

GW - 16

**GENERAL
CORRESPONDENCE**

YEAR(S):

1989-1980

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

May 9, 1989

CERTIFIED MAIL
RETURN RECEIPT NO. P 106-675-527

Mr. Michael D. Ford
PHILLIPS 66 NATURAL GAS COMPANY
4001 Penbrook
Odessa, Texas 79762

RE: Discharge Plan GW-16
Eunice Gas Plant
Lea County, New Mexico

Dear Mr. Ford:

The Oil Conservation Division (OCD) has received and is in the process of reviewing the above referenced discharge plan renewal application. The application, dated April 12, 1989, was received by the OCD on April 13, 1989. The following comments and requests for additional information are based on the review of the application and observations during the OCD site visit on November 30, 1988.

Part II Plant Water Systems

Section E states engine jacket cooling water is pumped out of a fiberglass lined cement sump. Submit a plan for integrity testing for this sump. Leak detection will be installed at the time of repair or replacement of this sump.

Part III Plant Drain and Disposal System

Section A states that "spent" lube oil is drained to below grade sumps at both the new and oil power rooms. What time frame is the lube oil held in these sumps prior to being pumped to the slop oil tank. Submit a plan for the integrity testing of these sumps. Any sumps that are designed to collect fluids must be equipped with leak detection. Leak detection will be installed at the time of repair or replacement of these sumps.

Part IV Solid Waste Disposal

Section B and C state spent molecular sieve and spent precoat material are disposed of on site. Specifically, how and where are these materials disposed of at the plant.

Miscellaneous

1. The OCD requires the paving and curbing of process and storage areas where leaks or spills can occur. The purpose of this requirement is to contain and prevent migration and infiltration of any spilled or leaked materials that may contaminate the environment. The following is a list of those areas where leaks or spills were observed during the site inspection:
 - a. The expander was leaking oil on the ground.
 - b. The amine pumps, under repair at the time, were leaking.
 - c. The glycol regenerator water drain was plugged.
 - d. The product pumps had oil running off the pads.
 - e. The booster "C" pumps had oil leaking off the pads.
 - f. The solar turbine building had a good pad but there was evidence of leaks, spills and rinsing of wash water on the ground around the building.
 - g. The solvent storage area had evidence of spills and leaks on the ground.
 - h. The oil/water separator tank had overflowed.

Submit a completion schedule for paving and curbing the above areas and any other areas where leaks or spills can occur. This schedule must include all drum storage areas.

2. Berming of Tanks

The OCD is requiring that above grade tanks that contain materials with constituents that can be harmful to fresh water and the environment, if a sudden and catastrophic spill were to occur, must be contained at the site of the spill and mitigated immediately. Containment in a small area at the tank site allows for maximum recovery of fluids and small volumes of contaminants available for

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- Complete Items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

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MAY 18 1989

OIL CONSERVATION DIV.
- SANTA FE



PENALTY FOR PRIVATE USE, \$300

RETURN

TO



Print Sender's name, address, and ZIP Code in the space below.

OCD

310 Old Santa Fe Trail

Santa Fe, NM 87501

Mr. Michael D. Ford
May 9, 1989
Page -3-

infiltration. Without berming, the rupture of a tank will spread its contents over a large area minimizing the amount that can be recovered and increasing the surface area of contaminated soil available to leach contaminants. All tanks that contain these types of materials must be bermed to prevent migration of the fluids and decrease the potential for infiltration. Therefore a commitment and completion schedule is required for the berming of vessels that contain fluids other than fresh water. The bermed areas shall be large enough to hold one-third more than the volume of the largest vessel or one-third larger than the total volume of all interconnected vessels contained within the berm.

If you have any questions, please do not hesitate to call me at (505) 827-5884.

Sincerely,



Roger C. Anderson
Environmental Engineer

RCA/sl

cc: OCD Hobbs Office

RECEIVED

June 15, 1989

JUN 29 1989

OIL CONSERVATION DIV.
SANTA FE

To: D. Van De Graaff
From: Dale Fisher
Subject: OCD Environmental Requirements

Further to our conversation of June 10, 1989, in your office, the requirements that are of such concern to Phillips are quoted as follows: "The OCD requires the paving and curbing of process and storage areas where leaks or spills can occur. The purpose of this requirement is to contain and prevent migration and infiltration of any spilled or leaked materials that may contaminate the environment." Also, "The OCD is requiring that above grade tanks that contain materials with constituents that can be harmful to fresh water and the environment, if a sudden and catastrophic spill were to occur, must be contained at the site of the spill and mitigated immediately. Containment in a small area at the tank site allows for maximum recovery of fluids and small volumes of contaminants available for infiltration. Without berming, the rupture of a tank will spread its contents over a large area minimizing the amount that can be recovered and increasing the surface area of contaminated soil available to leach contaminants. All tanks that contain these types of materials must be bermed to prevent migration of the fluids and decrease the potential for infiltration. Therefore a commitment and completion schedule is required for the berming of vessels that contain fluids other than fresh water. The bermed areas shall be large enough to hold one-third more than the volume of the largest vessel or one-third larger than total volume of all interconnected vessels contained within the berm."

Van, the language above is addressing leaks and catastrophic failures which are undesirable events. The catastrophic failures do not occur that often and a more realistic position on leaks is that they will not be allowed to go uncorrected. This requirement, now being required of plants, could just as well be applied to tank batteries, well heads and pipelines. It is going to be very costly wherever it is required.

As plant environmental permits are renewed on a five-year basis, these requirements are being imposed. Because the permits come for renewal at different times, the awareness of these requirements is minimal.

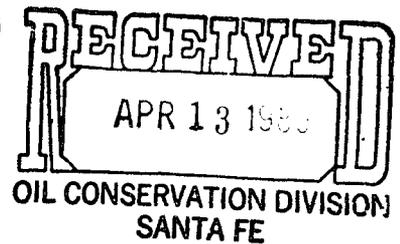
As indicated, if you can obtain any explanation from the OCD it might be helpful and, depending upon their comments, it may be advisable to inform all Association members of these pending requirements.



PHILLIPS 66 NATURAL GAS COMPANY

A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK



April 12, 1989

Discharge Plan Renewal
Eunice Plant
Discharge Plan No. GW-16

CERTIFIED MAIL
RETURN RECEIPT NO. P-512 089 596

Mr. David Boyer
Environmental Bureau Chief
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Boyer:

In accordance with the Water Quality Regulations, Phillips 66 Natural Gas Company submits the attached Groundwater Discharge Plan for our Eunice Plant, Lea County, New Mexico. The current Groundwater Discharge Plan is scheduled to expire on April 25, 1989. The wastewater disposal system has not been changed from what was approved in the previous plan.

If you should have any questions regarding this information, please contact me at (915) 367-1316.

Very truly yours,

Michael D. Ford
Environmental Analyst

MDF

Attachments

DISCHARGE PLAN
PHILLIPS PETROLEUM COMPANY
EUNICE GASOLINE PLANT
SECTIONS 5, T-21-S, R-36-E, LEA COUNTY

I. GENERAL PROCESS DESCRIPTION

Eunice Plant's basic function is to remove the ethane and heavier hydrocarbon fractions from casinghead and gas well gas. The plant receives sour hydrocarbon gas streams from 5, 50, and 550 psig gathering systems. The gas from the 5 psig system is compressed to 50 psig and commingled with the 50 psig gathering system gas before going to Phillips Eunice EP Plant where it is compressed to 550 psig. The 550 psig gas from Phillips Eunice EP Plant is commingled with the inlet 550 psig gas stream and sent to a gas treater where the hydrogen sulfide and carbon dioxide in the gas stream is removed. The hydrogen sulfide and carbon dioxide that is removed is sent to a sulfur recovery unit. The sweet inlet gas is then sent to a molecular sieve dehydrator where the gas is dehydrated to a water content of less than 1 ppmv. The gas is then sent to two large gas turbine compressors where it is compressed to a pressure of approximately 900 psig. From the compressors the gas stream flows to a turboexpander plant where it is cooled by propane refrigeration and expansion to a temperature of approximately -140°F. The turboexpander plant produces two hydrocarbon streams, the first being a liquid hydrocarbon stream comprised of approximately 85% of the ethane and all of the propane and heavier hydrocarbons that entered the plant. The liquid hydrocarbon stream has a vapor pressure of approximately 350 psig and is sent to two 144" ID X 91'-3 1/2" S/S, 400 psig MWP vessels for temporary storage before being delivered to a pipeline for sale.

The second hydrocarbon stream produced from the turboexpander plant is comprised primarily of methane gas. This gas stream is compressed to approximately 550 psig before being delivered to El Paso Natural Gas Company for sale.

Attachments 1 and 2 are a plot plan and process flow sheet of the plant.

II. PLANT WATER SYSTEMS

A. Raw Water

Eunice Plant receives its raw water from a total of nine wells located north of the plant in Section 13, T-19-S, R-36-E, Lea County. The wells produce from the Ogallala formation. Water is used at the plant for cooling tower, boiler and engine jacket water make-up. Attachment 3 contains an analysis of this water.

B. Potable Water

A small fraction of the raw water is chlorinated and used as potable water for the plant's office and control room.

C. Cooling Tower System

The cooling tower system is comprised of two open recirculating cooling towers referred to as the gas and engine jacket water cooling towers. The water in these towers is recirculated approximately four times producing 350 bbl/day of blowdown wastewater. Blowdown from the towers is piped to the plant's wastewater disposal system. The following chemicals are being added to the cooling tower water for scale, corrosion and biological treatment:

Chemical

Betz 25K ✓
Betz 2020 ✓
Betz 562-C ✓
Foam-Trol CT ✓
Slimicide C-31 ✓

Small quantities of sulfuric acid are also being added to the cooling tower water to maintain proper pH. Material safety data sheets for these chemicals are found in Attachment 4.

D. Boiler Water System

The boiler water system is comprised of a small zeolite water softener and a 50 psig boiler. The raw make-up water to this system passes through a zeolite softener where the calcium and magnesium in the make-up water are removed. The soft water from the zeolite softener flows to a holding tank before being pumped into the boiler. The boiler, which produces 25 psig to 50 psig steam, is used primarily to produce condensate water for make-up into the gas treater and engine jacket cooling system. The steam produced from the boiler passes through a series of air and water condensers, where it is condensed, before going to a condensate storage tank for distribution. The boiler does not run continuously but only as needed. The following chemicals are being added to the boiler water for scale and corrosion treatment:

Chemical

Betz KI-2 ✓
Betz Sulfite III ✓
Betz AFG-2 ✓
Betz Liquimine VI ✓

Material safety data sheets for these chemicals are found in Attachment 5. A process flow sheet of the boiler water system is contained in Attachment 6.

E. Engine Jacket Cooling System - Old Power Room

The engine jacket cooling system for the old power room cools five 400 HP Cooper Bessemer engines. Engine jacket cooling water is pumped out of a fiberglass lined cement sump (Attachment 1, #7) through the engine jackets and into cooling coils located in the jacket water cooling tower. The engine jacket water then flows from the cooling coils back into the cement sump. Betz Inhibitor 545 (Attachment 7) is used for corrosion inhibition within the system.

F. Anti-freeze Engine Jacket Cooling System - New Power Room

An ethylene glycol anti-freeze cooling system is used to cool the five engines in the new power room at the plant. The cooling systems for each of these engines are totally self-contained. An above ground tank, which is common to all the engines, is used as an anti-freeze make-up/holding tank. If an engine is being worked on, its anti-freeze charge is pumped to this tank. When the work is completed, the anti-freeze is pumped back into the engine.

III. PLANT DRAIN AND DISPOSAL SYSTEM

A. Engine Oil Drain Systems

Lube oil in the power room engines is changed by draining the "spent" oil charge from an engine into a sump. The lube oil sump for the new power room consists of a below grade steel tank surrounded by concrete (Attachment 1, #19). The lube oil sump for the old power room is a below grade tank constructed of galvanized steel (Attachment 1, #21). OK

The spent lube oil in the sumps is pumped into the plant's slop oil storage tanks. Oil in the slop oil storage tanks is periodically hauled by tank truck to Phillips Hobbs Treater for reclamation.

B. Closed Drain System

The closed drain system is a pressure drain system constructed of buried, externally coated schedule 40 steel pipe. This drain system empties into an internally coated, above ground, vertical oil/water separator. The oil from this separator overflows into a 1000 bbl storage tank from where it is trucked for sale. The water from the oil/water separator flows into the open drain system's oil/water separator. The closed drain system was revised and new piping installed in 1975 when the plant switched from oil absorption to a cryogenic process. Attachment 8 is a process flow sheet of this system. OK

C. Open Drain System

The open drain system is an atmospheric drain system constructed of buried, externally coated, schedule 40 steel pipe. This drain system empties into a below grade, internally coated oil/water separator. The oil from this vessel is pumped to the closed drain oil/water separator. The water from this vessel is pumped into a 500 bbl holding tank before disposal into Rice Engineering's Eumont salt water disposal system. The open drain system was revised and new piping installed in 1975 when the plant switched from oil absorption to a cryogenic process. Attachment 8 is a process flow sheet of this system. OK

D. Final Wastewater Disposal System

This system is comprised of two 500 bbl, internally coated, stock tanks. Approximately 350 bbls/day of wastewater from the open drain oil/water separator and blowdown from the cooling towers flow into one of these tanks before flowing, by gravity, into Rice Engineering's Eumont salt water disposal system. These tanks have approximately 1-1/2 days of storage time should the Eumont system be shut down. If the Eumont disposal system should be shut down for longer than this

time period, the wastewater will be trucked to one of the various salt water disposal systems in the area. Attachment 8 is a process flow sheet of this system. Attachments 9 and 10 are drawings of Rice Engineering's Eumont disposal system and well. Attachment 11 is an analysis of the wastewater being delivered to the Rice system.

IV. SOLID WASTE DISPOSAL

A. General Waste

All of our Class II solid waste (i.e. paper, spent air filters, etc.) is hauled to an off site landfill by Waste Control of New Mexico, a Hobbs based company. 65

B. Spent Molecular Sieve

Approximately every four to five years the molecular sieve dehydrators at the plant are recharged. The spent molecular sieve (Attachment 12) is disposed of on site. Approximately 52,400 pounds of this material is disposed each time the beds are recharged. when

C. Spent Precoat Material

The gas sweetening process employs a precoat filter to remove fine particulate matter that the treating solution removes from the inlet gas. This filter is a batch regenerating filter which is comprised of several filter tubes. At the beginning of each batch filtering cycle, these tubes are precoated with a diatomaceous earth filtering material. Once the filter elements have been precoated the filter is put on line and filters the gas treating solution until a certain pressure differential across the filter is reached. At this time, the filter is backwashed using condensate water. The backwash water along with the spent precoat material flows into a concrete settling tank. The precoat material settles out of the backwash water, which overflows into the open drain system, and is accumulated in the bottom of the settling tank. The solids from the settling tank are periodically emptied into a steel bin where they are allowed to dry before being disposed of on site. Approximately 4500 lbs/yr of this material is disposed of. Attachment 13 is a material safety data sheet for the precoat material. when

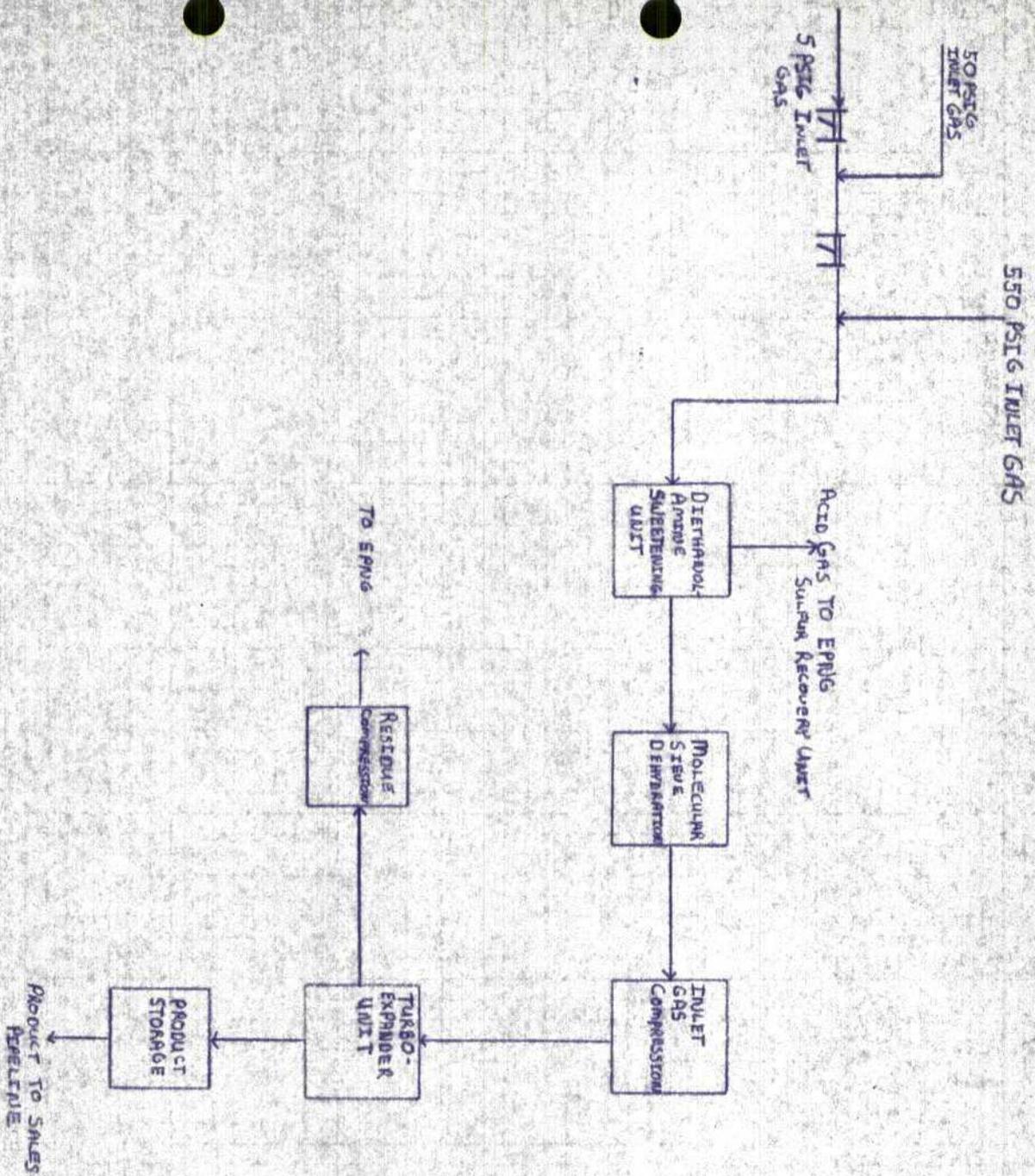
V. MISCELLANEOUS INFORMATION

A. Groundwater Monitoring

Groundwater monitoring wells have been installed at the plant around the abandoned evaporation pond. The NMOCD has been furnished a copy of the groundwater monitoring well installation report and analyses of the water samples taken from the wells.

B. Topography

Attachment 14 is a topographic map of the area surrounding Eunice plant. As can be seen from this map, there are no bodies of water or watercourses within a one mile radius of the plant.



RECEIVED
APR 1 2 1966

OIL CONSERVATION DIVISION
SANTA FE

NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA EUNICE GASOLINE PLANT PROCESS FLOW ATTACHMENT # 2			JA NO	FILE CODE
FOR APPR				AFE NO.	SCALE
FOR CONST				DWG NO	
DRAWN <i>Stuebs</i>	<i>1/19/64</i>			SH NO	
CHECKED					
APP'D					

Attachment #3

To: Mr. Marvin Stevenson
4001 Penbrook
Odessa, Texas

Laboratory No. 98192
Sample received 9-4-81
Results reported 9-14-81

Company: Phillips Petroleum

Project: Eunice Plant in Lea County, New Mexico

Subject: To make determinations listed on raw water
Samples taken by James C. Powell, Martin Water Labs., Inc. on 9-4-81

DETERMINATION, mg/l

A. Human Health Standards

Arsenic, as As	0.000
Barium, as Ba	0
Cadmium, as Cd	0.00
Chromium, as Cr	0.01
Cyanide, as CN	0.0
Fluoride, as F	1.0
Lead, as Pb	0.0
Total Mercury, as Hg	0.000
Nitrate, as N	3.4
Selenium, as Se	0.00
Silver, as Ag	0.00

B. Other Standards for Domestic Water Supply

Chloride, as Cl	51
Cooper, as Cu	0.00
Iron, as Fe	0.62
Manganese, as Mn	0.00
Phenols	0.00
Sulfate, as SO ₄	45
Total Dissolved Solids	480

DETERMINATION, mg/l

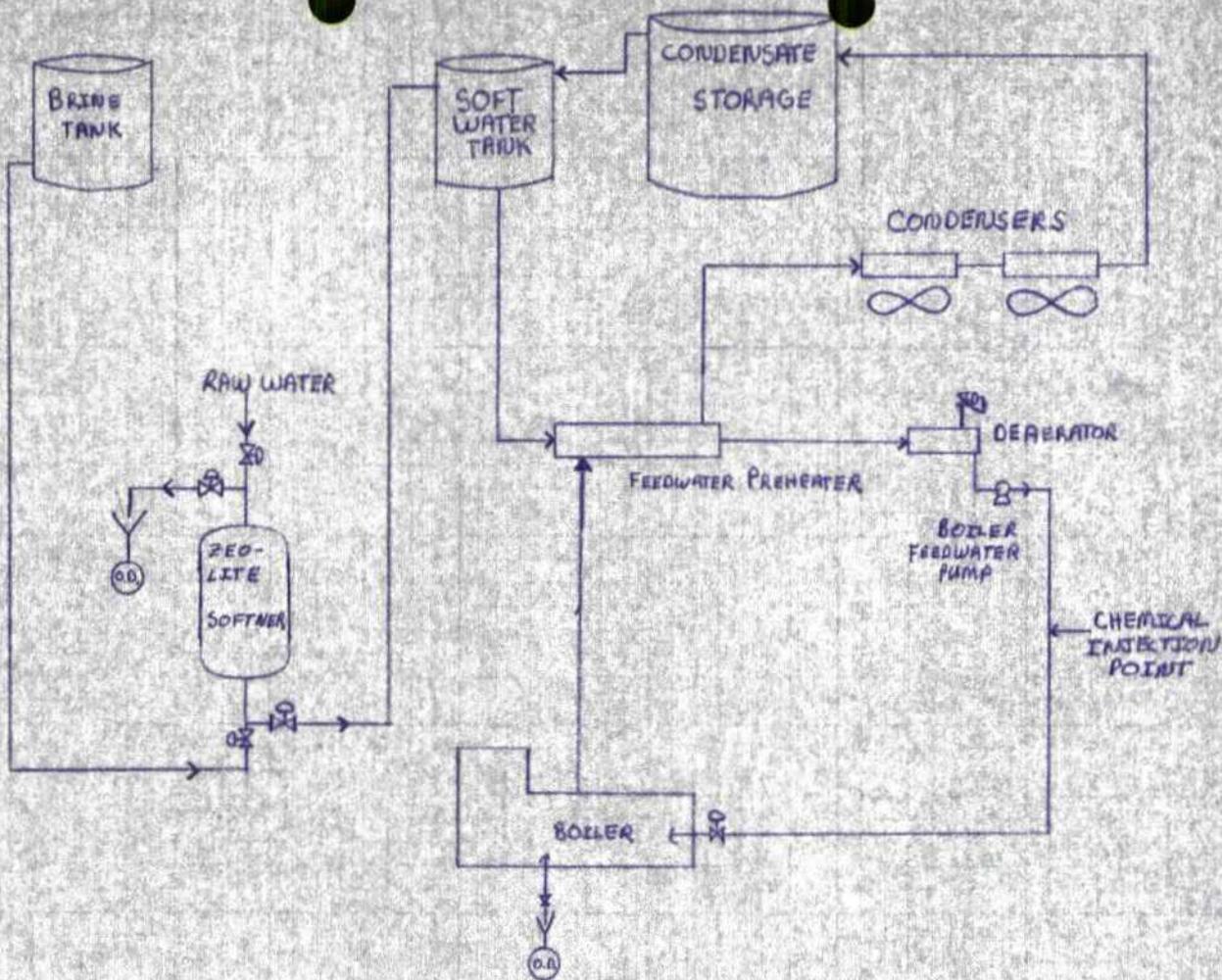
Zinc, as Zn	0.10
pH	7.0

C. Standards for Irrigation Use

Aluminum, as Al	0.0
Boron, as B	0.4
Cobalt, as Co	0.00
Molybdenum, as Mo	0
Nickel, as Ni	0.0

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

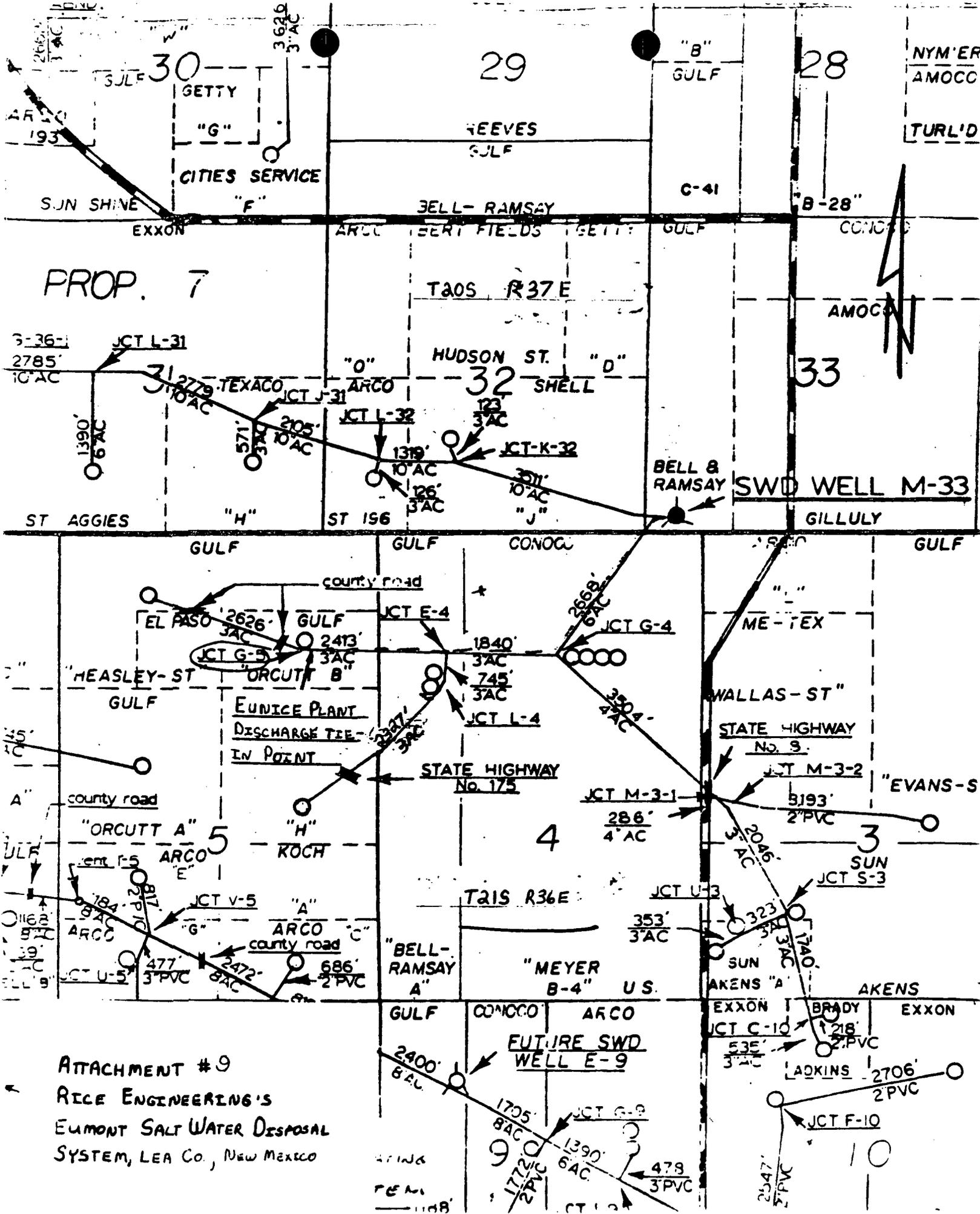
Waylan C. Martin, M. A.



