GW - 89

GENERAL CORRESPONDENCE

YEAR(S):
1993 - 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

January 22, 1993

Roger

Ms. Donna Mullins
U.S. Environmental Protection Agency
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Dear Ms. Mullins:

This responds to your letter dated December 19, 1992, requesting the U.S. Fish and Wildlife Service (Service) comments on the U.S. Environmental Protection Agency's (EPA) intent to terminate the Consent Decree between the Transwestern Pipeline Company (TPC) and EPA for PCB contamination at four TPC compressor stations and ancillary sites in New Mexico. The Consent Decree will be terminated because the company has met the terms and conditions of the document. The company has cleaned up PCB soil contamination at their Mountainair, Corona, Thoreau, and Laguna stations. Groundwater monitoring has also been conducted at these four compressor stations in accordance with the Consent Decree.

PCB's and BTEX were found in the groundwater at the Thoreau and Laguna stations. New Mexico Oil Conservation Division (OCD) has agreed to oversee TPC's groundwater remedial efforts at these two stations to ensure that groundwaters are remediated to State standards. OCD is in the process of working with TPC to define the extent of petroleum contaminants at these sites and to determine options for remediation of contaminated groundwater.

The Service has no comment on the termination of the Consent Decree for PCB remedial activities at the TPC sites. In a conversation with Mr. William Olsen of OCD, groundwater remediation plans at the Thoreau and Laguna stations at this time are based on a closed loop plan. However, if at anytime these plans change and involve open ponding, which may create a potential risk to the Department of Interior Trust Resources, the Service recommends steps be taken to ensure migratory birds cannot gain access to the ponds.

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 1/4/93,
or cash received on 1/8/93 in the amount of $ 50.00
from Transwestern Pipeline Company
for Corona Compressor Station (Facility Name) GW-89 (DP No.)
Submitted by: _____ Date: _____
Submitted to ASD by: Kathy Brown Date: 1/8/93
Received in ASD by: Angie Olivas Date: 1/8/93

Filing Fee X New Facility ___ Renewal ___
Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 93

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

CHECK NO. [redacted]

TRANSWESTERN PIPELINE COMPANY
P.O. BOX 1188
HOUSTON, TEXAS 77251-1188

DATE OF CHECK
JANUARY 4, 1993

ENRON CORP

PAY EXACTLY FIFTY AND NO/100 - - - - - - - - - - - - - - DOLLARS $50.00
This check is VOID unless printed on BLUE background

PAY TO THE ORDER OF
NMED - WATER QUALITY MANAGEMENT
OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87504

M. B. Odpers

NOT VALID OVER $5,000 UNLESS COUNTERSIGNED

UNITED BANK OF GRAND JUNCTION

[redacted]

OIL CONSERVATION DIVISION
RECEIVED
AM 8 44

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

New Mexico DRUG FREE

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

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

December 17, 1992

$50.00

Payment Approval				
060	8500	999	161	5115
CO	MAJOR	SUB	DETAIL	RC
SUBLEDGER/WAREHOUSE #		VEHICLE#/STOCK SYMBOL		
WORK ORDER	PROPERTY UNIT see back page		COST CATEGORY	
DESCRIPTION: discharge plan modification fee				
SIGNATURE: N. B. Alpers			DATE 12-30-92	

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-927

Mr. Larry T. Campbell
Transwestern Pipeline Company
P.O. Box 1717
Roswell, New Mexico 88202-1717

ck #0602506300 1-04-93

RE: Fees for Discharge Plans
GW-90, GW-95, GW-109, GW-113, GW-89

Dear Mr. Campbell:

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". Every billable facility submitting a new discharge plan will be assessed a filing fee plus either a flat fee or discharge fee. Every billable facility submitting a discharge plan modification will be assessed a filing fee and the flat fee/discharge fee may be waived at the Director's discretion.

The discharge plans listed below were previously approved by the OCD Director. Our records show that the $50 filing fee has been paid, but the flat fee has not been paid. The flat fee for compressor stations with a maximum horsepower greater than 3000 is $1380. Please submit the flat fees for the following compressor stations or records showing that these fees have been paid.

Portales P-1 Compressor Station (GW-90)
Laguna Compressor Station (GW-95)
Carlsbad Compressor Station (GW-109)
Eunice Compressor Station (GW-113)

The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval.

In addition, the discharge plan modification for the Corona Compressor Station (GW-89) was approved by the Director on August 17, 1992. Our records show that a filing fee was not submitted with the application for modification. Please submit the $50 filing fee or records showing that the fee has been paid. The flat fee for the Corona Compressor Station discharge plan modification has been waived.

Please make all checks payable to: **NMED - Water Quality Management** and addressed to the OCD Santa Fe Office. If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Kathy M. Brown
Geologist

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

DRUG FREE

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

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

December 29, 1992

Donna S. Mullins
U.S. Environmental Protection Agency
Region 6
1445 Ross Ave, Suite 1200
Dallas, Texas 75202-2733

RE: TRANSWESTERN PIPELINE COMPANY PCB CONTAMINANT CLEANUP

Dear Ms. Mullins:

The New Mexico Oil Conservation Division (OCD) is in receipt of your December 17, 1992 correspondence requesting comment on the U.S. Environmental Protection Agency's (EPA) intent to terminate the Consent Decree between the Transwestern Pipeline Company (TPC) and EPA for PCB contamination at various TPC compressor stations and ancillary sites in New Mexico. Your correspondence states that the required cleanup of PCB's at these sites has been completed to the satisfaction of EPA and that petroleum related contaminants identified during ground water monitoring at the Thoreau and Laguna compressor stations are being addressed by the appropriate state and tribal regulatory agencies.

The OCD has no comment on the termination of the Consent Decree for PCB remedial activities at the TPC sites. However, according to New Mexico Water Quality Control Commission (WQCC) Regulations, remaining petroleum contaminated ground water at the Thoreau and Laguna compressor stations is required to be remediated to ground water standards promulgated by the WQCC. The OCD is the constituent agency responsible for enforcement of WQCC regulations at these stations. As you know, the OCD and has been working with TPC to define the extent of petroleum contaminants at these sites and to determine options for remediation of contaminated ground water. The OCD will continue to oversee TPC's ground water remedial efforts to ensure that ground waters are remediated to state standards.

The OCD thanks EPA for keeping us apprised of the results of EPA's PCB contaminant investigations and remedial efforts at TPC's New Mexico sites.

In the future, if you have any questions regarding OCD required remedial actions at TPC's Thoreau and Laguna compressor stations, please contact William C. Olson of my staff at (505) 827-5885.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

xc: William J. LeMay, OCD Director
Frank Chavez, OCD Aztec District Supervisor

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

DEC 17 1992

William J. LeMay
Director
Oil Conservation Division
State of New Mexico
Energy, Minerals and Natural Resources Department
P.O. Box 2088
Santa Fe, New Mexico 87504

Dear Mr. LeMay:

As you are aware, the EPA PCB Program has been working with Transwestern Pipeline, under the auspices of a Consent Decree, for the cleanup of PCB contamination at four compressor stations and ancillary sites in New Mexico. As of this date, cleanup has been completed at the four compressor stations and ancillary sites according to the terms of the Consent Decree. Groundwater monitoring has also been conducted at the four compressor stations in accordance with the Consent Decree. PCB, in addition to Benzene, Toluene and Xylene (BTEX), contamination has been identified at the Thoreau and Laguna Compressor Stations. According to the terms of the Consent Decree, the company has submitted Groundwater Assessment Reports for both sites that have been approved by the EPA PCB Program. The Company has proposed and is conducting on-going groundwater monitoring at both of these sites.

The company has also conducted groundwater monitoring at the Belen Rio Grande River Crossing for a one year period. No PCBs or BTEX were detected at this site.

The purpose of this letter is two-fold. First, current on-going groundwater monitoring and/or remediation is not covered under the Consent Decree. Currently, the company is working with your Agency and the Navajo Tribe on on-going groundwater monitoring at the Thoreau Compressor Station. They are also conducting a pilot bioremediation program for hydrocarbon contamination, that has been approved by your Agency, at the site. The company is working with your Agency and the Laguna Tribe concerning on-going groundwater monitoring at the Laguna Compressor Station. Therefore, based on the lack of resources and the priority of other projects, the EPA PCB Program will no longer formally conduct oversight of on-going groundwater monitoring, as it pertains to PCB contamination. The EPA PCB Program reserves the right to enter into a formal oversight role, but this would have to be through the civil referral process or civil administrative complaint process.

Second, the EPA PCB Program will soon terminate the Consent Decree because the Company has met the terms and conditions of the Consent Decree. Before we terminate the Consent Decree, we want to give

interested parties a period of 30 days in which to comment or ask questions about the outcome of the cleanup. Please send in writing or call about any questions or comments that you might have by January 25, 1993.

Finally, we want to thank you for your assistance in this project. Your interest and assistance contributed to a project which resulted in the overall cleanup of the environment.

If you have any questions or comments concerning this letter or the Consent Decree, please call me at (214) 655-7576.

Sincerely,

Donna S. Mullins

Donna S. Mullins
EPA Project Contact

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

December 17, 1992

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-927

Mr. Larry T. Campbell
Transwestern Pipeline Company
P.O. Box 1717
Roswell, New Mexico 88202-1717

RE: Fees for Discharge Plans
GW-90, GW-95, GW-109, GW-113, GW-89

Dear Mr. Campbell:

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund". Every billable facility submitting a new discharge plan will be assessed a filing fee plus either a flat fee or discharge fee. Every billable facility submitting a discharge plan modification will be assessed a filing fee and the flat fee/discharge fee may be waived at the Director's discretion.

The discharge plans listed below were previously approved by the OCD Director. Our records show that the $50 filing fee has been paid, but the flat fee has not been paid. The flat fee for compressor stations with a maximum horsepower greater than 3000 is $1380. Please submit the flat fees for the following compressor stations or records showing that these fees have been paid.

Portales P-1 Compressor Station (GW-90)
Laguna Compressor Station (GW-95)
Carlsbad Compressor Station (GW-109)
Eunice Compressor Station (GW-113)

The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval.

In addition, the discharge plan modification for the Corona Compressor Station (GW-89) was approved by the Director on August 17, 1992. Our records show that a filing fee was not submitted with the application for modification. Please submit the $50 filing fee or records showing that the fee has been paid. The flat fee for the Corona Compressor Station discharge plan modification has been waived.

Please make all checks payable to: **NMED - Water Quality Management** and addressed to the OCD Santa Fe Office. If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Kathy Brown

Kathy M. Brown
Geologist

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

August 17, 1992

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-136

Mr. Larry T. Campbell
Transwestern Pipeline Company
P. O. Box 1717
Roswell, New Mexico 88202-1717

RE: Discharge Plan GW-89
Corona Compressor Station
Lincoln County, New Mexico

Dear Mr. Campbell:

The modification of groundwater discharge plan GW-89 for the Transwestern Pipeline Company Corona Compressor Station located in the NW/4, Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan modification consists of the application dated May 26, 1992.

The discharge plan was submitted pursuant to Section 3-106 of the Water Quality Control Commission Regulations. It is approved pursuant to section 3-109.A. Please note Section 3-109.F., which provides for possible future amendments of the plan. Please be advised that approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment which may be actionable under other laws and/or regulations.

Please be advised that all exposed pits, including lined pits and open top tanks (tanks exceeding 16 feet in diameter), shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with

the terms and conditions of the plan". Pursuant to Section 3-107.C. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

The discharge plan modification application for the Transwestern Pipeline Company Corona Compressor Station is subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan modification will be assessed a fee equal to the filing fee of fifty (50) dollars plus the flat rate of six-hundred and ninety (690) dollars for compressor stations in excess of 3000 Horsepower .

The OCD has not received your $50 filing fee. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
Director

WJL/rca

xc: Chris Eustice - OCD Hobbs

ATTACHMENT TO DISCHARGE PLAN GW-89 MODIFICATION
TRANSWESTERN PIPELINE CORONA COMPRESSOR STATION
DISCHARGE PLAN REQUIREMENTS
(August 17, 1992)

1. The $50 filing fee and the $690 flat fee (either total payment or installment) will be paid upon receipt of this approval.

2. Only contaminated soils from Transwestern operations will be accepted at the landfarm.

3. Only solids which are non-hazardous by RCRA Subtitle C exemption or by characteristic testing will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results must be submitted to the OCD along with a request to receive the non-exempt solids, and a written OCD approval (case specific) must be obtained prior to disposal. Any non-oilfield wastes which are RCRA Subtitle C exempt or are non-hazardous by characteristic testing will only be accepted on a case-by-case basis and with prior OCD approval.

4. Comprehensive records of all material disposed of at the facility will be maintained at the facility.

6. No free liquids or soils with free liquids will be accepted at the landfarm.

7. The OCD will be notified of any break, spill, blow out, or fire or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116.

8. Removal of remediated soils from the landfarm will be on a case by case approval basis.

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

June 23, 1992

Mr. William J. Lemay
Director, State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to the notice of publication received by the U.S. Fish and Wildlife Service (Service) on June 19, 1992, regarding the Oil Conservation Division (OCD) discharge permits GW-119, GW-123, GW-89, and GW-110 on fish, shellfish, and wildlife resources in New Mexico.

The Service has determined there are no wetlands or other environmentally sensitive habitats, plants, or animals that will be adversely affected by the following discharge.

> GW-119 - Phillips Petroleum Company, East Vacuum Liquids Recovery Plant, Section 33, T17S, Range 35E, NMPM, Lea County, New Mexico. Approximately 2,100 gallons per day of wastewater is to be discharged into a Class II well for beneficial reuse into a waterflood.

The Service has the following comments on the issuance of the following discharge permits.

> GW-123 - Yates Petroleum Corporation, 7-Rivers Compressor Station, NW/4 NW/4, Section 25, T19S, R24E, NMPM, Eddy County, New Mexico. Approximately 260 gallons per day of wash down water stored in two 300 barrel above ground fiberglass tanks and then transferred via pipeline and injected into an OCD approved Class II injection well.

Natural gas pipeline condensates contain many organic constituents including benzene, C1 to C5 alkylated benzenes, and toluene. (G. Eiceman. 1986. Hazardous Organic Wastes From Natural Gas Production, Processing and Distribution: Environmental Fates). Polychlorinated bi-phenyls may also be incorporated into the condensate through some compressor lubricants. The Service is concerned that washdown water at the compressor site may contain any, or all, of these organic constituents and that accidental spills could result in potential toxicity to Department of the Interior (DOI) Trust

Resources over time. The Service suggest that a surface soil monitoring program be implemented. Such a monitoring program would ensure the compressor site would not represent a potential threat to endangered species or migratory birds that may be found in the area.

GW-89 - Transwestern Pipeline Company, Corona Compressor Station, NW/4, Section 36, T4S, R15E, NMPM, Lincoln County, New Mexico. Discharge plan modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted.

GW-110 - Transwestern Pipeline Company, Mountainair Compressor Station, NE/4, Section 3, T1S, R6E, NMPM, Torrance County, New Mexico. Discharge plan modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at this site.

The landfarm area should be underlain with impermeable plastic and bermed to prevent runoff of contaminants. If vegetation is to be planted to physically stabilize the soil, the Service is concerned that the vegetation might take up, from the soil, potentially toxic levels of contaminants and could create a potential risk to DOI Trust Resources. The Service recommends that, if planting does occur, the soil be analyzed for hazardous or toxic substances to ensure that a potential risk to endangered species or migratory birds does not exist.

The Service is the Federal agency responsible for the protection of migratory birds and endangered species. Please note the following legal mandates.

1. Endangered Species Act of 1973, as amended. Section 9 prohibits any "take" (harass, harm, pursue, hunt, shoot, would, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of listed species without a special exemption. Harm is further defined to include specific habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns such as breeding, feeding, or sheltering.

2. Migratory Bird Treaty Act (Act). Section 703 prohibits anyone at anytime or in any manner to capture, transport, or kill any migratory birds unless permitted by regulations promulgated under it. If migratory birds become exposed to and/or accumulated harmful levels of contaminants, this constitutes "take" under the Act. The courts have stated the Act can be constitutionally applied to impose penalties to persons, associations, partnerships, or corporations which did not intend to "kill" migratory birds and that the Act includes poisoning by any means. The unlawful killing of even one migratory birds is an offense.

If you have any questions concerning our comments, please contact Mary Orms at (505) 883-7877.

Sincerely,

for Jennifer Fowler-Propst
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Regional Administrator, U.S. Environmental Protection Agency, Dallas, Texas
Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife Enhancement, Albuquerque, New Mexico

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Notice Of Publication and numbered ..... in the ..... Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of each week, for one (1) day consecutive weeks beginning with the issue of June 24, 19 92 and ending with the issue of June 24, 19 92

And that the cost of publishing said notice is the sum of $ 50.76 which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 25th day of June, 19 92

Mrs. Jean Henson

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 94

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

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

(GW-119) - Phillips Petroleum Company, Jeffrey Carlson, Safety and Environmental Analyst, 4001 Penbrook, Odessa, Texas 79762, has submitted a discharge plan application for their East Vacuum Liquids Recovery Plant (EVLRP) which is located in Section 33, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico. Approximately 2100 gallons per day of waste water with a total dissolved solids concentration of approximately 3715 mg/l is discharged into a Class II well for beneficial reuse into a waterflood. Groundwater most likely to be affected by an accidental discharge is at a depth ranging from 220 to 280 feet with a total dissolved solids concentration ranging from 300 mg/l to 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-123) - Yates Petroleum Corporation, Chuck Morgan, 105 South Fourth Street, Artesia, New Mexico, 88210, has submitted a discharge plan application for their 7-Rivers Compressor Station located in the NW/4 NW/4, Section 25, Township 19 South, Range 24 East, NMPM, Eddy County, New Mexico. Approximately 260 gallons per day of wash down water with a total dissolved solids concentration of approximately 56,800 mg/l is stored in two 300 barrel above ground fiberglass tanks and then transferred via pipeline and injected into an OCD approved Class II injection well. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 1650 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-89) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan modification application for the previously approved discharge plan for their Corona Compressor Station located in the NW/4 Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico. The modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at the site. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 552 feet with a total dissolved solids concentration of approximately 1500 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-110) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan modification application for the previously approved discharge plan for their Mountainair Compressor Station located in the NE/4, Section 3, Township 1 South, Range 6 East, NMPM, Torrance County, New Mexico. The modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at the site. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 350 feet with a total dissolved solids concentration of approximately 2800 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if 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 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 New Mexico Oil Conservat Commission at Santa Fe, N Mexico, on this 16th day June, 1992.

STATE OF NEW MEXI OIL CONSERVATION DIVISI

WILLIAM J. LEMAY, Direc

SEAL

Published in the Lovington D Leader June 24, 1992.

