of the Water Quality Control Commission Regulations, WQCC 77-1, Amendment No. 2 May 27, 1980, ("Regulations") for the Company's Avalon Plant, located in Carlsbad, New Mexico ("Plant").

II.

No waste water effluent is discharged from said plant. The discharge from the Plant consists of not more than 1,700 gallons of caustic solution and not more than 750 gallons of oil effluent from engines and compressors annually. The caustic solution is deposited into a flare pit and burned off. The oil effluent drains into an open pit and is later removed by vacuum truck to a certified disposal well.

III.

The Company is entitled to an exemption from the Discharge Plan requirements of Section 3-104 of the Regulations under the provisions of Section 3-105(A) since the discharge from the plant conforms to the numerical standards listed in Section 3-103 of the regulations.

IV.

The Company, by affidavit attached hereto and incorporated herein by reference for all purposes, attests that there is no waste water effluent discharged from the plant and the effluent or leachate existing at the Plant conforms to all the listed numerical standards of Section 3-103 and has a total nitrogen concentration of 10mg/l or less.

V.

For the reasons above stated, Gas Company requests the exemption from filing a Discharge Plan provided for in Section 3-105(A) of the regulations.

Respectfully submitted,
GAS COMPANY OF NEW MEXICO

GRAHAM E. EVANS

Attorney for Petitioner 1800 First International Bldg. Dallas, Texas

AFFIDAVIT

I.

I, David J. Davis, District Vice President-Transmission for the Gas Company of New Mexico and a certified professional engineer, being first duly sworn, state that I have read and understand the maximum allowable contaminant concentration levels for ground water as listed in Section 3-103 of the Water Quality Control Commission Regulations, WQCC 77-1, Amendment No.1, May 27, 1980.

II.

I further state that I have personal knowledge of the effluent disposal system at Gas Company of New Mexico's Avalon Plant in Carlsad, New Mexico, and that there is no waste water effluent and that the oil and caustic solution discharged at the Plant do not exeed any of the maximum allowable contaminant concentration levels specified in Section 3-103 of the Regulations. The caustic solution is burned off and the waste oil is removed and disposed of in a certified disposal area.

IN WITNESS WHEREOF, I hereto set my hand.

David J. Davis

GAS COMPANY OF NEW MEXICO

311 Moore Drive

Carlsbad, New Mexico 88220

STATE OF New Mexico)
)
COUNTY OF Eddy
On this 6th day of August , 19 81 , before me per-
sonally appeared David J. Davis to
me known to be the person(s) described in and who executed
the foregoing instrument and acknowledged thathe
executed the same as his free act and
deed.
IN WITNESS WHEREOF, I have set my hand and seal of
office on this 6th day of August , 19 81 .
$\mathcal{N}_{\bullet} \rightarrow \mathcal{N}_{\bullet} / L_{\bullet}$
Notary Public in and for
Eddy County, New Mexico
My Commission Expires:
8/16/83
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BRUCE KING GOVERNOR LARRY KEHOE STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISIONS TEN

POST OFFICE BOX 2088 ATE LAND OFFICE BUILDING TA FE, NEW MEXICO 87501 CNSERVATION DIVISION (505) 827-2434

July 15, 1981

Gas Company of New Mexico 311 Moore Drive Carlsbad, New Mexico 88220

Attention: David J. Davis

Reason: Discharge Plan GCM's

Avalon Plant

Gentlemen:

In response to your letter of July 8, 1981, the Oil Conservation Division feels that your request to be exempted from the Discharge Plan requirement under Section 3-105 (A) of the Water Quality Control Comission Regulations is invalid.

In order to be exempted you must submit a chemical analysis of your combined waste water effluent which conforms to all the listed numerical standards of Section 3-103 (A, B, C) and has a total nitrogen concentration of 10 mg/l or less.

If you have any questions on this matter or need additional clarification please call me at 505 827-2534.

Sincerely,

OSCAR O. SIMPSON III Water Resources Specialist

OS/og



July 8, 1981

Mr. Joe P. Ramey Division Director Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Re: Discharge Plan, GCNM's Avalon Plant

Dear Mr. Ramey:

Your letter of April 7, 1981, requesting a Discharge Plan for GCNM's Avalon Plant has been received. The only discharge from the Avalon Plant consists of not more than 1,700 gallons of caustic solution annually which is discharged into a flare pit and approximately 750 gallons of motor oil annually which is discharged into a pit. motor oil is subsequently picked up by a vacuum truck for disposal in a certified well.

Under these facts, we believe the Avalon Plant is entitled to exemption from the Discharge Plan requirement under Section 3-105(A) of your regulations. I would appreciate your advising me whether it would be necessary to file a journal request for exemption.

Very truly yours,

Davidf. Davis dom

David J. Davis

DJD:scj

Carlebod office \$ 505 885 8082 Mr. Nisere 311 more arise

88220



STATE OF NEW MEXICO

ENERGO AND MINERALS DEPAREMENT

OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE

SECRETARY

June 8, 1981

AVALONPLANT

Southern Union Company First International Building Dallas, Texas 75270

Attention: Mike Morrissey

Gentlemen:

In response to our telephone conversation of June 8, 1981, I am enclosing a copy of the Water Quality Control Commission Regulations, and the Specification for the Design and Construction of Lined Evaporation Pits.

The discharge plan should be comprehensive and specific and should cover all discharge of effluent and storage thereof at the plant site or adjacent to the plant site.

The discharge plan should be prepared in accordance with Part 3 of the Regulations and within the time frame of Section 3-106A of the regulations unless an extension of time is sought and approved.

If there are any questions on this matter, please do not hesitate to call me at 505-827-2533.

Sincerely,

OSCAR A. SIMPSON Water Resource Specialist ELNEW MEXICO 87501

OSog



BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

STATE OF NEW MEXICO



ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

April 7, 1981



Mr. Dave Davis Gas Company of New Mexico 311 Moore Drive .. Carlsbad, New Mexico 88220

> Re: Request for Discharge Plans

Dear Mr. Davis:

Under provisions of the regulations of the Water Quality Control Commission you are hereby notified that the filing of discharge plans for Gas Company's Avalon Plant (9-21S-27E) is required. Discharge plans are defined in Section 1-101.1 of the regulations and a copy of the regulations is enclosed for your convenience.

These plans should cover all discharge of effluent at the plant sites or adjacent to the plant sites. Section 3-106A. of the regulations requires submittal of the discharge plans within 120 days of receipt of this notice unless an extension of this time period is sought and approved.

The discharge plans should be prepared in accordance with Part 3 of the Regulations. Due to a recent court decision references to "toxic pollutants" may be ignored.

If there are any questions on this matter, please do not hesitate to call me or Oscar Simpson at 827-3260. Mr. Simpson has been assigned responsibility for review of all discharge plans.

Very truly yours,

Que august 7 + 1981

JOE D. RAMEY Division Director

JDR/OS/og

Oil Conservation Division - Hobbs