⊙ OPEN DRAIN

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 APR 1 1984
 OIL CONSERVATION DIVISION
 SANTA FE

NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA 	JA NO.	FILE CODE		
FOR APPR		AFE NO.	SCALE		
FOR CONST		DWG NO.			
DRAWN STUBS	1/A/84				
CHECKED					
APP'D					
ATTACHMENT # 6					



PROP. 7

ATTACHMENT #9
 RICE ENGINEERING'S
 EUMONT SALT WATER DISPOSAL
 SYSTEM, LEA Co., New Mexico

NYM'ER
 AMOCC
 TURL'D

SWD WELL M-33

FUTURE SWD
 WELL E-9

EUNICE PLANT
 DISCHARGE TEE
 IN POINT

STATE HIGHWAY
 No. 3

STATE HIGHWAY
 No. 175

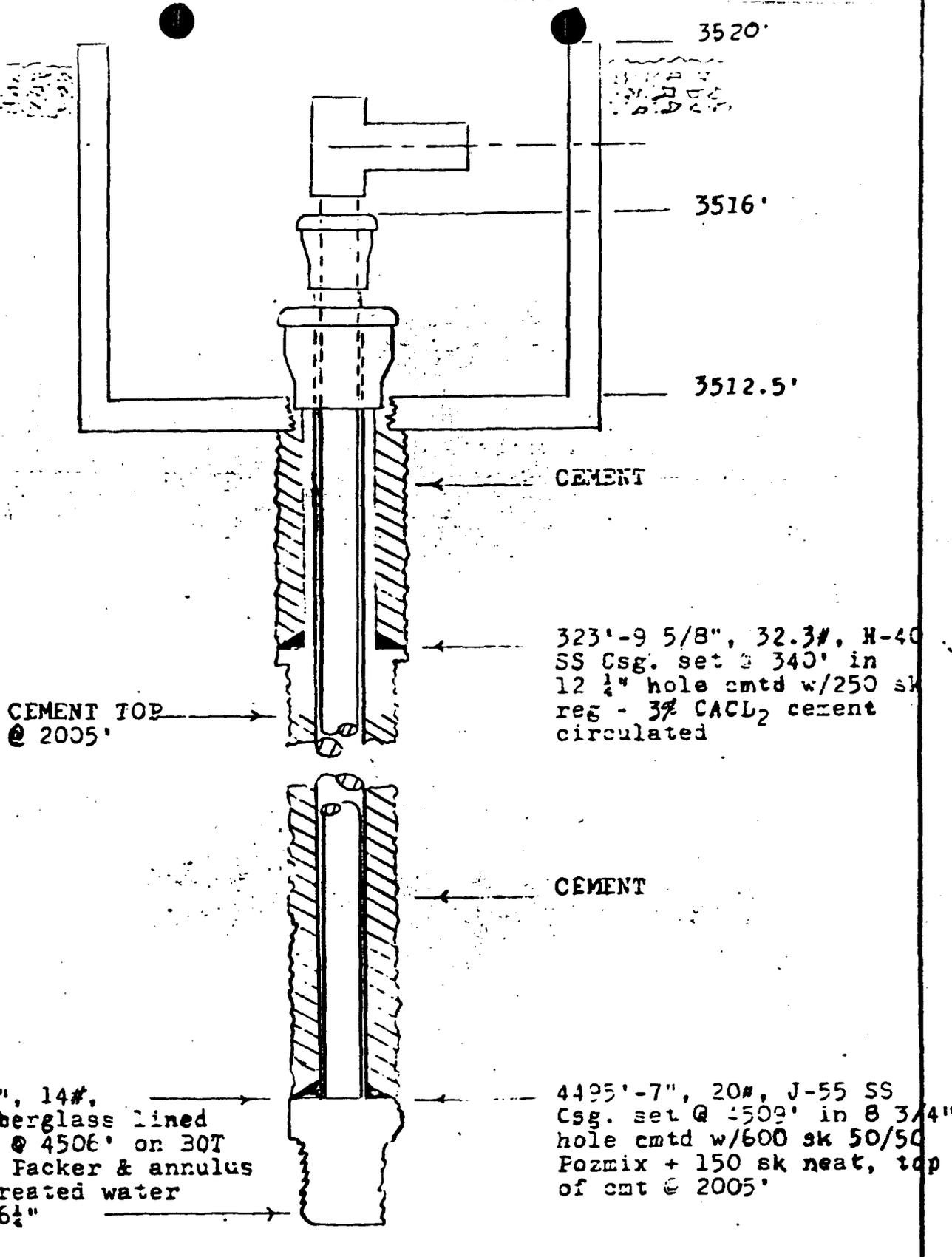
5-36-1
 2785'
 10'AC

county road

county road

county road

Labels for various junctions and well identifiers: JCT L-31, JCT J-31, JCT L-32, JCT-K-32, JCT E-4, JCT G-4, JCT G-5, JCT L-4, JCT M-3-1, JCT M-3-2, JCT U-3, JCT S-3, JCT U-5, JCT V-5, JCT C-10, JCT F-10, JCT G-9, JCT I-10.



3520'

3516'

3512.5'

CEMENT

323' - 9 5/8", 32.3#, H-40 SS Csg. set @ 340' in 12 1/4" hole cmtd w/250 sk reg - 3% CaCl₂ cement circulated

CEMENT TOP @ 2005'

CEMENT

4495' - 7", 20#, J-55 SS Csg. set @ 4509' in 8 3/4" hole cmtd w/600 sk 50/50 Pozmix + 150 sk neat, top of cmt @ 2005'

4492' - 5 1/2", 14#, J-55 SS fiberglass lined tubing set @ 4506' on 30T Husky M-1, Facker & annulus loaded w/treated water OPEN HOLE 6 1/2" ID 5100'

DWN	LB	12-15-81	APPROVED	E-M-E SWD System Well M-33	SCALE
REVD	RA	6-1-81		Location - 165' FSL & 165' FWL, Sec. 33, T20S, R37E, Lea County, New Mexico	NONE
Attachment 10				Rice Engineering & Operating, Inc.	DWG. NO. A-98
				Great Bend, Kansas	

Molecular Sieve Type 4A

Product Information

Description

ZEOCHEM Molecular Sieve Type 4A is an alkali aluminosilicate; it is the sodium form of the Type A crystal structure. Type 4A has an effective pore opening of about 4 angstroms.

Chemical Formula:

$\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot X \text{H}_2\text{O}$

Applications

ZEOCHEM Molecular Sieve Type 4A is used to dehydrate most fluids. Applications include both static and dynamic drying. Static applications (non-regenerative) include drying of refrigerant gases, usage in desiccant packages, and in insulating glass units. Dynamic applications (regenerative) include drying of natural gas, LPG, air, inert gases, and solvents. ZEOCHEM Molecular Sieve Type 4A will adsorb molecules with a kinetic diameter of less than 4 angstroms and exclude those larger.

Regeneration

ZEOCHEM Molecular Sieve Type 4A can be regenerated by evacuating or purging, usually at elevated temperatures. The purge gas temperature must be sufficiently high to bring the molecular sieve to a level of 400 to 600°F, but not exceeding in any case 1000°F. Higher temperatures could cause physical alteration of the molecular sieve structure. The degree of regeneration depends on the temperature and humidity of the purge gas.

Typical Properties

Nominal pore diameter	4 angstroms
Type of crystal structure	cubic
Bulk density	47 lbs/cuft
Equilibrium water capacity (theoretical)	23% wt.
Water content (as shipped)	1.5% wt. (max.)
Heat of adsorption (max.)	1,800 BTU/lb H ₂ O
Specific heat (approx.)	0.23 BTU/lb/°F

Commercial bead sizes (nominal)

	$\frac{1}{16}$ "	$\frac{1}{8}$ "	
mesh	4×7	7×10	10×18
mm	3-5	2-3	1-2
crush strength, lbs.	18	9	4

ZEOCHEM Molecular Sieve 4A is available in powder form upon request.

Shipping Information

ZEOCHEM Molecular Sieve Type 4A beads are shipped in non-returnable drums as follows:

55 gal. steel drum containers
— 300 lb. net
23 gal. fiber drum containers
— 120 lb. net

5 gal. pails
— 25 lb. net

The information contained herein is based upon our testing and experience and is believed to be accurate. Since operating conditions may vary and since we do not control such conditions, we must DISCLAIM ANY WARRANTY, EXPRESS OR IMPLIED, with regard to results to be obtained from the use of our products or with regard to application of Zeochem techniques.

Chemische Fabrik Uetikon and United Catalysts Joint Venture

ZEOCHEM

P. O. Box 35940, Louisville, Kentucky 40232, Telephone 502-634-8384, Telex 204190 239

Kenite[®] diatomite

Typical characteristics

Inorganic Specialties Division, Witco Chemical Corporation
277 Park Avenue, New York, New York 10017 (212) 872-4286

0681

KENITE 3000

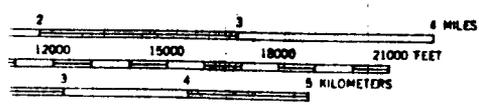
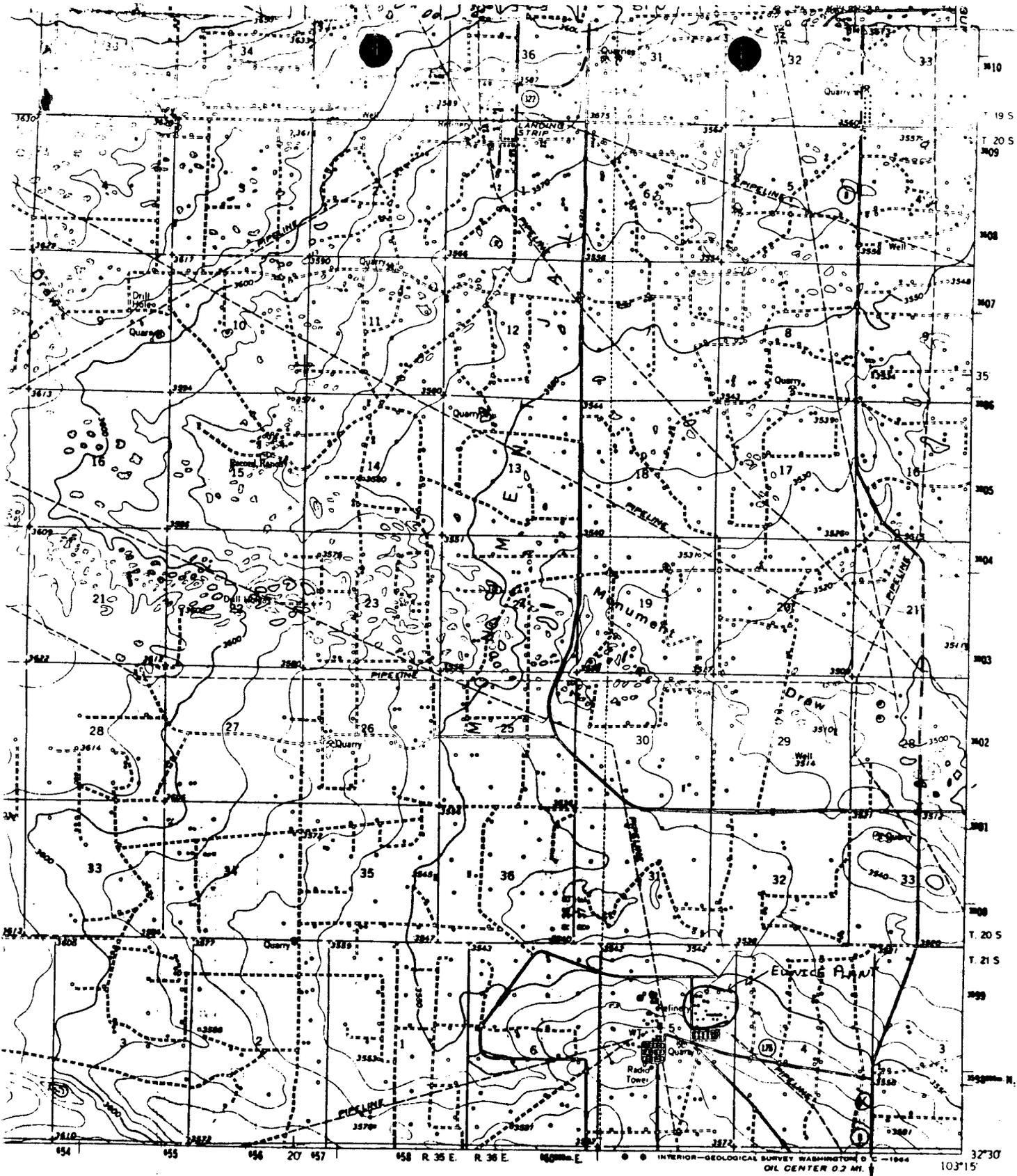
Brightness (G.E. Photovolt)	77 - 86
pH (10% aqueous)	9.0 - 11.0
Wet Density (lbs./cu.ft.)	19.5 - 21.5
Wet Mesh %	
+60	2 - 8
+150	14 - 25
+325	55 - 65
Flow Rate	Standard

TYPICAL CHEMICAL ANALYSIS

Silica (SiO ₂)	91 - 93%
Alumina (Al ₂ O ₃)	0.8 - 1.5
Iron Oxide (Fe ₂ O ₃)	1.2 - 1.8
Lime (CaO)	0.2 - 0.5
Phosphorous Pentoxide (P ₂ O ₅)	0.001 - 0.008
Magnesia (MgO)	0.2 - 0.5
Sodium & Potassium Oxides (Na ₂ O + K ₂ O)	1.8 - 3.0
Ignition Loss (110°C.)	0.1 - 0.2

The foregoing characteristics are typical of the products sold. However, no warranties, express or implied, including warranties of merchantability or fitness for use, are made with respect to the products described herein. Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

Witco



1 FEET
 1 INCH

ACCURACY STANDARDS
 COLORADO OR WASHINGTON 25, D.C.
 7503 IS AVAILABLE ON REQUEST

Attachment 14



QUADRANGLE LOCATION

ROAD CLASSIFICATION

- Heavy duty ————— Light duty - - - - -
- Medium duty - - - - - Unimproved dirt
- U.S. Route (Shield symbol) State Route (Circle symbol)

MONUMENT, N. MEX.
 N32°40' - W103°15' / 15

1963



SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W

Customer No. 3355796

Report No. 35058

Report Date 1-24-84

Date Received 1-10-84

Report of tests on: Water

Client: Phillips Petroleum

Identification: Eunice Plant, Wastewater

	<u>mg/L</u>
Aluminum-----Less Than	2
Arsenic-----Less Than	0.05
Barium-----Less Than	1
Boron-----	0.9
Cadmium-----Less Than	0.01
Chromium-----	0.10
Cobalt-----Less Than	0.1
Copper-----	0.4
Iron-----	0.9
Lead-----Less Than	0.05
Manganese-----	0.07
Mercury-----Less Than	0.002
Molybdenum-----Less Than	1
Nickel-----Less Than	0.5
Selenium-----Less Than	0.01
Silver-----Less Than	0.05
Zinc-----	1.6
Sulfate-----	810
Chloride-----	163
Fluoride-----	3.2
Nitrate-----	48
Cyanide-----	0.008
Phenols-----Less Than	0.001
Total Dissolved Solids @ 180° C-----	1754

Technician: KLH, PCB, GMB

Copies 3 cc: Phillips Petroleum Co.
Attn: Mike Ford

SOUTHWESTERN LABORATORIES



New Mexico Health and Environment Department
 SCIENTIFIC LABORATORY DIVISION
 700 Camino de Salud NE
 Albuquerque, NM 87106 — (505) 841-2555

860
 WNN

**GENERAL WATER CHEMISTRY
 and NITROGEN ANALYSIS**

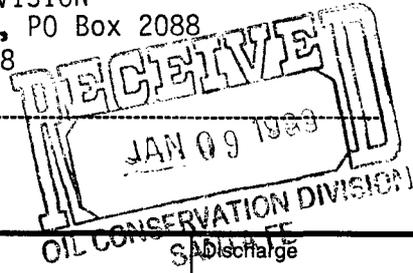
DATE RECEIVED	12 2 88	LAB NO.	WC-4774	USER CODE	<input type="checkbox"/> 59300 <input type="checkbox"/> 59600 <input checked="" type="checkbox"/> OTHER: 82235
Collection DATE	12/11/88	SITE INFORMATION	Sample location		
Collection TIME	1145		Phillips - EP Eunice		
Collected by - Person/Agency		Collection site description			
Boyer/Anderson 10CD		#2 Cooling Tower			

SEND FINAL REPORT TO

ENVIRONMENTAL BUREAU
 NM OIL CONSERVATION DIVISION
 State Land Office Bldg, PO Box 2088
 Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812



Station/well code: 215, 36 E, 5.1
 Owner:

SAMPLING CONDITIONS

<input type="checkbox"/> Bailed	<input type="checkbox"/> Pump	Water level	<input type="checkbox"/> Discharge	Sample type
<input checked="" type="checkbox"/> Dipped	<input type="checkbox"/> Tap			Grab
pH (00400)	8.5	Conductivity (Uncorrected)	1920 μ mho	Water Temp. (00010)
				32 °C
Field comments: Dipped from Sump				

SAMPLE FIELD TREATMENT — Check proper boxes

No. of samples submitted	1	<input checked="" type="checkbox"/> NF: Whole sample (Non-filtered)	<input type="checkbox"/> F: Filtered in field with 0.45 μ m membrane filter	<input type="checkbox"/> A: 2 ml H ₂ SO ₄ /L added
<input checked="" type="checkbox"/> NA: No acid added		<input type="checkbox"/> Other-specify:	<input type="checkbox"/> A: 5ml conc. HNO ₃ added	<input type="checkbox"/> A: 4ml fuming HNO ₃ added

ANALYTICAL RESULTS from SAMPLES

NA	Units	Date analyzed	From A/E, NA Sample:	Date Analyzed
<input checked="" type="checkbox"/> Conductivity (Corrected) 25°C (00095)	μ mho	12/19	200 mg/l	12/05
<input type="checkbox"/> Total non-filterable residue (suspended) (00530)	mg/l		12 mg/l	12/1
<input checked="" type="checkbox"/> Other: Lab pH		12/15	36.0 mg/l	12/05
<input type="checkbox"/> Other:			309 mg/l	12/1
<input type="checkbox"/> Other:			388 mg/l	12/15
A-H₂SO₄			281 mg/l	12/15
<input type="checkbox"/> Nitrate-N +, Nitrate-N total (00630)	mg/l		373 mg/l	12/15
<input type="checkbox"/> Ammonia-N total (00610)	mg/l		1478 mg/l	12/12
<input type="checkbox"/> Total Kjeldahl-N ()	mg/l		CO ₂ 37.1	12/15
<input type="checkbox"/> Chemical oxygen demand (00340)	mg/l			
<input type="checkbox"/> Total organic carbon ()	mg/l		<input checked="" type="checkbox"/> Cation/Anion Balance	
<input type="checkbox"/> Other:			Analyst	Date Reported
<input type="checkbox"/> Other:				1 5 89

Laboratory remarks: 281

CATIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	9.98	200.00	<3.0
Mg	2.96	36.00	<0.3
Na	9.09	209.00	<10.0
K	0.31	12.00	<0.3
Mn	0.00	0.00	
Fe	0.00	0.00	
SUMS	22.33	457.00	
Total Dissolved Solids=			1478
Ion Balance =			98.50%

ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT
HC03	6.36	388.00	<1.0
SO4	7.77	373.00	<10.0
CL	7.93	281.00	<5.0
NO3	0.00	0.00	< 0.
CO3	0.62	37.10	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.
	22.67	1079.10	

WC No. = 8804774
Date out/By

RECEIVED
JAN 09 1983
OIL CONSERVATION DIVISION
SANTA FE



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

October 4, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. L. L. Frantz, Agent
Permian Basin Region
Phillips 66 Natural Gas Co.
4001 Penbrook
Odessa, Texas 79762

RE: Discharge Plan GW-16
Eunice #1 Gasoline Plant
Lea County, New Mexico

Dear Mr. Frantz:

On April 25, 1984, the ground water discharge plan, GW-16, for the Eunice #1 Gas Plant located in Section 5, Township 21 South, Range 36 East, NMPM, Lea 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 Regulations and it was approved for a period of five years. The approval will expire on April 25, 1989.

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 have 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 will be used in review of your renewal application.

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

Mr. L. L. Frantz
October 4, 1988
Page 2

If you have any questions, please do not hesitate to contact Roger Anderson at (505) 827-5885.

Sincerely,

A handwritten signature in cursive script that reads "David G. Boyer". The signature is written in dark ink and is positioned above the typed name.

David G. Boyer, Chief
Environmental Bureau

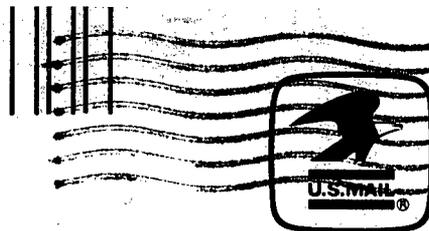
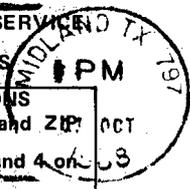
DGB:RA:sl

Enclosure

cc: OCD-Hobbs Office

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS



PENALTY FOR PRIVATE USE, \$300

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RETURN TO



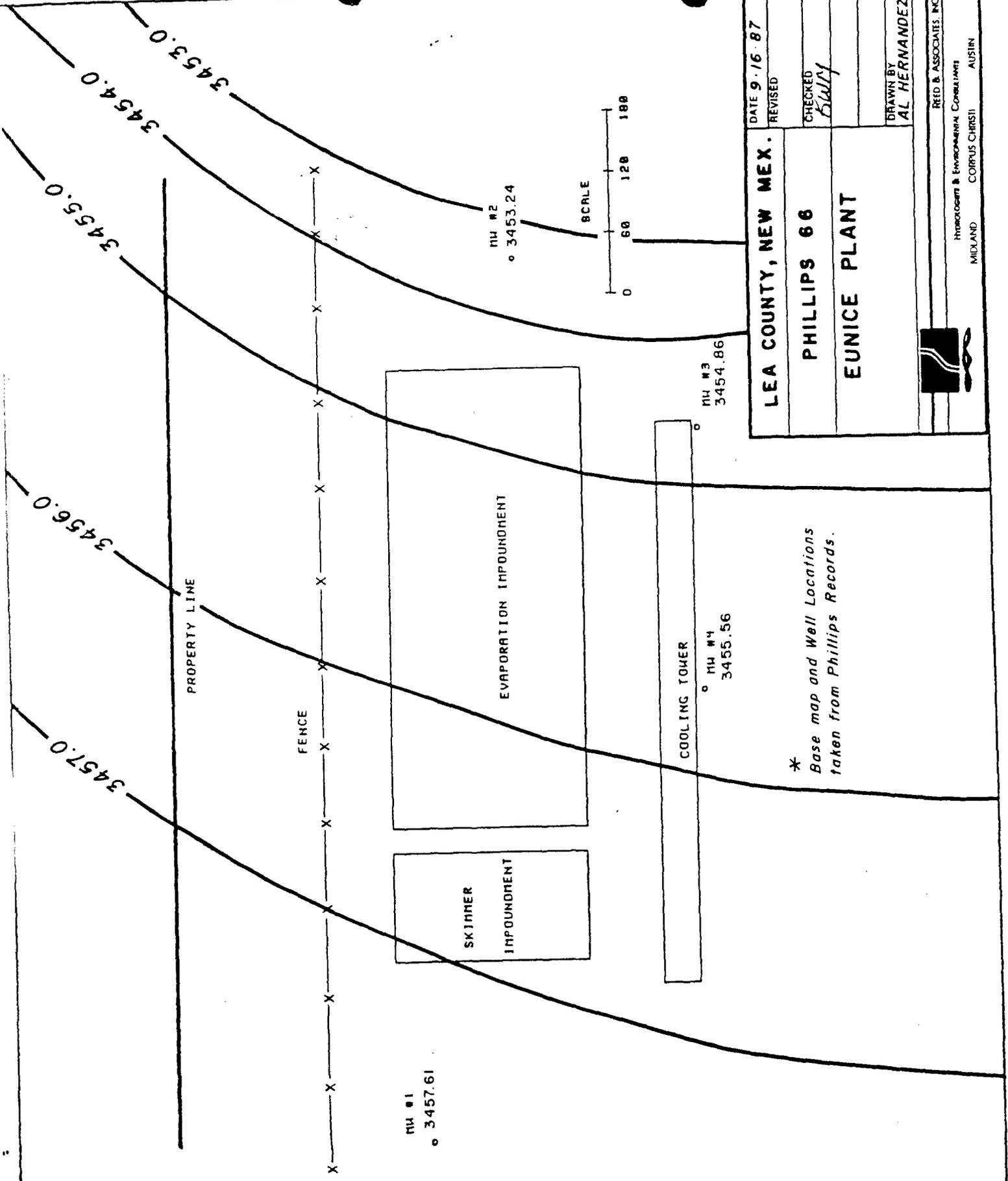
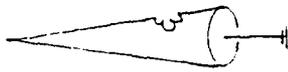
Print Sender's name, address, and ZIP Code in the space below.

Oil Conservation Division

POB 2088

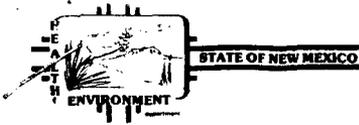
Santa Fe, NM 87504

11/1



LEA COUNTY, NEW MEX.		DATE 9-16-87
PHILLIPS 66		REVISED
EUNICE PLANT		CHECKED <i>Kully</i>
DRAWN BY AL HERNANDEZ		
REED & ASSOCIATES, INC. Hydrologist & Environmental Consultants MIDLAND CORPUS CHRISTI AUSTIN		

*
 Base map and Well Locations
 taken from Phillips Records.



ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968 Santa Fe, New Mexico 87504
505-984-0020

4/7/86

Page -

Here is a summary of our
results for Phillips Artesia,
Ennis, Lee + Lusk. I have
the original lab sheets if you
want to see them.

-Ann C.

x2931

Copy made by
Gale W. R.

RESULTS OF SAMPLING
PHILLIPS PETROLEUM GAS REFINERIES
ARTESIA, EUNICE, LEE AND LUSK

Attached are the results for the New Mexico Environmental Improvement Division's samples taken at the Phillips plants in August 1986. At each plant, samples were taken from each of the RCRA wells (4 wells per plant). At Lusk and Artesia, samples were also taken from surface impoundments. Table 1 identifies each sample.

All samples were collected by Alice Barr with the assistance of Kelley Crossman. The samples were appropriately preserved and shipped under chain-of-custody to the State Laboratory in Albuquerque for analysis. Table 2 gives the analytical procedure for each parameter. Note that calcium and magnesium are reported under both General Chemistry and Metals. The Gen. Chem results were obtained by the Water Chemistry Section using wet analytical techniques; the Metals results were obtained by the Metals Section using ICAP.

All results are in milligrams per liter (mg/l), except as follows:

pH	pH units
conductivity	micromhos/cm (lab cond. at 25 °C)
temperature	degrees Celcius
organics	parts per billion

Abbreviations and symbols used to report the results are as follows:

Cond.	conductivity
GEN. CHEM.	general chemistry
ND	not detected (see below)
NR	not reported
PPB	parts per billion
Temp.	temperature (in Celcius)
TDS	total dissolved solids (total filterable residue)
TOC	total organic carbon
<	less than
>	greater than
~	approximately
[]	tentative identification

The value of many metals is reported as ND (none detected). The detection limits, in mg/l, were as follows:

Arsenic	0.005
Mercury	0.0005
Selenium	0.005
Manganese	0.05
All others	0.1

TABLE 1. SAMPLE IDENTIFICATION, PHILLIPS PETROLEUM PLANTS

NOTE: The designation of a well as upgradient or downgradient is Phillip's designation.

Phillips Petroleum -- Artesia

MW-1	monitoring well 1, downgradient
MW-3	monitoring well 3, upgradient
MW-6	monitoring well 6, downgradient
PND-1,w	first RCRA pond, surface water
PND-4,s	first RCRA pond, sediment
PND-2,s	second pond (middle), sediment
PND-3,,w	third pond, surface water
Blank	Field blank using deionized water

Phillips Petroleum -- Eunice

MW-1	monitoring well 1, upgradient
MW-2	monitoring well 2, downgradient
MW-3	monitoring well 3, downgradient
MW-4	monitoring well 4, downgradient

Phillips Petroleum -- Lee

MW-1	monitoring well 1, upgradient
MW-2	monitoring well 2, downgradient
MW-3	monitoring well 3, downgradient
MW-4	monitoring well 4, downgradient
Blank	Field blank using deionized water

Phillips Petroleum -- Lusk

MW-1	monitoring well 1, upgradient
MW-2	monitoring well 2, downgradient
MW-3	monitoring well 3, downgradient
MW-4	monitoring well 4, downgradient
R-PND,w	RCRA pond, surface water
R-PND,s	RCRA pond, sediment
O-PND,s	Oily pond next to RCRA pond, sludge

TABLE 2. ANALYTICAL METHODS

PARAMETER	PRESERVATION	ANALYTICAL METHOD
<u>Gen. Chem.</u>		
Field pH	none	Hach Mini pH Meter
Field Cond.	none	Yellow Springs S-C-T Meter
Calcium	ice	EPA Method 215.2
Magnesium	ice	EPA Methods 130.2 and 215.2
Sodium	ice	Std. Methods 325(b)
Potassium	ice	Std. Methods 325(b)
Bicarbonate	ice	EPA Method 310.1
Chloride	ice	EPA Method 325.2
Sulfate	ice	EPA Method 375.2
TDS	ice	EPA Method 160.1
Fluoride	ice	EPA Method 340.2
Nitrate-N	ice, H ₂ SO ₄	EPA Method 352.2
TOC	ice, H ₂ SO ₄	EPA Method 415.1
<u>Metals</u>		
Arsenic	HNO ₃	EPA Method 206.2
Mercury	HNO ₃	EPA Method 245.1
Selenium	HNO ₃	EPA Method 270.2
All others (ICAP Scan)	HNO ₃	EPA Method 207
<u>Organics</u>		
GC/MS Purgeables	Ice	EPA Method 624

PHILLIPS PETROLEUM -- EUNICE

	MW-1	MW-2	MW-3	MW-4
<u>GEN. CHEM</u>				
Field pH	7.1	7.0	6.8	7.0
Field Cond.	4400	2550	2850	3100
Field Temp.	27	28	25	27
Lab pH	8.01	7.95	7.8	8.15
Lab Cond.	4192	2266	3059	2606
Calcium	156.0	169.6	264.0	147.2
Magnesium	96.6	95.2	131.8	101.9
Sodium	715.3	312.8	338.1	349.6
Potassium	7.02	3.51	5.85	4.68
Bicarbonate	424.4	522.6	380.3	545.8
Chloride	1049	495.3	556.0	560.3
Sulfate	438.1	119.3	520.6	94.4
TDS	2693	1655	2595	1635
Fluoride	2.22	2.80	1.14	1.02
Nitrate-N	<0.04	0.09	33.7*	28.6
TOC	51.6	43.6	27.98	40.7
<u>METALS</u>				
Arsenic	0.15	0.17	0.077	0.039
Mercury	ND	ND	ND	ND
Selenium	ND	ND	ND	ND
Aluminum	6.9	2.7	0.6	0.9
Barium	0.4	0.9	0.2	1.0
Beryllium	ND	ND	ND	ND
Boron	1.4	0.7	0.9	1.2
Cadmium	ND	ND	ND	ND
Calcium	240	140	305	174
Chromium	ND	ND	0.5	ND
Cobalt	ND	ND	ND	ND
Copper	ND	ND	ND	ND
Iron	9.3	25	5.3	16
Lead	ND	ND	ND	ND
Magnesium	90	83	120	87
Manganese	2.4	0.88	2.8	0.68
Molybdenum	ND	ND	ND	ND
Nickel	ND	ND	ND	ND
Silicon	32	23	26	30
Silver	ND	ND	ND	ND
Strontium	4.0	3.0	4.9	4.7
Tin	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND
Yttrium	ND	ND	ND	ND
Zinc	ND	ND	ND	ND

* HNO₃ accidentally added to sample.

PHILLIPS PETROLEUM -- EUNICE

Gas Chromatograph/Mass Spectrometer Purgeable Screen

Results in [brackets] are tentative (unconfirmed) results.