NOTICE OF PUBLICATION

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

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

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(GW-123) — Yates Petroleum Corporation, Chuck Morgan, 105 South Fourth Street, Artesia, New Mexico, 88210, has submitted a discharge plan application for their 7-Rivers Compressor Station located in the NW/4NW/4, Section 25, Township 19 South, Range 24 East, NMPM, Eddy County, New Mexico. Approximately 260 gallons per day of wash down water with a total dissolved solids concentration of approximately 56,800 mg/l is stored in two 300 barrels above ground fiberglass tanks and then transferred via pipeline and injected into an OCD approved Class II injection well. Ground water most likely to be affected by an accidental discharge is at a depth approximately 250 feet with a total dissolved solids concentration of approximately 1,650 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-89) — Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted discharge plan modification application for the previously approved discharge plan for their Corona Compressor Station located in the NW/4 Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico. The modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at the site. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 552 feet with a total dissolved solids concentration of approximately 1,500 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-110) — Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan modification application for the previously approved discharge plan for their Mountainair Compressor Station located in the NE/4, Section 3, Township 1 South, Range 6 East, NMPM, Torrance County, New Mexico. The modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at the site. Groundwater most likely to be affected by an acidental discharge is at a depth of approximately 350 feet with a total dissolved solids concentration of approximately 2,800 mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 AM and 5:00 PM, Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fé, New Mexico, on this 16th day of June, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
/s/ WILLIAM J. LEMAY
Director

SEAL

To be published one time in the Torrance Cou

THE
CITIZEN

P.O. BOX 288
ESTANCIA, NEW MEXICO 87016-0288

EDITOR'S AFFIDAVIT

STATE OF NEW MEXICO)
)
COUNTY OF TORRANCE)

Before me, the undersigned, personally appeared James Morrow Hall, who being sworn, states:

That he is the editor of the TORRANCE COUNTY CITIZEN, a weekly newspaper of general circulation, which is entered under the second class privilege in Torrance County, New Mexico, continuously and uninterruptedly during the period of more than twenty-six consecutive weeks next prior to the first issue containing the attached legal notice; that the notice attached hereto in Cause No. Notice of Publication in the Court in and for Torrance County, New Mexico, was published in said newspaper for One consecutive issues, the first publication being dated July 2, 19 92, and the last publication being dated July 2, 19 92; that such legal notice was published in a newspaper duly qualified for that purpose within the meaning of Chapter 167, New Mexico Session Laws of 1937; and that payment therefor in the sum of $22.96 is to be assessed as court costs in said cause.

James Morrow Hall
EDITOR

Subscribed and sworn to before me this 10th day of July, 1992.

Notary Public

My commission expires: Oct 17, 1992

STATE OF NEW MEXICO
County of Bernalillo ss

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

for 1 times, the first publication being on the 26 day

of June, 1992, and the subsequent consecutive

publications on ....., 1992.

Thomas J. Smithson

OFFICIAL SEAL
Bernadette Ortiz
BERNADETTE ORTIZ
NOTARY PUBLIC-NEW MEXICO
BY BOND FILED WITH SECRETARY OF STATE
Commission Expires 12-18-93

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 26 day of June, 1992.

PRICE $47.11

Statement to come at end of month.

CLA-22-A (R-12/92) ACCOUNT NUMBER CB1184

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

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

(GW-119) - Phillips Petroleum Company, Jeffrey Carlson, Safety and Environmental Analyst, 4001 Penbrook, Odessa, Texas 79762, has submitted a discharge plan application for their East Vacuum Liquids Plant (EVLRP) which is located in Section 33, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico. Approximately 2100 gallons per day of waste water with a total dissolved solids concentration of approximately 3715 mg/l is discharged into a Class II well for beneficial reuse into a waterflood. Groundwater most likely to be affected by an accidental discharge is at a depth ranging from 220 to 280 feet with a total dissolved solids concentration ranging from 300 mg/l to 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-123) - Yates Petroleum Corporation, Chuck Morgan, 105 South Fourth Street, Artesia, New Mexico, 88210, has submitted a discharge plan application for their 7-Rivers Compressor Station located in the NW/4 NW/4, Section 26, Township 19 South, Range 24 East, NMPM, Eddy County, New Mexico. Approximately 260 gallons per day of wash down with a total dissolved solids concentration of approximately 56,800 mg/l is stored in two 300 barrel above ground fiberglass tanks and then transferred via pipeline and injected into an OCD approved Class II injection well. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 1650 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-89) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico 88202-1717, has submitted a discharge plan modification application for the previously approved discharge plan for their Corona Compressor Station located in the NW/4, Section 36, Township 4 South, Range 18 East, NMPM, Lincoln County, New Mexico. The modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at the site. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 552 feet with a total dissolved solids concentration of approximately 1500 mg/L. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of June, 1992

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
WILLIAM J. LEMAY, Director

Journal: June 26, 1992

PUBLISHER'S AFFIDAVIT

STATE OF NEW MEXICO
COUNTY OF
LINCOLN } SS.

Before me, the undersigned, personally appeared Ruth Hammond, who being sworn states:

That she is the publisher of the Lincoln County News, a weekly newspaper of general paid circulation, which is entered under the second class privilege in Lincoln County, New Mexico; that said newspaper has been so published in Lincoln County, New Mexico, continuously and uninterruptedly during the period of more than twenty-six consecutive weeks next prior to the first issue containing the attached legal notice; that the notice attached hereto is Cause in the Court in and for Lincoln County, New Mexico, was published in said newspaper for ONE successive issues, the first publication being dated June 25, 19 92 and the last publication being dated June 25, 19 92 that such legal notice was published in a newspaper duly qualified for that purpose within the meaning of Chapter 167, New Mexico Session Laws of 1937; and the payment therefor in the sum of $ 77.45 is to be assessed as court costs in said cause.

Ruth Hammond
PUBLISHER

Subscribed and sworn to before me this 26th day of June, 19 92

Virginia L. Curtis
NOTARY PUBLIC

My Commission Expires 2/26, 19 93

OFFICIAL SEAL
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan applications and modifications have been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800: (GW-119)-Phillips Petroleum Company, Jeffrey Carlson, Safety and Environmental Analyst, 4001 Penbrook, Odessa, Texas 79762, has submitted a discharge plan application for the East Vacuum Liquids Recovery Plant (EVLRP) which is located in Section 33, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico. Approximately 2100 gallons per day of waste water with a total dissolved solids concentration of approximately 3715 mg/l is discharged into a Class II well for beneficial reuse into a waterflood. Groundwater most likely to be affected by an accidental discharge is at a depth ranging from 220 to 280 feet with a total dissolved solids concentration ranging from 300 mg/l to 500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-123)-Yates Petroleum Corporation, Chuck Morgan, 105 South Fourth Street, Artesia, New Mexico, 88210, has submitted a discharge plan application for their 7-Rivers Compressor Station located in the NW/4NW/4, Section 25, Township 19 South, Range 24 East, NMPM, Eddy County, New Mexico. Approximately 260 gallons per day of wash down water with a total dissolved solids concentration of approximately 56,800 mg/l is stored in two 300 barrel above ground fiberglass tanks and then transferred via pipeline and injected into an OCD approved Class II injection well. Ground water most likely to be affected by an accidental discharge is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 1650mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 552 feet with a total dissolved solids concentration of aprpoximately 1500mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

(GW-89) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan modification application for the previously approved discharge plan for their Corona Compressor Station located in the NW/4, Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico. The modification proposes the addition of a landfarm which will accept non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern. No liquids or hazardous waste will be accepted at the site. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 350 feet with a total dissolved solids concentration of approximately 2800mg/l. The discharge plan addresses how spills, leaks and other accidental discharges to the surface will be managed.

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GIVEN under the Seal of New Mexico Oil Conservation Commission at San-

Affidavit of Publication

No. 13984

STATE OF NEW MEXICO,

County of Eddy:

GAry D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive days weeks on the same day as follows:

First Publication June 24, 1992

Second Publication

Third Publication

Fourth Publication

Gary D. Scott

Subscribed and sworn to before me this 24th day of June 1992

Barbara Ann Beaver

Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1996

LEGAL NOTICE

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of June, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
s-William J. LeMay
WILLIAM J. LEMAY
Director

SEAL

Published in the Artesia

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 16th day of June, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717
Phone (505) 623-2761
FAX (505) 625-8060

OIL CONSER. DIVISION
RECEIVED
'92 MAY 29 AM 8 59

May 26, 1992

Mr. Roger Anderson
Oil Conservation Division
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson

Transwestern Pipeline Company request a permit to construct and operate a landfarm located at it's Corona Compressor Station No. 8, a remote facility located in Lincoln County. This facility occurs in the exemption area for oil and gas exploration and production and is located at the following coordinates:

Northwest 1/4, Section 36, Township 4 South, Range 15 East, Lincoln County, New Mexico

This request is addressed to specifically landfarm non-hazardous hydrocarbon contaminated soil generated at field operations owned by Transwestern Pipeline Company in the Belen District.

This landfarm is to be constructed within the facility property. A six foot chain link fence presently surrounds the property. The anticipated dimensions of the soil remediation cell is to be 100' by 150' with the amount of soil to be placed into this landfarm cell to be approximately 550 cubic yards. A review of the groundwater conditions at this site from a drilling log indicates the depth to the water table to be at 552 feet. As a barrier to vertical migration of liquids, the soil cell is underlayed by various layers of soil makeup. (attached drilling well log)

AS per guidelines set forth by the Oil Conservation Division (OCD), the following site requirements will be adhered:

1) A berm of approximately 24 inches will be constructed around the entire soil cell area to prevent surface runoff and potential contamination to adjacent areas.

2) Soils to be remediated will be initially layed down and limited to 12 inches in depth. Subsequent lifts will only be applied after analyses have been performed of the surface in-place material and submitted to the OCD for approval.

3) Disking will be preformed bi-monthly to expedite the remediation processes.

4) In the event remediation processes are hindered, fertilizer will be utilized to accelerate the remediation process.

5) This land farm will be operated effectively to reduce fugitive dust emissions to the greatest extent possible.

Under this permit, we are additionally requesting that options be discussed to replace or dispose of the soil once contamination levels are below target values assigned by the OCD. This will allow for long term use of the landfill site and decrease the potential for environmental liability.

We are presently in the process of performing remediation and soil cleanup operations and would appreciate your attention in this matter.

If you may require any additional information in this matter, please contact me at (505) 625-8022.

Sincerely,

Larry Campbell/cc

Larry Campbell
Compliance Environmentalist

cc: Doc Alpers
Roger Lalonde
Johnny Hendrix
file

DOMESTIC WELL LOG

Keyes Drilling Co
May 9, 1966

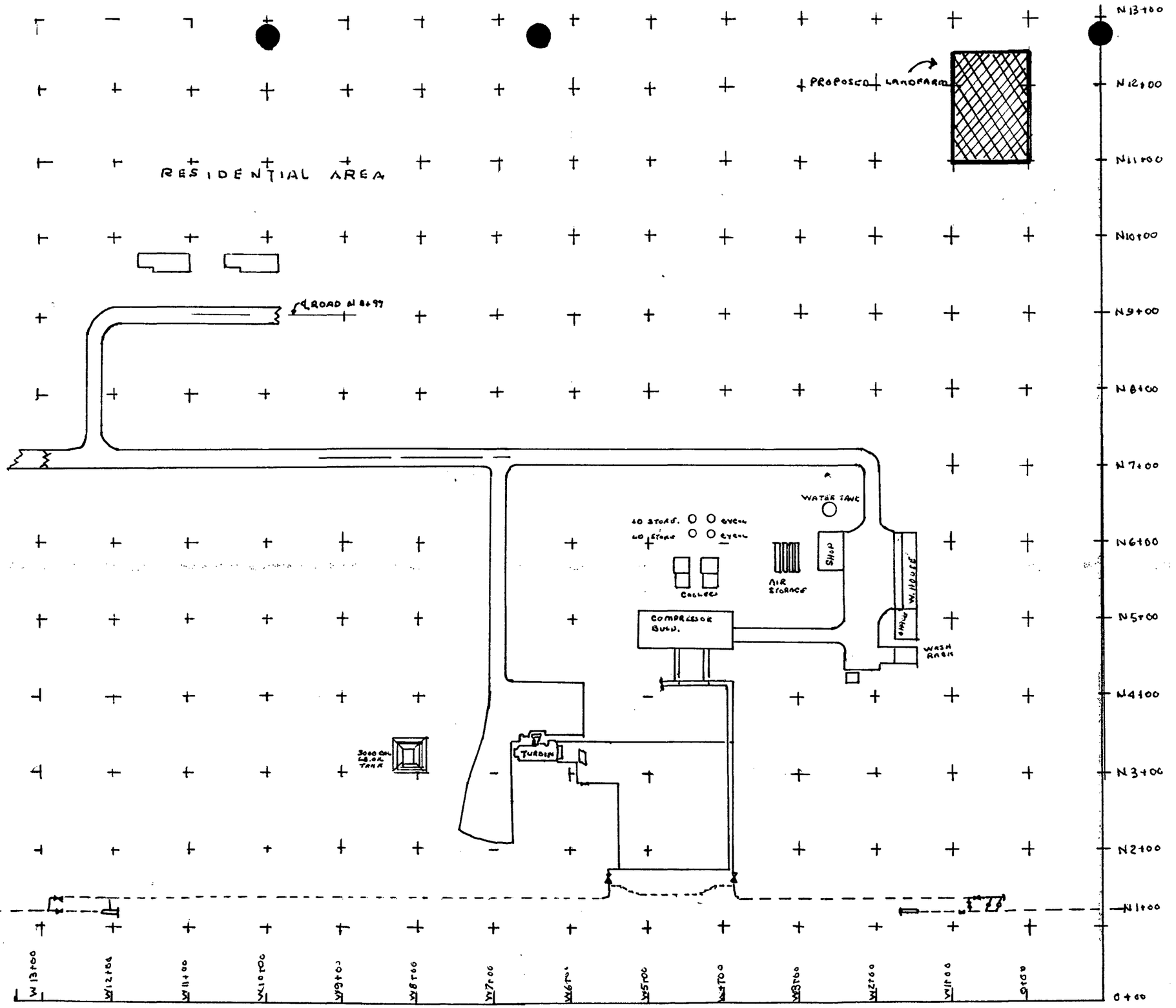
TRANSWESTERN PIPE LINE COMPANY

COMPRESSOR STATION #8
Sec. 36, T-4-S, R-15-E NMPM

From	To	Formation
0	5	Top Soil & Limestone rocks
5	16	Limestone boulders & Ledge rock
16	25	Conglomorate
25	38	Limestone
38	68	Limestone & Gypsum
68	90	Anhydrite & Gypsum
90	103	Limestone & Gypsum
103	110	Limestone very porous
110	156	Sandstone very porous
156	163	Limestone (broken)
163	174	Sandstone & Limestone
174	183	Conglomorate
183	195	Gypsum & Anhydrite
195	205	Gypsum & Clay
205	211	Gypsum
211	216	Dolomitic Limestone
216	238	Pink Limestone (porous)
238	274	Limestone (broken)
274	280	Gray Sandstone
280	325	White Sandstone
325	332	Buff & White Sandstone
332	337	White Sandstone
337	436	Limestone
436	489	White Sandstone
489	553	Buff Sandstone
553	578	Yellow Sandstone, streaks of yellow clay
578	586	Red Sandstone *(water) 5-gpm
586	595	White Sandstone, stringers of red Sandstone
595	620	White Sandstone
620	652	White & Red Sandstone
652	666	Red Sandstone & Shale
666	681	Red Sandstone
681	686	Red Sandstone & Shale
686	~~692~~ 687	Red Sandstone
~~692~~ 687		Total depth

Water level 552'
Total Depth ~~692'~~ 687'
Cased top to bottom with
7" O.D. thread and collard
J-55 23# round thread spang
casing with Halliburton Texas
Pattern Casing Shoe.

Perforated Casing
from 561' to 592' 62 slots
from 654' to 686' 50 slots



STATION PERSONNEL TO FIELD DEPT. MEASURMENT IN SITE NEED

TWPL
GENERAL PLAN
STATION 8
LANDFARM SITE

Phone (505) 623-2761
FAX (505) 625-8060

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

March 9, 1992

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 1188
Santa Fe, New Mexico

Re: Filing Fee

The filing fee of fifty (50) dollars is inclosed for the listed Discharge Plan Application that has previously been submitted to the Oil Conservation Division.

Discharge Plan Application
Transwestern Pipeline Company
Corona Compressor Station No. 8
Lincoln County, New Mexico

If you have questions or if additional information is needed, let us know.

Sincerely

Larry Campbell/EC

Larry T. Campbell
Compliance Environmentalist

LTC/EEC

cc: file

CHECK NO.

REMITTANCE STATEMENT

VOUCHER NO.	INVOICE DATE	INVOICE NUMBER	PURCHASE ORDER	AMOUNT		
				GROSS	DISCOUNT	NET
	3/9/92	04				

Special Instructions

DISCHARGE PLAN APPLICATION - STATION 8

P. O. BOX 1188, HOUSTON, TEXAS 77251-1188

DETACH STATEMENT BEFORE DEPOSITING. ENDORESMENT OF CHECK ATTACHED ACKNOWLEDGES PAYMENT IN FULL OF ALL ITEMS SHOWN ABOVE. IN CASE OF ERROR OR OMISSION RETURN BOTH CHECK AND STATEMENT

011-E1151 12/88

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

February 5, 1992

Mr. William J. Lemay
Director, State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to the notice of publication received by the U.S. Fish and Wildlife Service (Service) on January 21, 1992, regarding the Oil Conservation Division (OCD) discharge plan applications submitted by Transwestern Pipeline Company on fish, shellfish, and wildlife resources in New Mexico.

GW-89 - Corona Compressor Station located in the NW/4, Section 36, T4S, R15E, Lincoln County.

GW-90 - Portales Compressor Station located in the NW/4, Section 16, T1S, R34E, Roosevelt County

GW-95 - Laguna Compressor Station located in the NE/4, Section 18, and SE/4, Section 7, T9N, R5W, Cibola County.

The Service has the following comments on the issuance of the above listed discharge permits which would allow approximately 25 gallons per day of washdown water to be stored in an on-site above ground steel storage tank prior to transport to an OCD approved off-site disposal facility.

Natural gas pipeline condensates contain many organic constituents including benzene, C1 to C5 alkylated benzenes, toluene, and/or polychlorinated bi-phenyls (PCBs) which may also be incorporated into the condensate through some compressor lubricants. The U.S. Environmental Protection Agency has documented PCB levels of 50 parts per million in the Corona and Laguna sites which are currently under remediation. The Service is concerned that washdown water at all compressor sites may contain any or all of these organic constituents and that accidental spills could result in potential toxicity to Department of the Interior Trust Resources over time. The Service suggests a surface soil monitoring program be implemented to ensure the compressor sites will not present a potential threat to endangered species or to migratory birds that may be found in the area.

If you have any questions concerning our comments, please contact Mary Orms at (505) 883-7877.

Sincerely,

for Jennifer Fowler-Propst
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Regional Administrator, U.S. Environmental Protection Agency, Dallas, Texas
Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife Enhancement, Albuquerque, New Mexico

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

New Mexico DRUG FREE It's a State of Mind!

BRUCE KING
GOVERNOR

March 9, 1992

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-299

Mr. Larry T. Campbell
Transwestern Pipeline Company
P. O. Box 1717
Roswell, New Mexico 88202-1717

RE: Discharge Plan GW-89
Corona Compressor Station
Lincoln County, New Mexico

Dear Mr. Campbell:

The groundwater discharge plan GW-89 for the Transwestern Pipeline Company Corona Compressor Station located in the NW/4, Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico is hereby approved. The discharge plan consists of the application dated October 31, 1991, and materials dated January 13, 1992 submitted as supplements to the application.

The discharge plan was submitted pursuant to Section 3-106 of the Water Quality Control Commission Regulations. It is approved pursuant to section 3-109.A. Please note Section 3-109.F., which provides for possible future amendments of the plan. Please be advised that approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters or the environment which may be actionable under other laws and/or regulations.

Please be advised that all exposed pits, including lined pits and open top tanks (tanks exceeding 16 feet in diameter), shall be screened, netted or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that section 3-104 of the regulations requires that "When a plan has been approved, discharges must be consistent with the terms and conditions of the plan". Pursuant to Section 3-107.C. you are required to notify the Director of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume.

Please be advised that all compressor stations that are in excess of twenty five (25) years of age must have all underground waste piping tested for integrity prior to discharge plan renewal. You must submit the results of this testing prior to your renewal date.

Pursuant to Section 3-109.G.4., this plan approval is for a period of five years. This approval will expire March 9, 1997, and you should submit an application for renewal in ample time before that date.

On behalf of the staff of the Oil Conservation Division, I wish to thank you and your staff for your cooperation during this discharge plan review.

Sincerely,

William J. LeMay
Director

WJL/rca

xc: Mike Williams - OCD Artesia
Chris Eustice - OCD Hobbs

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

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

(GW-89) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan application for their Corona Compressor Station located in the NW/4, Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico. Approximately 25 gallons per day of washdown water with a total dissolved solids concentration of approximately 2100 mg/l is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 552 feet with a total dissolved solids concentration of approximately 1500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-90) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan application for their Portales Compressor Station located in the NW/4 NW/4, Section 16, Township 1 South, Range 34 East, NMPM, Roosevelt County, New Mexico. Approximately 25 gallons per day of washdown water with a total dissolved solids concentration of approximately 2100 mg/l is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 84 feet with a total dissolved solids concentration of approximately 1500 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-98) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico 88202-1717, has submitted a discharge plan application for their Laguna Compressor Station located in the NE/4, Section 18, and the SE/4, Section 7, Township 9 South, Range 5 West, NMPM, Valencia County, New Mexico. Approximately 25 gallons per day of washdown water with a total dissolved solids concentration of approximately 2100 mg/l is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 335 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is a significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 17th day of January, 1992.

(SEAL)

STATE OF NEW MEXICO
OIL CONSERVATION DISTRICT
s/ William J. Lemay
WILLIAM J. LEMAY
Director

Published in Valencia County News-Bulletin Jan. 25, 1992.

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

COUNTY OF Valencia

Dana Bowley being first duly sworn, upon his oath, deposes and says:

1. That he is the Editor of the News Bulletin of Valencia County, a weekly newspaper published in the English language and having been regularly published, issued and in general circulation in the County of Valencia and State of New Mexico, for a period of more than six months next preceeding the first publication of the legal notice herein referred to, a printed copy of which is hereto attached, and is a newspaper duly qualified for that purpose within the meaning of Section 10-2-4 of the New Mexico Statutes Annotated (1953). That the publication, a printed copy of which is hereto attached and made a part hereof, was published in said newspaper in the regular and entire issue of every number of the newspaper during the period of time of publication, and in the newspaper proper and not in a supplement thereof, for 1 consecutive issues; the first publication being in the issue of the 25 day of JAN., 19 92, and the last publication being in the issue of the 25 day of JAN., 19 92. And deponent further says that the said notice published has been paid for or has been assessed as court costs in the case numbered.

AMT. #4539

Dana Bowley

Subscribed and sworn to before me the 27 day of JAN., 19 92.

Sandy Boyd
Notary Public

My commission expires: 7-2, 19 93.

PUBLISHER'S AFFIDAVIT

STATE OF NEW MEXICO

- SS

COUNTY OF LINCOLN

Before me, the undersigned, personally appeared Marvin C. Powell, who being sworn states:

That he is the publisher of the Lincoln County News, a weekly newspaper of general paid circulation, which is entered under the second class privilege in Lincoln County, New Mexico; that said newspaper has been so published in Lincoln County, New Mexico, continuously and uninterruptedly during the period of more than twenty-six consecutive weeks next prior to the first issue containing the attached legal notice; that the notice is cause in the Court in and for Lincoln County, New Mexico, was published in said newspaper for one successive issues, the first publication being dated January 23, 1992, and the last publication being dated January 23, 1992, that such legal notice was published in a newspaper duly qualified for that purpose within the meaning of Chapter 167, New Mexico Session Laws of 1937; and the payment therefor in the sum of $63.43 is to be assessed as court costs in said cause.

Marvin C. Powell

PUBLISHER

Subscribed and sworn to before me this 28th day of January, 1992.

Glenna K Robbins

NOTARY PUBLIC

My commission Expires March 5, 1994

NOTICE PUBLICATION

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

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

(GW-89) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan application for their Corona compressor Station located in the NW/4, Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico. Approximagely 25 gallons per day of washdown water with a total dissolved solids concentration of approximately 2100 mg/1 is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 552 feet with a total dissolved solids concentration of approximately 1500 mg/1. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-90) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan application for their Portales Compressor Station located in the NW/4, Section 16, Township 1 South, Range 34 East, NMPM, Roosevelt County, New Mexico. Approximately 25 gallons per day of washdown water with a total dissolved solids concentration of approximately 2100 mg/1 is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth of approximately 64 feet with a total dissolved solids concentration of approximately 1500 mg/1. The discharge

NOTICE OF PUBLICATION

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

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

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(GW-95) - Transwestern Pipeline Company, Larry Campbell, Compliance Environmentalist, P.O. Box 1717, Roswell, New Mexico, 88202-1717, has submitted a discharge plan application for their Laguna Compressor Station located in the NE/4, Section 18, and the SE/4, Section 7, Township 9 South, Range 5 West, NMPM, Valencia County, New Mexico. Approximately 25 gallons per day of washdown water with a total dissolved solids concentration of approximately 2100 mg/l is stored in an above ground steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely

to be affected by an accidental discharge is at a depth of approximately 25 feet with a total dissolved solids concentration of approximately 335 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 aa.m. and 5:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why a hearing should be held., A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 17th day of January, 1992.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

WILLIAM J. LEMAY, Director

FAX (505) 625-8060

Phone (505) 623-2761

OIL CONSERVATION DIVISION
RECEIVED
'92 JAN 16 AM 8 39

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

January 13, 1992

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 1188
Santa Fe, New Mexico

Re: Discharge Plan Application
Transwestern Pipeline Company
Corona Compressor Station No. 8
Lincoln County, New Mexico

Dear Mr. Anderson

The additional information requested for the above referenced Discharge Plan Application is as follows;

1) The discharge volume of oily waste water generated is twenty five (25) gallons per day.

2) The discharge volume of pipeline liquids generated is two (2) gallons per day.

3) Attached is an analyst of the potable water at the station. Sample No. 01, Sample Description 5115121291 (D.W.)

4) Attached is an analyst of the oily waste water at the station. Sample No. 03, Sample Description 5115112591 - Sta. 8

If you have questions or if additional information is needed, let us know.

Sincerely,

Larry Campbell

Larry T. Campbell
Compliance Environmentalist

LTC/EEC

cc: Jon Hendricks
Roger Lalonde
Doc Alpers
file

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505)345-8964

ENRON/TRANSWESTERN PIPELINE
P.O. BOX 1249
BELEN, NM 87002

Attn: EARL CHANLEY
Invoice Number: 912957

Order #: 91-12-138
Date: 12/26/91 12:16
Work ID: STATION 8 DISCHARGE PLAN 9022
Date Received: 12/16/91
Date Completed: 12/24/91

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	5115121291 (D.W.)		

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E.,ALBUQUERQUE,N.M. 87109

Syed Rizvi

Certified By
SYED N. RIZVI

REGULAR TEST RESULTS BY TEST

BICARBONATE **Minimum: 2.0 Maximum: 100**
Method: EPA 310.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115121291 (D.W.)	190	MG/L	12/17/91	12/17/91	RF

CALCIUM (TOTAL) **Minimum: 0.1 Maximum: 100**
Method: EPA 215.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01B	5115121291 (D.W.)	7.53	MG/L	12/17/91	12/18/91	JB

CARBONATE **Minimum: 2.0 Maximum: 100**
Method: EPA 310.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115121291 (D.W.)	7.6	MG/L	12/17/91	12/17/91	RF

CHLORIDE **Minimum: 1.0 Maximum: 100**
Method: EPA 325.3

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115121291 (D.W.)	51	MG/L	12/17/91	12/17/91	RF

ASSAIGAI
•ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

MAGNESIUM (TOTAL) **Minimum: 0.005 Maximum: 20**
Method: EPA 242.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01B	5115121291 (D.W.)	<0.005	MG/L	12/17/91	12/18/91	JB

PH ON WATERS **Minimum: 1.0 Maximum: 14**
Method: EPA 150.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115121291 (D.W.)	7.95	pH UNITS	12/16/91	12/16/91	RF

POTASSIUM (TOTAL) **Minimum: 0.05 Maximum: 20**
Method: EPA 258.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01B	5115121291 (D.W.)	0.17	MG/L	12/17/91	12/18/91	JB

SODIUM (TOTAL) **Minimum: 0.02 Maximum: 20**
Method: EPA 273.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01B	5115121291 (D.W.)	460	MG/L	12/17/91	12/18/91	JB

Order # 91-12-138 **Assaigai Analytical Labs** **Page 4**
12/26/91 12:16

SULFATE **Minimum: 1.0 Maximum: 100**
Method: EPA 375.4

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115121291 (D.W.)	1,000	MG/L	12/20/91	12/20/91	RF

TOTAL DISSOLVED SOLID **Minimum: 1.0 Maximum: 100**
Method: EPA 160.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115121291 (D.W.)	1,500	MG/L	12/23/91	12/23/91	RF

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505)345-8964

ENRON/TRANSWESTERN PIPELINE
6381 N. MAIN STREET
P.O. BOX 2018
ROSWELL, NM 88202-2018
Attn: EARL CHANLEY
Invoice Number: 912790

Order #: 91-12-005
Date: 12/06/91 14:41
Work ID: TECH OFFICE 8902
Date Received: 12/02/91
Date Completed: 12/06/91

SAMPLE 01B NOT ANALYZED DUE TO LACK OF SUFFICIENT QUANTITY.

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	5115112691- STA. 8	02	P-1: 001-DW
03	5115112591 - STA.8	04	P-1: 002 - OWW

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

SODIUM (TOTAL) **Minimum: 0.02** **Maximum: 20**
Method: EPA 273.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
02B	P-1: 001-DW	17	MG/L	12/02/91	12/04/91	JB

SULFATE **Minimum: 1.0** **Maximum: 100**
Method: EPA 375.4

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115112691- STA. 8	890	MG/L	12/04/91	12/04/91	RF
02A	P-1: 001-DW	130	MG/L	12/04/91	12/04/91	RF

TOTAL DISSOLVED SOLID **Minimum: 1.0** **Maximum: 100**
Method: EPA 160.1

Sample	Sample Description	Result	Units	Extracted	Analyzed	By
01A	5115112691- STA. 8	1500	MG/L	12/03/91	12/03/91	RF
02A	P-1: 001-DW	420	MG/L	12/03/91	12/03/91	RF
03A	5115112591 - STA.8	2100	MG/L	12/03/91	12/03/91	RF
04A	P-1: 002 - OWW	940	MG/L	12/03/91	12/03/91	RF

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No [redacted] dated 11/22/91,

or cash received on 12/3/91 in the amount of $ 2860.00

from TRANSWESTERN PIPELINE COMPANY

for THOREAU & CORONA Comp Stations GW-80 & GW89
(Facility Name) (DP No.)

Submitted by: Roger C Anderson Date: 12/3/91

Submitted to ASD by: _____ Date: _____

Received in ASD by: Dorothy C. Montoya Date: 12/3/91

2 Filing Fee X 2 New Facility X Renewal ___

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 80

To be deposited in the Water Quality Management Fund.

2 Full Payment X or Annual Increment ___

CHECK NO. [redacted]

ENRON CORP

TRANSWESTERN PIPELINE COMPANY
P.O. BOX 1188
HOUSTON, TEXAS 77251-1188

DATE OF CHECK
11-22-91

This check is VOID unless printed on BLUE background

EXACTLY $*****2,860 DOLLARS 00 CENTS

AMOUNT OF CHECK
$*****2,860.00

PAY TO THE ORDER OF
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
P O BOX 2088
NMED WATER QUALITY MANAGEMENT
SANTA FE, NM
87504

UNITED BANK OF GRAND JUNCTION

BY _____ AUTHORIZED REPRESENTATIVE

[redacted]

CHECK NO. [redacted]

REMITTANCE STATEMENT

TRANSWESTERN PIPELINE COMPANY

VOUCHER NO.	INVOICE DATE	INVOICE NUMBER	PURCHASE ORDER	AMOUNT GROSS	AMOUNT DISCOUNT	AMOUNT NET
9111004089	110591	GW-80 Thoreau CS		1,430.00	0.00	1,430.00
	NMED-WATER	QUALITY MANAGEMENT (OCD)				
9111004087	110591	GW-89 Corona CS		1,430.00	0.00	1,430.00
	NMED-WATER	QUALITY MANAGEMENT (OCD)				
					TOTAL	2,860.00

Special Instructions

P. O. BOX 1188, HOUSTON, TEXAS 77251-1188

DETACH STATEMENT BEFORE DEPOSITING. ENDORSEMENT OF CHECK ATTACHED ACKNOWLEDGES PAYMENT IN FULL OF ALL ITEMS SHOWN ABOVE. IN CASE OF ERROR OR OMISSION RETURN BOTH CHECK AND STATEMENT

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

November 5, 1991

BRUCE KING
GOVERNOR

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-106-675-380

Mr. Larry T. Campbell
Transwestern Pipeline Company
P.O. Box 1717
Roswell, New Mexico 88202-1717

RE: Fee for Discharge Plan GW-89
Corona Compressor Station
Lincoln County, New Mexico

Dear Mr. Campbell:

Pursuant to the New Mexico Water Quality Control Commission (WQCC) Regulation 3-114 "every billable facility submitting a discharge plan for approval, modification or renewal shall pay the fees specified in this section to the Water Quality Management Fund." Enclosed is a copy of WQCC Rule 3-114 effective as of August 18, 1991.

The Oil Conservation Division (OCD) received your discharge plan application for the Corona Compressor Station on November 1, 1991, which is after the effective date of the WQCC Regulation 3-114. The discharge plan application for the Corona Compressor Station is therefore subject to the WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a new discharge plan will be assessed a fee equal to the filing fee plus either a flat fee or discharge fee.

The filing fee is fifty (50) dollars for each new discharge plan application. The $50 filing fee is due immediately and is nonrefundable.

The remainder of the "total fee" for gas compressor stations falls under the "flat fee" category and is determined by the maximum number of horsepower available. The discharge plan application for your Thoreau Compressor Station does not include the maximum number of horsepower available. Please provide this number to the OCD to determine the correct flat fee. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the discharge plan, with the first payment due at the time of approval.

Please make all checks out to the **NMED - Water Quality Management** and send to the OCD Santa Fe Office. If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Engineer

Enclosure

xc: OCD Artesia Office

FAX (505) 625-8060 Phone (505) 623-2761

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

October 31, 1991

Mr. Roger Anderson
New Mexico Oil Conservation Division
P.O. Box 1188
Santa Fe, New Mexico

Re: Discharge Plan Application
Transwestern Pipeline Company
Corona Compressor Station No. 8
Lincoln County, New Mexico

Dear Mr. Anderson;

The discharge plan application for the above referenced facility is being presented to your agency on behalf of Transwestern Pipeline Company. If you require any additional information or clarification, please contact me at (505) 625-8022.

I. General Information

A. Discharger/Leagally Responsible Party

Name: Transwestern Pipeline Company
Corona Compressor Station
Attn: Roger LaLonde

Address: Belen District Office
P.O.Box 1249
Belen, New Mexico 87002
(505) 864-7461

B. Local Representative or Contact Person

Mr. Jonny Hendricks, Compression Supervisor

c. Location of Discharge

Legal Description: Township 4 South, Range 15 East, Northwest 1/4 Section 36, Lincoln County, New Mexico.

A state of New Mexico map of the immediate site vacinity and a plot plan showing location of discharge, compressor station equipment and other site information required below are attached in APPENDIX A.

Note: All onsite routine operational discharges are to sumps or an above-ground tank with subsequent transfer offsite by an appropriate disposal company. No onsite discharges are intentionally allowed to enter surface waters or groundwater.

D. Type of Natural Gas Operation

This mainline compressor station provides compression for the transmission of natural gas in the Transwestern system. It receives natural gas through 30" transmission lines and compresses the gas west to Transwestern Pipeline Compressor Station 7, Mountainair, New Mexico.

E. Copies

Three copies of the discharge plan application are enclosed.

F. Affirmation

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

Sincerely,

Larry T. Campbell
Compliance Environmentalist

LTC/EEC

3 copies

cc: Jonny Hendricks w/USGS attach
Roger LaLonde w/o attach
Doc Alpers w/o attach

II. Plant Facilities

A. Sources and Quantities of Effluent and Plant Fluids: For each source, primary quality type (e.g., high TDS water, hydrocarbons, washwater, sewage), estimated quantities, and major additives, if any are provided.

1. Scrubbers: The incoming gas stream to this facility does contain few liquids in the form of natural gas pipeline liquids. These entrained liquids are then removed by the operation of the two (2) onsite inlet scrubbers and collected in a 500 bbl. pipeline liquids tank. Liquids which are received during pigging operations are temporarily collected in a 400 gallon sump and transferred to a mist extractor which then directs the pipeline liquids to the 500 bbl. pipeline liquids tank.

2. Engines and cooling waters: The engine and cooling water stream is collected and reclaimed for reuse.

3. Domestic Sewage: Sewage is directed to the onsite septic tanks. The effluent from the tanks is then directed to distribution boxes and then to the leech fields. There are three leech fields located on the station property. A small leech fields services one domestic residences while a larger leech field services five domestic residences. The third leech field services the toilet and shower located in the warehouse. These septic systems are completely separate from the operational practices at this facility.

4. Engine Wash Down Water and Floor Drains: Wastewater collected from cleaning and washdown operations are directed to a series of floor drains and collected into a 400 gallon sump. The effluent is then pumped to a 500 bbl. oily waste water tank. Only approved biodegradable solvents (i.e. epa 2000) are used in this process. The liquids stored in the 500 bbl. tank are tested for H.W. characterization prior to being removed by a wastewater hauler for proper disposal. Truck washing operations are performed at this facility and the waste water is collected in a sump and also goes to the 500 bbl. oily waste water tank. There are no other waste streams which presently enter this system.