SAMPLE	ORGANICS DETECTED	PPB
MW-1	None Detected	
MW-2	Benzene	19
	Ethylbenzene	1
	p-Xylene	2
	m-Xylene	trace
	o-Xylene	1
	toluene	trace
	3 carbon substituted benzenes	5-10
	4 carbon substituted benzenes	1-2
MW-3	Benzene	[1]
	C3 substituted benzene	[1]
	[Thiobisethane]	[1]
	[Dimethyltetrahydrothiophene]	[1]
MW-4	Benzene	2
	[2pentene]	[10]
	[Thiobisethane]	[1]
	[Methyltetrahydrothiophene]	[1]
	[Dimethyltetrahydrothiophene]	[2]



PHILLIPS PETROLEUM COMPANY

BARTLESVILLE, OKLAHOMA 74004
PHONE: 918 661-6600 CABLE CODE: PHILPETROL TELEX: 49-2455

ENGINEERING AND SERVICES

REC 1-9

MAR 23 1986

HAZARDOUS WASTE SECTION

March 21, 1986

Lusk, Lee, Eunice and Artesia Plants
Supplemental Sampling Results

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Jack Ellvinger, Environmental Supervisor
Hazardous Waste Section
New Mexico Environmental Improvement Division
P. O. Box 968
Harold-Runnels Building
Santa Fe, NM 87501-0968

Dear Mr. Ellvinger:

Samples were procured from the Lusk, Lee, Eunice and Artesia Plants' water sampling wells and surface impoundments in the Fall of 1985 during a joint sampling effort by Phillips and the New Mexico Environmental Improvement Division (EID). Each sample that was procured was split between Phillips and the EID. Results of the analysis of Phillips' samples are attached.

Referring to the attached data, please note that for the Lusk, Lee and Eunice Plants, "well #1" corresponds to the "upgradient" well; in the case of the Artesia Plant, "well #3" is the upgradient well. Samples from monitoring wells #1 and #2 at the Eunice Plant were lost because the containers holding these samples froze and broke while being stored in a laboratory refrigerator prior to analysis. Analyses of the samples for metals were performed by Southwestern Laboratories of Midland, Texas. Analyses of the samples for volatile and semivolatile compounds were performed by the Phillips Research Center, located in Bartlesville, Oklahoma.

Phillips requests that EID provide Phillips a copy of all analytical results from the analysis of EID's split samples from the Lusk, Lee, Eunice and Artesia Plants.

It is Phillips' understanding that EID is currently preparing a public notice which, when published by EID in a local newspaper (or broadcast via radio or television), will extend to the public and to Phillips the opportunity to submit comments on the closure plans previously submitted by Phillips for the Lusk, Lee, Eunice and Artesia Plants. The Lusk plan is dated January 23, 1984; the other three plans are dated July 27, 1984. Following the comment period and after any questions are adequately addressed, EID will proceed with the administrative actions necessary to RCRA-close the Lusk, Lee, Eunice and Artesia Plants.

Mr. Jack Ellvinger, Environmental Supervisor
March 21, 1986
Page 2

If you have any questions regarding the Lusk, Lee, Eunice or Artesia Plants, please contact either Frank Collis at (918) 661-1063 or W. C. Stoltz at (918) 661-5613.

Very truly yours,



B. F. Ballard, Director
Environment Control
10 D4 Phillips Building

BFB:FPC:tsv/B:002
Enclosure



SOUTHWESTERN LABORATORIES

119904

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue [915 - 683-3348] • P.O. Box 2150 • Midland, Texas 79701

Client No. 3355796

File No. C-1950-W

Report No. 36758

Report Date 9-20-85

Date Received 8-27-85

Delivered By V. Martin

Report of tests on: **Water**

Client: **Phillips Petroleum Company**

Identification: **Eunice Plant, Well No. 1**

	<u>mg/L</u>
Arsenic-----	0.10
Barium-----Less than	1
Cadmium-----Less than	0.01
Chromium-----Less than	0.05
Lead-----Less than	0.05
Mercury-----Less than	0.002
Selenium-----Less than	0.01
Silver-----Less than	0.05
Nickel-----Less than	0.2
Cyanide-----Less than	0.001

Technician: **JDN, GMB, LT, MT**

Address: **3cc Phillips Petroleum Co.
Attn: Mike Ford**

SOUTHWESTERN LABORATORIES

Harry H. Bunch



SOUTHWESTERN LABORATORIES

119904

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701
Client No. 3355796

File No. C-1950-W

Report No. 36759

Report Date 9-23-85

Date Received 8-27-85

Delivered By V. Martin

Report of tests on: **Water**
Client: **Phillips Petroleum Company**
Identification: **Eunice Plant, Well No. 2**

	<u>mg/L</u>
Arsenic-----	0.13
Barium-----	1.3
Cadmium-----	Less than 0.01
Chromium-----	Less than 0.05
Lead-----	Less than 0.05
Mercury-----	Less than 0.002
Selenium-----	Less than 0.01
Silver-----	Less than 0.05
Nickel-----	Less than 0.2
Cyanide-----	Less than 0.001

Technician: JDN, GMB, LT, MT

Copies 3cc Phillips Petroleum Company
Attn: Mike Ford

SOUTHWESTERN LABORATORIES



SOUTHWESTERN LABORATORIES

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Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701
Client No. 3355796

File No. C-1950-W

Report No. 36760

Report Date 9-20-85

Date Received 8-27-85

Delivered By V. Martin

Report of tests on: **Water**
Client: **Phillips Petroleum Company**
Identification: **Eunice Plant, Well No. 3**

	<u>mg/L</u>
Arsenic-----	0.05
Barium-----Less than	1
Cadmium-----Less than	0.01
Chromium-----Less than	0.05
Lead-----Less than	0.05
Mercury-----Less than	0.002
Selenium-----Less than	0.01
Silver-----Less than	0.05
Nickel-----Less than	0.2
Cyanide-----Less than	0.001

Technician: **JDN, GMB, LT, MT**

Address: **3cc Phillips Petroleum Company**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Larry M. Burch



SOUTHWESTERN LABORATORIES

119904

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

Client No. 3355796

File No. C-1950-W

Report No. 36761

Report Date 9-23-85

Date Received 8-27-85

Delivered By V. Martin

Report of tests on: **Water**
Client: **Phillips Petroleum Company**
Identification: **Eunice Plant, Well No. 4**

	<u>mg/L</u>
Arsenic-----	0.07
Barium-----	1.3
Cadmium-----Less than	0.01
Chromium-----Less than	0.05
Lead-----Less than	0.05
Mercury-----Less than	0.002
Selenium-----Less than	0.01
Silver-----Less than	0.05
Nickel-----Less than	0.2
Cyanide-----Less than	0.001

Technician: JDN, GMB, LT, MT

Copies 3cc Phillips Petroleum Company
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

TABLE I

VOLATILE ORGANIC ANALYSES OF EUNICE PLANT WELL WATERS¹

Sample received: August 28, 1985

Analysis	Concentration, ppb	
	M.W. #3	M.W. #4
Chloromethane	1.1	<1
Vinyl Chloride	<1	<1
Chloroethane	<1	<1
Bromomethane	<1	<1
1,1-dichloroethylene	<1	<1
Methylene Chloride	7.7	6.9
trans-1,2-dichloroethylene	<1	<1
1,1-dichloroethane	<1	<1
Chloroform	1.7	1.5
1,2-dichloroethane	<1	<1
1,1,1-trichloroethane	<1	<1
Benzene	1.1	<1
Carbontetrachloride	<1	<1
1,2-dichloropropane	<1	21
Bromodichloromethane	<1	<1
Trichloroethylene	<1	<1
2-chloroethylvinyl Ether	<1	<1
trans-1,3-dichloropropene	<1	<1
cis-1,3-dichloropropene	<1	<1
1,1,2-trichloroethane	<1	<1
Toluene	3.2	<1
Dibromochloromethane	<1	<1
1,1,2,2-tetrachloroethylene	<1	<1
Chlorobenzene	<1	<1
Ethylbenzene	<1	<1
Bromoform	<1	<1
1,1,2,2-tetrachloroethane	<1	1.1
31509-35-	3	4

¹ Samples for monitoring wells #1 and #2 froze in refrigerator and broke. All of the sample was lost.

TABLE ISEMIVOLATILE ORGANIC ANALYSES OF KUNICE PLANT WELL WATERS¹

Sample received: August 28, 1985

Analysis	Concentration, ppb	
	M.W. #3	M.W. #4
Bis(2-chloroethyl)ether	<20	<20
1,3-dichlorobenzene	<20	<20
1,4-dichlorobenzene	<20	<20
1,2-dichlorobenzene	<20	<20
Bis(2-chloroisopropyl)ether	<20	<20
N-nitrosodi-n-propylamine	<20	<20
Nitrobenzene	<20	<20
Hexachloroethane	<20	<20
Isophorone	<20	<20
n-nitrosodimethylamine	<20	<20
Bis-(2-chloroethoxy)methane	<20	<20
1,2,4-trichlorobenzene	<20	<20
Naphthalene	<20	<20
Hexachlorobutadiene	<20	<20
Hexachlorocyclopentadiene	<20	<20
2-chloronaphthalene	<20	<20
2,6-dinitrotoluene	<20	<20
Dimethylphthalate	<20	<20
Acenaphthylene	<20	<20
Acenaphthene	<20	<20
2,4-dinitrotoluene	<20	<20
Diethylphthalate	<20	<20
Fluorene	<20	<20
4-chlorophenylphenylether	<20	<20
N-nitrosodiphenylamine	<20	<20
4-bromophenylphenylether	<20	<20
Hexachlorobenzene	<20	<20
Phenanthrene	<20	<20
Anthracene	<20	<20
Dibutyl phthalate	<20	<20
Fluoranthene	<20	<20
Pyrene	<20	<20
Benzylbutylphthalate	<20	<20
Bis(2-ethylhexyl)phthalate	<20	<20
Benzidine	<20	<20
Di-n-octylphthalate	<20	<20
Benzo(b&k)fluoranthene	<20	<20
Benzo(a)pyrene	<20	<20
3-3'-dichlorobenzidine	<20	<20
Chrysene & benzo(a)anthracene	<20	<20
Indeno(1,2,3-c,d)pyrene	<20	<20
Dibenzo(a,h)anthracene	<20	<20
Benzo(g,h,i)perylene	<20	<20
Phenol	<20	<20
2-chlorophenol	<20	<20
2-nitrophenol	<20	<20
2,4-dimethylphenol	<20	<20
2,4-dichlorophenol	<20	<20
4-chloro-3-methylphenol	<20	<20
2,4,6-trichlorophenol	<20	<20
2,4-dinitrophenol	<20	<20
4-nitrophenol	<20	<20
2-methyl-4,6-dinitrophenol	<20	<20
Pentachlorophenol	<20	<20
31509-35-	3	4

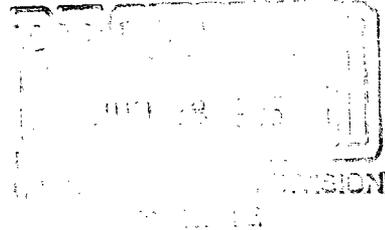
¹ Samples for monitoring wells #1 and #2 froze in refrigerator and broke. All of the sample was lost.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

June 26, 1985

Mr. Dave Boyer
Energy & Minerals Department
Oil Conservation Division
310 Old Santa Fe Trail, Room 206
Santa Fe, New Mexico 87501



Dear Mr. Boyer:

Enclosed is a copy of the site inspection report and sample analyses for Eunice Natural Gasoline Plant in Oil Center, New Mexico prepared by New Mexico Environmental Improvement Division after their site visit on July 24, 1984. If you have any questions about this report, please contact Amy Layne at (214) 767-6421.

Sincerely,

for 
Martha McKee, Chief
Superfund Compliance Section

Enclosure



POTENTIAL HAZARDOUS WASTE SITE
TENTATIVE DISPOSITION

PA/SZ

REGION

6

SITE NUMBER

NM00973

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME EUNICE N.G.P.		B. STREET NM HWY 8 T 215 R36E Sec 5	
C. CITY OIL CENTER (LEA COUNTY)		D. STATE NM	E. ZIP CODE 88266

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED -- NO HAZARD					
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.)					
C. REMEDIAL ACTION NEEDED (If yes, complete Section IV.)					X
D. ENFORCEMENT ACTION NEEDED (if yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)			X		

E. RATIONALE FOR DISPOSITION

The site is a natural gas processing plant with two inactive, unlined evaporation ponds for chromium waste. All wastes are now disposed in offsite injection wells. Two monitoring wells are located onsite-upgradient and downgradient from the ponds. Sampling in Oct. '84 revealed low levels of chromium, arsenic and benzene in groundwater. No groundwater is used in the vicinity. Groundwater flows SE, and drinking water is supplied by groundwater located 2-3 miles N.

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION (mo., day, & yr.)

G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME Amy M. Layne, 6AW-SC

2. TELEPHONE NUMBER (214) 767-6421

3. DATE (mo., day, & yr.) 5/20/85

[Handwritten signature and date: 5/21/85]

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

Private remedial action should be taken to accomplish appropriate closure of evaporation ponds and mitigate damage to groundwater. Closure should be supervised by the Energy and Minerals Dept., Oil Conservation Div.
310 Old Santa Fe Trail Room 206
Santa Fe, NM 87501

B. PROPOSED INVESTIGATIVE ACTIVITY (Detailed Information)

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo., day, & yr)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION				
(1)				
(2)				
(3)				
b. TYPE OF MONITORING				
(1)				
(2)				
c. TYPE OF SAMPLING				
(1)				
(2)				

cc: Mr. Dave Boyer, EMD, Oil Cons. Div.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PA/ST

REGION 6 SITE NUMBER (to be assigned by HQ) NM00973

h

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME: Eunice Natural Gasoline Plant
 B. STREET (or other identifier): NM Highway 8 (see attachment)
 C. CITY: Oil Center
 D. STATE: NM
 E. ZIP CODE: 88266
 F. COUNTY NAME: Lea

G. SITE OPERATOR INFORMATION
 1. NAME: Jim Green, Plant Superintendent
 1/2 Eunice NGP - PO Box 66
 2. TELEPHONE NUMBER: (505) 397-2363
 3. STREET: N/A
 4. CITY: Oil Center
 5. STATE: NM
 6. ZIP CODE: 88266

H. REALTY OWNER INFORMATION (if different from operator of site)
 1. NAME: Phillips Petroleum Co.
 2. TELEPHONE NUMBER: (918) 661-6600
 3. CITY: Bartlesville
 4. STATE: OK
 5. ZIP CODE: 74004

PRELIMINARY REPORT
 This does not constitute
 final opinion of EPA.

I. SITE DESCRIPTION: Facility collects and processes natural gas from nearby fields. Site includes two abandoned surface impoundments and two monitor wells. Wastes now disposed in off site injection wells.

J. TYPE OF OWNERSHIP
 1. FEDERAL 2. STATE 3. COUNTY 4. MUNICIPAL 5. PRIVATE

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.): APR 19, 1985
 B. APPARENT SERIOUSNESS OF PROBLEM
 1. HIGH 2. MEDIUM 3. LOW 4. NONE

C. PREPARER INFORMATION
 1. NAME: ROBERT LOWY
 2. TELEPHONE NUMBER: (505) 984-0020
 3. DATE (mo., day, & yr.): March 13, 1984

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION
 1. NAME: Robert Lowy
 2. TITLE: Project Manager - RCRA 3012
 3. ORGANIZATION: NM Environmental Improvement Division
 NMEID - PO Box 968 - Santa Fe, NM 87504 - 0968
 4. TELEPHONE NO. (area code & no.): (505) 984-0020

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Roelf Ruffner	NMEID - Hobbs Field Office 414 W. Taylor Hobbs, NM 88240	(505) 393-2333
	PRELIMINARY REPORT This does not constitute final opinion of EPA.	

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Jim Green	Plant Superintendent (505) 397-2363	1/2 Eunice NGP PO Box 66
Don Hathcox	Maintenance Foreman (505) 397-2363	Oil Center, NM 88266
Michael Ford	Environmental Analyst (915) 367-1316/1290	Phillips Petroleum Co Permian Basin Regional Office
Rodney Holsworth	(915) 367-1316/1290	4001 Penbrock Odessa, TX 79762

Reviewed by 6AW-SC
 Date 5/13/85

INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (source of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Eunice NLP	(505) 397-2363	PO Box 66, Oil Center NM	oily wastes from produced water
			cooling and boiler water blowdown effluents

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Phillips Corporate Services	(505) 393-5148	1515 W. Marlan Hobbs, NM	oily wastes

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
Rice Engineering	(505) 393-9174 / 14411	122 West Taylor ; Hobbs, NM - underground injection well

G. DATE OF INSPECTION

(mo., day, & yr.)
JULY 24, 1984

H. TIME OF INSPECTION

0955

I. ACCESS GAINED BY: (credentials must be shown in all cases)

 1. PERMISSION 2. WARRANT

J. WEATHER (describe)

Clear ; temp 85-90 degrees

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULT AVAILABLE
a. GROUNDWATER	X	NM Health and Environment Dept Scientific Laboratory Division 700 Camino de Salud NE Albuquerque, NM	OCT 1984
b. SURFACE WATER			
c. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.)

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
N/A		

SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS *N/A*

- a. GROUND b. AERIAL

2. PHOTOS IN CUSTODY OF:

NONE TAKEN

D. SITE MAPPED?

YES. SPECIFY LOCATION OF MAPS:

with report

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

32d 30m 40s

2. LONGITUDE (deg.-min.-sec.)

103d 17m 37s

V. SITE INFORMATION

A. SITE STATUS

1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

2. INACTIVE (Those sites which no longer receive wastes.)

3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

1. NO

2. YES (specify generator's four-digit SIC Code): *2911*

C. AREA OF SITE (in acres)

@ 136 acre

D. ARE THERE BUILDINGS ON THE SITE?

1. NO

2. YES (specify): *Administration offices and gas plant structures*

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/>	A. TRANSPORTER	<input type="checkbox"/>	B. STORER	<input type="checkbox"/>	C. TREATER	<input type="checkbox"/>	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE	<input checked="" type="checkbox"/>	3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
<input checked="" type="checkbox"/>	4. TRUCK	<input checked="" type="checkbox"/>	4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY	<input checked="" type="checkbox"/>	4. SURFACE IMPOUNDMENT
<input checked="" type="checkbox"/>	5. PIPELINE	<input checked="" type="checkbox"/>	5. TANK, BELOW GROUND	<input checked="" type="checkbox"/>	5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY	<input checked="" type="checkbox"/>	8. OTHER (specify):
					9. OTHER (specify):		<i>off-site injection well</i>

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

1. STORAGE 2. INCINERATION 3. LANDFILL 4. SURFACE IMPOUNDMENT 5. DEEP WELL
 6. CHEM/BIO/PHYS TREATMENT 7. LANDFARM 8. OPEN DUMP 9. TRANSPORTER 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

1. LIQUID 2. SOLID 3. SLUDGE 4. GAS

B. WASTE CHARACTERISTICS

1. CORROSIVE 2. IGNITABLE 3. RADIOACTIVE 4. HIGHLY VOLATILE
 5. TOXIC 6. REACTIVE 7. INERT 8. FLAMMABLE
 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Yes - records of waste hauled at Corporate Services HQ in Hebbos

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
NONE		600-800		350		1370		NONE		NONE	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
		bbl/month		gal/mc		lb/day					
<input checked="" type="checkbox"/>	(1) PAINT, PIGMENTS	<input checked="" type="checkbox"/>	(1) OILY WASTES	<input checked="" type="checkbox"/>	(1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/>	(1) ACIDS	<input checked="" type="checkbox"/>	(1) FLYASH	<input checked="" type="checkbox"/>	(1) LABORATORY, PHARMACEUT.
	(2) METALS SLUDGES		(2) OTHER (specify):	<input checked="" type="checkbox"/>	(2) NON-HALOGENATED SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL
	(3) POTW				(3) OTHER (specify):	<input checked="" type="checkbox"/>	(3) CAUSTICS	<input checked="" type="checkbox"/>	(3) MILLING/MINE TAILINGS		(3) RADIOACTIVE
	(4) ALUMINUM SLUDGE					<input checked="" type="checkbox"/>	(4) PESTICIDES bicides	<input checked="" type="checkbox"/>	(4) FERROUS SMELTING WASTES		(4) MUNICIPAL
	(5) OTHER (specify):						(5) DYES/INKS		(5) NON-FERROUS SMELTING WASTES		(5) OTHER (specify):
							(6) CYANIDE		(6) OTHER (specify):		
							(7) PHENOLS				
							(8) HALOGENS				
							(9) PCB				
							(10) METALS				
							<input checked="" type="checkbox"/>	(11) OTHER (specify): diethylene amine			

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	
	a. SOLID	b. LIQ.	c. VA-POR	a. HIGH	b. MED.	c. LOW	d. NONE			
Chromium		X		X				744-04-73	<.10	ppm
Arsenic		X		X				744-03-82	.122	ppm
Benzene		X			X			71432	32	ppb

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

A. HUMAN HEALTH HAZARDS

N/A

II. HAZARD DESCRIPTION (continued)

B. NON-WORKER INJURY/EXPOSURE

N/A

C. WORKER INJURY/EXPOSURE

N/A

D. CONTAMINATION OF WATER SUPPLY

None - all water in area is supplied by wells in Hobbs

E. CONTAMINATION OF FOOD CHAIN

N/A

F. CONTAMINATION OF GROUND WATER

Waters under abandoned surface impoundments contain

Benzene - .032 ppm

Arsenic - .122 ppm

} East Monitor well

G. CONTAMINATION OF SURFACE WATER

N/A

VIII. HAZARD DESCRIPTION (continued)

H. DAMAGE TO FLORA/FAUNA

N/A

I. FISH KILL

N/A

J. CONTAMINATION OF AIR

N/A

K. NOTICEABLE ODORS

Sulfide odors,

L. CONTAMINATION OF SOIL

N/A

M. PROPERTY DAMAGE

N/A

VIII. HAZARD DESCRIPTION (continued)

N. FIRE OR EXPLOSION

N/A

O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

N/A

P. SEWER, STORM DRAIN PROBLEMS

N/A

Q. EROSION PROBLEMS

N/A

R. INADEQUATE SECURITY

Locked fence surrounds facility. Facility is manned 24 hr/day.

S. INCOMPATIBLE WASTES

N/A

VIII. HAZARD DESCRIPTION (continued)

T. MIDNIGHT DUMPING

N/A

U. OTHER (specify):

East monitor well samples also contained tetrahydrofuran (.06 ppm) but this is probably from glue used to cement PVC casing.

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS	50-60	0	20	1/2 mi
2. IN COMMERCIAL OR INDUSTRIAL AREAS	21	21	11	1/2 mi
3. IN PUBLICLY TRAVELLED AREAS	0	0	0	1/2 mi
4. PUBLIC USE AREAS (parks, schools, etc.)	0	0	0	1/2 mi

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) 110-130 ft	B. DIRECTION OF FLOW to southeast	C. GROUNDWATER USE IN VICINITY NONE
D. POTENTIAL YIELD OF AQUIFER UNK	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 2-3 mi	F. DIRECTION TO DRINKING WATER SUPPLY to north
G. TYPE OF DRINKING WATER SUPPLY		
<input type="checkbox"/> 1. NON-COMMUNITY < 15 CONNECTIONS	<input type="checkbox"/> 2. COMMUNITY (specify town): _____ > 15 CONNECTIONS	
<input type="checkbox"/> 3. SURFACE WATER	<input checked="" type="checkbox"/> 4. WELL	

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
Phillips Union N4P	@110-120	on-site	X	
— next nearest well is > 1 mi away				

I. RECEIVING WATER

1. NAME

Monument Draw

2. SEWERS

3. STREAMS/RIVERS

4. LAKES/RESERVOIRS

5. OTHER (specify): Dry arroyo

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

N/A

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

N/A

A. KNOWN FAULT ZONE

B. KARST ZONE

C. 100 YEAR FLOOD PLAIN

D. WETLAND

E. A REGULATED FLOODWAY

F. CRITICAL HABITAT

G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. ALLUVIAL A. C. VERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND Qc1	X	Ogallala Formation	X	Triassic
X	2. CLAY		(caliche-filled)		
	3. GRAVEL				

XIII. SOIL PERMEABILITY

A. UNKNOWN

B. VERY HIGH (100,000 to 1000 cm/sec.)

C. HIGH (1000 to 10 cm/sec.)

D. MODERATE (10 to .1 cm/sec.)

E. LOW (.1 to .001 cm/sec.)

F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

1. YES

2. NO

3. COMMENTS:

H. DISCHARGE AREA

1. YES

2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

< 1%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

to north

J. OTHER GEOLOGICAL DATA

Facility sits on alluvium and/or Ogallala Formation. The Ogallala is highly caliche-filled near-surface throughout the area. Over 100-200 feet of Triassic rhyolites underlie the Ogallala.

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
Discharge permit	NM-CCD	GWR-16	4-25-84	4-25-89	X		

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

NONE YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding
number on form

IB

Additional Remark and/or Explanation

Facility is approximately 8 mi northwest of
Eunice and 2 mi northwest of Oil Center
location is T21S R36E sec 5 - center of
section.

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain
as Necessary.

1. TYPE OF IMPOUNDMENT

(2) Evaporative ponds

2. STABILITY/CONDITION OF EMBANKMENTS

Good

3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)

YES NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE

YES NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT

YES NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT

YES NO

7. IMPOUNDMENT HAS LINER SYSTEM

YES NO

7a. INTEGRITY OF LINER SYSTEM CHECKED

YES NO

7b. FINDINGS

Ponds are dry; upgradient and downgradient monitor wells are in place.

8. SOIL STRUCTURE AND SUBSTRUCTURE

Caliche/Ogallala sands

9. MONITORING WELLS

YES NO

10. LENGTH, WIDTH, AND DEPTH

LENGTH WIDTH DEPTH

11. CALCULATED VOLUMETRIC CAPACITY

12. PERCENT OF CAPACITY REMAINING

13. ESTIMATE FREEBOARD

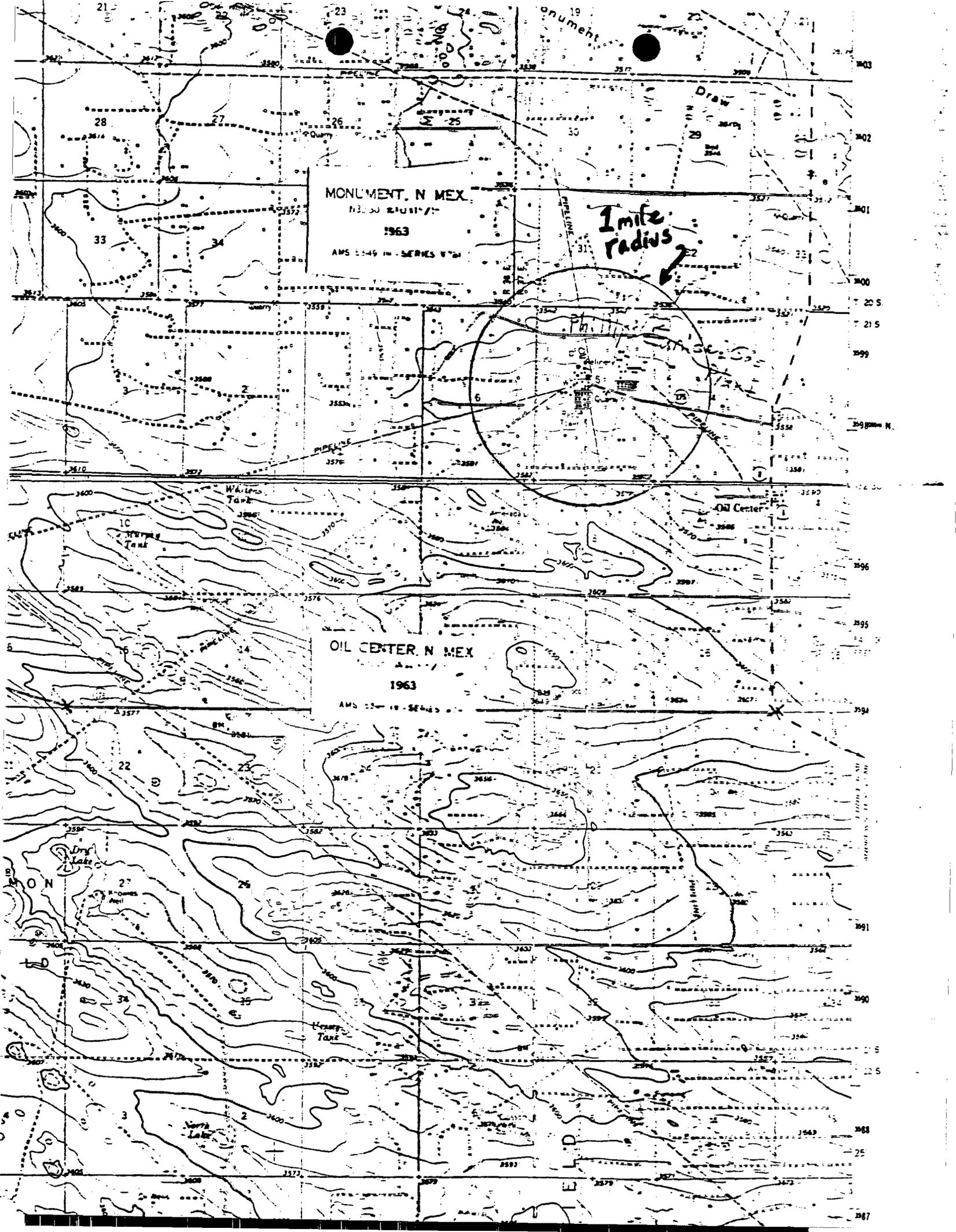
14. SOLIDS DEPOSITION

YES NO

15. DREDGING DISPOSAL METHOD

16. OTHER EQUIPMENT

open -
Chromium waste



MONUMENT, N. MEX.

1963

AMS 5545 in. SERIES 5700

OIL CENTER, N. MEX.

1963

AMS 5545 in. SERIES 5700

1 mile radius

Oil Center

28

27

26

25

30

33

34

3

2

6

1C

22

23

27

34

35

3

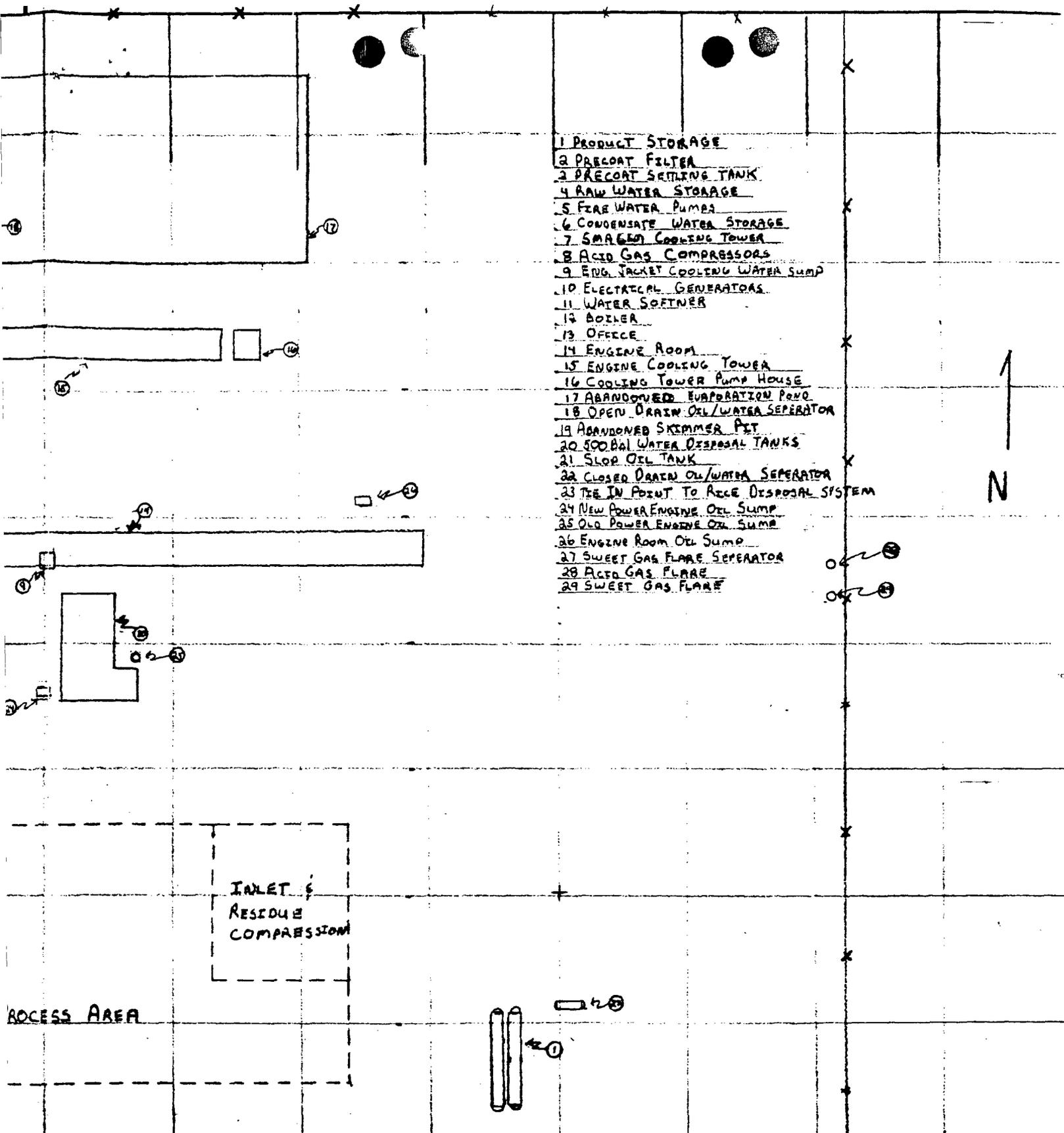
2

2

3

3

3



- 1 PRODUCT STORAGE
- 2 PRECOAT FILTER
- 3 PRECOAT SETTLING TANK
- 4 RAW WATER STORAGE
- 5 FIRE WATER PUMPS
- 6 CONDENSATE WATER STORAGE
- 7 SMALLER COOLING TOWER
- 8 ACID GAS COMPRESSORS
- 9 ENG. JACKET COOLING WATER SUMP
- 10 ELECTRICAL GENERATORS
- 11 WATER SOFTNER
- 12 BOILER
- 13 OFFICE
- 14 ENGINE ROOM
- 15 ENGINE COOLING TOWER
- 16 COOLING TOWER PUMP HOUSE
- 17 ABANDONED EVAPORATION POND
- 18 OPEN DRAIN OIL/WATER SEPARATOR
- 19 ABANDONED SKIMMER PIT
- 20 500 GAL WATER DISPOSAL TANKS
- 21 SLOP OIL TANK
- 22 CLOSED DRAIN OIL/WATER SEPARATOR
- 23 TIE IN POINT TO ACCE DISPOSAL SYSTEM
- 24 NEW POWER ENGINE OIL SUMP
- 25 OLD POWER ENGINE OIL SUMP
- 26 ENGINE ROOM OIL SUMP
- 27 SWEET GAS FLARE SEPARATOR
- 28 ACID GAS FLARE
- 29 SWEET GAS FLARE



INLET &
RESIDUE
COMPRESSION

PROCESS AREA

BARTLESVILLE, OKLAHOMA



AFE NO.
SCALE 1" = 125 FT UNLESS OTHERWISE NOTED
DWG NO.
SH NO.

EUNICE PLANT : PLOT PLAN

TUBS 1/19/84

ATTACHMENT # 1

RECEIPT FOR RECORD

United States
Environmental Protection
Agency

Region 6
1201 Elm Street
Dallas TX 75270

Arkansas, Louisiana,
Oklahoma, Texas,
New Mexico



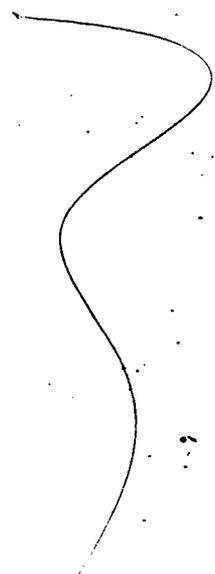
ROBERT LOWY - RCRA 3012 PROJ. MGR.
(Name & Title of EPA Representative)

July 24 1984
(Date)
Robert Lowy
(Signature)

Description of Documents Collected

(Description of letters should include the date and names of addressee and sender; description of records should include title, date, and if signed, the name of person signing.)

- 1. Facility Layout map for Eunice (sketch)
- 2. Groundwater quality data from monitor wells 1-4 at Eunice



Acknowledgement of Facility Representative

The undersigned acknowledges that copies of the documents described above have been collected.

MICHAEL D. FORD
ENVIRONMENTAL ANALYST PHILLIPS OIL CO.
(Name & Title of Facility Representative)

Michael D. Ford
(Signature)

PHILLIPS PETROLEUM ORESSA TEXAS
(Facility Name and Address)

DISTRIBUTION: One copy to Facility Representative
One copy for Inspector's Records
Original to Regional Office (6ASASC)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

July 24, 1984
(Date)

RECEIPT FOR SAMPLES

^{EID}
NAME AND TITLE OF EPA REPRESENTATIVE: ROBERT LOWY
RCRA 3012 PROT MNGR
Robert Lowy
(Signature)

SAMPLES COLLECTED:

SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE	
					REQUESTED	PROVIDED
<u>840724</u>	<u>1200</u>	<u>EUNICE PLANT WEST MONITOR WELL #1</u>	<u>H₂O</u>	<u>1/2 L.</u>	<u>NO</u>	<u>NO</u>
<u>840724</u>	<u>1230</u>	<u>EUNICE PLANT EAST MONITOR WELL #2</u>	<u>H₂O</u>	<u>1/2 L.</u>	<u>NO</u>	<u>NO</u>
<u>840724</u>	<u>1600</u>	<u>Lee Plant Water well</u>	<u>H₂O</u>	<u>1/2 L.</u>	<u>NO</u>	<u>NO</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:
MICHAEL D. FORD, ENVIRONMENTAL ANALYST
PHILLIPS PETROLEUM, ODESSA, TEXAS 79767
Michael D. Ford
(Signature) July 28, 1984
(Date)

DISTRIBUTION:
One copy facility representative
One copy for inspector's records
Original to Regional Office

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 958 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: RM Lowy
BUREAU: CW/HW

LABORATORY

84-0813-D

LAB NUMBER

CRG-813-A,B,C
7/30/84

SLD Users Code No. 51.28

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water Soil Other
Water Supply and/or Code No. Phillips - Eunice NGP
City & County EUNICE ; Lea Co
Collected (date & time) 7-24-84 / 1200 By (name) Lowy
pH= _____; Conductivity= _____ umho/cm at _____ °C; Chlorine Residual= _____
Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____
Sampling Location, Methods & Remarks (i.e. odors etc.)
WEST MONITOR WELL

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed Robert Lowy
I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed Roelf Rutner - Hubbs

Method of Shipment to Laboratory Hand
THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as: 8407241200 specimen _____; duplicate _____; triplicate _____; blank(s) _____ and 0 amber glass jug(s) with teflon-lined cap(s) identified as _____ and 1 other container(s) (describe) Cubitainer 12 identified as 8407241200.
Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
P-ICE: HNO₃ Sample stored in an ice bath.
P-Na₂O₃S₂: Sample preserved with 3 mg Na₂O₃S₂/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.
Disposition of Sample _____. Seal(s) Intact: Yes No .
Signature(s) _____

I (we) certify that this sample was transferred from _____ to RECEIVED on (date & time) Oct 29 1984 and that the statements in this block are correct.
Disposition of Sample _____. Seal(s) Intact: Yes No .
Signature(s) _____

LIQUID WASTE/GROUND WATER SURVEILLANCE

REPORT TO: Environmental Improvement Division
Health & Environment Department
P.O. Box 358 - Crown Building
Santa Fe, New Mexico 87504-0968
ATTENTION: RM Lowy
BUREAU: GW/HW

LABORATORY

LABORATORY NUMBER

CRG-912-HBC
7/30/84

84-0812-D

SLD Users Code No. 51.28

ALL CONTAINERS WHICH THIS FORM ACCOMPANIES ARE COLLECTIVELY REFERRED TO AS "SAMPLE".

CERTIFICATE OF FIELD PERSONNEL

Sample Type: Water Soil Other _____

Water Supply and/or Code No. Phillips - Eunice NGR

City & County Eunice, Lea Co.

Collected (date & time) 7-24-84/1230 By (name) RM Lowy

pH= _____; Conductivity= _____ umho/cm at _____ °C; Chlorine Residual= _____

Dissolved Oxygen= _____ mg/l; Alkalinity= _____; Flow Rate= _____

Sampling Location, Methods & Remarks (i.e. odors etc.)
EAST MONITOR WELL

I certify that the statements in this block accurately reflect the results of my field analyses, observations and activities. Signed RM Lowy

I certify that I witnessed these field analyses, observations and activities and concur with the statements in this block. Signed RUFFIN - Hobbs

Method of Shipment to Laboratory
THIS FORM ACCOMPANIES 2 septum vials with teflon-lined discs identified as: 8407241230 specimen _____; duplicate _____; triplicate _____; blank(s) _____, and _____ amber glass jug(s) with teflon-lined cap(s) identified as _____, and 1 other container(s) (describe) Cubitainer identified as 8407241230. Containers are marked as follows to indicate preservation (circle):
NP: No preservation; sample stored at room temperature (~20°C).
ICE: HNO₃ Sample stored in an ice bath.
P-Na₂O₃S₂: Sample preserved with 3 mg Na₂O₃S₂/40 ml and stored at room temperature.

CERTIFICATE(S) OF SAMPLE RECEIPT

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) _____ and that the statements in this block are correct.

Disposition of Sample _____ Seal(s) Intact: Yes No

Signature(s) _____

RECEIVED

I (we) certify that this sample was transferred from _____ to _____ at (location) _____ on (date & time) OCT 29 1984 and that the statements in this block are correct.

Disposition of Sample _____ Seal(s) Intact: LIQUID WASTE/GROUND WATER Yes No

Signature(s) _____

ANALYSES REQUESTED

LAB. NO. 812

PLEASE CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE TYPE OF ANALYTICAL SCREENS REQUIRED. WHENEVER POSSIBLE LIST SPECIFIC COMPOUNDS SUSPECTED OR REQUIRED.

QUALITATIVE	QUANTITATIVE	PURGEABLE SCREEN	QUALITATIVE	QUANTITATIVE	EXTRACTABLES SCREEN
		ALIPHATIC HYDROCARBON SCREEN			ALIPHATIC HYDROCARBONS
		AROMATIC HYDROCARBON SCREEN		X	CHLORINATED HYDROCARBON PESTICIDES
		HALOGENATED HYDROCARBON SCREEN			CHLOROPHOXY ACID HERBICIDES
X		GAS CHROMATOGRAPH/MASS SPECTROMETER			HYDROCARBON FUEL SCREEN
					ORGANOPHOSPHATE PESTICIDES
				X	POLYCHLORINATED BIPHENYLS (PCB's)
					POLYNUCLEAR AROMATIC HYDROCARBONS
				X	Phenols - method 604
		SPECIFIC COMPOUNDS			SPECIFIC COMPOUNDS

REMARKS:

ANALYTICAL RESULTS

COMPOUND	CONC-ENTRATION	COMPOUND	CONC-ENTRATION
Benzene	32 µg/l	PCB's (min. detection limit)	8.4 µg/l
Tetrahydrofuran U-213	60 µg/l		
2-Butanone	150 µg/l		
[Trimethylbenzenes]	[3 µg/l]		
No other purgeables detected	*		
chlorinated hydrocarbon pesticides (min. detection limit)		= 8.4 µg/l	
		* DETECTION LIMIT	

REMARKS: No chlorinated hydrocarbon pesticides or PCB's detected (3.6 to 8.4 µg/l).
Insufficient sample remained for phenols analysis.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes No . Seal(s) Broken by L. Meyers date 9/6/84
 I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements in this block and the analytical data on this page accurately reflect the analytical results for this sample.
 Date(s) of analysis 9/6/84 . Analysts signature L. Meyers
 I certify that I have reviewed and concur with the analytical results for this sample and

CHEMICAL and PHYSICAL ANALYSES
for WATER SAMPLES

Date received: 7-30-84
Lab No.: AM-942
SLD user code No.: 51.28

CONSULT SLD Lab Annex L for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: Check individual items for analysis [Mark appropriate box(es)]
 1 INTERIM PRIMARY PARAMETER GROUP
 2 WATER SUPPLY SYSTEM CODE NO.
 3 COMPLETE SECONDARY
 ORGANIC
 RADIOLOGICAL

Water Supply System Name: EUNICE NGP
 City or Location: Lea
 County: Lea
 Check one: TREATED WATER RAW WATER

Collection Date: 7-24-84 1200
 Collection Time: WEST MONITOR WELL
 Collected By: RM Lowry
 Owner: Phillips Petrol.

TYPE OF SYSTEM (Check one):
 PRIVATE COMMUNITY NON-COMMUNITY

SOURCE: Spring Lake Well-Depth
 Drain Stream Pool Other (specify) _____

Report to: RM LOWRY - NMEID
 Address: PO BOX 968
 SANTA FE, NM 87504-0968

LAT. _____ LONG. _____

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL	mg/l	HEAVY METALS	mg/l	PARAMETER	mg/l	ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue		01000 Arsenic	<0.005	X		39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)		01005 Barium		ICAP		39732 Lindane	
00900 Tot. Hardness (as CaCO ₃)		00620 Nitrate (as N)		00095 Conductance Micromhos 25°C		01025 Cadmium				38270 Methoxychlor	
00915 Calcium (as Ca)		00430 Alkalinity (as CaCO ₃)		00400 pH		01030 Chromium				39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO ₃)		01330 Odor		01049 Lead				39730 2,4-D	
01015 Iron-Total (as Fe)		00445 Carbonate (as CO ₃)		00080 Color		07180 Mercury	<0.0005			39740 2,4,5-TP	
01056 Manganese (as Mn)		00945 Sulfate (as SO ₄)		00070 Turbidity		01145 Selenium	<0.005			RECEIVED	
						01075 Silver				01501 Gross Alpha	
										03501 Gross Beta	
										09501 Radium-226	
										11501 Radium-228	
										LIQUID WASTE/CORJNU WATER SURVEILLANCE	

LABORATORY REMARKS:
 See attached ICAP Screen.

Reviewed by: [Signature]
 Date reported: 10/1/84

Lab Number: NM 942Date Submitted: 7/30/84By: R. LowySample Code: EUNICE NBP: WESTDate Reported: 10/1/84By: mfDeterminationConcentration (µg/ml)

Aluminum	<u><0.10</u>
Barium	<u>0.64</u>
Beryllium	<u><0.10</u>
Boron	<u>1.40</u>
Cadmium	<u><0.10</u>
Calcium	<u>210.</u>
Chromium	<u><0.10</u>
Cobalt	<u><0.10</u>
Copper	<u><0.10</u>
Iron	<u><0.10</u>
Lead	<u><0.10</u>
Magnesium	<u>110.</u>
Manganese	<u>2.9</u>
Molybdenum	<u><0.10</u>
Nickel	<u><0.10</u>
Silicon	<u>3.7</u>
Silver	<u><0.10</u>
Strontium	<u>5.4</u>
Tin	<u>0.11</u>
Vanadium	<u><0.10</u>
Yttrium	<u><0.10</u>
Zinc	<u><0.10</u>

CHEMICAL and PHYSICAL ANALYSES
for WATER SAMPLES

Date received 7-30-84
Lab No. HM-941
SLD user code No. 51.28

CONSULT SLD Lab Annex L for proper presentation of sample(s). TYPE or PRINT with Ball Point Pen

CHEMICAL ANALYSES: Check individual items for analysis [Mark appropriate box(es)]
 1 2 3
 TYPE OF CHEMICAL ANALYSIS: Complete Secondary Organic Radiological

Water Supply System Name: Eunice NGP
 City or Location: Eunice
 County: Lea
 Check one: TREATED WATER RAW WATER

Collection Date: 7-24-84
 Collection Time: 1230
 Collection Point: EAST MONITOR WELL
 Owner: Phillips Reful

Report to: RM LOWY - EID-6W/HW
 Address: PO BOX 968
 SANTA FE, NM 87504-0968

TYPE OF SYSTEM (Check one): PRIVATE PUBLIC Community Non-community

SOURCE: Spring Lake Well-Depth
 Drain Stream Pool Other (specify):

LAT. ° ' " LONG ° ' "

CATIONS	mg/l	ANIONS	mg/l	PHYSICAL	HEAVY METALS	mg/l	PARAMETER	ORGANIC	mg/l
00930 Sodium (as Na)		00940 Chloride (as Cl)		70300 Total Filterable Residue	X 01000 Arsenic	0.122	X ICAP	39390 Endrin	
00935 Potassium (as K)		00950 Fluoride (as F)		38260 Foaming Agents (as Las)	01005 Barium			39732 Lindane	
00900 Tot. Hardness (as CaCO ₃)		00620 Nitrate (as N)		00095 Conductance Micromhos 25°C	01025 Cadmium			38270 Methoxychlor	
00915 Calcium (as Ca)		00430 Alkalinity (as CaCO ₃)		00400 pH	01030 Chromium			39400 Toxaphene	
00925 Magnesium (as Mg)		00440 Bicarbonate (as HCO ₃)		01330 Odor	01049 Lead			39730 2,4-D	
01045 Iron-Total (as Fe)		00445 Carbonate (as CO ₃)		00080 Color	X 07180 Mercury	<0.0005		RECEIVED	
01056 Manganese (as Mn)		00945 Sulfate (as SO ₄)		00070 Turbidity	X 01145 Selenium	<0.0005		39740 2,4,5-TP	
					01075 Silver			00715-5 1984	

LABORATORY REMARKS:
 See attached ICAP screen.

Reviewed by: [Signature]
 Date reported: 10/1/84

ICAP SCREEN

Lab Number: Am 941

Sample Code: EUNICE NGP : EAST WELL

Date Submitted: 7/30/84

Date Reported: 10/1/84

By: R. Lowy

By: mj

Determination

Concentration (ug/ml)

Aluminum	< 0.10
Barium	0.52
Beryllium	< 0.10
Boron	0.58
Cadmium	< 0.10
Calcium	180.
Chromium	< 0.10
Cobalt	< 0.10
Copper	< 0.10
Iron	0.12
Lead	< 0.10
Magnesium	92.
Manganese	1.0
Molybdenum	< 0.10
Nickel	< 0.10
Silicon	28.
Silver	< 0.10
Strontium	2.9
Tin	< 0.10
Vanadium	< 0.10
Yttrium	< 0.10
Zinc	< 0.10

LIQUID WASTE/GROUND WATER
SURVEILLANCE

OCT 5 1984

RECEIVED

ATOMIC ABSORPTION ANALYSES

Arsenic 0.22 $\mu\text{g/ml}$

Selenium <0.005 $\mu\text{g/ml}$

Mercury <0.0005 $\mu\text{g/ml}$

ATTACHMENT 6

Water Treating Chemicals Usage

Lee Plant Chemicals

Boilers	- Chemical Name	Basic Function	Amounts Used
	Dearborn 62	Liquid Sulfite	1 gal/day
	Dearborn 150	Alkaline Solution (pH of 11)	3/4 gal/day
	Dearborn 244	Liquid Phosphate	1/2 gal/day
	Sludgetrol 651	Dispersant	2 gal/day
	Steamate 2005	Neutralizing Agent	1-1/2 gal/day
Cooling Towers - Chemical Name			
	Endcor 4607	Phosphate Inhibitor	35 lbs/day
	Endcor 4623	Dispersant	24.5 lbs/day
	Dearcide 709	Biological Control	2.3 lbs/week

Eunice Plant Chemicals

Boilers	- Chemical Name	Basic Function	Amounts Used
	Dearborn 66	Liquid Sulfite	3 lbs/day
	Dearborn 244	Liquid Phosphate	2.5 lbs/day
	Sludgetrol 651	Dispersant	2 lbs/day
	Steamate 2005	Neutralizing Agent	1 gal/day
Cooling Towers - Chemical Name			
	Polymate 983	Phosphate Inhibitor	33 lbs/day
	Dearcide 716	Biological Control	13 lbs/week
	Dearcide 723	Biological Control	2 lbs/week

Ed L. Reed and Associates, Inc.

Consulting Hydrologists

MIDLAND · CORPUS CHRISTI ·
TEXASED L. REED P.E.
CHAIRMAN OF THE BOARDA. JOSEPH REED
PRESIDENTCHESTER F. SKRABACZ
VICE PRESIDENT FIELD OPERATIONS1109 N. BIG SPRING
MIDLAND, TEXAS 79701
915 682-0556V. STEVE REED
EXECUTIVE VICE PRESIDENT708 GUARANTY PLAZA
CORPUS CHRISTI, TEXAS 78475
512-883-1353

April 3, 1984

Mr. J. W. Maharg
Engineering Director, PBR
Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762RE: Eunice Plant
Ground Water Monitoring

Dear Mr. Maharg:

Attached please find locations for 3 ground water sampling wells whose water should contain chromium from the past impoundment if infiltration has occurred. On the same map is a location which should provide a representative sample of native ground water unaffected by the impoundment. The data which we have available indicates that the hydraulic gradient in the area should be to the southeast. However with this plant site very close to the western limits of the Ogallala it is conceivable that there is a component of ground water movement to the west. It is therefore possible that the location on the west side of the skimmer impoundment may also detect some chromium if the chromium has infiltrated to the ground water. If this should be the case the hydraulic gradient should be re-defined based upon the data from the monitor wells and an up-gradient monitor well constructed.

These wells should be completed by drilling an 8-inch hole to the top of the Triassic red beds (expected to occur at a depth of about 100-150 feet). Four-inch PVC casing should be set to the top of the Triassic with the entire saturated interval of the well screened using mill slotted 4-inch PVC. We recommend 30 thousandths mill slotting with the annular space between the drilled hole and the well casing being gravel packed with Perma-sand 8/16 frac sand. The gravel should be brought to within 15 feet of the surface and the annular space between the gravel and the top of the hole filled with neat cement. We would advise about a one-foot layer of sand be placed on top of the gravel before the neat cement is placed in the annular space in order to prevent the slurry from penetrating into the gravel.

Following completion of the well, a pump should be placed in the casing and the water in the well pumped until clear water is obtained. A water sample can be collected at that time to establish the base line conditions. Samples collected subsequent to this initial sampling should

be taken only after two casing volumes of water have been removed from the monitor well immediately prior to sampling.

If you should have any questions regarding these recommendations please advise.

Very truly yours,

ED L. REED & ASSOCIATES, INC.

A. Joseph Reed

A. Joseph Reed

AJR:lb

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 383-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W

Customer No. 3055796

Report No. 35531

Report Date 6-4-84

Date Received 6-4-84

Report of tests on: **Water**

Client: **Phillips Petroleum Company**

Identification: **Junice Plant, Monitor Well No. 1, Sampled at well completion**

Chromium-----Less Than 0.05 mg/L

Technician: **GMB**

Copies 3 cc: **Phillips Petroleum Co.**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Larry M. Burch

W/L

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
 Customer No. 3355796
 Report No. 35565
 Report Date 6-14-84
 Date Received 6-11-84

Report of tests on: **Water**
 Client: **Phillips Petroleum Company**
 Identification: **Eunice Plant, Monitor Well No. 1, as shown**

<u>Sample Point No.</u>	<u>Chromium, mg/L</u>
1-----	* 0.05
2-----	* 0.05
3-----	* 0.05
4-----	* 0.05

*designates "less than"

Technician: GMB

Copies 3 cc: Phillips Petroleum Company
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Harry M. Bunch

SWL

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
Customer No. 3355796
Report No. 35565

Report Date 6-14-84

Report of tests on: **Water**

Date Received 6-11-84

Client: **Phillips Petroleum Company**

Identification: **Eunice Plant, Monitor Well No. 1, Sample Point 1**

	<u>mg/L</u>
Calcium-----	162
Magnesium-----	103
Sodium (Calc.)-----	506
Carbonate-----	None
Bicarbonate-----	312
Sulfate-----	165
Chloride-----	1064
 Total Dissolved Solids (Calc.)-----	 2154
Total Hardness (as CaCO ₃)-----	830
pH-----	7.34

Technician: **NH, SAM**

Copies 3 cc: **Phillips Petroleum Company**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Amy M. Breen

SWL

115904

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 W. Industrial Avenue [915 - 683-3348] • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
Customer No. 3355796
Report No. 35532
Report Date 6-4-84
Date Received 6-4-84

Report of tests on: **Water**
Client: **Phillips Petroleum Company**
Identification: **Eunice Plant, Monitor Well No. 2, Sampled at well completion**

Chromium-----Less Than 0.05 mg/L

Technician: GMB

Copies 3 cc: Phillips Petroleum Co.
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Ray M. Bussell

S.W.L.

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915-683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
Customer No. 3355796
Report No. 35566
Report Date 6-14-84
Date Received 6-11-84

Report of tests on: Water
Client: Phillips Petroleum Company
Identification: Eulice Plant, Monitor Well No. 2, as shown

<u>Sample Point No.</u>	<u>Chromium, mg/L</u>
1-----	* 0.05
2-----	* 0.05
3-----	* 0.05
4-----	* 0.05

*designates "less than"

Technician: GMB

Copies 3 cc: Phillips Petroleum Co.
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Gary M. Bueck

SWL

SOUTHWESTERN LABORATORIES

Materials: environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 W. Industrial Avenue [915 - 683-3348] • P.O. Box 2150 Midland, Texas 79701

File No. C-1950 W
Customer No. 3355796
Report No. 35566
Report Date 6-14-84
Date Received 6-11-84

Report of tests on: **Water**
Client: **Phillips Petroleum Company**
Identification: **Eunice Plant, Monitor Well No. 2, Sample Point 1**

	<u>mg/L</u>
Calcium-----	102
Magnesium-----	84
Sodium (Calc.)-----	285
Carbonate-----	None
Bicarbonate-----	771
Sulfate-----	26
Chloride-----	397
Total Dissolved Solids (Calc.)-----	1280
Total Hardness (as CaCO ₃)-----	600
pH-----	7.42

Technician: **KLH, SAM**

Copies 3 cc: **Phillips Petroleum Co.**
Attn: **Mike Ford**

SOUTHWESTERN LABORATORIES

Aary M. Burch

SWL

119904

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
Customer No. 3355796
Report No. 35530
Report Date 6-4-84
Date Received 6-4-84

Report of tests on: **Water**

Client: **Phillips Petroleum Company**

Identification: **Eunice Plant, Monitor Well No. 3, Sampled at well completion**

Chromium-----Less Than 0.05 mg/L

Technician: **GMB**

Copies 3 cc: **Phillips Petroleum Co.**
Attn: **Mike Ford**

SOUTHWESTERN LABORATORIES

Harry M. Bunch



SOUTHWESTERN LABORATORIES

119904

Materials, environmental and geotechnical engineering, non-destructive, metallurgical and analytical services

1703 W. Industrial Avenue [915 - 683-3348] • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
 Customer No. 3355796
 Report No. 35567
 Report Date 6-14-84
 Date Received 6-11-84

Report of tests on: **Water**
 Client: **Phillips Petroleum Company**
 Identification: **Eunice Plant, Monitor Well No. 3, as shown**

<u>Sample Point No.</u>	<u>Chromium, mg/L</u>
1-----	* 0.05
2-----	* 0.05
3-----	* 0.05
4-----	* 0.05

*designates "less than"

Technician: GMB

Copies 3 cc: Phillips Petroleum Company
 Attn: Mike Ford

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1703 W. Industrial Avenue [515-683-3348] • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W

Customer No. 3355796

Report No. 35567

Report Date 6-14-84

Date Received 6-11-84

Report of tests on: **Water**

Client: **Phillips Petroleum Company**

Identification: **Eunice Plant, Monitor Well No. 3, Sample Point 1**

	<u>mg/L</u>
Calcium-----	204
Magnesium-----	164
Sodium (Calc.)-----	372
Carbonate-----	None
Bicarbonate-----	800
Sulfate-----	333
Chloride-----	702
Total Dissolved Solids (Calc.)-----	2175
Total Hardness (as CaCO ₃)-----	1184
pH-----	7.35

Technician: **KLH, SAM**

Copies 3 cc: **Phillips Petroleum Company**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Sary M. Burch

SWL

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1703 W. Industrial Avenue [915 - 683-3348] • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
 Customer No. 3355796
 Report No. 35529
 Report Date 6-4-84
 Date Received 6-4-84

Report of tests on: **Water**

Client: **Phillips Petroleum Company**

Identification: **Eunice Plant, Monitor Well No. 4, Sampled at well completion**

Chromium-----Less Than 0.05 mg/L

Technician: **GMB**

Copies 3 cc: **Phillips Petroleum Co.**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Harry M. Beach

SW

SOUTHWESTERN LABORATORIES

119904

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
Customer No. 3355796
Report No. 35568
Report Date 6-14-84
Date Received 6-11-84

Report of tests on: Water
Client: Phillips Petroleum Company
Identification: Eunice Plant, Monitor Well No. 4, as shown

Table with 2 columns: Sample Point No. and Chromium, mg/L. Rows 1-4 show Chromium values of 0.05 mg/L.