5. Waste engines Oils: Lubricative oil changeouts from the two Copper Bessemer, one G.E. frame 3 turbin and the two auxiliary generators are collected into a dedicated sump and into a 210 bb. used oil tank. Prior to removal from this facility samples are analyzed from the tank for proper recycling or recovered as boiler fuel makeup.

   Chemical materials stored onsite in excess of 55 gallons may include: gear and engine oil, ethylene glycol, methanol, gasoline, diesel, biodegradable soap and solvent, steam cleaner degreaser.

B: Quality Characteristics

Characteristics of the individual waste streams are as follows: All waste streams have been separated and are segregated into dedicated sumps and tanks.

1. Pipeline Liquids: The natural gas pipeline condensate annual sampling results are presented in APPENDIX B. This material is marketed for burner fuel or incinerated as a hazardous waste dependant upon results of the sampling performed.

2. Engine Cooling Water: Coolant consists of a pre-mixed solution of ambitrol and water. This stream is recovered and recondition unless contaminated to the point it can't be recycled. MSDS information is attached in APPENDIX C.

3. Used Engine Oil: Prior to removal from the facility for recycling, this material is sampled as per 40 CFR 266.

4. Floor Drains: Floor drains which collect washdown cleaning water and engine or engine parts degreasing is directed to a steel sump outside the engine room. From there, the wastewater is directed to the 500 bbl. oily waste water tank where the tank liquids are sampled and appropriately disposed. (see APPENDIX D.)

C. Transfer and Storage of Fluids and Effluent

1. Water and wastewater plan schematics are not applicable because no individual water treatment units exist. Liquid wastes are not discharged onsite. All liquid wastes are temporarily stored in sumps and tanks until they are transferred offsite.

2. Potential surface and groundwater contaminants, which may be discharged within the compressor station would be associated with sumps, above ground storage tanks and connecting ground pipes. Sumps and tanks are inspected weekly and monthly. All tanks have been engineered to be usually inspected for tank leakage and contained in concrete secondary containment which complies with the OCD requirement for 130 % containment storage.

   a. Pipeline liquids tank - 500 bbl. capacity, steel walled; contains liquids received from scrubber, mist extractor and pig receiver. Liquids are removed from the tank at each 90 day interval for offsite disposal dependant upon characteristic sampling of the liquids collected.

   b. Oily wastewater tank - 500 bbl. capacity, steel walled; contains liquids received from sumps associated with engine washdown, parts cleaning. Liquids are sampled prior to removal.

   c. Used lubrication oil storage tank- 210 bbl. capacity, steel walled; contains used crankcase and gear oil. Liquids are sampled prior to removal.

   d. Oil storage tanks - Two tanks, one 3000 gallon capacity containing citco T-32 turbin oil and one 9000 gallon capacity containing citco pacemaker 1000.

   e. Ambitrol tank - 65 bbl. capacity, steel walled.

   f. Underground gasoline storage tank - Capacity - 2000 gallons. Cathodically protected.

   g. Underground diesel storage tank - Capacity - 1000 gallons. Cathodically protected.

   h. Oil rundown tank - 65 bbl. capacity, steel walled. Tank is used to hold engine oil during maintenance of unit.

   i. Glycol rundown tank - 65 bbl. capacity, steel walled. Tank is use to hold glycol while maintenance is be done on unit.

   j. Employee's fuel tanks - Two 250 gallons and one 300 gallon tank. Steel walled above ground.

3. Underground wastewater pipes, their age and specification (i.e., wall thickness, fabrication material), are:

   a. All underground pipes are designed and constructed according to Transwestern's specification They are made of coated steel and connected to the facility rectifier system for corrosion control. The existing underground pipes were installed in 1966.

D. Spill/Leak Prevention and Housekeeping Procedures

1. SPCC Plan; Procedures addressing spill containment and cleanup, including proposed schedule for OCD notification of spills will be described in the facility's contingency plan (SPCC). This document is in preparation and will be submitted to the OCD as it is finalized. Disposition of the liquid materials is as follows:

   a. Pipeline liquids and rainwater:

      Enron Oil Trading and Transportation (EOTT)
      P.O. Box 2297
      Midland, Texas 79702
      (915) 687-0783

      Rollins Environmental Services
      P.O. Box 609
      Deer Park, Texas 77536
      (713) 930-2300

   b. Oily wastewater:

      Mesa Oil Co.
      4701 Broadway SE
      Albuquerque, New Mexico 87105
      (505) 877-8855

   c. Used lubrication and gear oil:

      Mesa Oil Co.
      4701 Broadway SE
      Albuquerque, New Mexico 87105
      (505) 877-8855

d. Used filters:

Filters are drained of liquid at the station and the liquid transferred to the 210 bbl. used oil tank. The drained filter are hauled by Transwestern to the Carrizozo Landfill.

e. Other solid waste:

Solid waste is hauled by Transwestern to the town of Corona and transferred to a dumpster.

2. Housekeeping: Precipitation runoff is directed from the station facility. Cleanup and remediation of minor oil releases is addressed in section IIb1. Information on curbs, berms, drains and secondary containment are discussed in section IIC2, IVC2 and IID1, respectively.

3. Leak Detection: All aboveground tank systems are visually inspected weekly to detect leaks and ensure tank integrity. Visual sump inspections are performed on an annual basis. Tank tightness testing for 1991 was preformed May, 1991 for the regulated underground storage tanks (UST) present.
(The results are presented in APPENDIX B)

4. Well System: The compressor station presently leases one (1) well which is used as a potable water source. This well is located 2 miles south of the compressor station site. Drinking water depth is currently at 380 feet. Sampling is conducted to determine water quality and characteristics. There previously were 3 monitor wells onsite for remediation and cleanup activities that previously occurred at site. With the completion of the remediation activities at this facilities, the monitor wells were formally closed.

IV. SITE CHARACTERISTICS

a. Site Features

The approximate one hundred and forty three acre site is presently fenced and lighted for security measures. There is approximately 50 feet of relief across the extent of the property, sloping towards the south, southeast. Major buildings present on the site include six (6) company residential houses, office, maintenance and workshop, compressor building, product and storage tanks and containment.

The closest existing residential development is the town of Corona, New Mexico located 32 miles to the northwest.

1. Geology: The surface rock at the site is the Permian San Andres Limestone, comprised of limestone, dolomite and sandstone, The underlying formation is the Yeso Formation, comprised of gypsum, red shale, sandstone, and limestone. Below the Yeso is the Abo Sandstone, a mostly shale and sandstone formation.

2. Soils: The Deama-Pastura soil association, moderately underlying, is present throughout the facility site. This association unit is 40 percent Deama very cobbly loam, 0 to 8 percent slopes, and 30 percent Pastura loam, 0 to 8 percent slopes. Other minor soils may be present in the unit.

   The Deama soil is shallow and well drained, and formed in material derived predominantly from limestone. It is typically about 7 inches over limestone. Permeability is moderate with low available water capacity. Runoff is rapid.

   The pastura soil is also shallow and well drained. It formed in alluvium derived predominantly from limestone. The soil is thirteen inches deep with moderate permeability and very low available water capacity. Runoff is rapid.

3. Vegetation: The vegetation of the area is typical for the climate and site aspect present at the facility. The potential plant community on this unit is mainly short and mid grasses, including sideoats grama, black grama, and plains lovegrass.

A. <u>Hydrologic features</u>

1. Bodies of Water: There are no bodies of water located within the vacinity of the facility.

2. Depth to Groundwater: At the station site, the depth to groundwater is 552 feet. Water of potable quality and abundant quantity is not commonly available in the greater vicinity of the site. The Glorieta Sandstone Member of the San Andres Limestone may yield impotable water locally. The Yeso Formation is an aquifer in some areas, but water is generally impotable. The Abo Sandstone in not an important aquifer locally. Based on New Mexico State Engineer well records in combination with U. S. Gelogical quadrangle maps, 34 wells are indicated to be present within an approximate 10 mile radius of the site. The wells are almost entirely used for stock watering. Depths to water range from 350 feet to 850 feet.

3. Water Chemistry: APPENDIX F.

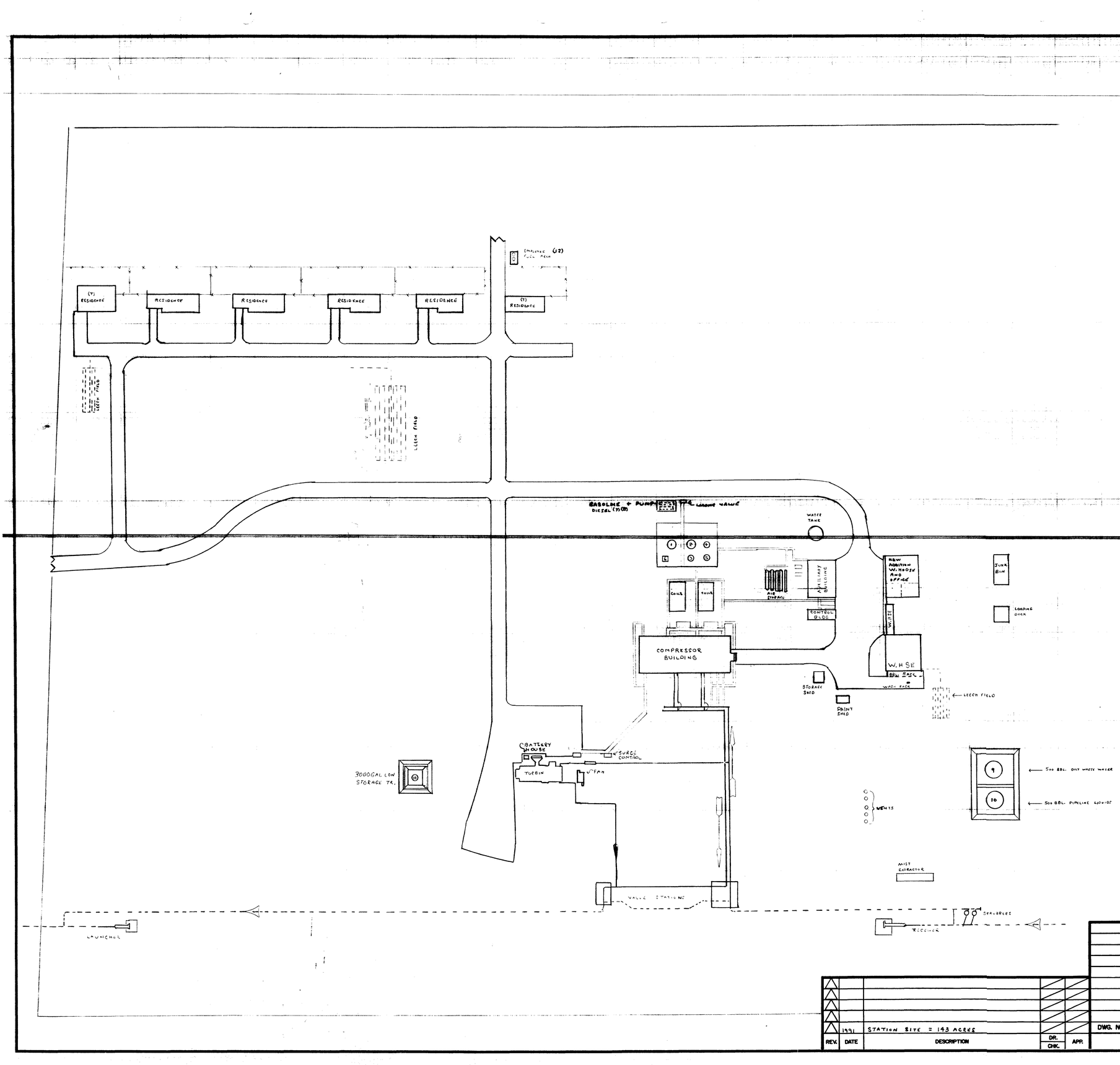
C. Flood Protection

1. Flood Potential: There is no known record or indication of flooding onsite.

2. Flood Protection: Curbs, berms and culverts have been constructed.

V. ADDITIONAL INFORMATION

To be provided as requested.



TANKS

1. 210 BBL USED OIL
2. 210 BBL. OIL STORAGE
3. 45 BBL. OIL RUNDOWN TANK
4. 45 BBL. GLYCOL STORAGE
5. 45 BBL. GLYCOL RUNDOWN TANK
6. USED FILTER BOX
7. 2000 GAL. GASOLINE TANK
8. 1000 GAL. GASOLINE TANK
9. 500 BBL. OILY WASTE WATER
10. 500 BBL PIPELINE LIQUIDS
11. 3000 GAL. TURBIN OIL
12. EMPLOYEE FUEL TANKS
    2 - 250 GAL. GASOLINE
    1 - 300 GAL DIESEL

REV.	DATE	DESCRIPTION	DR. CHK.	APP.
	1991	STATION SITE = 143 ACRES		

DWG. NO.	DESCRIPTION
	REFERENCE DRAWINGS

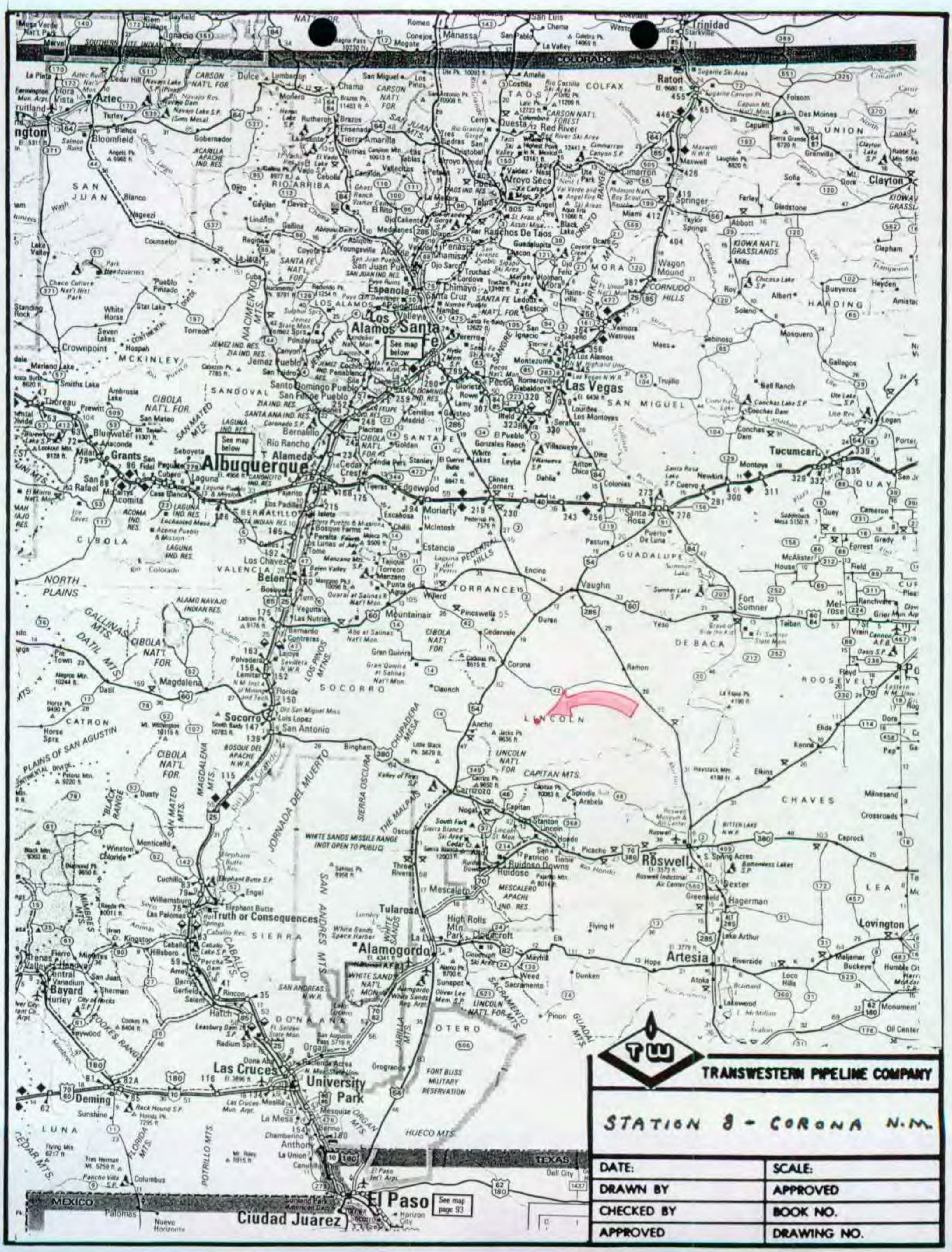
TRANSWESTERN PIPELINE COMPANY

GENERAL PLAN

COMPRESSOR STA. NO. 8

SCALE N. A.	DATE		
DRAWN EEC	1991	JOB NO.	DRAWING NO.
CHECKED			
APPROVED		WATER DISCHARGE PLAN	AB-8-PLAN
APPROVED ENG.			

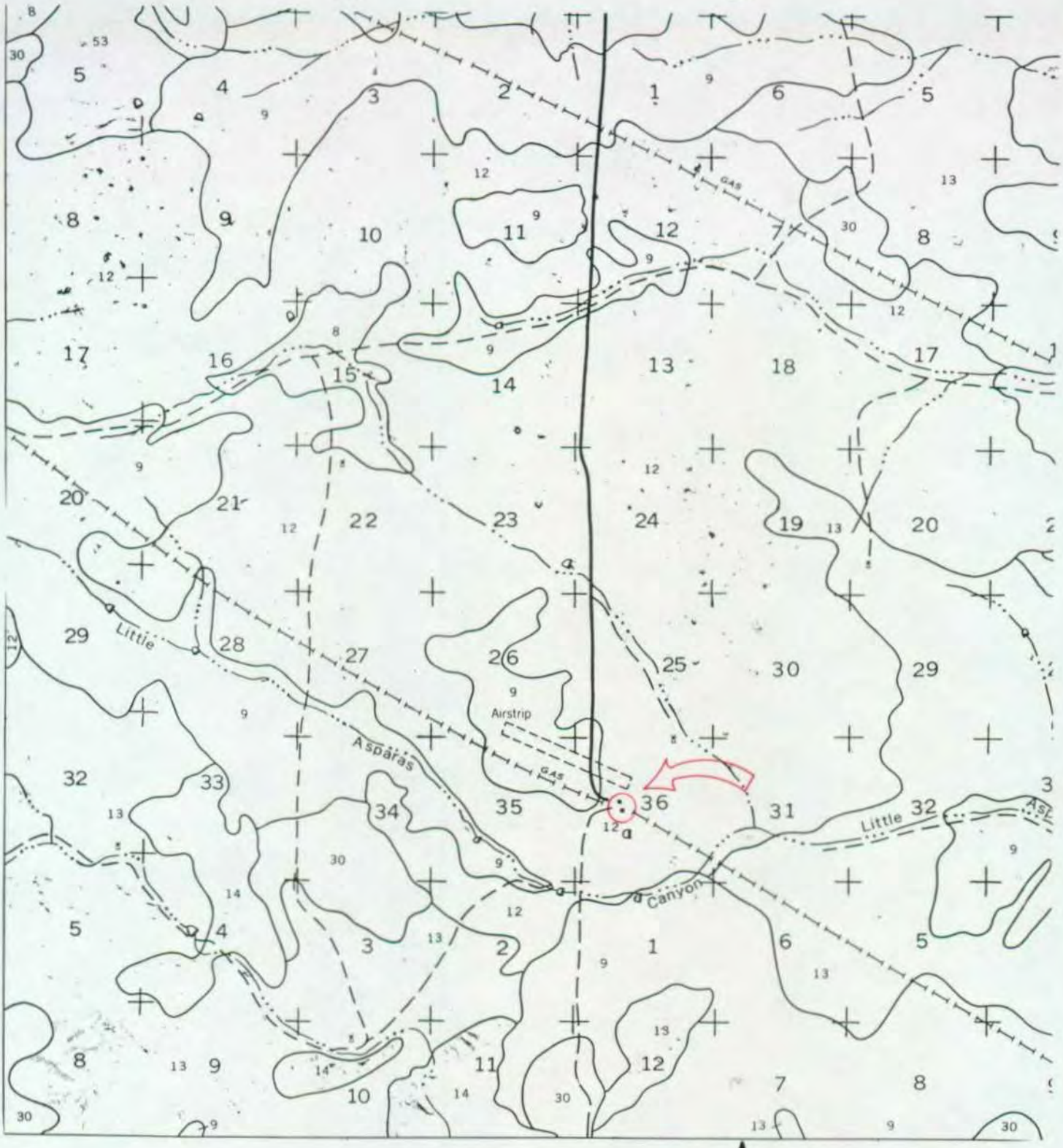
APPENDIX A



TRANSWESTERN PIPELINE COMPANY

STATION 8 - CORONA N.M.

DATE:	SCALE:
DRAWN BY	APPROVED
CHECKED BY	BOOK NO.
APPROVED	DRAWING NO.



TRANSWESTERN PIPELINE COMPANY

STATION 8

DATE:	SCALE:
DRAWN BY	APPROVED
CHECKED BY	BOOK NO.
APPROVED	DRAWING NO.

APPENDIX B

ENRECO
LABORATORIES GROUP
6661-A Canyon Drive ▪ Amarillo, Texas 79110 ▪ Telephone (806) 353-4425 ▪ Facsimile (806) 352-6454

ENRECO LABORATORIES GROUP
6661-A CANYON DRIVE
AMARILLO, TEXAS 79110

Attn: CUSTOMER SERVICES
Phone: (806) 353-4425

ENRON GAS OPERATING COMPANY
P. O. BOX 1249
BELEN, NM 87002

STATION 8

Attn: RODGER LALONDE
Invoice Number:

Order #: 90-11-183
Date: 12/15/90 14:18
Work ID: PIPELINE LIQUID - 500 BBL TNK
Date Received: 11/30/90
Date Completed: 12/13/90

***** SEND SECOND REPORT TO: ENRON GAS PIPELINE OP. CO.
P. O. BOX 2018
ROSWELL, NM 88201
ATTN: LARRY CAMPBELL

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	S90-0574 PPLN LIQ 500BBL		

ENRECO
LABORATORIES GROUP
6661-A Canyon Drive ▪ Amarillo, Texas 79110 ▪ Telephone (806) 353-4425 ▪ Facsimile (806) 352-6454

WE ARE PLEASED TO PROVIDE THIS CERTIFIED REPORT OF ANALYSIS
FEEL FREE TO TELEPHONE CUSTOMER SERVICES IF FURTHER ASSISTANCE
IS REQUIRED.

Certified By
MR. PATRICK MOON

ENRECO
LABORATORIES GROUP
6661-A Canyon Drive ▪ Amarillo, Texas 79110 ▪ Telephone (806) 353-4425 ▪ Facsimile (806) 352-6454

TEST RESULTS BY SAMPLE

Sample: 01A S90-0574 PPLN LIQ 500BBL Collected: 11/28/90

Test Description	Result	Limit	Units	Analyzed	By
IGNITABILITY/FLASH POINT	100	1	DEGREES F		
TCLP METAL ANALYSIS					
ARSENIC	2.99	0.02	MG/L	12/04/90	DMC
BARIUM	0.18	0.03	MG/L	12/04/90	DMC
CADMIUM	0.05	0.01	MG/L	12/04/90	DMC
CHROMIUM	<0.02	0.02	MG/L	12/04/90	DMC
LEAD	<0.04	0.04	MG/L	12/04/90	DMC
MERCURY	<0.003	0.003	MG/L	12/04/90	DMC
SELENIUM	<0.05	0.05	MG/L	12/04/90	DMC
SILVER	<0.02	0.02	MG/L	12/04/90	DMC
TCLP ORGANICS					
BENZENE	376.3	5	UG/L	12/06/90	WRW
CARBON TETRACHLORIDE	<5	5	UG/L	12/06/90	WRW
CHLORDANE	<30	30	UG/L	12/06/90	WRW
CHLOROBENZENE	<5	5	UG/L	12/06/90	WRW
CHLOROFORM	<5	5	UG/L	12/06/90	WRW
CREOSOL(O,M,P)	<10	10	UG/L	12/06/90	WRW
2,4-D	<100	100	UG/L	12/06/90	WRW
1,4-DICHLOROBENZENE	<5	5	UG/L	12/06/90	WRW
1,2-DICHLOROETHANE	<5	5	UG/L	12/06/90	WRW
1,1-DICHLOROETHYLENE	<5	5	UG/L	12/06/90	WRW
2,4-DINITROTOLUENE	<10	10	UG/L	12/06/90	WRW
ENDRIN	<10	10	UG/L	12/06/90	WRW
HEPTACHLOR	<8	8	UG/L	12/06/90	WRW
HEXACHLOROBENZENE	<10	10	UG/L	12/06/90	WRW
HEXACHLOROBUTADIENE	<10	10	UG/L	12/06/90	WRW
HEXACHLOROETHANE	<10	10	UG/L	12/06/90	WRW

ENRECO LABORATORIES GROUP
6661-A Canyon Drive ▪ Amarillo, Texas 79110 ▪ Telephone (806) 353-4425 ▪ Facsimile (806) 352-6454

Test Description	Result	Limit	Units	Analyzed	By
LINDANE	<10	10	UG/L	12/06/90	WRW
METHOXYCLOR	<100	100	UG/L	12/06/90	WRW
METHYL ETHYL KETONE	<50	50	UG/L	12/06/90	WRW
NITROBENZENE	<10	10	UG/L	12/06/90	WRW
PENTACHLOROPHENOL	<50	50	UG/L	12/06/90	WRW
PYRIDINE	<50	50	UG/L	12/06/90	WRW
TETRACHLOROETHYLENE	<5	5	UG/L	12/06/90	WRW
TOXAPHENE	<100	100	UG/L	12/06/90	WRW
TRICHLOROETHYLENE	<5	5	UG/L	12/06/90	WRW
2,4,5-TRICHLOROPHENOL	<10	10	UG/L	12/06/90	WRW
2,4,6-TRICHLOROPHENOL	<10	10	UG/L	12/06/90	WRW
2,4,5-TP(SILVEX)	<100	100	UG/L	12/06/90	WRW
VINYL CHLORIDE	<10	10	UG/L	12/06/90	WRW

Sample: 01B S90-0574 PPLN LIQ 500BBL Collected: 11/28/90

Test Description	Result	Limit	Units	Analyzed	By
PCB SERIES					
PCB-1016	<2	2	MG/L	11/28/90	AI
PCB-1221	<2	2	MG/L	11/28/90	AI
PCB-1232	<2	2	MG/L	11/28/90	AI
PCB-1242	<2	2	MG/L	11/28/90	AI
PCB-1248	<2	2	MG/L	11/28/90	AI
PCB-1254	<2	2	MG/L	11/28/90	AI
PCB-1260	<2	2	MG/L	11/28/90	AI
TOTAL ORGANIC HALOGENS	160	0.01	MG/L		

ENRECO
LABORATORIES GROUP
6661-A Canyon Drive ▪ Amarillo, Texas 79110 ▪ Telephone (806) 353-4425 ▪ Facsimile (806) 352-6454

TEST METHODOLOGIES

FP = 100°F @ PER PHONE CONVERSATION W/ P. MOON 11/22/91

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APPENDIX C

MATERIAL SAFETY DATA SHEET

DOW CHEMICAL U.S.A. MIDLAND, MICHIGAN 48674 EMERGENCY (517) • 636 • 4400

PRODUCT NAME: AMBITROL (R) FL 50 COOLANT

Effective Date: 06/08/90 Date Printed: 06/27/90 MSDS:000584

1. INGREDIENTS: (% w/w, unless otherwise noted)

Ethylene Glycol	CAS# 000107-21-1	47-55%
Diethylene Glycol	CAS# 000111-46-6	<3%
Water	CAS# 007732-18-5	<50%
Dipotassium phosphate	CAS# 007758-11-4	<5%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 229F, 109C
VAP. PRESS: Approx. 2.5 mmHg @ 20C
VAP. DENSITY: Not applicable
SOL. IN WATER: Completely miscible
SP. GRAVITY: 1.084 @ 60/60F, 16C
APPEARANCE: Red liquid.
ODOR: Information not available.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: None
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: Not applicable.
UFL: Not applicable.

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemical.

FIRE & EXPLOSION HAZARDS: After 50% of the initial volume has

(Continued on Page 2)

3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

evaporated, the residual solution will burn at temperatures above 290F when exposed to an ignition source.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Not considered to be a problem under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material

HAZARDOUS DECOMPOSITION PRODUCTS: After water has volatilized, burning will produce carbon monoxide, carbon dioxide, and water.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Small spills: Cover with absorbent material, soak up and sweep into drums for disposal. Large spills: Dike around spill and pump into suitable containers for disposal or reprocessing.

DISPOSAL METHOD: Burn in approved incinerator in accordance with local, state, and federal regulations.

(Continued on Page 3)

6. HEALTH HAZARD DATA:

EYE: Essentially nonirritating to eyes. Vapors or mists may irritate eyes.

SKIN CONTACT: Prolonged or repeated exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched or cut).

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The dermal LD50 has not been determined. Repeated skin exposure to large quantities may result in absorption of harmful amounts.

INGESTION: Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of larger amounts could cause serious injury, even death. The oral LD50 for rats is 8200 mg/kg. Single oral dose toxicity is expected to be moderate to humans even though tests with animals show a lower degree of toxicity.

INHALATION: At room temperature, exposures to vapors are minimal due to low vapor pressure. If heated or sprayed as an aerosol, concentrations may be attained that are sufficient to cause irritation and other effects.

SYSTEMIC & OTHER EFFECTS: Excessive exposure may cause irritation to upper respiratory tract. Observations in animals include formation of bladder stones after repeated oral doses of diethylene glycol. Observations in animals include kidney and liver effects and deposition of calcium salts in various tissues after long-term dietary intake of ethylene glycol. Based on data from long-term animal studies, diethylene glycol is not believed to pose a carcinogenic risk to man. Ethylene glycol did not cause

(Continued on Page 4)

6. HEALTH HAZARD DATA: (CONTINUED)

cancer in long-term animal studies. Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation (tested nose-only in animals to prevent ingestion) or skin contact, the primary routes of occupational exposure, had minimal or essentially no effect on the fetus. Birth defects are unlikely from exposure to diethylene glycol. Exposures having no adverse effects on the mother should have no effect on the fetus. Diethylene glycol has not interfered with reproduction in animal studies. In studies on rats, ethylene glycol has been shown not to interfere with reproduction. In studies on mice, ingestion of ethylene glycol in large amounts caused a small decrease in the number of litters/pair, live pups/litter, and in live pup weight. Results of in vitro (test tube) mutagenicity tests have been negative.

7. FIRST AID:

EYES: Irrigate immediately with water for at least 5 minutes.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything to an unconscious person.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: Consult standard literature. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. In the treatment of intoxication by ethylene glycol, the use of ethanol, hemodialysis and

(Continued on Page 5)

7. FIRST AID: (CONTINUED)

intravenous fluids to control acidosis should be considered. N. Eng. J. Med. 304:21 1981. If burn is present, treat as any thermal burn, after decontamination.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): ACGIH TLV is 50 ppm ceiling for ethylene glycol.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator.

SKIN PROTECTION: Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses. If vapor exposure causes eye discomfort, use a full-face respirator.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid skin and eye contact. Avoid ingestion. Avoid breathing vapors or mists.

Trace quantities of ethylene oxide (EO) may be present in this product. While these trace quantities could accumulate in headspace areas of storage and transport vessels, they are not

(Continued on Page 6)

9. ADDITIONAL INFORMATION: (CONTINUED)

expected to create a condition which will result in EO concentrations greater than 0.5 ppm (8 hour TWA) in the breathing zones of the workplace for appropriate applications. OSHA has established a permissible exposure limit of 1.0 ppm 8 hr TWA for EO. (Code of Federal Regulations Part 1910.1047 of Title 29)

MSDS STATUS: Revised section 9 and regsheet.

SARA 313 INFORMATION:
This product contains the following substances subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
ETHYLENE GLYCOL	000107-21-1	47 -55 %

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
ETHYLENE GLYCOL	000107-21-1	47 -55 %

APPENDIX D

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

INVOICE

ORD # 91-09-022
09/16/91 16:37:36 INVOICE # 911906

INVOICE TO: ENRON/TRANSWESTERN PIPELINE
P.O. BOX 1249
303 RIO COMMUNITIES BLVD
BELEN, NM 87002
ATTEN RODGER LALONDE

REMIT TO: Assaigai Analytical Labs
P.O. Box 90430
Albuquerque, NM 87199-0430
ATTEN ACCOUNTS RECEIVABLE
PHONE (505)345-8964

TERMS NET 30 DAYS

WORK ID STA.#8 OILY WASTEWATER 8135
P.O. #

ASSAIGAI LABORATORIES WISHES TO THANK YOU FOR YOUR CONTINUED BUSINESS.

REPORT TO: ENRON/TRANSWESTERN PIPELINE
P.O. BOX 1249
303 RIO COMMUNITIES BLVD
BELEN, NM 87002
ATTEN RODGER LALONDE

RECEIVED 09/04/91 CLIENT ENR12
REPORTED 09/16/91 PROJECT

ID	CODE	DESCRIPTION	REMARK	PRICE	QTY	DISCOUNT	AMOUNT
TESTS	111_TR	1,1,1-TRICHLOROETHANE		95.00	1		95.00
	TCLP_E	TCLP EXTRACTION		100.00	1		100.00
	TCLP_F	TCLP F SERIES ENRON LIST		350.00	1		350.00
	TCLP_Z	TCLP ZERO HEAD EXTRACTION		200.00	1		200.00
	XYLENE	XYLENE		65.00	1		65.00
					SUBTOTAL		$810.00
ADJUSTMENTS		Overall discount				20%	-162.00
		TAX					37.2
					TOTAL INVOICE AMOUNT		$685.26

COPY

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Attn: SYED RIZVI
Phone: (505)345-8964

ENRON/TRANSWESTERN PIPELINE
P.O. BOX 1249
303 RIO COMMUNITIES BLVD
BELEN, NM 87002
Attn: RODGER LALONDE
Invoice Number: 911906

Order #: 91-09-022
Date: 09/16/91 15:43
Work ID: STA.#8 OILY WASTEWATER 8135
Date Received: 09/04/91
Date Completed: 09/16/91

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	5115082891		

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
LABORATORY OPERATIONS MANAGER/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E.,ALBUQUERQUE,N.M. 87109

Syed Rizvi
Certified By
SYED N. RIZVI

TEST RESULTS BY SAMPLE

Sample: 01A 5115082891 **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
1,1,1-TRICHLOROETHANE	<0.1	0.1	MG/L	09/07/91	DD
TCLP F SERIES ENRON LIST					
METHYLENE CHLORIDE	<0.02	0.02	MG/L	09/10/91	SS
1,1,1-TRICHLOROETHANE	<0.02	0.02	MG/L	09/10/91	SS
TRICHLORO-TRIFLUOROETHANE	<0.02	0.02	MG/L	09/10/91	SS
ORTHO-DICHLOROBENZENE	<0.02	0.02	MG/L	09/10/91	SS
TRICHLOROFLUOROMETHANE	<0.02	0.02	MG/L	09/10/91	SS
XYLENE	<0.02	0.02	MG/L	09/10/91	SS
ACETONE	<10	10	MG/L	09/10/91	SS
ETHYL ACETATE	<10	10	MG/L	09/10/91	SS
ETHYL BENZENE	<0.02	0.02	MG/L	09/10/91	SS
ETHYL ETHER	<0.02	0.02	MG/L	09/10/91	SS
METHYL ISOBUTYL KETONE	<0.02	0.02	MG/L	09/10/91	SS
n-BUTYL ALCOHOL	<10	10	MG/L	09/10/91	SS
CYCLOHEXANONE	<0.02	0.02	MG/L	09/10/91	SS
METHANOL	<10	10	MG/L	09/10/91	SS
CRESYLIC ACID	<0.02	0.02	MG/L	09/10/91	SS
TOLUENE	<0.02	0.02	MG/L	09/10/91	SS
CARBON DISULFIDE	<0.02	0.02	MG/L	09/10/91	SS
ISOBUTANOL	<10	10	MG/L	09/10/91	SS
2-ETHOXYETHANOL	<10	10	MG/L	09/10/91	SS
2-NITROPROPANE	<0.02	0.02	MG/L	09/10/91	SS

Test Description	Result	Limit	Units	Analyzed	By
Surrogates					
4-BROMOFLUOROBENZENE	88	Min: 86 Max: 115			
1,2-DICHLOROETHANE-d4	89	Min: 76 Max: 114			
TOLUENE-d8	101	Min: 88 Max: 110			
XYLENE	<0.1	0.1	UG/L	09/07/91	DD

TEST METHODOLOGIES

TCLP EXTRACTION: USEPA METHOD # 1311

1,1,1-TRICHLOROETHANE: USEPA METHOD # 8010/601
THIS METHOD IS PERFORMED WITH GC SCAN.