*designates "less than"

Technician: GMB

Copies 3 cc: Phillips Petroleum Company
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Signature of Larry M. Bunch


SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

703 W. Industrial Avenue [915 - 683-3348] • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
 Customer No. 3355796
 Report No. 35568
 Report Date 6-14-84
 Date Received 6-11-84

Report of tests on: **Water**

Client: **Phillips Petroleum Company**

Identification: **Eunice Plant, Monitor Well No. 4, Sample Point 1**

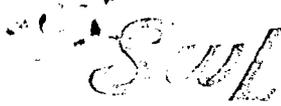
	<u>mg/L</u>
Calcium-----	184
Magnesium-----	137
Sodium (Calc.)-----	329
Carbonate-----	None
Bicarbonate-----	651
Sulfate-----	147
Chloride-----	745
 Total Dissolved Solids (Calc.)-----	 1867
Total Hardness (as CaCO ₃)-----	1024
pH-----	7.40

Technician: **RLH, SAM**

Copies 3 cc: **Phillips Petroleum Company**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Tary M. Bunch


SOUTHWESTERN LABORATORIES

Materials, environmental, and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W

Customer No. 3355796

Report No. 35528

Report Date 6-4-84

Date Received 6-4-84

Report of tests on: Water

Client: Phillips Petroleum Company

Identification: Eunice Plant, Monitor Well Drilling Water

Chromium-----Less Than 0.05 mg/L

Technician: GMB

Copies 3 cc: Phillips Petroleum Company
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

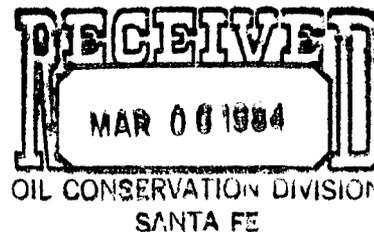
Larry N. Bunch



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP January 23, 1984
Permian Basin Region



Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 80001

As required by Part 3-106-C of the Water Quality Regulations, and your meeting on January 4, 1984, with R. G. Stubbs, of this office, Phillips Petroleum Company submits the attached discharge plan for our Eunice Gasoline Plant, Lea County, New Mexico.

Although we have already submitted a discharge plan for Eunice Plant, we felt that due to the amount of additional information requested and the time since the original plan was submitted, it would clarify matters if a new discharge plan was submitted containing all of the additional information requested.

If you have any questions regarding this matter, please contact R. G. Stubbs at (915) 367-1302.


E. E. Clark
Regional Manager

EEC/brd

PRO,PLAN

DISCHARGE PLAN
PHILLIPS PETROLEUM COMPANY
EUNICE GASOLINE PLANT
SECTION 5, T-21-S, R-36-E, LEA COUNTY

I. GENERAL PROCESS DESCRIPTION

Eunice Plant's basic function is to remove the ethane and heavier hydrocarbon fractions from casinghead and gas well gas. The plant receives sour hydrocarbon gas streams from 5, 50, and 550 psig gathering systems. The gas from the 5 psig system is compressed to 50 psig and commingled with the 50 psig gathering system gas before going to an El Paso Natural Gas Company compressor station where it is compressed to 550 psig. The 550 psig gas from the El Paso Natural Gas compressor station is commingled with the inlet 550 psig gas stream and sent to a diethanolamine gas treater where the hydrogen sulfide and carbon dioxide that is in the gas stream is removed. The hydrogen sulfide and carbon dioxide that is removed is sent to an El Paso Natural Gas Company sulfur recovery unit. The sweet inlet gas is now sent to a molecular sieve dehydrator where the gas is dehydrated to a water content of less than 1 ppmv. The gas is now sent to two large gas turbine compressors where it is compressed to a pressure of approximately 900 psig. From the compressors the gas stream flows to a turboexpander plant where it is cooled by propane refrigeration and expansion to a temperature of approximately -140°F. The turboexpander plant produces two hydrocarbon streams, the first being a liquid hydrocarbon stream comprised of approximately 85% of the ethane and all of the propane and heavier hydrocarbons that entered the plant. The liquid hydrocarbon stream has a vapor pressure of approximately 350 psig and is sent to two 144" ID X 91'-3 1/2" S/S, 400 psig MWP vessels, for temporary storage before being delivered to a pipeline for sale.

The second hydrocarbon stream produced from the turboexpander plant is comprised primarily of methane gas. This gas stream is compressed to approximately 550 psig before being delivered to El Paso Natural Gas Company for sale.

Attachments #1 and #2 are a plot plan and process flow sheet of the plant

II. PLANT WATER SYSTEMS

A. Raw Water

Eunice Plant receives its raw water from El Paso Natural Gas Company's water wells located in Section 13, T-21-S, R-36-E, Lea County. These wells are completed at a depth of approximately 125 ft and supply 3100 bbl/day of fresh water to the plant. Attachment #3 is a total spectrum analysis of this water. Attachment #4 shows the location of our raw water feed line.

B. Potable Water

A small fraction of the raw water is chlorinated and used as potable

water for the plant's office and control room.

C. Cooling Tower System

The cooling tower system is comprised of two open recirculating cooling towers. The smallest of these towers has a recirculation rate of 450 GPM with an approximate raw water make up rate of 6 GPM. The larger of the two towers has a recirculation rate of 6000 GPM with an approximate raw water make up rate of 80 GPM. The raw water in these towers is recirculated approximately four times producing 737 bbl/day of waste water. Approximately 3.85 gal/day of Dearborn 983 (Attachment #5) is being added on a continuous basis to the cooling tower water for scale and corrosion inhibition. Small quantities of sulfuric acid are also added to the cooling tower water when needed to maintain a pH of approximately 7.8 in the water. Dearcide 702 (Attachment #6A) and 716 (Attachment #6) are being added to the cooling tower water to control bacteria, algae and fungus. Attachment #7 is a simplified schematic of the cooling tower systems.

D. Boiler Water System

The boiler water system is comprised of a small zeolite water softener and a 50 psig boiler. The raw make-up water to this system passes through a zeolite softener where the calcium and magnesium in the make-up water are removed. The soft water from the zeolite softener flows to a holding tank before being pumped into the boiler. The boiler, which produces 25 psig to 50 psig steam, is used primarily to produce condensate water for make-up into the diethanolamine treater and engine jacket cooling system. The steam produced from the boiler passes through a series of air and water condensers, where it is condensed, before going to a condensate storage tank for distribution as needed. The boiler does not run continuously but only as needed. When the boiler is running, it uses 3 lbs/day of Dearborn 66 (Attachment #8), .25 gal/day of Dearborn 244 (Attachment #9), .22 gal/day of Sludgtrol 651 (Attachment #10) for corrosion and scale inhibition. Attachment #11 is a process flow sheet of the boiler water system.

E. Engine Jacket Cooling System

The engine jacket cooling system cools eighteen 230 hp Clark engines and five 400 hp Cooper Bessemer engines. Engine jacket cooling water is pumped out of a fiber glassed lined cement sump through the engine jackets and into cooling coils located in the cooling bays of the large cooling tower. The engine jacket water then flows from the cooling coils back into the cement sump. Dearborn 537 (Attachment #12) is used for corrosion inhibition within the system.

F. Anti-freeze Engine Jacket Cooling System

An ethylene glycol anti-freeze cooling system is used to cool five engines at the plant. The cooling systems for each of these engines are totally self-contained. A buried 42" ID X 6'0" S/S, which is common to all these engines, is used as a make-up/drain tank. If an engine is being worked on, its anti-freeze charge is drained to this tank. When the

work is complete the anti-freeze is pressured back into the engine from this tank.

III. PLANT DRAIN AND DISPOSAL SYSTEM

A. Closed Drain System

The closed drain system is a pressure drain system constructed of buried, externally coated schedule 40 steel pipe. This drain system empties into an internally coated, above ground, vertical oil/water separator. The oil from this separator overflows into a 1000 bbl storage tank from where it is trucked for sale. The water from the oil/water separator flows into the open drain system's oil/water separator. Attachment #13 is a process flow sheet of this system.

B. Open Drain System

The open drain system is an atmospheric drain system constructed of buried, externally coated, schedule 40 steel pipe. This drain system empties into a below grade, internally coated oil/water separator. The oil from this vessel is pumped to the closed drain oil/water separator. The water from this vessel is pumped into a 500 bbl holding tank before disposal into Rice Engineering's Eumont salt water disposal system. Attachment #13 is a process flow drawing of this system.

C. Final Waste Water Disposal System

This system is comprised of two 500 bbl, internally coated, stock tanks. Approximately 800 bbls/day of wastewater from the open drain oil/water separator and blowdown from the large cooling tower flow into one of these tanks before flowing, by gravity, into Rice Engineering's Eumont salt water disposal system. These tanks have approximately 1-1/2 days of storage time should the Eumont system be shut down. If the Eumont disposal system should be shut down for longer than this time period, the waste water will be trucked to one of the various salt water disposal systems in the area. Attachment #13 is a process flow drawing of this system. Attachments #14 and #15 are drawings of Rice Engineering's Eumont disposal system and well. Attachment #16 is an analysis of the waste water being delivered to the Rice system.

IV. SOLID WASTE DISPOSAL

A. General Waste

All of our Class II solid waste (i.e. paper, spent air filters, etc.) is hauled to an off site landfill by Waste Control of New Mexico, a Hobbs based company.

B. Spent Molecular Sieve

Approximately every four to five years the molecular sieve dehydrators at the plant are recharged. The spent molecular sieve (Attachment #17) is disposed of on site. Approximately 52,400 pounds of this material is disposed each time the beds are recharge.

C. Spent Precoat Material

The diethanolamine sweetening process employs a precoat filter to remove fine particulate matter that the diethanolamine solution removes from the inlet gas. This filter is a batch regenerating filter which is comprised of several filter tubes. At the beginning of each batch filtering cycle, these tubes are precoat with a diatomaceous earth filtering material. Once the filter elements have been precoat the filter is put on line and filters the diethanolamine solution until a certain pressure differential across the filter is reached. At this time, the filter is backwashed using condensate water. The backwash water along with the spent precoat material flows into a settling tank. The precoat material settles out of the backwash water, which overflows into the open drain system, and is accumulated in the bottom of the settling tank. The solids from the settling tank are periodically emptied into a steel bin where they are allowed to dry before being disposed of on site. Approximately 4500 lbs/yr of this material is disposed of. Attachment #18 is a material data sheet for the precoat material.

V. MISCELLANEOUS INFORMATION

A. Ground Water

Attachment #19 is an analysis of a groundwater sample that was obtained from a water well approximately one mile east of the plant. Attachment #20 shows the approximate location of this well.

B. Topography

Attachment #20 is a topographic map of the area surrounding Eunice plant. As can be seen from this map, there are no bodies of water or watercourses within a one mile radius of the plant.

C. Flooding Potential

None.

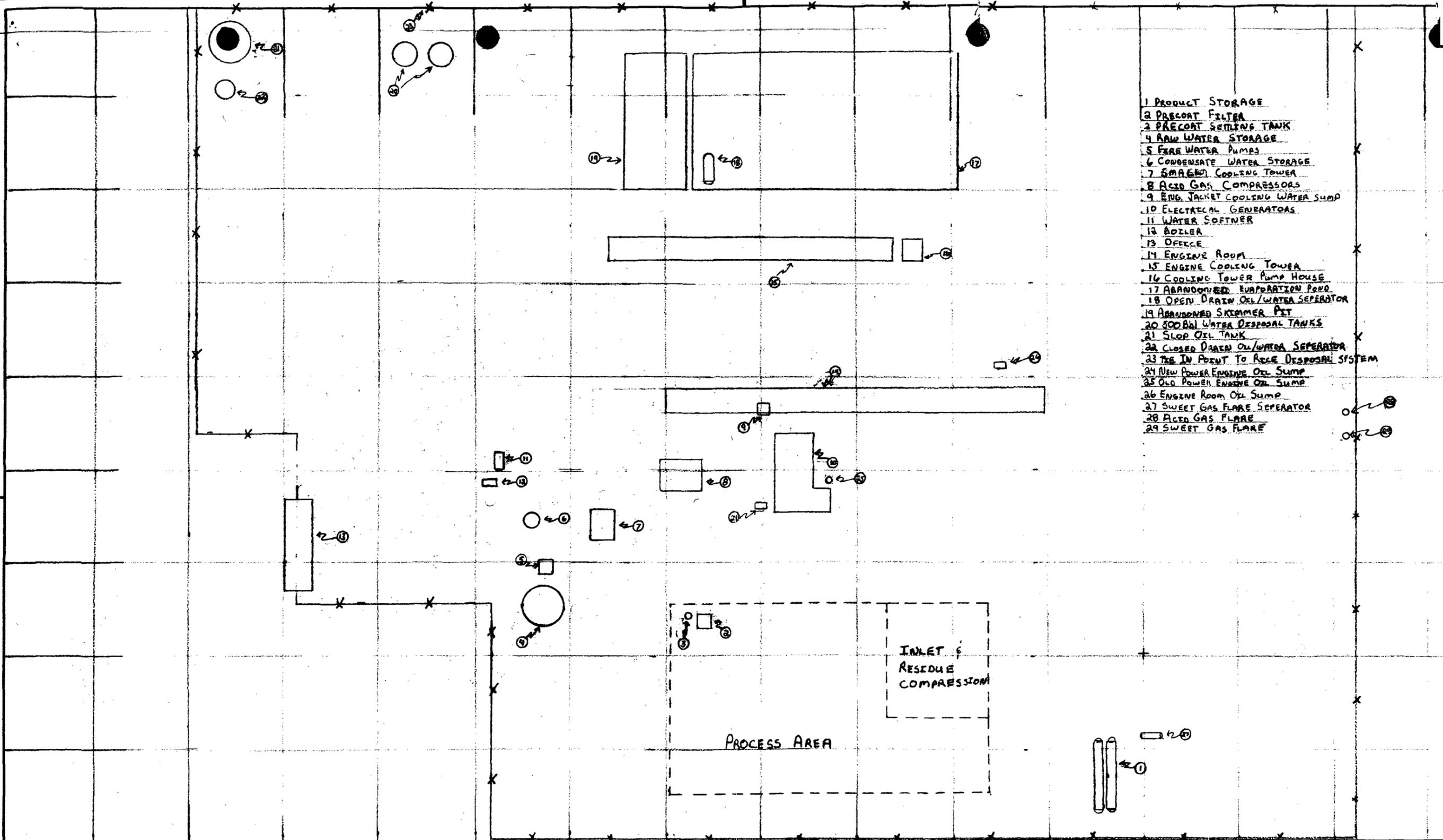
D. Waste Water Volume Measurement

The volume of wastewater being discharged is calculated by using standard cooling tower and boiler blowdown equations and the raw water make-up to the plant. The volume of discharge can also be tested periodically by shutting in the final disposal tanks and gauging them over a 24 hour period.

E. Impoundment Closure

Prior to our present method of waste water disposal an oil skimmer pit and an evaporation pond were used. The closure plan for these impoundments is to dewater them (which has already been done), then sample and analyze the impoundment's underlying soil and ground water in accordance with our RCRA Closure Plan. If any of the soil or water proves to be hazardous it will be removed and disposed of at a Class I disposal site. The oil skimmer pit will be backfilled and buried once the testing is complete. It is not our intent to backfill and bury the evaporation pond as it does not pose a threat of polluting the area's ground water. Attachment #21 is an analysis of the water that was contained in this pit. This analysis clearly shows that this water was not produced water as outlined in Commission Order R-3221 and therefore the evaporation pond does not fall under the jurisdiction of this order.

PRO,PLAN5



- 1 PRODUCT STORAGE
- 2 PRECOAT FILTER
- 3 PRECOAT SETTLING TANK
- 4 RAW WATER STORAGE
- 5 FERRI WATER PUMPS
- 6 CONDENSATE WATER STORAGE
- 7 SMOKE COOLING TOWER
- 8 ACID GAS COMPRESSORS
- 9 ENG. JACKET COOLING WATER SUMP
- 10 ELECTRICAL GENERATORS
- 11 WATER SOFTNER
- 12 BOILER
- 13 OFFICE
- 14 ENGINE ROOM
- 15 ENGINE COOLING TOWER
- 16 COOLING TOWER PUMP HOUSE
- 17 ABANDONED EVAPORATION POND
- 18 OPEN DRAIN OIL/WATER SEPARATOR
- 19 ABANDONED SKIMMER PIT
- 20 500 BBL WATER DISPOSAL TANKS
- 21 SLOP OIL TANK
- 22 CLOSED DRAIN OIL/WATER SEPARATOR
- 23 THE IN POINT TO ACID DISPOSAL SYSTEM
- 24 NEW POWER ENGINE OIL SUMP
- 25 OLD POWER ENGINE OIL SUMP
- 26 ENGINE ROOM OIL SUMP
- 27 SWEET GAS FLARE SEPARATOR
- 28 ACID GAS FLARE
- 29 SWEET GAS FLARE



FOR BIDS	
FOR APPR	
FOR CONST	
DRAWN STUBBS	1/19/84
CHECKED	
APP'D	

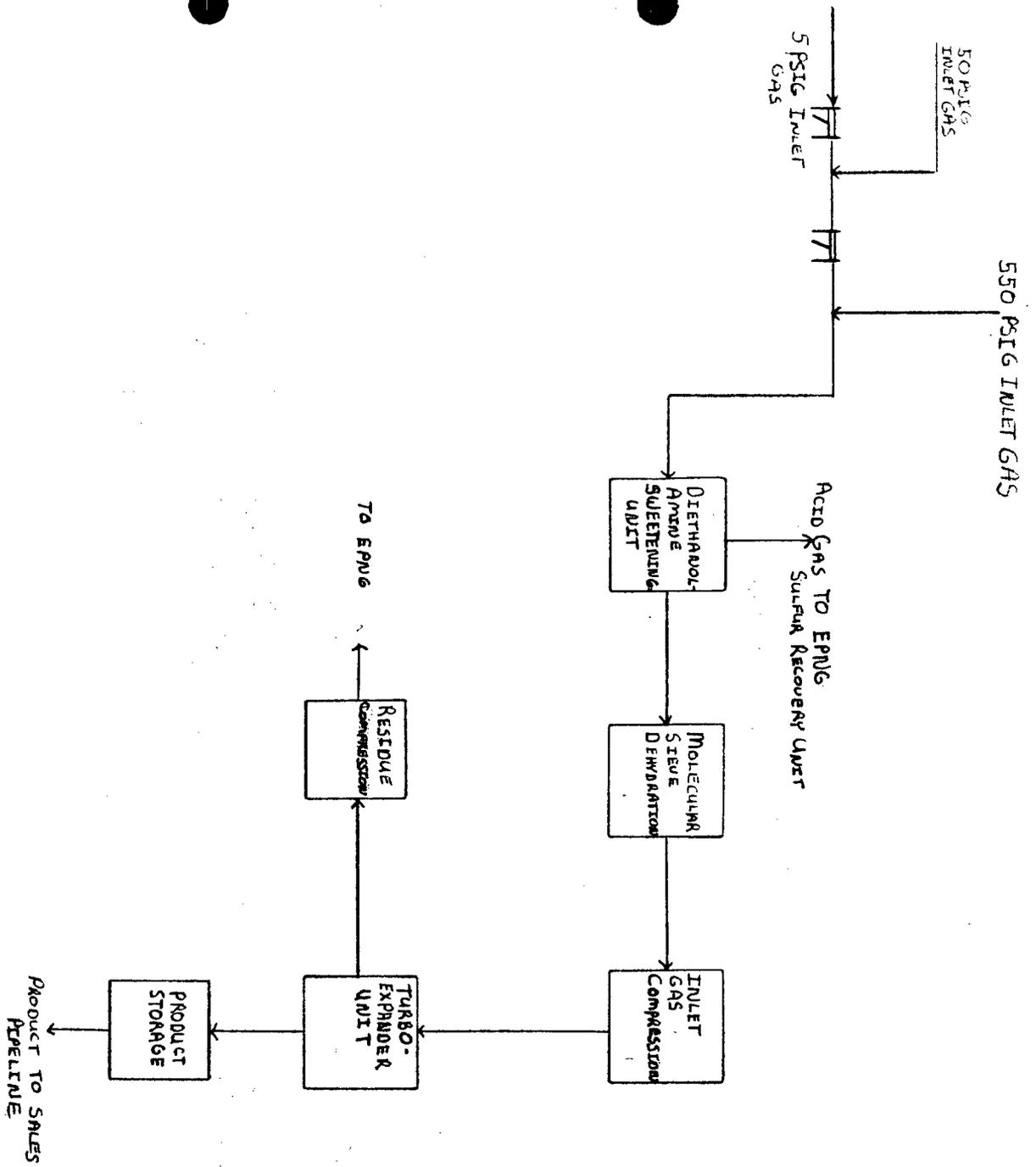
BARTLESVILLE, OKLAHOMA

EUNICE PLANT : PLOT PLAN

ATTACHMENT # 1

AFE NO.	
SCALE 1" = 125 FT UNLESS OTHERWISE NOTED	
DWG NO.	
SH NO.	

NO.	REVISION	BY	DATE
		CHKD	APP'D



NO.	REVISION	BY	DATE	CHKD	APP'D	
FOR BIDS	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA </div> </div>				JA NO.	FILE CODE
FOR APPR					AFE NO.	SCALE
FOR CONST						
DRAWN STUBBS	1/19/84	EUNICE GASOLINE PLANT PROCESS FLOW ATTACHMENT # 2				DWG NO.
CHECKED						SH NO.
APP'D						

Attachment #3

To: Mr. Marvin Stevenson
4001 Penbrook
Odessa, Texas

Laboratory No. 98192
Sample received 9-4-81
Results reported 9-14-81

Company: Phillips Petroleum

Project: Eunice Plant in Lea County, New Mexico

Subject: To make determinations listed on raw water
Samples taken by James C. Powell, Martin Water Labs., Inc. on 9-4-81.

DETERMINATION, mg/l

A. Human Health Standards

Arsenic, as As	0.000
Barium, as Ba	0
Cadmium, as Cd	0.00
Chromium, as Cr	0.01
Cyanide, as CN	0.0
Fluoride, as F	1.0
Lead, as Pb	0.0
Total Mercury, as Hg	0.000
Nitrate, as N	3.4
Selenium, as Se	0.00
Silver, as Ag	0.00

B. Other Standards for Domestic Water Supply

Chloride, as Cl	51
Copper, as Cu	0.00
Iron, as Fe	0.62
Manganese, as Mn	0.00
Phenols	0.00
Sulfate, as SO ₄	45
Total Dissolved Solids	480

DETERMINATION, mg/l

Zinc, as Zn

0.10

pH

7.0

C. Standards for Irrigation Use

Aluminum, as Al

0.0

Boron, as B

0.4

Cobalt, as Co

0.00

Molybdenum, as Mo

0

Nickel, as Ni

0.0

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Waylan C. Martin, M. A.

EL PASO NATURAL
GAS COMPANY

APCO'S EUNICE PLANT

PLANT OFFICE

RAW H₂O STORAGE

600 FT

RAW WATER
MAKE-UP

NO.	REVISION	BY	DATE	CHKD	APP'D
FOR BIDS	 PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA 	JA NO.	FILE CODE		
FOR APPR		AFE NO.	SCALE		
FOR CONST		EUNICE GASOLINE PLANT RAW WATER SUPPLY		DWG NO.	
DRAWN	ATTACHMENT # 4	SH NO.			
CHECKED					
APP'D					

10-16-14/78

CONFIDENTIAL**MATERIAL SAFETY DATA SHEET**

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.	EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047	
CHEMICAL NAME AND SYNONYMS Cooling water treatment	TRADE NAME OR CODE IDENT. POLYMATE® 983

● Section 2 – INGREDIENTS

INGREDIENTS	CAS No.	%	EXPOSURE CRITERIA
Potassium hydroxide		< 10	TWA: 2 mg/m ³ ceiling

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg		MELTING POINT	
SPECIFIC GRAVITY (H ₂ O = 1)	1.08	VAPOR PRESSURE	
VAPOR DENSITY (AIR = 1)		SOLUBILITY IN H ₂ O, % BY WT.	
% VOLATILES BY VOLUME		EVAPORATION RATE, _____ = 1	
APPEARANCE AND ODOR	Yellow liquid	pH	13.1

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER	UPPER	AUTO IGNITION TEMPERATURE
---------------------------------------	---	-------	---------------------------

EXTINGUISHING MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE AND EXPLOSION HAZARD

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID
INCOMPATIBILITY (Materials to Avoid)	

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID
---	---------------------

(over)

MATERIAL SAFETY DATA SHEET (Continued)

● Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

Not established

EFFECTS OF OVEREXPOSURE

INHALATION

Not expected - avoid prolonged inhalation.

INGESTION If ingested, do not induce vomiting. Immediately feed large quantity of water, citrus juice or dilute vinegar (1 tsp in one glass of water). Contact physician.

SKIN OR EYE CONTACT Will cause eye irritation and damage, and skin irritation. Flush eyes with clear water. Contact physician. Wash skin with water. Remove contaminated clothing and wash before reuse.

EMERGENCY AND FIRST AID PROCEDURES

● Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS Mechanical exhaust is adequate.

RESPIRATORY PROTECTION (Specify Type)

EYE PROTECTION

Goggles or face shield

GLOVES (Specify Type)

Rubber or plastic

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

● Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Use industrial absorbent, bury or burn. Flush spill area thoroughly with water.

WASTE DISPOSAL METHOD May be used to neutralize acid wastes or use authorized chemical scavenger service.

● Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

For industrial use only. Keep containers closed when not in use. Freeze point, 25°F

OTHER PRECAUTIONS

Shipping Name: DOT Water Treatment Compounds, Liquid-Corrosive Material NA1760
IATA

Prepared By W. M. Morris

Date: 7/80 (Rev. 4/82)

CONFIDENTIAL

MATERIAL SAFETY DATA SHEET

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.		EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047		
CHEMICAL NAME AND SYNONYMS Cooling water Microbicide	EPA Reg. No. 4643-40	TRADE NAME OR CODE IDENTIFIER DEARCIDE® 702

● Section 2 – INGREDIENTS	CAS No.	%	EXPOSURE CRITERIA
---------------------------	---------	---	-------------------

5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.15	
2-Methyl-4-isothiazolin-3-one	2682-20-4	0.35	

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg approx.	212°F.	MELTING POINT	
SPECIFIC GRAVITY (H ₂ O = 1)	1.01	VAPOR PRESSURE @ -77 approx.	24 mmHg
VAPOR DENSITY (AIR = 1)	--	SOLUBILITY IN H ₂ O, % BY WT.	complete
% VOLATILES BY VOLUME By weight	94	EVAPORATION RATE, Butyl acetate =	1 less than
APPEARANCE AND ODOR Pale amber to green liquid Mild aromatic odor		pH approx.	4.0

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER N/A UPPER	AUTO IGNITION TEMPERATURE N/A
---------------------------------------	---	----------------------------------

EXTINGUISHING MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES If material is involved in a fire, use approved self-contained breathing apparatus. Use water spray to cool exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARD Toxic combustion products include sulfur dioxide and hydrogen chloride.

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID To avoid evaporation to dryness in shipping container, triple rinse drum with water, adding rinsate to treated system per EPA container handling instructions for all FIFRA regulated product
---	---

INCOMPATIBILITY (Materials to Avoid) Do not allow concentrated product to boil.

HAZARDOUS DECOMPOSITION PRODUCTS HCl and oxides of sulfur.

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID
---	---------------------

MATERIAL SAFETY DATA SHEET (Continued)

Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT Maximum time weighted average (TWA) for 5-chloro-2-methyl-4-isothiazolin-3-one is 0.5 mg/m³ as mist or aerosol. Human skin sensitization is induced in 1/18 subjects @ 25 ppm active ingredient.

EFFECTS OF OVEREXPOSURE

INHALATION Avoid prolonged inhalation of fumes and mist. May cause irritation of mucous membranes of nose and throat. Remove to fresh air.

INGESTION Do NOT take internally. Do NOT induce vomiting. Drink a large quantity of milk, egg white, gelatin solution or if these are unavailable, drink large quantities of water. AVOID ALCOHOL. Call physician immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be necessary.

SKIN OR EYE CONTACT Prevent direct skin or eye contact. Direct contact with skin will cause severe irritation and burns. Material is a skin sensitizer at even low concentrations (see above). Wash skin with soap and water. NOTE TO PHYSICIAN: Use of sterile dressings over a bland bacteriostatic ointment for 4-5 days is suggested initially. If dermatitis reaction occurs, use wet soaks 3 or 4 times daily followed by corticosteroid ointment. For severe allergic reactions, use of an oral corticosteroid such as prednisone may be

EMERGENCY AND FIRST AID PROCEDURES considered for 6-7 days with decreasing dosages. Eye contact: Contact will cause severe irritation and corneal damage. If contacted, flush eyes immediately with large amounts of water for 15 minutes. Contact a physician at once. Use of antibiotic ointment may be indicated.

Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical exhaust is adequate for product in normal use.

RESPIRATORY PROTECTION (Specify Type)

Wear MESA/NIOSH approved respirator suitable for mist or high vapor concentrations as may be encountered in large spill.

EYE PROTECTION Wear splash-proof goggles and face shield (ANSI Z87.1, 1979)

GLOVES (Specify Type)

Impervious gloves

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

Impervious protective apron, eyewash facilities, emergency shower in vicinity of use.

Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Use industrial absorbent and transfer to suitable container for disposal using authorized chemical scavenger service. Flush area with water using suitable dike as required to control run-off.