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Belen Date: 8-28-91

Sample Location Valve or Receiver No.	Vol. Collect. During Flush	Sampler
Sta. #8 oily wastewater		J Headrick

Oil & water Composite

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
911508289/	—		TCLPF 1,1,1 - Trichloroethane TCLPF XYLENE

Relinquished By Michael A. Burks Date 8-30-91
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished By _____ Date _____

Laboratory: [illegible]
Received: [illegible] Date 8/30/91

ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER 8135

☐ HAZARDOUS ☐ NON-HAZARDOUS	DATE RECEIVED 8/30	ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED noon	DUE DATE 9/ 11

ACCOUNT INFORMATION

CUSTOMER'S NAME Transwestern	CONTACT
ADDRESS	PHONE NUMBER
CITY / STATE / ZIP	

PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE

NAME	CONTACT
ADDRESS	PHONE NUMBER
CITY / STATE / ZIP	

ACCOUNT STATUS

PAYMENT REC'D. XX
OPEN ACCOUNT
CASH
CHECK NUMBER

SPECIAL BILLING INSTRUCTIONS

SAMPLE INFORMATION

TYPE OF SAMPLE	NO. OF SAMPLES	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
☒ WATER ☐ SOIL ☒ OIL ☐ SLUDGE ☐ OTHER	1 / NO. OF CONTAINERS 1	☐ REGULAR (10 WKG DAYS) ☒ RUSH (3 DAYS) ☐ EMERGENCY (STAT) 50% *(SUBJECT TO WORK LOG)	Station #8 Oily Water 5115082891

SAMPLE DELIVERED BY SIGNATURE X Michael A. Becky DATE

ANALYSIS REQUEST

WORK DESCRIPTION TCLP, E, F, Z?, Xylenes, 1,1,1 - Trichloroethane

SPECIAL INSTRUCTIONS

BILLING: ☐ PICKUP ☐ MAIL LOGGED IN BY

7300 Jefferson NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

CUSTOMER

APPENDIX E

EARTH SCIENCE TECHNOLOGY

TEST CERTIFICATE

TANK OWNER	TRANSWESTERN PIPELINE COMPANY
CONTACT PERSON	ROGER LALONDE
ADDRESS	P.O. BOX 1249
CITY, STATE	BELEN, NEW MEXICO 87002
TELEPHONE	1-505-864-7461
TANK ADDRESS	
CITY, STATE	CORONA, NEW MEXICO
TEST METHOD	HORNER EZY-CHEK
TEST DATE	03-12-91

TANK	CAPACITY	PRODUCT	HIGH TEST	LOW TEST
#7	1,000 GAL.	DIESEL	+.0031	N/A
#8	2,000 GAL.	NO LEAD	-.0078	N/A

REMARKS THE ABOVE TANKS PASSED THE FULL SYSTEMS TEST. THE PRODUCT LINES TESTED TIGHT. THE ABOVE TANKS MEET ALL OF STATE, LOCAL, AND FEDERAL REGULATIONS.

APPROVAL JOHN McCONEGHEY SIGNATURE John m: McConeghey

HORNER EZY-CHEK

120 MADIERA DR. N.E. SUITE 115 ALBUQUERQUE, NM 87108 505-260-2323

APPENDIX F

KRAMER & ASSOCIATES, INC.
4501 BOGAN NE SUITE A-1
ALBUQUERQUE, NM 87109
505-881-0243

****
* MICROBIOLOGICAL *
* WATER ANALYSIS REPORT *
* *
****

WATER SUPPLY NAME: ENRON
ADDRESS: P.O. BOX 710
CAPITAN, NM
PHONE #: 849-1242
WSS # _____

TYPE SAMPLE
[X] ROUTINE SAMPLE
[ ] CHECK SAMPLE
[ ] CONFIRMATION

SAMPLE COLLECTION

DATE/TIME 10-10-91 0800
LOCATION CORONA STA 8
SAMPLED BY JH
SAMPLE PRESERVATION ICE

SAMPLE ANALYSIS

DATE/TIME 10/10/91 1600
METHOD MF ANALYST WTR
RESULTS PER 100 ML:
TOTAL COLIFORM: PRESENT ___ ABSENT XX
FECAL COLIFORM: PRESENT __ ABSENT XX

COMMENTS:

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

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

July 8, 1991

Mr. James C. Alexander
ENRON Gas Pipeline Group
P. O. Box 1188
Houston, Texas 77251-1188

RE: Approval of Water Disposal
Corona Compressor Station
~~Torrance~~ Lincoln County, New Mexico

Dear Mr. Alexander:

This letter confirms the telephone conversation on July 3, 1991 between Ms. Joann Hilton of Daniel B. Stephens & Associates, and Ms. Kathy Brown of the New Mexico Oil Conservation Division (OCD). Ms. Hilton requested the disposal of approximately 4-55 gallon drums of water purged from the three monitor wells at the ENRON Corona Compressor Station.

Based on the complete water analysis provided by Daniel B. Stephens & Associates, the OCD approves the request to dispose of 4 drums of water from the monitor wells at the ENRON Corona Compressor Station. The water will be spread in a sheet-like manner over the ground surface and will not leave ENRON's property or enter a waterway of the United States.

If you have any questions, please contact me at (505) 827-5824.

Sincerely,

Kathy M. Brown

Kathy M. Brown
Environmental Geologist

XC: OCD Santa Fe District Office
Ernie Rebuck, Groundwater Bureau, NMED

DANIEL B. STEPHENS & ASSOCIATES, INC.
Environmental Scientists and Engineers
6020 Academy NE, Suite 100
Albuquerque, NM 87109
Telephone: (505) 822-9400
FAX NO.: (505) 822-8877

Date: 7-3-91 **Project No.** 89-030

To: Kathy Brown OCD

FAX #: 1-827-5741

From: Daniel B. Stephens & Associates

Joanne Hilton
(Individual)

Total Pages Including this Page: 3

REMARKS: Kathy - Here is a summary of the analytical results of the Corona purge water. No constituents were present in amounts greater than NMWQCC standards. Unless we hear otherwise from you we will dump this water. Thanks for your assistance.

SUMMARY OF ANALYTICAL RESULTS
ENRON CORONA MONITOR WELLS

WELL	DATE	PCB-1242 (ppb)	Benzene (ppb)	Toulene (ppb)	Ethyl-benzene (ppb)	Xylene (ppb)
8-1 RMAL	06/89	ND$_3$	ND$_2$	ND$_2$	ND$_2$	NS
ASSAIGAI	09/90	ND$_1$	ND$_1$	ND$_1$	ND$_1$	ND$_1$
	11/90	ND	ND	ND	ND	ND
	01/91	ND	ND	ND	ND	2.2
	02/91	ND	ND	0.63	ND	ND
	03/91	ND	2.2	ND	ND	ND
8-2 RMAL	06/89	ND$_3$	ND$_2$	ND$_2$	ND$_2$	NS
	11/90	ND	ND	ND	ND	ND
	01/91	ND	ND	ND	ND	ND
	02/91	ND	ND	0.58	ND	ND
	03/91	ND	ND	ND	ND	ND
8-3 RMAL	06/89	ND$_3$	ND$_2$	ND$_2$	ND$_2$	NS
ASSAIGAI	09/90	ND$_1$	ND$_1$	1.5$_1$	ND$_1$	ND$_1$
	11/90	ND	ND	0.6	ND	ND
	01/91	ND	ND	ND	ND	ND
	02/91	ND	ND	ND	ND	ND
	03/91	ND	ND	ND	ND	ND

SUMMARY OF ANALYTICAL RESULTS
ENRON CORONA MONITOR WELLS

Unless noted all chemistry was analyzed at ENSECO's Houston Laboratory.

NS = Not sampled for this contaminant.
ND = Not detected at or above the reporting limit. Standard reporting limit from ENSECO's Houston Laboratory:
PCB = 1.0 (ppb) Benzene = 0.50 (ppb)
Toluene = 0.50 (ppb) Ethylbenzene = 0.50 (ppb)
Xylene = 0.50 (ppb)

1 Reporting Limit = 1.0
2 " " = 5.0
3 " " = 0.5

DANIEL B. STEPHENS & ASSOCIATES, INC.
Environmental Scientists and Engineers
6020 Academy NE, Suite 100
Albuquerque, NM 87109
Telephone: (505) 822-9400
FAX NO.: (505) 822-8877

Date: 7-3-91 **Project No.** 89-030-C

To: Kathy Brown

FAX #: 1-827-5741

From: Daniel B. Stephens & Associates

Joanne Hilton
(Individual)

Total Pages Including this Page: 16

REMARKS: These are the complete analytical results for the Corona monitor wells. The conductivity was approximately 2000-2500 umhos/cm. There are 4-55 gallon drums at the site. Please let me know if you need anymore info.

TRANSWESTERN WATER QUALITY DATABASE

SITE: STATION #8, CORONA
WELL NO: 8-1

DATE SAMPLED: 06/12/89
LABORATORY NAME: RMAL
COMMENTS:

VOLATILE ORGANICS

COMPOUND (ug/l)	06/12/89
CHLOROMETHANE	ND<10
BROMOMETHANE	ND<10
VINYL CHLORIDE	ND<10
CHLOROETHANE	ND<10
METHYLENE CHLORIDE	ND<5
1,1-DICHLOROETHENE	ND<5
1,1-DICHLOROETHANE	ND<5
1,2-DICHLOROETHENE (CIS/TRANS)	ND<5
CHLOROFORM	ND<5
1,2-DICHLOROETHANE	ND<5
1,1,1-TRICHLOROETHANE	ND<5
CARBON TETRACHLORIDE	ND<5
BROMODICHLOROMETHANE	ND<5
1,2-DICHLOROPROPANE	ND<5
TRAN-1,3-DICHLOROPROPENE	ND<5
TRICHLOROETHENE	ND<5
CHLORODIBROMOMETHANE	ND<5
1,1,2-TRICHLOROETHANE	ND<5
BENZENE	ND<5
cis-1,3-DICHLOROPROPENE	ND<5
2-CHLOROETHYLVINYLETHER	ND<10
BROMOFORM	ND<5
1,1,2,2-TETRACHLOROETHANE	ND<5
TETRACHLOROETHENE	ND<5
TOLUENE	ND<5
CHLOROBENZENE	ND<5
ETHYLBENZENE	ND<5

WELL#: 8-1

SEMIVOLATILE ORGANICS (METHOD 625)

COMPOUND (ug/l)	06/12/89
PHENOL	ND<20
BIS(2-CHLOROETHYL)ETHER	ND<20
2-CHLOROPHENOL	ND<20
1,3-DICHLOROBENZENE	ND<20
1,4-DICHLOROBENZENE	ND<20
1,2-DICHLOROBENZENE	ND<20
BIS(2-CHLOROISOPROPYL) ETHER	ND<20
N-NITROSO-DI-N-PROPYLAMINE	ND<20
HEXACHLOROETHANE	ND<20
NITROBENZENE	ND<20
ISOPHORONE	ND<20
2-NITROPHENOL	ND<20
2,4-DIMETHYLPHENOL	ND<20
BIS(2-CHLOROETHOXY) METHANE	ND<20
2,4-DICHLOROPHENOL	ND<20
1,2,4-TRICHLOROBENZENE	ND<20
NAPHTHALENE	ND<20
HEXACHLOROBUTADIENE	ND<20
4-CHLORO-3-METHYLPHENOL	ND<20
HEXACHLOROCYCLOPENTADIENE	ND<20
2,4,6-TRICHLOROPHENOL	ND<20
2-CHLORONAPHTHALENE	ND<20
DIMETHYL PHTHALATE	ND<20
ACENAPHTHYLENE	ND<20
ACENAPHTHENE	ND<20
2,4-DINITROPHENOL	ND<100
4-NITROPHENOL	ND<100
2,4-DINITROTOLUENE	ND<20
2,6-DINITROTOLUENE	ND<20
DIETHYL PHTHALATE	ND<20
4-CHLOROPHENYL PHENYL ETHER	ND<20
FLUORENE	ND<20
4,6-DINITRO-2-METHYLPHENOL	ND<100
1,2-DIPHENYLHYDRAZINE	ND<20
N-NITROSODIPHENYLAMINE	ND<20

WELL#: 8-1

SEMIVOLATILE ORGANICS (METHOD 625)

COMPOUND (ug/l)	06/12/89
4-BROMOPHENYL PHENYL ETHER	ND<20
HEXACHLOROBENZENE	ND<20
PENTACHLOROPHENOL	ND<100
PHENANTHRENE	ND<20
ANTHRACENE	ND<20
DI-N-BUTYL PHTHALATE	ND<20
FLUORANTHENE	ND<20
PYRENE	ND<20
BUTYL BENZYL PHTHALATE	ND<20
3,3'-DICHLOROBENZIDINE	ND<40
BENZO(a)ANTHRACENE	ND<20
BIS(2-ETHYLHEXYL) PHTHALATE	ND<20
CHRYSENE	ND<20
DI-N-OCTYL PHTHALATE	ND<20
BENZO(b)FLUORANTHENE	ND<20
BENZO(k)FLUORANTHENE	ND<20
BENZO(a)PYRENE	ND<20
INDENO(1,2,3-cd)PYRENE	ND<20
DIBENZ(a,h)ANTHRACENE	ND<20
BENZO(g,h,i)PERYLENE	ND<20

ORGANOCHLORINE PESTICIDES/PCBs (METHOD 608)

COMPOUND (ug/l)	06/12/89
ALPHA-BHC	ND<.05
BETA-BHC	ND<.05
DELTA-BHC	ND<.05
GAMMA-BHC	ND<.05
HEPTACHLOR	ND<.05
ALDRIN	ND<.05
HEPTECHLOR EPOXIDE	ND<.05
ENDOSULFAN I	ND<.05
DIELDRIN	ND<.1
4,4'-DDE	ND<.1
ENDRIN	ND<.1
ENDOSULFAN II	ND<.1

WELL#: 8-1

ORGANOCHLORINE PESTICIDES/PCBs (METHOD 608)

COMPOUND (ug/l)	06/12/89
4,4'-DDD	ND<.1
ENDOSULFAN SULFATE	ND<.1
4,4'-DDT	ND<.1
ENDRIN ALDEHYDE	ND<.1
ALPHA-CHLORDANE	ND<.5
GAMMA-CHLORDANE	ND<.5
TOXAPHENE	ND<1
AROCLOR-1016	ND<.5
AROCLOR-1221	ND<.5
AROCLOR-1232	ND<.5
AROCLOR-1242	ND<.5
AROCLOR-1248	ND<.5
AROCLOR-1254	ND<1
AROCLOR-1260	ND<1

DISSOLVED METALS

COMPOUND (mg/l)	06/12/89
ANTIMONY	ND<.05
ARSENIC	ND<.005
BARIUM	ND<.01
BERYLLIUM	ND<.002
BORON	0.15
CADMIUM	ND<.005
CALCIUM	451
CHROMIUM	ND<.01
COPPER	ND<.01
IRON	ND<.1
LEAD	ND<.01
MAGNESIUM	94
MANGANESE	0.02
MERCURY	ND<.0002
MOLYBDENUM	ND<.02
NICKEL	ND<.04
POTASSIUM	ND<5
SELENIUM	ND<.03
SILICA AS SiO2	23

WELL#: 8-1

DISSOLVED METALS

COMPOUND (mg/l)	06/12/89
SILVER	ND<.01
SODIUM	23
STRONTIUM	6
THALLIUM	ND<.01
ZINC	1.1

GENERAL INORGANICS

COMPOUND (mg/l)	06/12/89
ALKALINITY, TOTAL AS CaCO3 AT pH 4.5	77
ALKALINITY, BICARB. AS CaCO3 AT pH 4.5	77
ALKALINITY, CAB. AS CaCO3 AT pH 8.3	ND<5
ALKALINITY, HYDROX. AS CaCO3	ND<5
CHLORIDE	9
FLUORIDE	1.2
NITRATE AS N	4.4
pH	7.5
SULFATE	1600
TOTAL DISSOLVED SOLIDS	2400

ND = Compound was analyzed for but not detected, number reporting limit.
* = Tentatively identified compounds. Approximate conce

TRANSWESTERN WATER QUALITY DATABASE

SITE: STATION #8, CORONA
WELL NO: 8-2

DATE SAMPLED:	06/13/89	06/13/89
LABORATORY NAME:	RMAL	RMAL
COMMENTS:		DUPLICATE

VOLATILE ORGANICS

COMPOUND (ug/l)		
CHLOROMETHANE	ND<10	ND<10
BROMOMETHANE	ND<10	ND<10
VINYL CHLORIDE	ND<10	ND<10
CHLOROETHANE	ND<10	ND<10
METHYLENE CHLORIDE	ND<5	ND<5
1,1-DICHLOROETHENE	ND<5	ND<5
1,1-DICHLOROETHANE	ND<5	ND<5
1,2-DICHLOROETHENE (CIS/TRANS)	ND<5	ND<5
CHLOROFORM	ND<5	ND<5
1,2-DICHLOROETHANE	ND<5	ND<5
1,1,1-TRICHLOROETHANE	ND<5	ND<5
CARBON TETRACHLORIDE	ND<5	ND<5
BROMODICHLOROMETHANE	ND<5	ND<5
1,2-DICHLOROPROPANE	ND<5	ND<5
TRAN-1,3-DICHLOROPROPENE	ND<5	ND<5
TRICHLOROETHENE	ND<5	ND<5
CHLORODIBROMOMETHANE	ND<5	ND<5
1,1,2-TRICHLOROETHANE	ND<5	ND<5
BENZENE	ND<5	ND<5
cis-1,3-DICHLOROPROPENE	ND<5	ND<5
2-CHLOROETHYLVINYLETHER	ND<10	ND<10
BROMOFORM	ND<5	ND<5
1,1,2,2-TETRACHLOROETHANE	ND<5	ND<5
TETRACHLOROETHENE	ND<5	ND<5
TOLUENE	ND<5	ND<5
CHLOROBENZENE	ND<5	ND<5
ETHYLBENZENE	ND<5	ND<5
TOLUENE-d8	102%	104%
4-BROMOFLUOROBENZENE	100%	101%
1,2-DICHLOROETHANE-d4	118%	119%

WELL#: 8-2

SEMIVOLATILE ORGANICS (METHOD 625)

COMPOUND (ug/l)		
PHENOL	ND<40	ND<40
BIS(2-CHLOROETHYL)ETHER	ND<40	ND<40
2-CHLOROPHENOL	ND<40	ND<40
1,3-DICHLOROBENZENE	ND<40	ND<40
1,4-DICHLOROBENZENE	ND<40	ND<40
1,2-DICHLOROBENZENE	ND<40	ND<40
BIS(2-CHLOROISOPROPYL) ETHER	ND<40	ND<40
N-NITROSO-DI-N-PROPYLAMINE	ND<40	ND<40
HEXACHLOROETHANE	ND<40	ND<40
NITROBENZENE	ND<40	ND<40
ISOPHORONE	ND<40	ND<40
2-NITROPHENOL	ND<40	ND<40
2,4-DIMETHYLPHENOL	ND<40	ND<40
BIS(2-CHLOROETHOXY) METHANE	ND<40	ND<40
2,4-DICHLOROPHENOL	ND<40	ND<40
1,2,4-TRICHLOROBENZENE	ND<40	ND<40
NAPHTHALENE	ND<40	ND<40
HEXACHLOROBUTADIENE	ND<40	ND<40
4-CHLORO-3-METHYLPHENOL	ND<40	ND<40
HEXACHLOROCYCLOPENTADIENE	ND<40	ND<40
2,4,6-TRICHLOROPHENOL	ND<40	ND<40
2-CHLORONAPHTHALENE	ND<40	ND<40
DIMETHYL PHTHALATE	ND<40	ND<40
ACENAPHTHYLENE	ND<40	ND<40
ACENAPHTHENE	ND<40	ND<40
2,4-DINITROPHENOL	ND<200	ND<200
4-NITROPHENOL	ND<200	ND<200
2,4-DINITROTOLUENE	ND<40	ND<40
2,6-DINITROTOLUENE	ND<40	ND<40
DIETHYL PHTHALATE	ND<40	ND<40
4-CHLOROPHENYL PHENYL ETHER	ND<40	ND<40
FLUORENE	ND<40	ND<40
4,6-DINITRO-2-METHYLPHENOL	ND<200	ND<200
1,2-DIPHENYLHYDRAZINE	ND<40	ND<40
N-NITROSODIPHENYLAMINE	ND<40	ND<40