WASTE DISPOSAL METHOD Product can be deactivated using 8 lb calcium hypochlorite (65% active), 5 lb caustic soda in 10 gal. water. Deactivated product must be handled as corrosive material. If disposal of active product is required, authorized hazardous waste handling procedure is necessary. (see below)

Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Store in ventilated area. Freeze point, 32°F. If frozen, agitate when thawed to mix.

OTHER PRECAUTIONS Triple rinse empty containers into system using the product and dispose of containers per EPA-DOT regulations referred to in Dearborn Technical Bulletin 51-104.

Shipping Name: DOT Water Treatment Compound, Liquid - Corrosive Material

IATA

Prepared By W. M. Morris

Date: 6/81 (revised 12/82)

MATERIAL SAFETY DATA SHEET

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.		EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047		
CHEMICAL NAME AND SYNONYMS Cooling water microbicide	EPA Reg. No. 4643-29	TRADE NAME OR CODE IDENT. DEARCIDE® 716

● Section 2 – INGREDIENTS

INGREDIENTS	CAS No.	%	EXPOSURE CRITERIA
Potassium peroxymonosulfate	10058-23-8	23	Recommend industrial TWA: 1 mg/m ³
Trichloro-s-triazinetriolone	87-90-1	25	
Potassium bisulfate	7646-93-7	9	

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg	N/A	MELTING POINT	No data
SPECIFIC GRAVITY (H ₂ O = 1) Density	10.3 lbs/gal	VAPOR PRESSURE	No data
VAPOR DENSITY (AIR = 1)	No data	SOLUBILITY IN H ₂ O, % BY WT.	Appreciable
% VOLATILES BY VOLUME	None	EVAPORATION RATE, _____ = 1	No data
APPEARANCE AND ODOR	White powder with chlorine odor	pH of 1% solution	approx. 2.5

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER N/A UPPER	AUTO IGNITION TEMPERATURE N/A
EXTINGUISHING MEDIA N/A <input type="checkbox"/> Water Fog <input type="checkbox"/> Foam <input type="checkbox"/> CO ₂ <input type="checkbox"/> Dry Chemical <input type="checkbox"/> Other		
SPECIAL FIRE FIGHTING PROCEDURES None		

UNUSUAL FIRE AND EXPLOSION HAZARD Gives off chlorine and CO₂ when heated.
DANGEROUS WHEN WET. Product can trap heat and ignite paper bags.

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID Moisture and excessive heat. Stable when dry.
INCOMPATIBILITY (Materials to Avoid) With organic materials such as alcohols and other solvents, etc. Avoid direct contact with reducing agents, strong alkali and heavy metal salts.	

HAZARDOUS DECOMPOSITION PRODUCTS
Emits oxygen, chlorine and carbon monoxide fumes upon decomposition.

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID N/A
---	----------------------------

MATERIAL SAFETY DATA SHEET (Continued)

● Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT Not established

EFFECTS OF OVEREXPOSURE

INHALATION May irritate throat and lungs. Remove from area of fumes.

INGESTION Harmful if swallowed. If ingested, drink large amounts of milk and consult a physician.

SKIN OR EYE CONTACT If eyes are affected, wash with plenty of water and seek medical attention. Wash skin with water if affected. Discard contaminated clothing or launder before reuse.

EMERGENCY AND FIRST AID PROCEDURES

● Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS Mechanical ventilation is usually adequate.

RESPIRATORY PROTECTION (Specify Type) Dust respirator with disposable filters - 3M - #8710 or equal has been suggested for similar use.

EYE PROTECTION Goggles or face shield. GLOVES (Specify Type) Plastic

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

● Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Sweep up dry spills and return to container if uncontaminated. Flush residues to drain with large amounts of water.

WASTE DISPOSAL METHOD Triple rinse empty containers into system using the product and dispose of containers per EPA-DOT regulations referred to in Dearborn Technical Bulletin 51-104. Material should be disposed according to EPA Hazardous Waste regulations.

● Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Store in a cool, dry place away from oxidizable materials. Keep containers closed when not in use. Shelf life approx. 6 months.

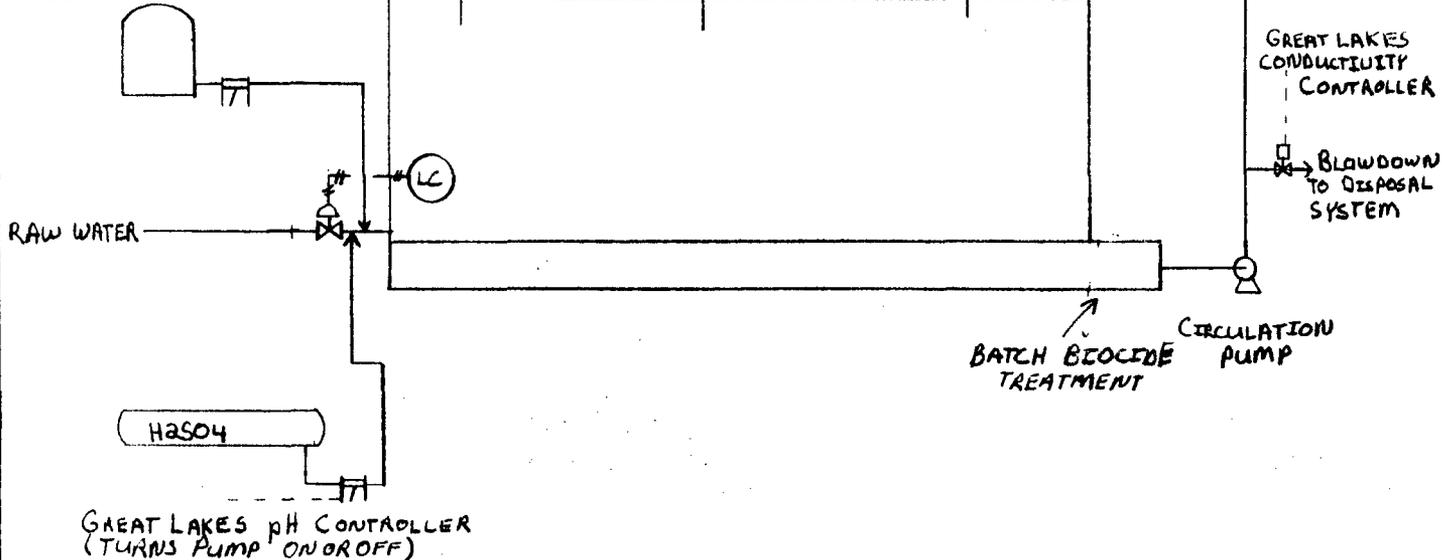
OTHER PRECAUTIONS For industrial use only. Keep out of reach of children. Avoid breathing dust. DANGEROUS WHEN WET - OXIDIZER

Shipping Name: DOT Trichloro-S-Triazinetrione-Oxidizing Material OXIDIZER IATA

Prepared By W. M. Morris

Date: 2/79

CONTINUOUS CHEMICAL
FEED - DEARBORN 983



NO.	REVISION	BY	DATE	CHKD	APP'D	
FOR BIDS	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>PHILLIPS PETROLEUM COMPANY</p> <p>BARTLESVILLE, OKLAHOMA</p> </div> <div style="text-align: center;">  </div> </div> <p>EUNICE PLANT COOLING TOWER FLOW SHEET</p>				JA NO.	FILE CODE
FOR APPR					AFE NO.	SCALE
FOR CONST					DWG NO.	
DRAWN STUBBS	1/19/89	ATTACHMENT # 7				SH NO.
CHECKED						
APP'D						

MATERIAL SAFETY DATA SHEET

● **Section 1 – PRODUCT IDENTIFICATION**

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.		EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047		
CHEMICAL NAME AND SYNONYMS Catalyzed sodium sulfite		TRADE NAME OR CODE IDENT. DEARBORN® 66

● **Section 2 – INGREDIENTS**

	CAS No.	%	EXPOSURE CRITERIA
Sodium sulfite	7757-83-7	approx.	95

● **Section 3 – PHYSICAL DATA**

BOILING POINT, 760mm Hg	Decomposes	MELTING POINT	
SPECIFIC GRAVITY (H ₂ O = 1) Density	91 lbs/ft ³	VAPOR PRESSURE	
VAPOR DENSITY (AIR = 1)		SOLUBILITY IN H ₂ O, % BY WT.	approx. 12%
% VOLATILES BY VOLUME		EVAPORATION RATE, _____ = 1	
APPEARANCE AND ODOR	Reddish brown - mild odor (powder)	pH of 5% solution	9.3

● **Section 4 – FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER UPPER	AUTO IGNITION TEMPERATURE
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EXTINGUISHING MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES
Non-flammable

UNUSUAL FIRE AND EXPLOSION HAZARD
None

● **Section 5 – REACTIVITY DATA**

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID Slowly oxidizes to sodium sulfate
---	--

INCOMPATIBILITY (Materials to Avoid) Being a reducing agent, may be expected to react strongly with strong oxidizers (chlorine, peroxides, etc.)

HAZARDOUS DECOMPOSITION PRODUCTS
None

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID
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MATERIAL SAFETY DATA SHEET (Continued)

● Section 6 - HEALTH HAZARD INFORMATION

EXPOSURE LIMIT TDC: oral - human LDLo 500 mg/kg

TLV: 30 m.p.p.c.f. (Nuisance particulate)

EFFECTS OF OVEREXPOSURE

INHALATION Not expected

INGESTION

If swallowed, possibly harmful by depression of blood pressure, gastric irritation, etc. Mild emetic and copious fluids suggested.

SKIN OR EYE CONTACT

For skin contact, wash off with water. Eye contact; very mildly alkaline, possibly irritant; flush with water.

EMERGENCY AND FIRST AID PROCEDURES

If swallowed, mild emetic and copious fluids suggested. For skin contact, wash off with water; for eyes, flush with water.

● Section 7 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

RESPIRATORY PROTECTION (Specify Type)

Use adequate respirator for dusting - 3M #8710 or equal has been suggested for similar use.

EYE PROTECTION

Goggles

GLOVES (Specify Type)

None required

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

None required.

● Section 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Sweep up spills and return to container if uncontaminated. Flush residue to drain with water. (Contaminated material may be taken to landfill.)

WASTE DISPOSAL METHOD

May mix with waste solutions of oxidizing agents to neutralize effects of both wastes, or dispose using chemical scavenger service. Destroy containers.

● Section 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep containers closed and dry. Store in a dry place, away from strong oxidizers. Use flooring cover over solutions to avoid oxidation losses.

OTHER PRECAUTIONS

For industrial use only. Keep out of reach of children.

Shipping Name: DOT Compound Boiler Cleansing, Preserving, Scale Removing Dry - NOT RESTRICTED IATA

Prepared By W. M. Morris

Date: 5/78 (Revised 6/80)

CONFIDENTIAL**MATERIAL SAFETY DATA SHEET**

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.	EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047	
CHEMICAL NAME AND SYNONYMS Liquid water treatment	TRADE NAME OR CODE IDENT. DEARBORN® 244

● Section 2 – INGREDIENTS

CAS No.

%

EXPOSURE CRITERIA

NON - HAZARDOUS MATERIAL

The product identified in this Data Sheet is NOT a hazardous material within the meaning of Title 29, Code of Federal Regulations 1915, 1916, 1917.

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg	approx.	212°F.	MELTING POINT	N/A
SPECIFIC GRAVITY (H ₂ O = 1)		1.21	VAPOR PRESSURE	No data
VAPOR DENSITY (AIR = 1)		No data	SOLUBILITY IN H ₂ O, % BY WT.	appreciable
% VOLATILES BY VOLUME		No data	EVAPORATION RATE, _____ = 1	No data
APPEARANCE AND ODOR	Colorless liquid/no odor		pH	5.6

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used)	FLAMMABLE LIMITS in AIR, % by VOLUME	AUTO IGNITION TEMPERATURE
None	LOWER N/A	UPPER N/A

EXTINGUISHING MEDIA N/A Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES

None

UNUSUAL FIRE AND EXPLOSION HAZARD

None

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions)	CONDITIONS TO AVOID
<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	

INCOMPATIBILITY (Materials to Avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	

(over)

MATERIAL SAFETY DATA SHEET (Continued)

● Section 6 - HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

Not established

EFFECTS OF OVEREXPOSURE

INHALATION

Not expected

INGESTION

If ingested in large quantity, nausea or vomiting may occur. Drink milk or water to dilute and contact physician if discomfort persists.

SKIN OR EYE CONTACT

If in contact with skin, wash area with soap and water. If in eyes, use clear water to flush for several minutes. If irritation persists contact physician.

EMERGENCY AND FIRST AID PROCEDURES

● Section 7 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

RESPIRATORY PROTECTION (Specify Type)

EYE PROTECTION Goggles

GLOVES (Specify Type) Plastic or rubber

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

● Section 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Use industrial absorbent and bury or incinerate. Flush area with water.

WASTE DISPOSAL METHOD

Use chemical scavenger service. Tender metal container to drum reconditioner. Remove labels.

● Section 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Product is low toxic and non-hazardous.

Keep container closed. Freeze point, 10° F.

OTHER PRECAUTIONS

Shipping Name: DOT NOT RESTRICTED - Compound Industrial Process Water Treating, Liquid
IATA

Prepared By W. M. Morris

Date: 9/25/78

CONFIDENTIAL**MATERIAL SAFETY DATA SHEET**

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME

DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.

EMERGENCY PHONE NO.

312/438-8241

ADDRESS

300 Genesee St., Lake Zurich, IL 60047

CHEMICAL NAME AND SYNONYMS

Boiler water treatment

TRADE NAME OR CODE IDENT.

SLUDGTROL® 651

● Section 2 – INGREDIENTS

CAS No.

%

EXPOSURE CRITERIA

NON - HAZARDOUS MATERIAL

The product identified in this Data Sheet is NOT a hazardous material within the meaning of Title 29, Code of Federal Regulations 1915, 1916, 1917.

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg		MELTING POINT	
SPECIFIC GRAVITY (H ₂ O = 1)	1.08	VAPOR PRESSURE	
VAPOR DENSITY (AIR = 1)		SOLUBILITY IN H ₂ O, % BY WT.	complete
% VOLATILES BY VOLUME		EVAPORATION RATE, _____ = 1	
APPEARANCE AND ODOR	Brown liquid	pH	9.5

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER	UPPER	AUTO IGNITION TEMPERATURE
EXTINGUISHING MEDIA <input type="checkbox"/> Water Fog <input type="checkbox"/> Foam <input type="checkbox"/> CO ₂ <input type="checkbox"/> Dry Chemical <input type="checkbox"/> Other	SPECIAL FIRE FIGHTING PROCEDURES		

UNUSUAL FIRE AND EXPLOSION HAZARD

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID
INCOMPATIBILITY (Materials to Avoid)	

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID
---	---------------------

(over)

● Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

Not established

EFFECTS OF OVEREXPOSURE

INHALATION

Not expected

INGESTION

Product may be harmful if ingested. Drink large amount of water or citrus juice to dilute and neutralize. Contact physician if discomfort occurs.

SKIN OR EYE CONTACT

Wash off skin with water. Flush eyes with water for 15 minutes. Contact physician if irritation occurs.

EMERGENCY AND FIRST AID PROCEDURES

● Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

RESPIRATORY PROTECTION (Specify Type)

EYE PROTECTION

Goggles

GLOVES (Specify Type)

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

● Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Collect spills with absorbent, bury or burn. Flush area with water.

WASTE DISPOSAL METHOD

Use scavenger service for disposal in landfill.

● Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

closed when not in use. Freezes at 30° F. For industrial use only. Keep containers

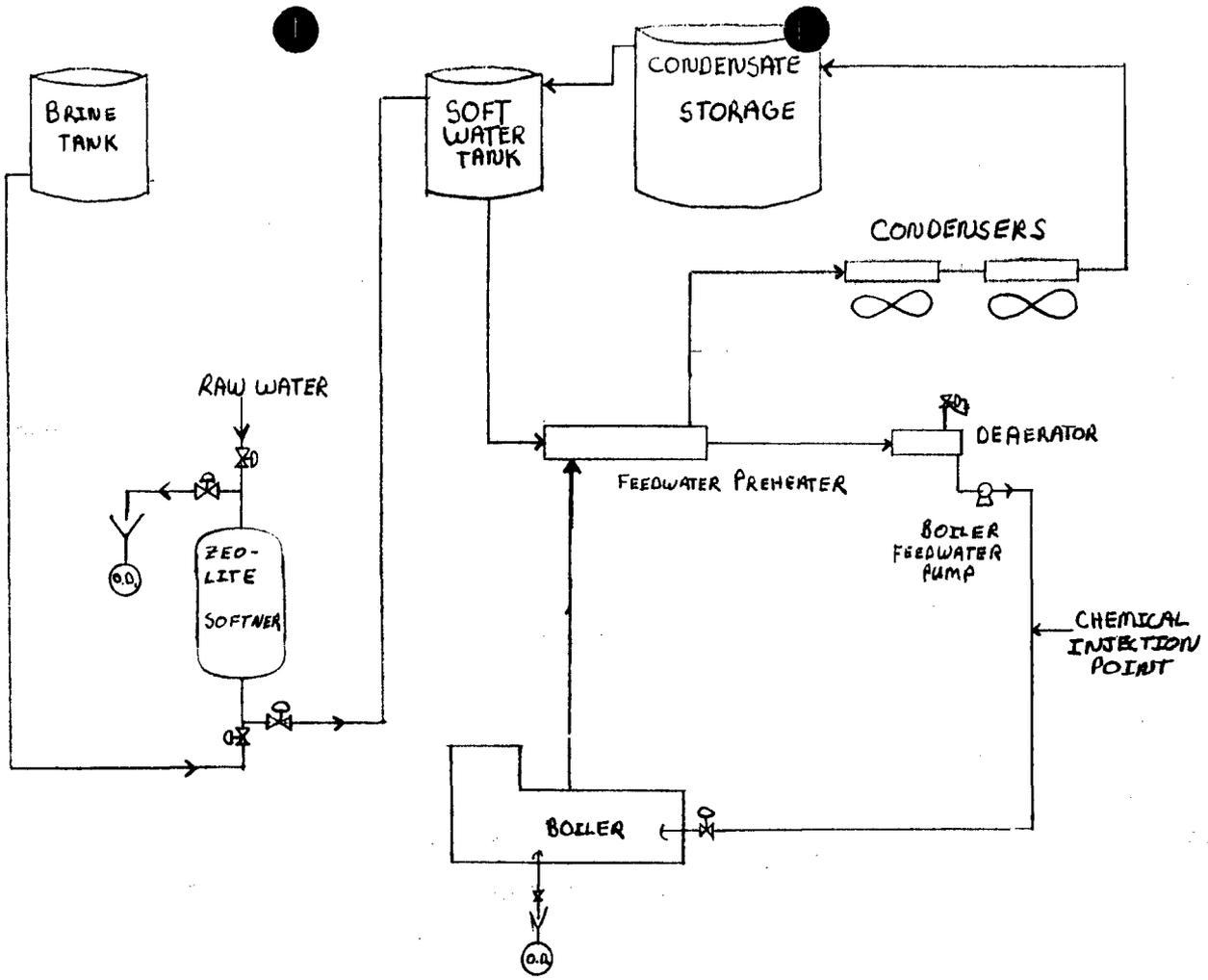
OTHER PRECAUTIONS

Shipping Name: DOT Compd. Boiler Cleansing, Preserving, Scale Removing, Liquid

IATA

Prepared By W. M. Morris

Date: 12/80



Ⓞ OPEN DRAIN

NO.	REVISION	BY	DATE	CHKD	APP'D	
FOR BIDS	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA </div> </div>				JA NO.	FILE CODE
FOR APPR					FOR CONST	EUNICE PLANT STEAM SYSTEM FLOW SHEET
DRAWN <i>STUBBS</i>	<i>1/18/84</i>	ATTACHMENT # 11			DWG NO.	
CHECKED					SH NO.	
APP'D						

● Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

Not established

EFFECTS OF OVEREXPOSURE

INHALATION

Not expected

INGESTION

Harmful if swallowed. In case of swallowing, encourage vomiting using a mild emetic. After vomiting occurs, provide as much milk to drink as can be tolerated. Consult a physician.

SKIN OR EYE CONTACT

Alkaline liquid; avoid eye contact or excessive contact with skin. If eyes are affected, flood with water for 15 minutes. If eye irritation persists, get medical attention. Wash off skin in case of contact and change contaminated clothing.

EMERGENCY AND FIRST AID PROCEDURES

● Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical ventilation is adequate

RESPIRATORY PROTECTION (Specify Type)

None required

EYE PROTECTION

Goggles or face shield

GLOVES (Specify Type)

Rubber or plastic

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

● Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Collect with absorbent and bury or burn. Flush area with water.

WASTE DISPOSAL METHOD

Dispose using authorized chemical scavenger service. Tender metal containers to drum reconditioner and remove labels.

● Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Protect from freezing and from physical damage. Freezes at 0° F. Vent drum carefully before removing bung to avoid sprays in case of internal pressure development during storage.

OTHER PRECAUTIONS

Keep away from children. For industrial application only.

Shipping Name:

DOT

Compound Industrial Process Water Treating Liquid - NOT RESTRICTED

IATA

Prepared By

W. M. Morris

Date:

10/78 (Revised 12/80)

Attachment #12

CONFIDENTIAL**MATERIAL SAFETY DATA SHEET**

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.		EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047		
CHEMICAL NAME AND SYNONYMS Cooling water treatment		TRADE NAME OR CODE IDENT. DEARBORN® 537

● Section 2 – INGREDIENTS

	CAS No.	%	EXPOSURE CRITERIA
Sodium nitrite		< 15.0%	
Sodium hydroxide		< 5.0%	

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg	approx.	220° F.	MELTING POINT	
SPECIFIC GRAVITY (H ₂ O = 1)		1.16	VAPOR PRESSURE	Same as water
VAPOR DENSITY (AIR = 1)			SOLUBILITY IN H ₂ O, % BY WT.	Complete
% VOLATILES BY VOLUME			EVAPORATION RATE, _____ = 1	Same as water
APPEARANCE AND ODOR	Red liquid; no distinct odor		pH	12.0

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER	UPPER	AUTO IGNITION TEMPERATURE
---------------------------------------	---	-------	---------------------------

EXTINGUISHING MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE AND EXPLOSION HAZARD

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID
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INCOMPATIBILITY (Materials to Avoid)

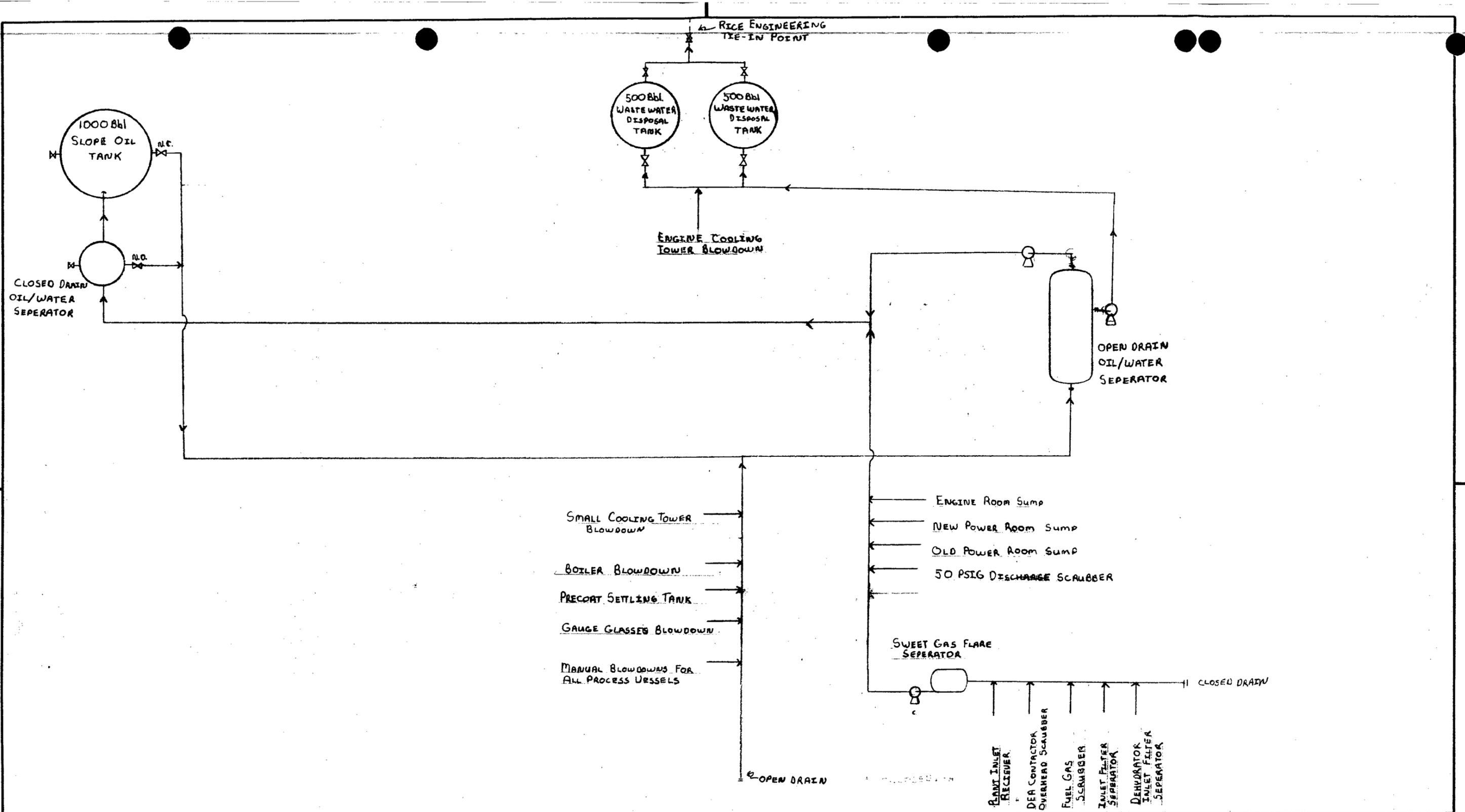
Acidic solutions

HAZARDOUS DECOMPOSITION PRODUCTS

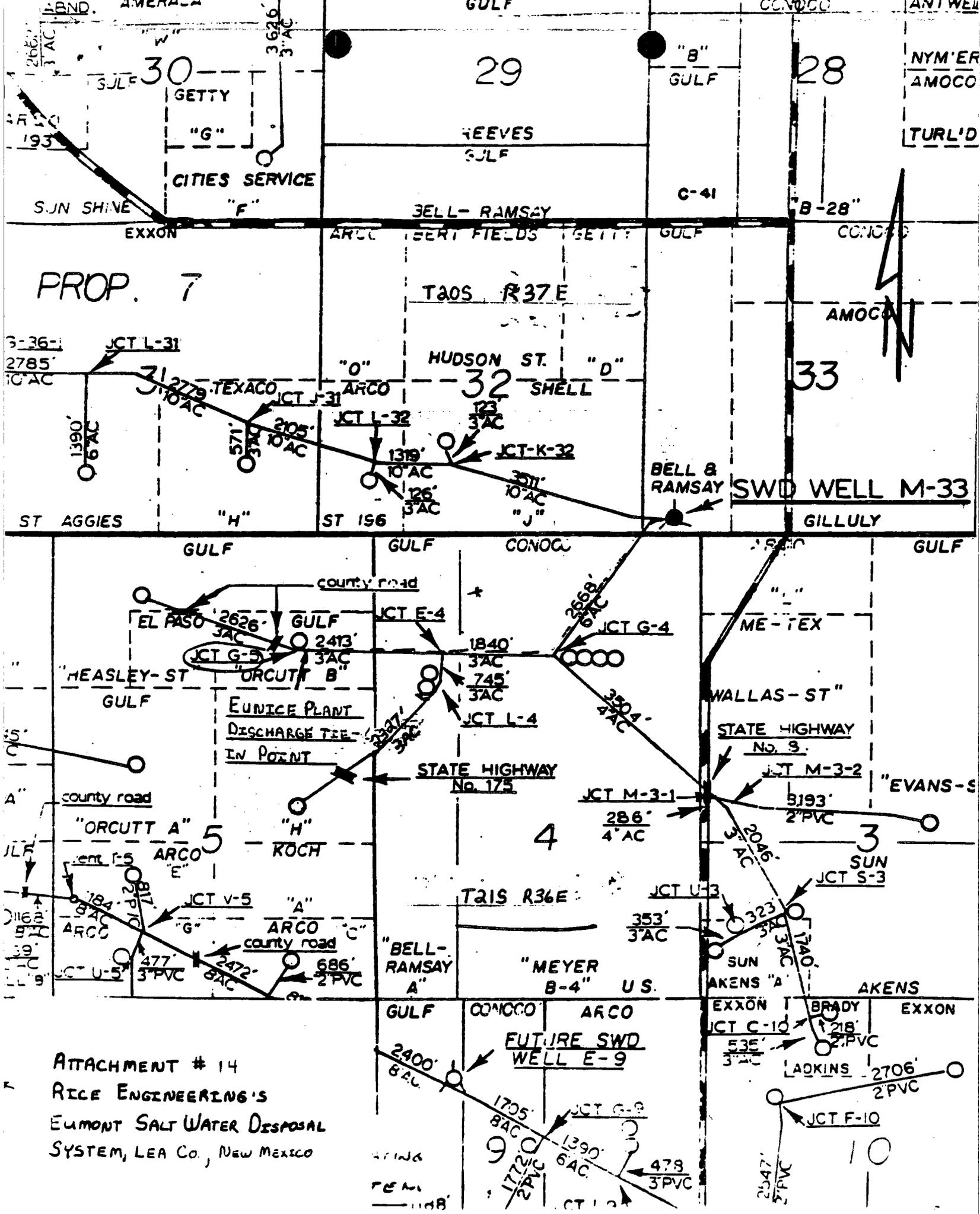
Nitrogen oxide, carbon dioxide

HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID
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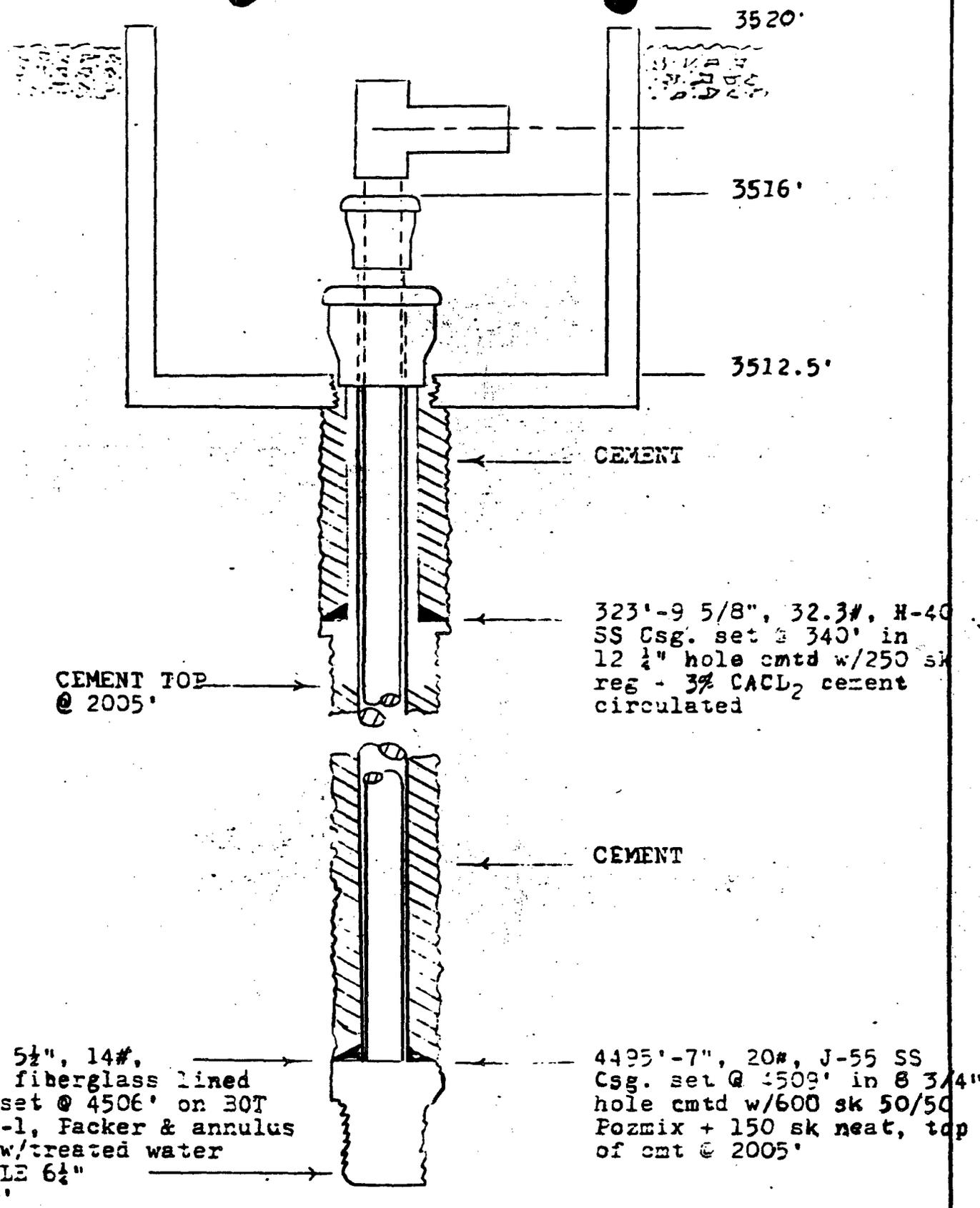
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NO.	REVISION	BY	DATE				FOR BIDS	BARTLESVILLE, OKLAHOMA		AFE NO.
		CHKD	APP'D				FOR APPR			SCALE
							FOR CONST			UNLESS OTHERWISE NOTED
							DRAWN STUBAS 1/19/84			DWG NO.
							CHECKED			SH NO.
		APP'D	ATTACHMENT #13							



ATTACHMENT # 14
 RICE ENGINEERING'S
 EUMONT SALT WATER DISPOSAL
 SYSTEM, LEA Co., New Mexico



CEMENT TOP
@ 2005'

323'-9 5/8", 32.3#, H-40
SS Csg. set @ 340' in
12 1/4" hole cmtd w/250 sk
res - 3% CaCl₂ cement
circulated

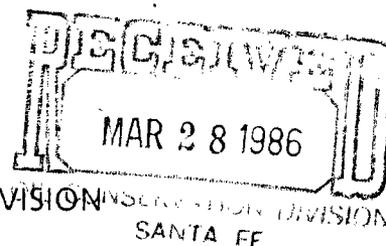
4492' - 5 1/2", 14#,
J-55 SS fiberglass lined
tubing set @ 4506' on 30T
Husky M-1, Facker & annulus
loaded w/treated water
OPEN HOLE 6 1/4"
ID 5100'

4495'-7", 20#, J-55 SS
Csg. set @ 509' in 8 3/4"
hole cmtd w/600 sk 50/50
Pozmix + 150 sk neat, top
of cmt @ 2005'

DWN	DB	12-15-6	APPROVED	E-M-E SWD System Well M-33	SCALE
REVD	RA	6-1-81		Location - 165' ESL & 165' FWL,	NONE
Attachment #15				Sec. 33, T20S, R37E, Lea County,	
				New Mexico	DWG. NO.
				Rice Engineering & Operating, Inc.	A-98
				Great Bend, Kansas	

DB

PUBLIC NOTICE



NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION
HAZARDOUS WASTE SECTION
P.O.Box 968
Santa Fe, New Mexico 87504

PUBLIC NOTICE NO. 7

March 28, 1986

NOTICE OF INTENT TO TERMINATE INTERIM STATUS
AND TO CLOSE THE SURFACE IMPOUNDMENT USED FOR THE TREATMENT AND
DISPOSAL OF HAZARDOUS WASTE

The State of New Mexico is authorized to operate a hazardous waste management program in lieu of the Federal program for those portions of the Resource Conservation and Recovery Act (RCRA) in effect prior to the enactment of the Hazardous and Solid Waste Amendments of 1984 (HSWA). The HSWA imposes additional requirements on hazardous waste management facilities which will be administered and enforced by the U.S. Environmental Protection Agency (EPA) until the State of New Mexico receives additional authorization for these requirements. Therefore, both the EPA and the New Mexico Environmental Improvement Division (NMEID) of the State Health and Environment Department will determine whether to approve Phillip's Petroleum Eunice Natural Gasoline Plant (Phillip's Eunice Plant) request for termination of interim status and the proposed closure plan.

Under authority of the New Mexico Hazardous Waste Act (§ 74-4-1 et. seq. NMSA 1983 Repl. Pampl.) and the New Mexico Hazardous Waste Management Regulations (HWMR-2), the NMEID proposes to terminate the interim status of Phillip's Eunice Plant, EPA I.D. Number NMD000709675, located two miles north of Oil Center, New Mexico (32° 30'N, 103° 11'W) and to approve a closure plan for the surface impoundment used for the treatment and disposal of hazardous waste at that site. Phillip's Eunice Plant is involved in the production of natural gasoline and has conducted treatment and disposal of hazardous wastes associated with those processes.

The decision to terminate interim status is based on Phillip's Eunice Plant request to withdraw its Part A application for a hazardous waste treatment and disposal permit. As a result of changes in its waste management practices, the company will no longer be subject to the requirements of HWMR-2, Section 206.C. for the treatment and disposal of hazardous wastes. Termination of interim status is to be accomplished through permit denial. The cause for this permit denial is a request by the Company and does not suggest any wrongdoing on the part of the Company.

The proposed closure plan describes the procedures to be used to demonstrate that none of the standing liquids, waste and waste residues, the liner (if any) and underlying and surrounding contaminated soil remaining are hazardous waste. If the demonstration can be made then the surface impoundment is no longer subject to the requirements of HWMR-2 as provided for in Section 206.C.6.f.(2).

Persons wishing to comment upon the proposed termination of interim status or upon the proposed closure plan, or who wish to request a public hearing, should

submit, in writing, comments and requests, along with the requestor's name and address to the New Mexico Health and Environment Department, Environmental Improvement Division, 1190 St. Francis Drive, P.O.Box 968, Santa Fe, New Mexico 87504-0968, ATTENTION: Peter H. Pache. Requests for a public hearing shall state the nature of the issues proposed to be raised in the hearing. These comments and/or requests must be received no later than May 19, 1986 to be considered.

The administrative record for these decisions consist of a permit application (Part A), a "notice of intent to terminate interim status", a fact sheet, a closure plan, and related correspondence. The administrative record may be reviewed at either the EID District Office, 200 E. 5th Street, Roswell, New Mexico, or the EID Central Office, Harold Runnels Building, 1190 St. Francis Drive, Santa Fe, New Mexico.

To obtain a copy of the administrative record or any part thereof, please contact:

Peter H. Pache, Program Manager
Hazardous Waste Section
New Mexico Environmental Improvement Division
1190 St. Francis Drive, P.O.Box 968
Santa Fe, New Mexico 87504-0968
(505) 827-2924

All written comments submitted on the proposed termination of interim status and/or the proposed closure plan will be considered in formulating a final decision. The EID will notify Phillip's Eunice Plant and each person who submitted a written comment during the public comment period of the final decisions or of any public hearing which may be scheduled.

If, after consideration of all written comments, these proposed actions become EID's final decisions, EID will issue to Phillip's Eunice Plant a Notice of Termination, immediately terminating the interim status of the Company's facility. The Notice of Termination will require that the Company's closure activities be performed in conformity with applicable State law, as well as within the terms of the Company's closure plan.

FACT SHEET

Intent to Terminate Interim Status and to Close Under the New Mexico Hazardous Waste Act

Activity: Termination of Phillips Petroleum Company's Eunice Natural Gasoline Plant Interim Status and closure of it's surface impoundment.

Facility Name: Eunice Natural Gasoline Plant

EPA I.D. Number: NMD000709675

Location: The plant is located approximately two miles North of Oil Center, New Mexico.

Landowner: Phillips Petroleum Company

Facility Operator: Phillips Petroleum Company

Comment Period:

Any person, including the applicant, who wishes to comment on the tentative decisions to terminate the facility's interim status and to approve the proposed closure plan may do so by submitting written comments to the New Mexico Environmental Improvement Division (NMEID), Harold Runnels Building, 1190 St. Francis Drive, P. O. Box 968, Santa Fe, New Mexico 87504-0968, ATTENTION: Peter H. Pache, (505) 827-2924. All such comments must be received by May 19, 1986 to be considered. Note that the termination of interim status is achieved through permit denial, as required by EID regulations; however, no wrongdoing on the part of the facility is to be inferred.

Procedures for Requesting a Hearing:

Any person, including the applicant, who wishes to request a public hearing concerning the proposed actions may do so by submitting a written request to the New Mexico Environmental Improvement Division (NMEID), P. O. Box 968, Harold Runnels Building, 1190 St. Francis Drive, Santa Fe, New Mexico, 87504-0968, ATTENTION: Peter H. Pache. Any request for a hearing shall be submitted in writing and shall state the nature of the issues proposed to be raised in the hearing. All requests must include the requestor's name and address. Requests for a hearing must be received by April 30, 1986 to be considered.

Interim Status Activities:

Since November 19, 1980, Phillips Petroleum Company's Eunice Natural Gasoline Plant has been operating under interim status (defined in N.M. Hazardous Waste Management Regulations) as a hazardous waste disposal facility. Primary industrial activities conducted at the facility include processing raw natural gas for liquid hydrocarbon recovery. These activities require use of a cooling tower; chemicals containing chromium, a corrosion inhibitor and characteristic toxic waste, were used in the cooling tower until September 30, 1983. On September 30, 1983, the use of chromium at the facility was discontinued. All wastes have been disposed of in an unlined surface impoundment on site.

Reasons Supporting Decision to Terminate Interim Status:

On August 3, 1984, Phillips Petroleum Company submitted a revised closure and post-closure plan for the Eunice Natural Gasoline Plant surface impoundment which was used for disposal of cooling tower blowdown water containing chromium. In the closure plan Phillips states that the use of chromium contained in cooling tower blowdown water has been discontinued and requests that the interim status authorization to operate be withdrawn. NMEID's review of the closure and post-closure plan indicated that the company's request to withdraw interim status and retain their EPA I.D. Number was justified. Therefore NMEID is hereby formally proposing to terminate Eunice Natural Gasoline Plant's interim status by denying a permit.

Closure of the Facility:

The facility is currently operating under interim status. If this tentative decision becomes the final administrative disposition of the permit application, interim status will terminate and closure will begin immediately. Phillip's Eunice Natural Gasoline Plant closure plan has been previously submitted and reviewed by NMEID. A copy is available for public review at the NMEID Central Office, Harold Runnels Building, 1190 St. Francis Drive, Santa Fe, New Mexico and the NMEID District IV Office at 200 East Fifth Street, Roswell, New Mexico. The public notice and this fact sheet include the proposed approval of the closure plan for this facility's surface impoundment. The public is provided an opportunity to submit written comments on the plan, or request a public hearing as previously described elsewhere in this fact sheet. The owner/operator must implement the approved closure plan in accordance with its stipulated time schedule.

If the groundwater has been or will be impacted by a release of hazardous constituents from the surface impoundment, closure of the impoundment shall not relieve Phillips Petroleum Company of remedial liability.

Final Decisions:

All written comments submitted on the proposed termination of interim status and/or the proposed closure plan will be considered in formulating a final decision. The NMEID will notify Phillips Petroleum Company and each person who submitted a written comment during the public comment period of the final decisions made, or of any public hearing which may be scheduled.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

April 25, 1984

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

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762

Attention: Mr. E. E. Clark

Re: GWR-16
Discharge Plan

Gentlemen:

The discharge plan submitted pursuant to the Water Quality Control Commission Regulations for the controlled discharge of waste water and associated fluids from the Eunice Gasoline Plant located in Section 5, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, is hereby approved.

The discharge plan was submitted pursuant to Section 3-106 and is approved pursuant to Section 3-109 of the Water Quality Control Commission Regulations. The plan is approved on April 25, 1984, and is in effect for five years.

Yours very truly,

JOE D. RAMEY
Director

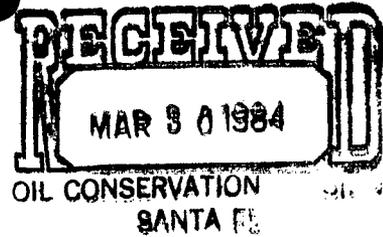
JDR/fd



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP
Permian Basin Region



March 23, 1984

Discharge Plan Correction
Eunice Gasoline Plant

Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Division
P. O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

This letter is to inform you that an error exists in our recently submitted discharge plan for our Eunice Gasoline Plant. The Plant is located in Section 5, Township 21 South, Range 36 East, Lea County, New Mexico.

The plot plan submitted with the discharge plan is in error in that a flare pit is not shown. A 150 foot square flare pit exists approximately 250 feet north of the acid gas flare stack (number 28 on the plot plan). This pit is equipped with a continuously burning pilot and is used only for emergency upsets. This pit normally does not contain any fluid. We request that our discharge plan be amended to reflect the existence of this flare pit.

If you have any questions regarding this matter, please contact Robert Stubbs or Mike Ford of this office at (915) 367-1302.

Very truly yours,

E. E. Clark
Manager, Permian Basin Region

RGS:ggp

*Mike Ford
915-367-1316*

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

Notice Dates:
3/17/84 (ALB.)
3/9/84 (HOBBS)

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed 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, telephone (505) 827-5803.

PHILLIPS PETROLEUM COMPANY, Eunice Gasoline Plant (NW/4, Section 5, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico) 4001 Penbrook, Odessa, Texas 79762, proposes to discharge approximately 800 barrels of waste water per day. The waste water is derived from the plant process. The waste water will be disposed of into an injection system operated by Rice Engineering and ultimately into an injection well(s). The total dissolved solids content of the waste water is approximately 1750 mg/L.

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 any interested person. Requests for a 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 the New Mexico Oil Conservation Commission at
Santa Fe, New Mexico, on this 9th day of March, 1964.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

Joe D. Ramey
JOE D. RAMEY
Director

S E A L

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... pursuant
... Oil Conservati
... 1964, and is
... truly,



Attachment #16
SOUTHWESTERN LABORATORIES

119904

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

File No. C-1950-W
Customer No. 3355796
Report No. 35058

Report Date 1-24-84

Report of tests on: **Water**

Date Received 1-10-84

Client: **Phillips Petroleum**

Identification: **Eunice Plant, Wastewater**

	<u>mg/L</u>
Aluminum-----	Less Than 2
Arsenic-----	Less Than 0.05
Barium-----	Less Than 1
Boron-----	0.9
Cadmium-----	Less Than 0.01
Chromium-----	0.10
Cobalt-----	Less Than 0.1
Copper-----	0.4
Iron-----	0.9
Lead-----	Less Than 0.05
Manganese-----	0.07
Mercury-----	Less Than 0.002
Molybdenum-----	Less Than 1
Nickel-----	Less Than 0.5
Selenium-----	Less Than 0.01
Silver-----	Less Than 0.05
Zinc-----	1.6
Sulfate-----	810
Chloride-----	163
Fluoride-----	3.2
Nitrate-----	48
Cyanide-----	0.008
Phenols-----	Less Than 0.001
Total Dissolved Solids @ 180° C-----	1754

Technician: **KLH, PCB, GMB**

Copies 3 cc: **Phillips Petroleum Co.**
Attn: Mike Ford

SOUTHWESTERN LABORATORIES

Larry M. Bunch

Molecular Sieve
Type 4A
Product Information
Description

ZEOCHEM Molecular Sieve Type 4A is an alkali aluminosilicate; it is the sodium form of the Type A crystal structure. Type 4A has an effective pore opening of about 4 angstroms.

Chemical Formula:

$$\text{Na}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot X \text{H}_2\text{O}$$
Applications

ZEOCHEM Molecular Sieve Type 4A is used to dehydrate most fluids. Applications include both static and dynamic drying. Static applications (non-regenerative) include drying of refrigerant gases, usage in desiccant packages, and in insulating glass units. Dynamic applications (regenerative) include drying of natural gas, LPG, air, inert gases, and solvents. ZEOCHEM Molecular Sieve Type 4A will adsorb molecules with a kinetic diameter of less than 4 angstroms and exclude those larger.

Regeneration

ZEOCHEM Molecular Sieve Type 4A can be regenerated by evacuating or purging, usually at elevated temperatures. The purge gas temperature must be sufficiently high to bring the molecular sieve to a level of 400 to 600°F, but not exceeding in any case 1000°F. Higher temperatures could cause physical alteration of the molecular sieve structure. The degree of regeneration depends on the temperature and humidity of the purge gas.

Typical Properties

Nominal pore diameter	4 angstroms
Type of crystal structure	cubic
Bulk density	47 lbs/cuft
Equilibrium water capacity (theoretical)	23% wt.
Water content (as shipped)	1.5% wt. (max.)
Heat of adsorption (max.)	1,800 BTU/lb H ₂ O
Specific heat (approx.)	0.23 BTU/lb/°F

Commercial bead sizes (nominal)

	1/16"	1/8"	3/16"
mesh	4 × 7	7 × 10	10 × 18
mm	3-5	2-3	1-2
crush strength, lbs.	18	9	4

ZEOCHEM Molecular Sieve 4A is available in powder form upon request.

Shipping Information

ZEOCHEM Molecular Sieve Type 4A beads are shipped in non-returnable drums as follows:

55 gal. steel drum containers
— 300 lb. net
23 gal. fiber drum containers
— 120 lb. net

5 gal. pails
— 25 lb. net

The information contained herein is based upon our testing and experience and is believed to be accurate. Since operating conditions may vary and since we do not control such conditions, we must DISCLAIM ANY WARRANTY, EXPRESS OR IMPLIED, with regard to results to be obtained from the use of our products or with regard to application of Zeochem techniques.

Chemische Fabrik Uetikon and United Catalysts Joint Venture

ZEOCHEM

P.O. Box 35940, Louisville, Kentucky 40232, Telephone 502-634-8384, Telex 204190 9239

To: Mr. Marvin Stevenson
4001 Penbrook
Odessa, Texas

Laboratory No. 98192
Sample received 9-4-81
Results reported 9-14-81

Company: Phillips Petroleum

Project: Eunice Plant in Lea County, New Mexico

Subject: To make determinations listed on final waste water from
pit. Samples taken by James C. Powell, Martin Water Labs., Inc. on 9-4-81

DETERMINATION, mg/l

A. Human Health Standards

Arsenic, as As	0.000
Barium, as Ba	0
Cadmium, as Cd	0.00
Chromium, as Cr	0.02
Cyanide, as CN	0.0
Fluoride, as F	2.5
Lead, as Pb	0.0
Total Mercury, as Hg	0.000
Nitrate, as N	0.2
Selenium, as Se	0.00
Silver, as Ag	0.00

B. Other Standards for Domestic Water Supply

Chloride, as Cl	405
Cooper, as Cu	0.00
Iron, as Fe	0.62
Manganese, as Mn	0.00
Phenols	0.25
Sulfate, as SO ₄	229
Total Dissolved Solids	1,940

DETERMINATION, mg/l

Zinc, as Zn	0.30
pH	7.6

C. Standards for Irrigation Use

Aluminum, as Al	0.0
Boron, as B	0.0
Cobalt, as Co	0.00
Molybdenum, as Mo	0
Nickel, as Ni	0.0

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Waylan C. Martin, M. A.

Kenite® diatomite

Attachment #18

Typical characteristics

Inorganic Specialties Division, Witco Chemical Corporation
277 Park Avenue, New York, New York 10017 (212) 872-4286

0681

KENITE 3000

Brightness (G.E. Photovolt)	77 - 86
pH (10% aqueous)	9.0 - 11.0
Wet Density (lbs./cu.ft.)	19.5 - 21.5
Wet Mesh %	
+60	2 - 8
+150	1 14 - 25
+325	55 - 65
Flow Rate	Standard

TYPICAL CHEMICAL ANALYSIS

Silica (SiO ₂)	91 - 93%
Alumina (Al ₂ O ₃)	0.8 - 1.5
Iron Oxide (Fe ₂ O ₃)	1.2 - 1.8
Lime (CaO)	0.2 - 0.5
Phosphorous Pentoxide (P ₂ O ₅)	0.001 - 0.008
Magnesia (MgO)	0.2 - 0.5
Sodium & Potassium Oxides (Na ₂ O + K ₂ O)	1.8 - 3.0
Ignition Loss (110°C.)	0.1 - 0.2

The foregoing characteristics are typical of the products sold. However, no warranties, express or implied, including warranties of merchantability or fitness for use, are made with respect to the products described herein. Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

Witco

SWL**SOUTHWESTERN LABORATORIES***Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services*

1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

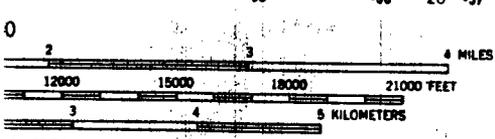
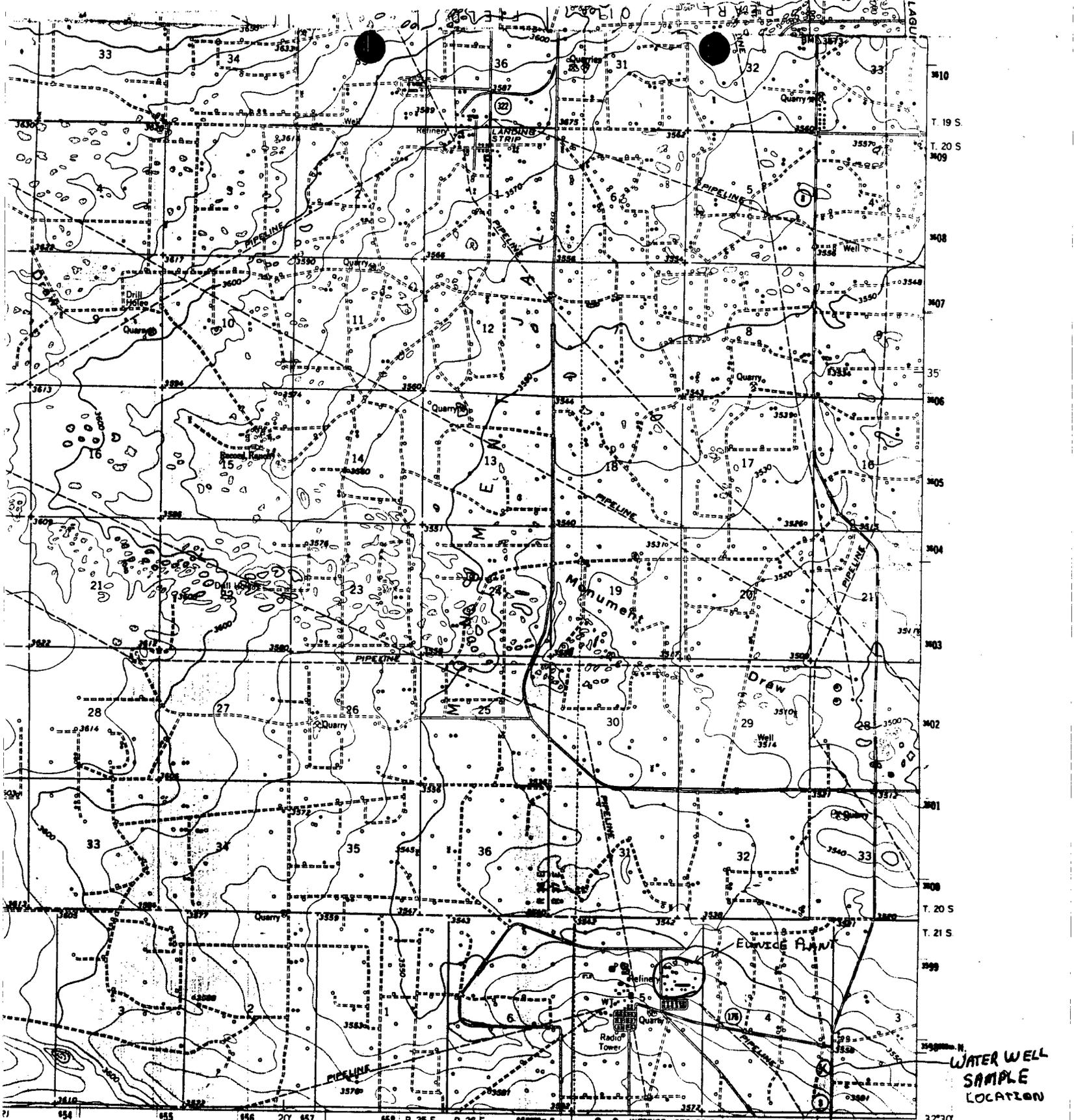
File No. C-1950-WCustomer No. 3355796Report No. 35057Report Date 1-24-84Date Received 1-10-84Report of tests on: **Water**Client: **Phillips Petroleum**Identification: **Eunice Plant, Water Well Nearest Plant**

	<u>mg/L</u>
Aluminum-----	Less Than 2
Arsenic-----	Less Than 0.05
Barium-----	Less Than 1
Boron-----	0.5
Cadmium-----	Less Than 0.01
Chromium-----	Less Than 0.05
Cobalt-----	Less Than 0.1
Copper-----	Less Than 0.1
Iron-----	0.7
Lead-----	Less Than 0.05
Manganese-----	Less Than 0.05
Mercury-----	Less Than 0.002
Molybdenum-----	Less Than 1
Nickel-----	Less Than 0.5
Selenium-----	Less Than 0.01
Silver-----	Less Than 0.05
Zinc-----	0.07
Sulfate-----	185
Chloride-----	57
Fluoride-----	4.0
Nitrate-----	Less Than 0.5
Cyanide-----	Less Than 0.001
Phenols-----	Less Than 0.001
Total Dissolved Solids @ 180° C-----	774

Technician: **KLH, PCB, GMB**Copies 3 cc: **Phillips Petroleum Company**
Attn: **Mike Ford**

SOUTHWESTERN LABORATORIES

Larry M. Burch



0 FEET LEVEL



QUADRANGLE LOCATION

ROAD CLASSIFICATION
 Heavy-duty ——— Light-duty ———
 Medium-duty ——— Unimproved dirt - - -
 U.S. Route (hexagon symbol) State Route (circle symbol)

MONUMENT, N. MEX.
 N3230 - W10315/15

1963

AMS 5349 III - SERIES V781

P ACCURACY STANDARDS
 COLORADO OR WASHINGTON 25, D.C.
 SYMBOLS IS AVAILABLE ON REQUEST

Attachment #20

WATER WELL
 SAMPLE
 LOCATION



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

December 13, 1983

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

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762

Attention: Mr. A. B. Glasgow

Gentlemen:

The discharge plan for your Eunice Gasoline Plant has not been approved and appears to be lacking in many details.

In order to complete the plan, would you please come to my office at 10:00 a.m. on December 20, 1983.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd



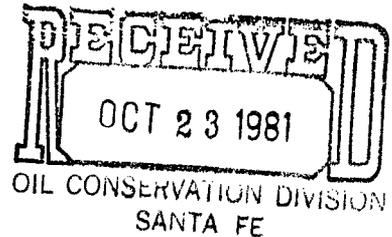
PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

EXPLORATION AND PRODUCTION GROUP

October 19, 1981

Oscar A. Simpson, III
Water Resource Specialist
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501



Re: Discharge Plan for Eunice Gasoline Plant

Attached is the additional information you requested to aid in evaluation of our proposed Eunice Gasoline Plant discharge plan.

1. A schematic diagram of the raw water source, water users, and waste disposal for Eunice Plant is shown in attachment #1. Phillips does not have a housing area or an irrigation system at Eunice Plant.

2. Attachments #1 and #2 show diagrams of Eunice Plant property lines, plant layout and location of evaporation ponds. Both the skimmer pit and evaporation pit are six feet deep and have an annual capacity of 8.4 million gallons.

3. Attachment #3 is a topographic map of the surrounding plant area.

4. The present waste system consists of an API oil skimmer where the cooling tower blowdown, boiler blowdown and all open drains collect. Hydrocarbons are skimmed and pumped to slop oil storage tanks where they are collected until trucked to a Phillips crude oil line for transmission. The water gravity flows into an unlined pit (180' x 60' x 6') for settling and then to an unlined pit (180' x 350' x 6') for evaporation.

* 5. For contingency measures the proposed holding tanks will hold three days accumulation of waste water with piping and connections for truck loading in case of a failure of the Rice disposal system.

6. Phillips responsibility for the injection system ends at the valve tying into Rice Engineering's System at the holding tanks. Rice will do their own inspection and testing.