WELL#: 8-2

SEMIVOLATILE ORGANICS (METHOD 625)

COMPOUND (ug/l)		
4-BROMOPHENYL PHENYL ETHER	ND<40	ND<40
HEXACHLOROBENZENE	ND<40	ND<40
PENTACHLOROPHENOL	ND<200	ND<200
PHENANTHRENE	ND<40	ND<40
ANTHRACENE	ND<40	ND<40
DI-N-BUTYL PHTHALATE	ND<40	ND<40
FLUORANTHENE	ND<40	ND<40
PYRENE	ND<40	ND<40
BUTYL BENZYL PHTHALATE	ND<40	ND<40
3,3'-DICHLOROBENZIDINE	ND<80	ND<80
BENZO(a)ANTHRACENE	ND<40	ND<40
BIS(2-ETHYLHEXYL) PHTHALATE	ND<40	ND<40
CHRYSENE	ND<40	ND<40
DI-N-OCTYL PHTHALATE	ND<40	ND<40
BENZO(b)FLUORANTHENE	ND<40	ND<40
BENZO(k)FLUORANTHENE	ND<40	ND<40
BENZO(a)PYRENE	ND<40	ND<40
INDENO(1,2,3-cd)PYRENE	ND<40	ND<40
DIBENZ(a,h)ANTHRACENE	ND<40	ND<40
BENZO(g,h,i)PERYLENE	ND<40	ND<40
NITROBENZENE-d5	85.2%	74.8%
2-FLUOROBIPHENYL	81.6%	78.0%
TERPHENYL-d14	95.6%	88.0%
PHENOL-d5	82.4%	74.0%
2-FLUOROPHENOL	74.4%	70.0%
2,4,6-TRIBROMOPHENOL	84.0%	70.0%

ORGANOCHLORINE PESTICIDES/PCBs (METHOD 608)

COMPOUND (ug/l)		
ALPHA-BHC	ND<.05	ND<.05
BETA-BHC	ND<.05	ND<.05
DELTA-BHC	ND<.05	ND<.05
GAMMA-BHC	ND<.05	ND<.05
HEPTACHLOR	ND<.05	ND<.05

WELL#:8-2

ORGANOCHLORINE PESTICIDES/PCBs (METHOD 608)

COMPOUND (ug/l)		
ALDRIN	ND<.05	ND<.05
HEPTECHLOR EPOXIDE	ND<.05	ND<.05
ENDOSULFAN I	ND<.05	ND<.05
DIELDRIN	ND<.1	ND<.1
4,4'-DDE	ND<.1	ND<.1
ENDRIN	ND<.1	ND<.1
ENDOSULFAN II	ND<.1	ND<.1
4,4'-DDD	ND<.1	ND<.1
ENDOSULFAN SULFATE	ND<.1	ND<.1
4,4'-DDT	ND<.1	ND<.1
ENDRIN ALDEHYDE	ND<.1	ND<.1
ALPHA-CHLORDANE	ND<.5	ND<.5
GAMMA-CHLORDANE	ND<.5	ND<.5
TOXAPHENE	ND<1	ND<1
AROCLOR-1016	ND<.5	ND<.5
AROCLOR-1221	ND<.5	ND<.5
AROCLOR-1232	ND<.5	ND<.5
AROCLOR-1242	ND<.5	ND<.5
AROCLOR-1248	ND<.5	ND<.5
AROCLOR-1254	ND<1	ND<1
AROCLOR-1260	ND<1	ND<1
DIBUTYLCHLORENDATE	97.6%	98.5%

DISSOLVED METALS

COMPOUND (mg/l)		
ANTIMONY	ND<.05	ND<.05
ARSENIC	ND<.005	ND<.005
BARIUM	0.02	0.02
BERYLLIUM	ND<.001	ND<.001
BORON	0.16	0.17
CADMIUM	ND<.005	ND<.005
CALCIUM	498	511
CHROMIUM	ND<.01	ND<.01
COPPER	ND<.01	ND<.01
IRON	ND<.1	ND<.1
LEAD	ND<.005	ND<.005
MAGNESIUM	96	98

WELL#: 8-2

DISSOLVED METALS

COMPOUND (mg/l)		
MANGANESE	0.01	ND<.01
MERCURY	ND<.0002	ND<.0002
MOLYBDENUM	ND<.02	ND<.02
NICKEL	ND<.04	ND<.04
POTASSIUM	ND<5	ND<5
SELENIUM	ND<.05	ND<.05
SILICA AS SiO2	26	26
SILVER	ND<.01	ND<.01
SODIUM	26	25
STRONTIUM	6.6	6.8
THALLIUM	ND<.01	ND<.01
ZINC	0.89	0.92

GENERAL INORGANICS

COMPOUND (mg/l)		
ALKALINITY, BICARB. AS CaCO3 AT pH 4.5	71	71
ALKALINITY, CAB. AS CaCO3 AT pH 8.3	ND<5	ND<5
CHLORIDE	13	13
FLUORIDE	1.2	1.2
NITRATE AS N	4.7	4.6
pH	7.5	7.5
SULFATE	1580	1590
TOTAL DISSOLVED SOLIDS	2400	2400

ND = Compound was analyzed for but not detected, number reporting limit.
* = Tentatively identified compounds. Approximate conce

TRANSWESTERN WATER QUALITY DATABASE

SITE: STATION #8, CORONA
WELL NO: 8-3

DATE SAMPLED: 06/15/89
LABORATORY NAME: RMAL
COMMENTS:

VOLATILE ORGANICS

COMPOUND (ug/l)	
CHLOROMETHANE	ND<10
BROMOMETHANE	ND<10
VINYL CHLORIDE	ND<10
CHLOROETHANE	ND<10
METHYLENE CHLORIDE	ND<5
1,1-DICHLOROETHENE	ND<5
1,1-DICHLOROETHANE	ND<5
1,2-DICHLOROETHENE (CIS/TRANS)	ND<5
CHLOROFORM	ND<5
1,2-DICHLOROETHANE	ND<5
1,1,1-TRICHLOROETHANE	ND<5
CARBON TETRACHLORIDE	ND<5
BROMODICHLOROMETHANE	ND<5
1,2-DICHLOROPROPANE	ND<5
TRAN-1,3-DICHLOROPROPENE	ND<5
TRICHLOROETHENE	ND<5
CHLORODIBROMOMETHANE	ND<5
1,1,2-TRICHLOROETHANE	ND<5
BENZENE	ND<5
cis-1,3-DICHLOROPROPENE	ND<5
2-CHLOROETHYLVINYLETHER	ND<10
BROMOFORM	ND<5
1,1,2,2-TETRACHLOROETHANE	ND<5
TETRACHLOROETHENE	ND<5
TOLUENE	ND<5
CHLOROBENZENE	ND<5
ETHYLBENZENE	ND<5
TOLUENE-d8	104%
4-BROMOFLUOROBENZENE	94.4%
1,2-DICHLOROETHANE-d4	94.3%

WELL#: 8-3

SEMIVOLATILE ORGANICS (METHOD 625)

COMPOUND (ug/l)	
PHENOL	ND<50
BIS(2-CHLOROETHYL)ETHER	ND<50
2-CHLOROPHENOL	ND<50
1,3-DICHLOROBENZENE	ND<50
1,4-DICHLOROBENZENE	ND<50
1,2-DICHLOROBENZENE	ND<50
BIS(2-CHLOROISOPROPYL) ETHER	ND<50
N-NITROSO-DI-N-PROPYLAMINE	ND<50
HEXACHLOROETHANE	ND<50
NITROBENZENE	ND<50
ISOPHORONE	ND<50
2-NITROPHENOL	ND<50
2,4-DIMETHYLPHENOL	ND<50
BIS(2-CHLOROETHOXY) METHANE	ND<50
2,4-DICHLOROPHENOL	ND<50
1,2,4-TRICHLOROBENZENE	ND<50
NAPHTHALENE	ND<50
HEXACHLOROBUTADIENE	ND<50
4-CHLORO-3-METHYLPHENOL	ND<50
HEXACHLOROCYCLOPENTADIENE	ND<50
2,4,6-TRICHLOROPHENOL	ND<50
2-CHLORONAPHTHALENE	ND<50
DIMETHYL PHTHALATE	ND<50
ACENAPHTHYLENE	ND<50
ACENAPHTHENE	ND<50
2,4-DINITROPHENOL	ND<250
4-NITROPHENOL	ND<250
2,4-DINITROTOLUENE	ND<50
2,6-DINITROTOLUENE	ND<50
DIETHYL PHTHALATE	ND<50
4-CHLOROPHENYL PHENYL ETHER	ND<50
FLUORENE	ND<50
4,6-DINITRO-2-METHYLPHENOL	ND<250
1,2-DIPHENYLHYDRAZINE	ND<50
N-NITROSODIPHENYLAMINE	ND<50

WELL#: 8-3

SEMIVOLATILE ORGANICS (METHOD 625)

COMPOUND (ug/l)	
4-BROMOPHENYL PHENYL ETHER	ND<50
HEXACHLOROBENZENE	ND<50
PENTACHLOROPHENOL	ND<250
PHENANTHRENE	ND<50
ANTHRACENE	ND<50
DI-N-BUTYL PHTHALATE	ND<50
FLUORANTHENE	ND<50
PYRENE	ND<50
BUTYL BENZYL PHTHALATE	ND<50
3,3'-DICHLOROBENZIDINE	ND<100
BENZO(a)ANTHRACENE	ND<50
BIS(2-ETHYLHEXYL) PHTHALATE	ND<50
CHRYSENE	ND<50
DI-N-OCTYL PHTHALATE	ND<50
BENZO(b)FLUORANTHENE	ND<50
BENZO(k)FLUORANTHENE	ND<50
BENZO(a)PYRENE	ND<50
INDENO(1,2,3-cd)PYRENE	ND<50
DIBENZ(a,h)ANTHRACENE	ND<50
BENZO(g,h,i)PERYLENE	ND<50
NITROBENZENE-d5	133%
2-FLUOROBIPHENYL	141%
TERPHENYL-d14	136%
PHENOL-d5	112%
2-FLUOROPHENOL	100%
2,4,6-TRIBROMOPHENOL	106%

ORGANOCHLORINE PESTICIDES/PCBs (METHOD 608)

COMPOUND (ug/l)	
ALPHA-BHC	ND<.05
BETA-BHC	ND<.05
DELTA-BHC	ND<.05
GAMMA-BHC	ND<.05
HEPTACHLOR	ND<.05

WELL#: 8-3

ORGANOCHLORINE PESTICIDES/PCBs (METHOD 608)

COMPOUND (ug/l)	
ALDRIN	ND<.05
HEPTECHLOR EPOXIDE	ND<.05
ENDOSULFAN I	ND<.05
DIELDRIN	ND<.1
4,4'-DDE	ND<.1
ENDRIN	ND<.1
ENDOSULFAN II	ND<.1
4,4'-DDD	ND<.1
ENDOSULFAN SULFATE	ND<.1
4,4'-DDT	ND<.1
ENDRIN ALDEHYDE	ND<.1
ALPHA-CHLORDANE	ND<.5
GAMMA-CHLORDANE	ND<.5
TOXAPHENE	ND<1
AROCLOR-1016	ND<.5
AROCLOR-1221	ND<.5
AROCLOR-1232	ND<.5
AROCLOR-1242	ND<.5
AROCLOR-1248	ND<.5
AROCLOR-1254	ND<1
AROCLOR-1260	ND<1
DIBUTYLCHLORENDATE	90.0%

DISSOLVED METALS

COMPOUND (mg/l)	
ANTIMONY	ND<.05
ARSENIC	ND<.005
BARIUM	0.04
BERYLLIUM	ND<.002
BORON	0.14
CADMIUM	ND<.005
CALCIUM	496
CHROMIUM	ND<.01
COPPER	ND<.01
IRON	ND<.1
LEAD	ND<.005

WELL#: 8-3

DISSOLVED METALS

COMPOUND (mg/l)	
MAGNESIUM	88
MANGANESE	0.39
MERCURY	ND<.0002
MOLYBDENUM	ND<.02
NICKEL	ND<.04
POTASSIUM	ND<5
SELENIUM	ND<.005
SILICA AS SiO2	21
SILVER	ND<.01
SODIUM	23
STRONTIUM	6.4
THALLIUM	ND<.005
ZINC	11

GENERAL INORGANICS

COMPOUND (mg/l)	
ALKALINITY, BICARB. AS CaCO3 AT pH 4.5	82
ALKALINITY, CAB. AS CaCO3 AT pH 8.3	ND<5
CHLORIDE	12
FLUORIDE	1.2
NITRATE AS N	3.9
pH	7.4
SULFATE	1630
TOTAL DISSOLVED SOLIDS	2530

ND = Compound was analyzed for but not detected, number reporting limit.
* = Tentatively identified compounds. Approximate conce

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

July 3, 1991

BRUCE KING
GOVERNOR

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-327-278-248

Mr. James C. Alexander
ENRON Gas Pipeline Group
P. O. Box 1188
Houston, Texas 77251-1188

RE: Closure of Monitor Wells, Corona Compressor Station
~~Torrance~~ Lincoln County, New Mexico

Dear Mr. Alexander:

The New Mexico Oil Conservation Division (OCD) has completed a review of ENRON's June 23, 1991 correspondence and accompanying enclosures requesting OCD permission for closure of monitor wells which were installed under the terms of a United States Environmental Protection Agency Consent Decree.

The OCD approves the request to close monitor wells 8-1, 8-2 and 8-3, at the ENRON Corona Compressor Station using the May 3, 1991 well decommissioning procedures proposed by Daniel B. Stephens and Associates, Inc.

Please contact the OCD at least one week prior to closure so that the OCD may be given the opportunity to witness the well decommissioning activities.

Please submit to the OCD a completion report within two weeks of closure of the wells. Include a log of the operations, cement specification and depth intervals and any other appropriate information.

If you have any questions, please contact me at (505) 827-5824.

Sincerely,

Kathy M. Brown

Kathy M. Brown
Environmental Geologist

KMB/sl

cc: OCD Santa Fe District Office
Ernie Rebuck, Groundwater Bureau, NMED

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

June 26, 1991

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

CERTIFIED MAIL -
RETURN RECEIPT NO. P-327-278-128

Mr. Larry Campbell
Transwestern Pipeline Company
P. O. Box 1717
Roswell, New Mexico 88202-1717

RE: Soils Landfarm
Compressor Station 8
Lincoln County, New Mexico

Dear Mr. Campbell:

The Oil Conservation Division (OCD) has received your request, dated June 21, 1991, for authorization to landfarm approximately 5 cubic yards of nonhazardous hydrocarbon contaminated soils at Compressor station 8 located in the SE/4 NW/4, Section 36, Township 4 South, Range 15 East, NMPM, Lincoln County, New Mexico.

Based on the information provided in your request and the analytical results supplied on June 26, 1991, your request for a soil remediation landfarm at Compressor Station 8 is approved.

Please be advised that this approval does not relieve you of liability should your operation result in actual pollution of surface water, ground water or the environment actionable under other laws and/or regulations.

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

Sincerely,

Roger C. Anderson
Environmental Engineer

RCA/sl

cc: OCD Artesia Office

TRANSWESTERN PIPELINE COMPANY

Technical Services Office
P.O. Box 1717 * Roswell, New Mexico 88202-1717

Voice Ph. (505) 623-2761 Fax Ph. (505) 625-8060

TO THE ATTENTION OF: Roger Anderson

LOCATION: OCD Santa Fe, N.M.

FAX PHONE: 1-827-5741

FROM: L. Campbell

LOCATION: Roswell

DEPT:

DATE: 6/26/91 . TIME: 5:16 AM. X PM.

Number of pages sent including this page. 19

Sent from FAX number (505)625-8060.

Verification needed? Please call (505)623-2761 (voice).

Thank You.

Roger, The 4/24/91 data was the initial characterization analyses. The 6/03/91 data reflects the BTEX + TPH values after Approx. 2.5 yds had been removed. We're not clean yet!

FAX sent by:

FAXCOVER.TXT 2/28/91 PW2

ASSAIGAI

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

age 1 — REPORT — Work Order # 91-04-221

eceived: 04/24/91 — 05/21/91 14:57:59

REPORT TO
ENRON/TRANSWESTERN PIPELINE
6381 N. MAIN STREET
P.O. BOX 1717
ROSWELL, NM 88202-1717
ATTEN LARRY CAMPBELL

PREPARED BY
Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109
ATTEN THOMAS C. DYE
PHONE (505)345-8964

Dean Dupree
CERTIFIED BY

CONTACT TOM

CLIENT ENR03 SAMPLES 2
COMPANY ENRON/TRANSWESTERN PIPELINE
FACILITY ROSWELL, NEW MEXICO
ENR03

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
DIRECTOR of LABORATORIES/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E.,ALBUQUERQUE,N.M. 87109

WORK ID STA.8 SCRUBBER LINE 7056
TAKEN 4/19/91
TRANS FEDERAL EXPRESS
TYPE SOIL/LIQUIDS/ASBESTOS
P.O. #
INVOICE under separate cover

SAMPLE IDENTIFICATION

01 5115041991C
02 5115041991D

TEST CODES and NAMES used on this workorder

BTEX	BENZENE,TOLUENE,EBENZ,XYLE
FLSH_P	FLASHPOINT
PCB_S	PCB'S IN SOIL
TCLP_M	TCLP METALS ENRON LIST
TCLP_O	TCLP ORGANICS ENRON LIST

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

SAMPLE ID 5115041991C

SAMPLE # 01 FRACTIONS: A
Date & Time Collected 04/19/91 Category

FLSH P >140
DEGREES FAREN

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

eceived: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

AMPLE ID 5115041991C FRACTION 01A TEST CODE BTEX NAME BENZENE,TOLUENE,EBENZ,XYLE
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT	UNITS
BENZENE	<0.2	0.2	MG/KG
TOLUENE	8.6	0.2	MG/KG
ETHYL BENZENE	3.1	0.2	MG/KG
XYLENES	14	0.2	MG/KG

Notes and Definitions for this Report:

DATE RUN 04/30/91
ANALYST JEB

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

SAMPLE ID 5115041991C

FRACTION 01A TEST CODE PCB_8 NAME PCB'S IN SOIL
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT	TYPE
AROCLOR #1	<10	10	N/A
AROCLOR #2	N/A	N/A	N/A

Notes and Definitions for this Report:

DATE RUN 05/01/91
ANALYST PV
UNITS MG/KG

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

eceived: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

AMPLE ID 5115041991C FRACTION 01A TEST CODE TCLP_M NAME TCLP METALS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
ARSENIC	3.8	0.50
BARIUM	<0.5	0.5
CADMIUM	<0.003	0.003
CHROMIUM	<0.02	0.02
LEAD	<0.10	0.10
MERCURY	<0.0002	0.0002
SELENIUM	<0.005	0.005
SILVER	<0.005	0.005

Notes and Definitions for this Report:

EXTRACTED 04/28/91
DATE RUN 05/08/91
ANALYST JB
UNITS MG/L

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

SAMPLE ID 5115041991C FRACTION 01A TEST CODE TCLP_O NAME TCLP ORGANICS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
BENZENE	<0.01	0.01
CARBON TETRACHLORIDE	<0.01	0.01
CHLOROBENZENE	<0.01	0.01
CHLOROFORM	<0.01	0.01
1,2-DICHLOROETHANE	<0.01	0.01
1,1-DICHLOROETHYLENE	<0.01	0.01
METHYL ETHYL KETONE	<0.1	0.1
TETRACHLOROETHYLENE	<0.01	0.01
TRICHLOROETHYLENE	<0.01	0.01
VINYL CHLORIDE	<0.01	0.01
O-CRESOL	<0.01	0.01
M-CRESOL	<0.01	0.01
P-CRESOL	<0.01	0.01
1,4-DICHLOROBENZENE	<0.01	0.01
2,4-DINITROTOLUENE	<0.01	0.01
HEXACHLOROBENZENE	<0.01	0.01
HEXACHLORO-1,3-BUTADIENE	<0.01	0.01
HEXACHLOROETHANE	<0.01	0.01
NITROBENZENE	<0.01	0.01
PENTACHLOROPHENOL	<0.05	0.05
PYRIDINE	<0.01	0.01
2,4,5-TRICHLOROPHENOL	<0.01	0.01
2,4,6-TRICHLOROPHENOL	<0.01	0.01

SURROGATE	%RECOVERY	LIMITS		
NITROBENZENE-d5	116	51	-	125
2-FLUOROBIPHENYL	98	62	-	106
TERPHENYL-d14	130	13	-	133
PHENOL-d5	109	52	-	118

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221
Continued From Above

SAMPLE ID 5115041991C FRACTION 01A TEST CODE TCLP_O NAME TCLP ORGANICS EMRON LIST
Date & Time Collected 04/19/91 Category

2-FLUOROPHENOL	95	44 -	120

Notes and Definitions for this Report:

EXTRACTED 04/30/91
DATE RUN 05/21/91
ANALYST DD
UNITS MG/L

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Received: 04/24/91 Results by Sample

SAMPLE ID 5115041991D SAMPLE # 02 FRACTIONS: A
Date & Time Collected 04/19/91 Category

FLSH_P >140
DEGREES FAREN

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

REPORT

Work Order # 91-04-221

Received: 04/24/91

Results by Sample

SAMPLE ID 5115041991D FRACTION 02A TEST CODE BTEX NAME BENZENE,TOLUENE,EBENZ,XYLE

Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT	UNITS
BENZENE	<0.2	0.2	MG/KG
TOLUENE	10	0.5	MG/KG
ETHYL BENZENE	8.9	0.5	MG/KG
XYLENES	100	0.5	MG/KG

Notes and Definitions for this Report:

DATE RUN 05/02/91

ANALYST SR

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

REPORT

Work Order # 91-04-221

Received: 04/24/91

Results by Sample

SAMPLE ID 5115041991D FRACTION 02A TEST CODE PCB_S NAME PCB'S IN SOIL

Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT	TYPE
AROCLOR #1	<10	10	N/A
AROCLOR #2	N/A	N/A	N/A

Notes and Definitions for this Report:

DATE RUN 05/01/91
ANALYST PV
UNITS MG/KG

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

Received: 04/24/91 Results by Sample

SAMPLE ID 5115041991D FRACTION 02A TEST CODE TCLP_M NAME TCLP METALS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
ARSENIC	4.8	0.50
BARIUM	<0.5	0.5
CADMIUM	<0.003	0.003
CHROMIUM	<0.02	0.02
LEAD	<0.10	0.10
MERCURY	<0.0002	0.0002
SELENIUM	<0.005	0.005
SILVER	<0.005	0.005

Notes and Definitions for this Report:

EXTRACTED 04/28/91
DATE RUN 05/08/91
ANALYST JB
UNITS MG/L

TRANSWESTERN PIPELINE COMPANY

Technical Services Office
P.O. Box 1717 * Roswell, New Mexico 88202-1717

Voice Ph. (505) 623-2761 Fax Ph. (505) 625-8060

TO THE ATTENTION OF: Roger Anderson

LOCATION: OCD Santa Fe, N.M.

FAX PHONE: 1-827-5791

FROM: L. Campbell

LOCATION: Roswell

DEPT:

DATE: 6/26/91 . TIME: 5:16 AM. X PM.

Number of pages sent including this page. 19

Sent from FAX number (505)625-8060.

Verification needed? Please call (505)623-2761 (voice).

Thank You.

Roger, The 4/24/91 data was the initial characterization analyses. The 6/03/91 data reflects the BTEX & TPH values after Approx. 2.5 yds had been removed. We're not clean yet!

FAX sent by:

FAXCOVER.TXT 2/28/91 PW2

ASSAIGAI

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

age 1 — REPORT — Work Order # 91-04-221

eceived: 04/24/91 — 05/21/91 14:57:59

REPORT TO
ENRON/TRANSWESTERN PIPELINE
6381 N. MAIN STREET
P.O. BOX 1717
ROSWELL, NM 88202-1717
ATTEN LARRY CAMPBELL

PREPARED BY
Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109

Dean Dupree
CERTIFIED BY

ATTEN THOMAS C. DYE
PHONE (505)345-8964
CONTACT TOM

CLIENT ENR03 SAMPLES 2
COMPANY ENRON/TRANSWESTERN PIPELINE
FACILITY ROSWELL, NEW MEXICO
ENR03

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
DIRECTOR of LABORATORIES/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E.,ALBUQUERQUE,N.M. 87109

WORK ID STA.8 SCRUBBER LINE 7056
TAKEN 4/19/91
TRANS FEDERAL EXPRESS
TYPE SOIL/LIQUIDS/ASBESTOS
P.O. #
INVOICE under separate cover

SAMPLE IDENTIFICATION

01 5115041991C
02 5115041991D

TEST CODES and NAMES used on this workorder

BTEX	BENZENE,TOLUENE,EBENZ,XYLE
FLSH_P	FLASHPOINT
PCB_S	PCB'S IN SOIL
TCLP_M	TCLP METALS ENRON LIST
TCLP_O	TCLP ORGANICS ENRON LIST

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Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

SAMPLE ID 5115041991C

SAMPLE # 01 FRACTIONS: A
Date & Time Collected 04/19/91 Category

FLSH_P >140
DEGREES FAREN

REPORT

Work Order # 91-04-221

eceived: 04/24/91

Results by Sample

AMPLE ID **5115041991C**   FRACTION **01A**   TEST CODE **BTEX**   NAME **BENZENE,TOLUENE,EBENZ,XYLE**

Date & Time Collected **04/19/91**   Category

PARAMETER	RESULT	DET LIMIT	UNITS
BENZENE	<0.2	0.2	MG/KG
TOLUENE	8.6	0.2	MG/KG
ETHYL BENZENE	3.1	0.2	MG/KG
XYLENES	14	0.2	MG/KG

Notes and Definitions for this Report:

DATE RUN 04/30/91
ANALYST JEB

2.5.9 ppm

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eceived: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

AMPLE ID 5115041991C FRACTION 01A TEST CODE PCB_8 NAME PCB'S IN SOIL
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT	TYPE
AROCLOR #1	<10	10	N/A
AROCLOR #2	N/A	N/A	N/A

Notes and Definitions for this Report:

DATE RUN 05/01/91
ANALYST PV
UNITS MG/KG

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eceived: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

AMPLE ID 5115041991C FRACTION 01A TEST CODE TCLP_M NAME TCLP METALS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
ARSENIC	3.8	0.50
BARIUM	<0.5	0.5
CADMIUM	<0.003	0.003
CHROMIUM	<0.02	0.02
LEAD	<0.10	0.10
MERCURY	<0.0002	0.0002
SELENIUM	<0.005	0.005
SILVER	<0.005	0.005

Notes and Definitions for this Report:

EXTRACTED 04/28/91
DATE RUN 05/08/91
ANALYST JB
UNITS MG/L

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REPORT
Work Order # 91-04-221
Received: 04/24/91
Results by Sample

SAMPLE ID 5115041991C FRACTION 01A TEST CODE TCLP_O NAME TCLP ORGANICS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
BENZENE	<0.01	0.01
CARBON TETRACHLORIDE	<0.01	0.01
CHLOROBENZENE	<0.01	0.01
CHLOROFORM	<0.01	0.01
1,2-DICHLOROETHANE	<0.01	0.01
1,1-DICHLOROETHYLENE	<0.01	0.01
METHYL ETHYL KETONE	<0.1	0.1
TETRACHLOROETHYLENE	<0.01	0.01
TRICHLOROETHYLENE	<0.01	0.01
VINYL CHLORIDE	<0.01	0.01
O-CRESOL	<0.01	0.01
M-CRESOL	<0.01	0.01
P-CRESOL	<0.01	0.01
1,4-DICHLOROBENZENE	<0.01	0.01
2,4-DINITROTOLUENE	<0.01	0.01
HEXACHLOROBENZENE	<0.01	0.01
HEXACHLORO-1,3-BUTADIENE	<0.01	0.01
HEXACHLOROETHANE	<0.01	0.01
NITROBENZENE	<0.01	0.01
PENTACHLOROPHENOL	<0.05	0.05
PYRIDINE	<0.01	0.01
2,4,5-TRICHLOROPHENOL	<0.01	0.01
2,4,6-TRICHLOROPHENOL	<0.01	0.01

SURROGATE	%RECOVERY	LIMITS
NITROBENZENE-d5	116	51 - 125
2-FLUOROBIPHENYL	98	62 - 106
TERPHENYL-d14	130	13 - 133
PHENOL-d5	109	52 - 118

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SAMPLE ID **5115041991C** FRACTION **01A** TEST CODE **TCLP_O** NAME **TCLP ORGANICS ENRON LIST**
Date & Time Collected **04/19/91** Category

2-FLUOROPHENOL	95	44 -	120

Notes and Definitions for this Report:

EXTRACTED 04/30/91
DATE RUN 05/21/91
ANALYST DD
UNITS MG/L

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Received: 04/24/91 Results by Sample

SAMPLE ID 5115041991D SAMPLE # 02 FRACTIONS: A
Date & Time Collected 04/19/91 Category

FLSH_P >140
DEGREES FAREN

ASSAIGAI
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REPORT

Work Order # 91-04-221

Received: 04/24/91

Results by Sample

SAMPLE ID **5115041991D** FRACTION **02A** TEST CODE **BTEX** NAME **BENZENE,TOLUENE,EBENZ,XYLE**

Date & Time Collected **04/19/91** Category

PARAMETER	RESULT	DET LIMIT	UNITS
BENZENE	<0.2	0.2	MG/KG
TOLUENE	10	0.5	MG/KG
ETHYL BENZENE	8.9	0.5	MG/KG
XYLENES	100	0.5	MG/KG

Notes and Definitions for this Report:

DATE RUN 05/02/91
ANALYST SR

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Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

SAMPLE ID 5115041991D FRACTION 02A TEST CODE PCB_8 NAME PCB'S IN SOIL
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT	TYPE
AROCLOR #1	<10	10	N/A
AROCLOR #2	N/A	N/A	N/A

Notes and Definitions for this Report:

DATE RUN 05/01/91
ANALYST PV
UNITS MG/KG

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Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221

SAMPLE ID 5115041991D FRACTION 02A TEST CODE TCLP_M NAME TCLP METALS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
ARSENIC	4.8	0.50
BARIUM	<0.5	0.5
CADMIUM	<0.003	0.003
CHROMIUM	<0.02	0.02
LEAD	<0.10	0.10
MERCURY	<0.0002	0.0002
SELENIUM	<0.005	0.005
SILVER	<0.005	0.005

Notes and Definitions for this Report:

EXTRACTED 04/28/91
DATE RUN 05/08/91
ANALYST JB
UNITS MG/L

ASSAIGAI
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REPORT
Work Order # 91-04-221
eceived: 04/24/91
Results by Sample

AMPLE ID S115041991D FRACTION 02A TEST CODE TCLP_O NAME TCLP ORGANICS ENRON LIST
Date & Time Collected 04/19/91 Category

PARAMETER	RESULT	DET LIMIT
BENZENE	<0.01	0.01
CARBON TETRACHLORIDE	<0.01	0.01
CHLOROBENZENE	<0.01	0.01
CHLOROFORM	<0.01	0.01
1,2-DICHLOROETHANE	<0.01	0.01
1,1-DICHLOROETHYLENE	<0.01	0.01
METHYL ETHYL KETONE	<0.1	0.1
TETRACHLOROETHYLENE	<0.01	0.01
TRICHLOROETHYLENE	<0.01	0.01
VINYL CHLORIDE	<0.01	0.01
O-CRESOL	<0.01	0.01
M-CRESOL	<0.01	0.01
P-CRESOL	<0.01	0.01
1,4-DICHLOROBENZENE	<0.01	0.01
2,4-DINITROTOLUENE	<0.01	0.01
HEXACHLOROBENZENE	<0.01	0.01
HEXACHLORO-1,3-BUTADIENE	<0.01	0.01
HEXACHLOROETHANE	<0.01	0.01
NITROBENZENE	<0.01	0.01
PENTACHLOROPHENOL	<0.05	0.05
PYRIDINE	<0.01	0.01
2,4,5-TRICHLOROPHENOL	<0.01	0.01
2,4,6-TRICHLOROPHENOL	<0.01	0.01

SURROGATE	%RECOVERY	LIMITS
NITROBENZENE-d5	125	51 - 125
2-FLUOROBIPHENYL	93	62 - 106
TERPHENYL-d14	72	13 - 133
PHENOL-d5	116	52 - 118

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Received: 04/24/91

REPORT
Results by Sample

Work Order # 91-04-221
Continued From Above

SAMPLE ID **5115041991D** FRACTION **02A** TEST CODE **TCLP_O** NAME **TCLP ORGANICS ENRON LIST**
Date & Time Collected **04/19/91** Category

2-FLUOROPHENOL	102	44 -	120

Notes and Definitions for this Report:

EXTRACTED 04/30/91
DATE RUN 05/21/91
ANALYST DD
UNITS MG/L

ASSAIGAI
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Received: 06/03/91

REPORT
06/18/91 14:50:35

Work Order # 91-06-022

REPORT TO: ENRON/TRANSWESTERN PIPELINE
P.O. BOX 1249
303 RIO COMMUNITIES BLVD
BELEN, NM 87002
ATTEN RODGER LALONDE

CLIENT ENR12 SAMPLES 2
COMPANY ENRON/TRANSWESTERN PIPELINE
FACILITY BELEN, NM 87002
ENR12

MARK ID T-810 FUEL - BELEN 7347
TAKEN 5/31/91
TRANS CLIENT
TYPE WATER/OIL/SOLIDS
P.O. #
INVOICE under separate cover

PREPARED BY: Assaigai Analytical Labs
7300 Jefferson NE
Albuquerque, NM 87109
ATTEN THOMAS C. DYE
PHONE (505)345-8964

CERTIFIED BY

CONTACT LAB MANAGER

QUESTIONS ABOUT THIS REPORT SHOULD BE ADDRESSED TO:
DIRECTOR of LABORATORIES/ASSAIGAI ANALYTICAL
7300 JEFFERSON N.E.,ALBUQUERQUE,N.M. 87109

SAMPLE IDENTIFICATION

01 5115053191-A BOTTOM
02 5115053191-B SIDE

TEST CODES and NAMES used on this workorder

BTEX BENZENE,TOLUENE,EBENZ,XYLE
TRPH TOTAL REC PET HYDROCARBONS

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REPORT

Work Order # 91-06-022

Received: 06/03/91

Results by Sample

SAMPLE ID 5115053191-A BOTTOM SAMPLE # 01 FRACTIONS: A

Date & Time Collected 05/31/91 Category

TRPH	18000	MG/KG

SAMPLE ID 5115053191-A BOTTOM FRACTION 01A TEST CODE BTEX NAME BENZENE,TOLUENE,EBENZ,XYLE
Date & Time Collected 05/31/91 Category

PARAMETER	RESULT	DET LIMIT	UNITS
BENZENE	6.5	0.1	MG/KG
TOLUENE	5.4	0.1	MG/KG
ETHYL BENZENE	<0.1	0.1	MG/KG
XYLENES	25	0.1	MG/KG

Notes and Definitions for this Report:

DATE RUN 06/17/91
ANALYST SR

40

ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109

REPORT

Work Order # 91-06-022

Received: 06/03/91

Results by Sample

SAMPLE ID 5115053191-B SIDE FRACTION 02A TEST CODE BTEX NAME BENZENE,TOLUENE,EBENZ,XYLE

Date & Time Collected 05/31/91 Category

PARAMETER	RESULT	DET LIMIT	UNITS
BENZENE	<0.1	0.1	MG/KG
TOLUENE	<0.1	0.1	MG/KG
ETHYL BENZENE	<0.1	0.1	MG/KG
XYLENES	1.4	0.1	MG/KG

Notes and Definitions for this Report:

DATE RUN 06/17/91

ANALYST SR

ENRON
GAS PIPELINE GROUP

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

June 23, 1991

Mr. Dave Boyer
Oil Conservation Division
Energy and Minerals Department
State of New Mexico
310 Old Santa Fe Trail
State Land Office Building , Room 206
Santa Fe, New Mexico 87501

Re: Closure of Monitor Wells Under EPA Consent Decree, Corona Station

Dear Mr. Boyer:

On behalf of Transwestern Pipeline Company (Transwestern), three monitor wells have been operated for PCBs at Station 8, Corona under the Consent Decree with EPA. Under the terms of that Decree the wells may now be closed. Since the subsurface conditions at the site are similar to those at the Mountainair Station, we proprose to use the same procedures that are presently being used with your approval to close the wells at Mountainair.

Enclosed are copies of a letter from our consultant, Daniel B. Stephens & Associates describing proposed closure methods and copies of the original summary completion reports including schematic drawings of the wells.

We would like to move to close these wells as soon as we complete closure at Mountainair. Since the conditions and the procedures are like Mountainair, we are hopeful that you will be able to review them with minimal effort and time.

Thank you for your consideration. In the meantime, should you have any questions please call me at (713) 853-3219 or Ted Ryther at (713) 853-5634.

Yours very truly,

James C. Alexander

James C. Alexander
Manager of Projects, Environmental Affairs

Enclosure