7. Phillips will report to the OCD the monthly volume of water delivered to the Rice Engineering System, or in case of system failure, truck deliveries, on a semiannual basis. Notification of system failures and inspection and testing results will be the responsibility of Rice Engineering.

8. Attachments #4 and #5 detail the Rice Engineering system and the probable point of tie-in. Attachments #6a and b detail Phillip's proposed system.

9. Attachment #7 is a certified report from Martin Water Labs detailing the chemical analysis of the raw water to Eunice Plant and of the final waste water. Because of the large number of private wells in the Oil Center area, the time consuming collection requirements, and the cost of running detailed analysis (\$408.00 per analysis) we elected not to report on private water wells at this time.

10. The existing pits will be dewatered, back filled and leveled as soon as possible after our connection into the Rice Engineering disposal system has been completed.

11. All of our solid waste is currently hauled to an off site landfill by Waste Control of New Mexico, a Hobbs based company. We will continue to use them for solid waste disposal in the future. *where are they disposing*

12. We were not able to obtain a map illustrating the altitude of the water table below the plant site. However, the U.S.G.S. is currently conducting a study of the water table in Lea County and has advised us that we will receive a copy of their study upon its completion.

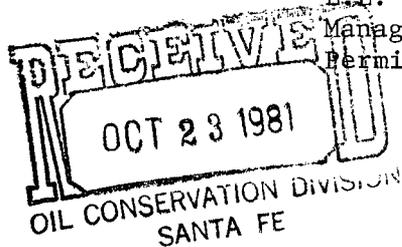
If you have any questions, please contact Ms. Rita Johns at (915) 367-1302.

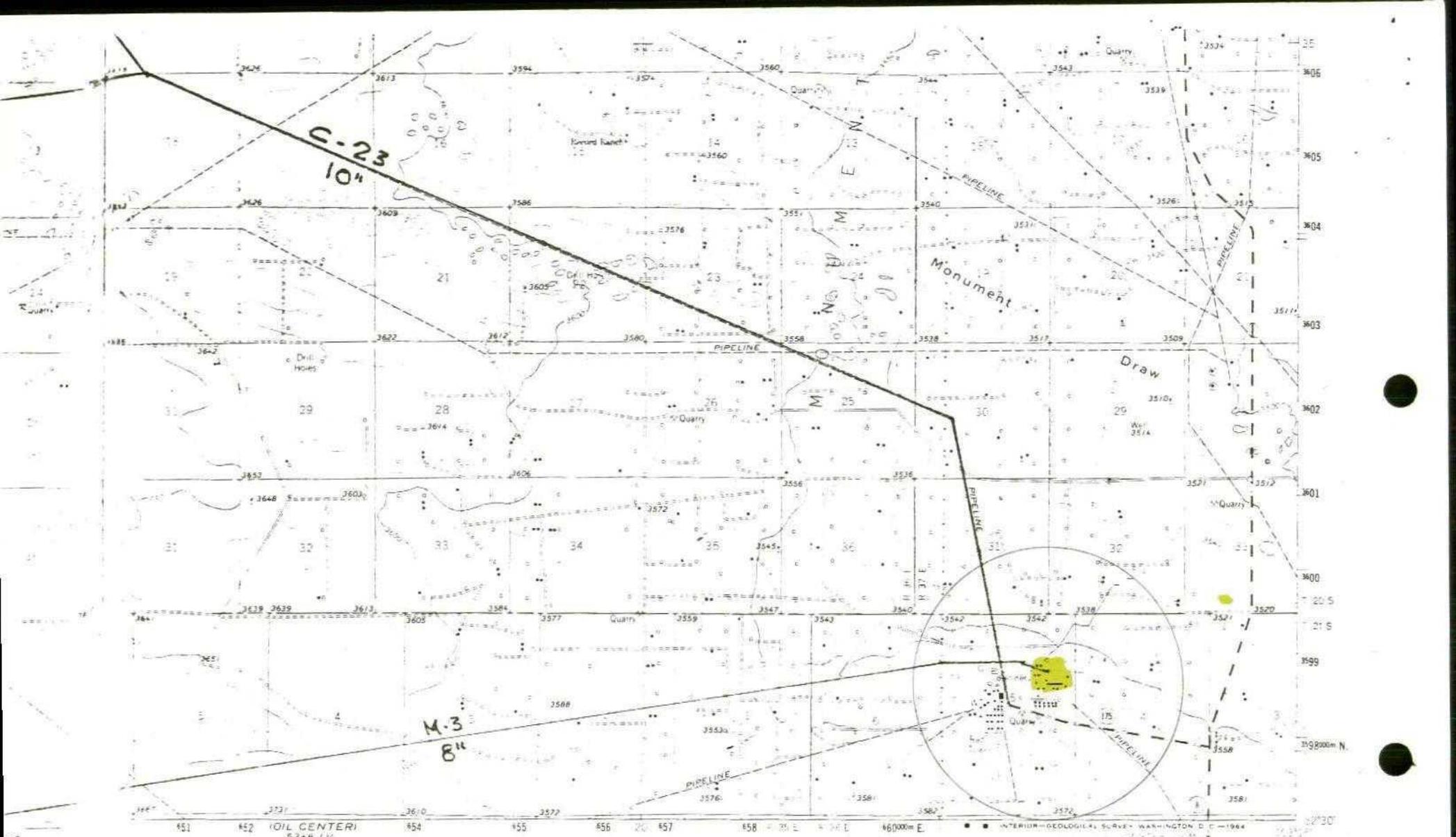
Very truly yours,



E.E. Clark
Manager
Permian Basin Region

RAY/cs
Attachments





SCALE 1:62500



CONTOUR INTERVAL 10 FEET.
DATUM IS MEAN SEA LEVEL.

ROAD CLASSIFICATION

Heavy duty	Light duty
Medium-duty	Unimproved dirt
U.S. Route	State Route



QUADRANGLE LOCATION

SOLD BY
ODESSA REPRODUCTION CO.
411 W. 5th. - ODESSA, TEXAS
PHONE Federal 7-1553
ATTACHMENT #2

MONUMENT, N. MEX.
N3230-W1031F205
1963
AMS 5349 (11)-SERIES V781

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS.
U.S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D.C.
FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

FOR SALE

Zero Point (KB) 3529.3'

3520'

3516'

3512.5'

CEMENT

323'-9 5/8", 32.3#, H-40
SS Csg. set @ 340' in
12 1/4" hole cmtd w/250 sk
reg + 3% CaCl₂ cement
circulated

CEMENT TOP
@ 2005'

CEMENT

4492' - 5 1/2", 14#,
J-55 SS fiberglass lined
tubing set @ 4506' on BOT
Husky M-1, Packer & annulus
loaded w/treated water
OPEN HOLE 6 1/4"
TD 5100'

4495'-7", 20#, J-55 SS
Csg. set @ 4509' in 8 3/4"
hole cmtd w/600 sk 50/50
Pozmix + 150 sk neat, top
of cmt @ 2005'

DWN	DB	12-15-66	APPROVED	E-M-E SWD System Well M-33 Location - 165' FSL & 165' FWL, Sec. 33, T20S, R37E, Lea County, New Mexico	SCALE
REVD	RA	6-1-81			NONE
ATTACHMENT # 5				Rice Engineering & Operating, Inc.	DWG. NO.
				Great Bend, Kansas	A-98

LOT 3

LOT 7

LOT 6

EL PASO
SITE

LOT LINE N 6750

EL PASO N. 5123
PHILIPS N. 0400

EL PASO
WORKS
N. 0400

LOT 11

S. 6760

LOT 14

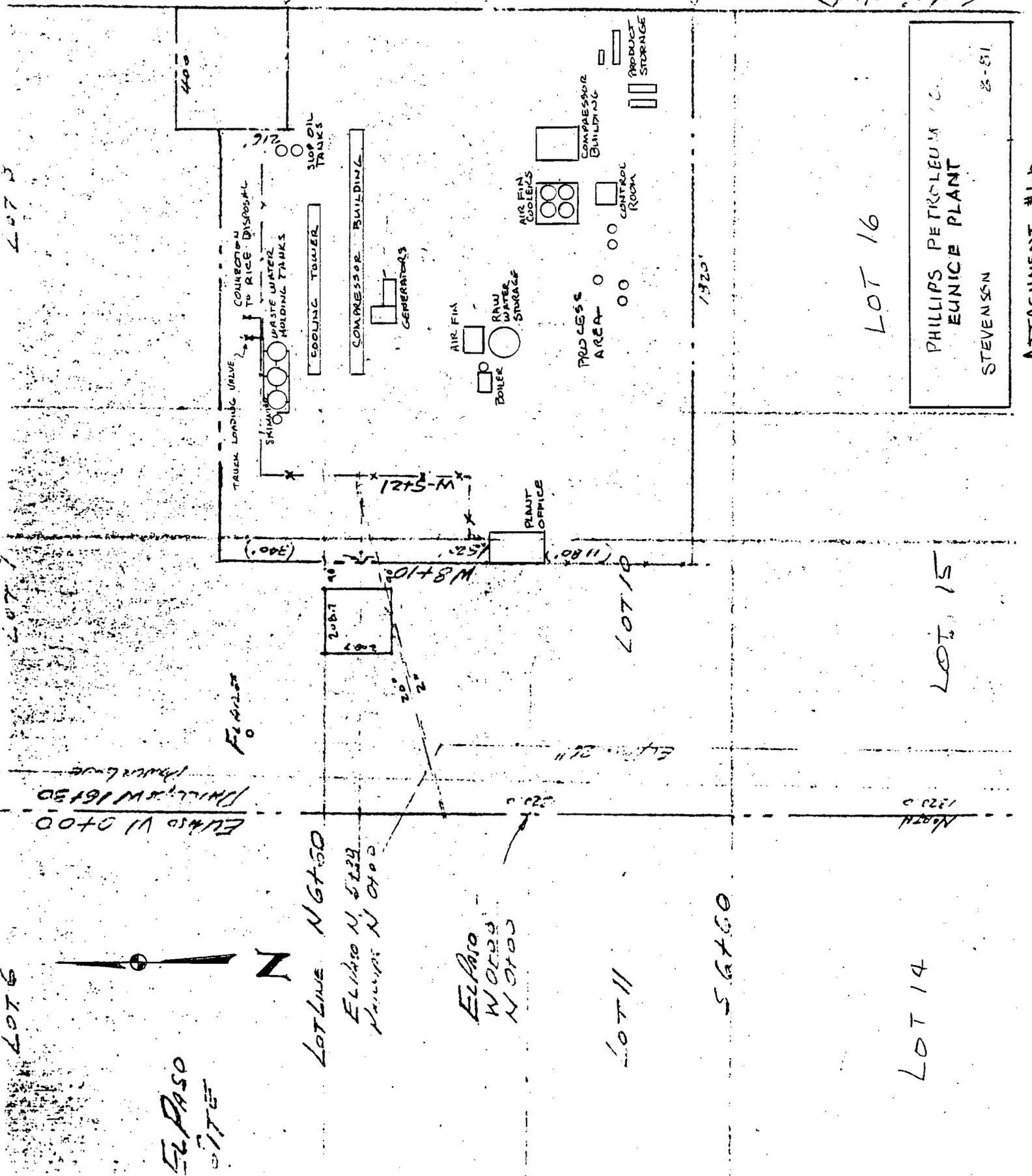
LOT 15

LOT 10

LOT 16

PHILIPS PETROLEUM CO.
EUNICE PLANT
STEVENSON
8-51

ATTACHMENT #6D



2114

2154

2145

1320

208'

208'

20'

20'

EL PASO V 0400
PHILIPS W 16750

1320

1320

400

1320

TRUCK LOADING VALVE
COLLECTION TO RICE DISPOSAL
WASTE WATER HOLDING TANKS
SKIMMER

SUPPLY TANKS

COMPRESSOR BUILDING

GENERATORS

AIR FIA

BOILER

RAW WATER STORAGE

AIR FIN COOLERS

PROCESS AREA

CONTROL ROOM

COMPRESSOR BUILDING

PRODUCT STORAGE

PLANT OFFICE

1215'-M

152'

1180'

1320'

1320'

400

216

216

216

216

216

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216

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.
WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

To: Mr. Marvin Stevenson
4001 Penbrook
Odessa, Texas

Laboratory No. 98192
Sample received 9-4-81
Results reported 9-14-81

Company: Phillips Petroleum

Project: Eunice Plant in Lea County, New Mexico

Subject: To make determinations listed on (1) raw water and (2) final waste water from pit. Samples taken by James C. Powell, Martin Water Labs., Inc. on 9-4-81.

<u>DETERMINATION, mg/l</u>	<u>#1</u>	<u>#2</u>	
<u>A. Human Health Standards</u>			
Arsenic, as As	0.000	0.000	
Barium, as Ba	0	0	
Cadmium, as Cd	0.00	0.00	
Chromium, as Cr	0.01	0.02	.05 L.M.
Cyanide, as CN	0.0	0.0	
Fluoride, as F	1.0	2.5	1.6 L.M.
Lead, as Pb	0.0	0.0	
Total Mercury, as Hg	0.000	0.000	
Nitrate, as N	3.4	0.2	10.0 L.M.
Selenium, as Se	0.00	0.00	
Silver, as Ag	0.00	0.00	
<u>B. Other Standards for Domestic Water Supply</u>			
Chloride, as Cl	51	405	250 L.M.
Cooper, as Cu	0.00	0.00	
Iron, as Fe	0.62	0.62	1.0 L.M.
Manganese, as Mn	0.00	0.00	
Phenols	0.00	0.25	.005 L.M.
Sulfate, as SO ₄	45	229	600 L.M.
Total Dissolved Solids	480	1,940	1000 L.M.

To: Mr. Marvin Stevenson Phillips Petroleum Company, Europe Plant in Lea County, NM,
Laboratory No. 98192 (Page 2)

DETERMINATION, mg/l

Zinc, as Zn

#1

#2

0.10

0.30

10.0 *lim*

pH

7.0

7.6

C. Standards for Irrigation Use

Aluminum, as Al

0.0

0.0

Boron, as B

0.4

0.0

75 *lim*

Cobalt, as Co

0.00

0.00

Molybdenum, as Mo

0

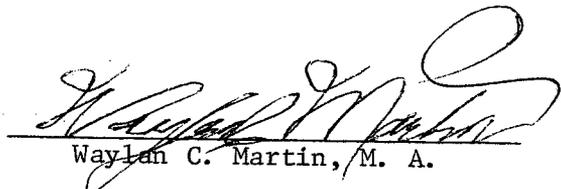
0

Nickel, as Ni

0.0

0.0

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.


Waylan C. Martin, M. A.

PHONE 943-3234
OR
563-1040

MARTIN WATER LABORATORIES, INC.

WATER CONSULTANTS SINCE 1953

Complete Bacterial and Chemical Analyses of Water

Please Remit To
P. O. Box 1468
Monahans, Texas
79756

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79760

duplicate 10/16/81

INVOICE NO. 819204
INVOICE DATE: 9-25-81
DELIVERY DATE: 9-14-81
ORDER NO.

TERMS: NET 30 DAYS

Our Order No.

Ordered by Marvin Stevenson

Lease Eunice Plant

Laboratory Number	Number Samples Analyzed	Type of Analysis	Price Each	Total
98192 ✓	2	*Waste waters for specifically requested determinations Plus 190 miles @ .42	368.50	737.00
				79.80
			Total Due	816.80

*Including: Arsenic, Barium, Calcium, Cadmium, Cyanide, Fluoride, Lead, Total Mercury, Nitrate, Selenium, Silver, Chloride, Copper, Iron, Manganese, Phenols, Sulfate, Total Dissolved Solids, Zinc, pH, Aluminum, Boron, Cobalt, Molybdenum, & Nickel.

This Invoice Payable in Monahans, Ward County, Texas

Memo

From

Joe D. Ramey

Division Director

To

Solid Wastes What are they
Where disposed

Quality of groundwater

Samples from nearby
wells.

Pit Closure

When

how

Divert runoff

Manufacturers sheet ~~for~~
for all chemicals used

Description of treating
process

Description of drainage
system.

Memo

From

Joe D. Ramey

Division Director

To

Holding tanks
above ground
lines above ground } ?

Product storage
above ground

What is used in engine
cooling jackets?



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

May 13, 1981

Phillips Petroleum Company
4001 Penbrook
Exploration and Production Group
Odessa, Texas 79762

Attention: A. B. Glasgow

Re: Discharge Plan for Eunice
Gasoline Plant

Gentlemen:

We have received your Discharge Plan for Eunice Gasoline Plant on April 28, 1981. In reviewing your Discharge Plan we find that additional information is needed in order to evaluate the plan.

The additional information needed is as follows:

1. Submit a complete schematic diagram with accompanying text illustrating the flow of water and wastewater from the point(s) of collection to the point(s) of discharge. The schematic diagram and text should include:
 - A. The water transmission line coming from El Paso's water well field.
 - B. The housing area (if any).
 - C. The plant area (illustrate and name each part of the plant using water or emitting waste water).
 - D. The collection, storage, and distribution systems for the waste water.
 - E. Irrigation system (sources of water).
2. Submit a sealed diagram of the plant area illustrating: (preferably an areal photo of 1" to 100' scale)
 - A. All plant appurtenances with accompanying

names and or a description of.

- B. Property lines in relation to section, township and range.
 - C. Contour elevations of the plant property.
 - D. Location and capacity of evaporation ponds and or holding ponds.
3. Submit a topographic map of the area surrounding the plant for a distance of one mile.
 4. Submit a description of the present system used to dispose of wastewater and associated solids, before injection was considered.
 5. Submit a contingency plan to cope with failure of the discharge plan or system.
 6. Submit procedures for inspecting and testing the injection system for failure and leakage.
 7. Submit a system for recording and reporting of data to OCD on a semi-annual basis for the following:
 - A. monthly production of wastewater
 - B. inspection and testing intervals and results of
 - C. failures of injection system (date of and duration) of)
 8. Submit a diagram of the Eunice Plant injection system and the Eumont Salt Water Disposal System operated by Rice Engineering and Operating, Inc. Illustrate and describe at what point your responsibility ends and Rice Engineering starts as to maintenance and inspection.
 9. Submit a chemical water analysis of:
 - A. The raw well water supplied by El Paso Natural Gas.
 - B. All private water wells within a radius of three miles of the plant.
 - C. The combined waste water effluent. The chemical water analysis should include those elements as listed in Section 3-103 (A,B.&C) of the Water Quality Control Commission Regulations and tested in accordance with Section 3-107 (B).
 10. Submit time table for draining, drying out, removing sludge and waste, and backfilling of the evaporation ponds, if any.

11. Specify what specific disposal methods will be used for solids, sludge, and other related waste from the plant.
12. Submit a map illustrating the altitude of the water table below the plant and for a radius of one mile.

If you have any questions on this matter, please do not hesitate to call me or Joe Ramey (Division Director) at (505) 827-2534.

Sincerely,

Oscar A. Simpson III

OSCAR A. SIMPSON III
Water Resource Specialist

OAS/og



PHILLIPS PETROLEUM COMPANY
BARTLESVILLE, OKLAHOMA 74004

RECEIVED
APR 29 1981
OIL CONSERVATION DIVISION
SANTA FE
918 661-6600

EXPLORATION AND PRODUCTION GROUP

April 27, 1981

State of New Mexico
Energy and Minerals Department
P. O. Box 2088
State Land Office Building
Santa Fe, NM 87501

Attention: Mr. R. L. Stamets

We are returning the Gasoline Plant Summary sheet with the changes for the Phillips plants. You will notice that the old Lee Plant is shutdown and the new cryogenic plant was started in April, 1981. The Lovington Plant has been shutdown and the gas is being processed at Lee Plant.

Sincerely,

L R Dodge

L. R. Dodge
Gas Settlements Section
203 Denton Bldg. - Ext. 5018

661-5013

LRD:bc - RC

Attachment

Elmer Anthony



PHILLIPS PETROLEUM COMPANY
ODESSA, TEXAS 79762
4001 PENBROOK

RECEIVED
APR 28 1981
OIL CONSERVATION DIVISION
SANTA FE

EXPLORATION AND PRODUCTION GROUP

April 23, 1981

Eunice Gasoline Plant
Application for Discharge Plan Approval

Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

As required by Part 3-106-C of the Water Quality Control Commission Regulations and your letter of December 29, 1980, Phillips Petroleum Company submits the following proposed discharge plan for Eunice Gasoline Plant, Lea County, New Mexico.

3-106-C-1. Quantity, quality and flow characteristics of the discharge;

An estimated 550 BPD of wastewater will be discharged. The main constituent is cooling tower blowdown with small amounts of produced water from gas inlet lines and boiler blowdown. The boiler is in service only periodically. Analysis of the composite stream is attached.

2. Location of the discharge and of any bodies of water, water-courses and ground water discharge sites within one mile of the outside perimeter of the discharge site, and existing or proposed wells to be used for monitoring;

Eunice Plant is located in Section 5, T-21-S, R-36-E, Lea County, New Mexico. There are no known bodies of water, watercourses, or ground water discharge sites within one mile of the site. Since the discharge will not be in contact with the surface, well monitoring should not be required.

3. Depth to and TDS Concentration of the ground water most likely to be affected by the discharge;

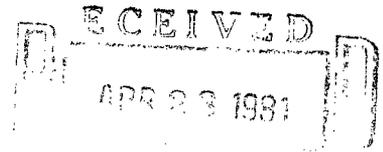
Raw water is supplied to Eunice Plant by El Paso Natural Gas. El Paso Natural Gas gets their water from wells located in Section 13, T-21-S, R-36-E. The approximate depth is 125 feet. TDS concentration is 385 ppm.

4. Flooding potential of the site;

None

Date: 04-23-81

Page: 2



5. Location and design of site(s) and method(s) to be available for sampling, and for measurement or calculation of flow;

The discharge water will be gathered and contained in holding tanks at Eunice Plant and then delivered by pipeline to the Eunice Monument, Eumont Salt Water Disposal System for sub-surface injection. The Eunice Monument, Eumont System is operated by Rice Engineering and Operating, Inc. A flow meter will be installed in the delivery line at Eunice Plant and samples can be obtained from the holding tanks.

6. Depth to and lithological description of rock at base of alluvium below the discharge site if such information is available;

Not applicable for this discharge method.

7. Any additional information;

This is a proposed discharge plan. Construction will begin as soon as Commission approval, Rice Engineering approval, and right of way are obtained.

If you have any questions regarding this mater, please contact Mr. A. B. Glasgow of this office (915) 367-1439.

A handwritten signature in black ink, appearing to read "E. E. Clark". The signature is fluid and cursive.

E. E. Clark
Regional Manager

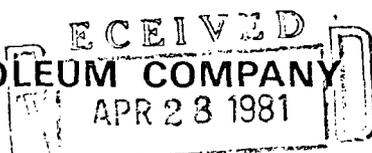
ABG:ku

Attachment



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK



EXPLORATION AND PRODUCTION GROUP CONSERVATION DIVISION
SANTA FE

April 23, 1981

Eunice Gasoline Plant
Application for Discharge Plan Approval

Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Commission
P.O. Box 2088
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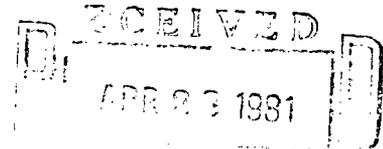
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A handwritten signature in cursive script, appearing to read "E. E. Clark", with a long horizontal line extending to the right.

E. E. Clark
Regional Manager

ABG:ku

Attachment

NOTEGRAM-TELEGRAM

IF TELEGRAM

PRIORITY			COMMUNICATIONS CODE
3	2	1	

Date April 28, 1981

To Mr. J. D. Ramey Group or Staff _____ Address New Mexico Oil Conservation Commission

From A. B. Glasgow Group or Staff _____ Address Phillips Petroleum Co.

Attached are two (2) copies of the Eunice Plant waste water analysis

which was omitted from our Eunice Plant Discharge Application of

April 23, 1981.

RECEIVED
MAY 1 1981
OIL CONSERVATION DIVISION
SANTA FE

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RECEIVED
MAY 1 1981
OIL CONSERVATION DIVISION
SANTA FE

PHILLIPS PETROLEUM COMPANY

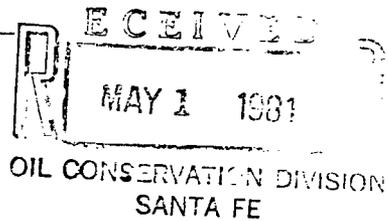
PERMIAN BASIN REGION

LABORATORY ANALYSIS RESULTS SUMMARY

Sample of WATER
 Secured from EUNICE PLANT WASTE WATER
 Secured by B. J. JACKSON & DENNIS HALL Date APRIL 21, 1981
 Analysis No. L-1329

Chlorides, ppm, NaCl	787
Chlorides, ppm, Cl	481
Alkalinity, ppm, CaCO ₃	687
Hardness, ppm, CaCO ₃	732
Calcium, ppm, Ca	241
Magnesium, ppm, Mg	32
Dissolved Solids, ppm	1,980
Sulfates, ppm, Na ₂ SO ₄	855
Sulfates, ppm, SO ₄	581
Silica, ppm, SiO ₂	170
Bicarbonates, ppm, HCO ₃	839
Total Iron, ppm, Fe	7
pH	7.4

Analysis By PERMIAN BASIN REGION LAB



PHILLIPS PETROLEUM COMPANY

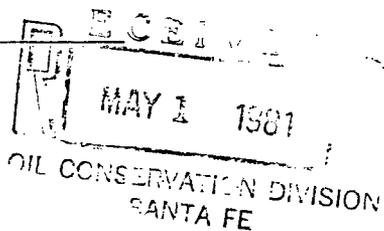
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Analysis By PERMIAN BASIN REGION LAB



PHILLIPS PETROLEUM COMPANY

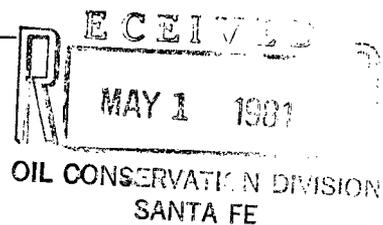
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PHILLIPS PETROLEUM COMPANY

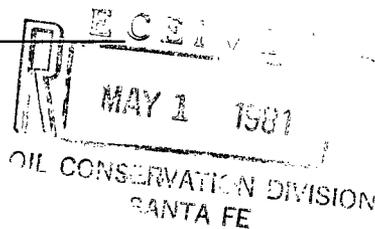
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Analysis By PERMIAN BASIN REGION LAB





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

December 29, 1980

Mr. Ben Ballard
Director of Environmental Control
1004 PB
Phillips Petroleum Company
Bartlesville, Oklahoma 74004

Re: Request for Discharge Plan

Dear Mr. Ballard:

Under provisions of the regulations of the Water Quality Control Commission you are hereby notified that the filing of a discharge plans for Phillips' Eunice Plant (Section 5, Township 21 South, Range 36 East) and ~~Phillips' Lusk Plant~~ (Section 19, Township 19 South, Range 32 East) 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.

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

The discharge plan should be prepared in accordance with Part 3 of the Regulations.

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

Yours very truly,

JOE D. RAMEY
Director

JDR/jc

cc: Oil Conservation Division - Hobbs

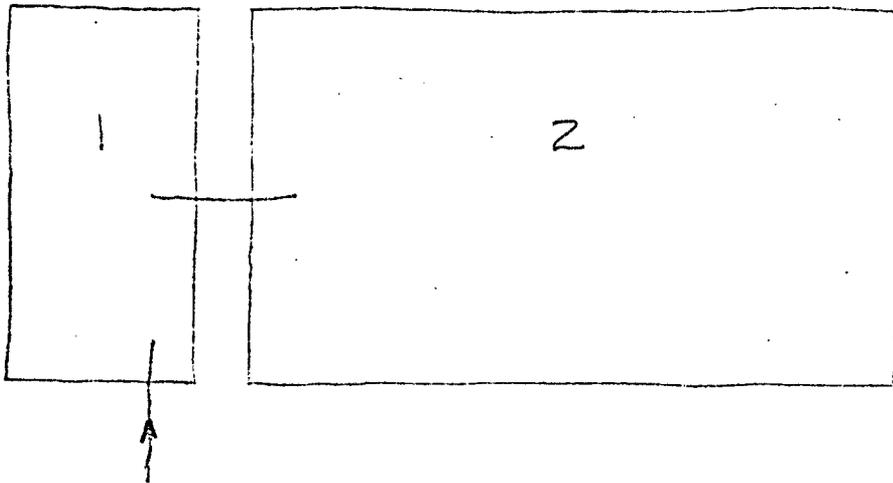
Phillips petroleum Company
P. O. Box 66,
Oil Center, New Mexico 88266

Phillips Petroleum Company
P. O. Box 1297
Maljamar, New Mexico 88264

PHILLIPS PETROLEUM CO
EUNICE PLANT

BOTH PITS ARE INSIDE THE PLANT YARD.

Joe Woodson - Dist Sup.



PART OF LOTS 8, 7, 9, 10 SEC 5, T-21-S, R-36-E NMPM,
LEA COUNTY, N. MEXICO.

PIT: #1	180' X 60'	DEPTH 6'	NO LINING
#2	350' X 180'	DEPTH 6'	NO LINING

8.4 MM GALLONS PER YEAR OF FLUIDS PLACED IN THE PITS

WATER ANALYSIS ATTACHED

Posted
1/25/79
11



PHILLIPS PETROLEUM COMPANY

LABORATORY ANALYSIS RESULTS SUMMARY

Sample Waste Water

Secured from: Cumid Plant

Secured by: David Unger

Date: 8-22-79

Analysis No.:

Excess Waste
Water P:T

Chlorides, ppm, NaCl 503

Chlorides, ppm, Cl 307

Alkalinity, ppm CaCO₃ p = 108

m = 299

Hardness, ppm, CaCO₃ 744

Calcium, ppm, Ca 228

Magnesium, ppm, Mg. 43

Dissolved Solids, ppm 1800

Sulfates, ppm, Na₂SO₄ 855

SDH 581

Silica, ppm, SiO₂ 88

Bicarbonates, ppm, HCO₃ 365

Total Iron Fe ppm 0

pH 7.0

Solometer Reading 0

% Salt -

lbs. Salt -

L-1036

Copies to:

C. Edge

R. L. Baker

(v) A. B. Blaugner

J. O. Woodlan

L. L. Beards

Martin Stinson

Control File

Analysis by: David Unger

Checked by:

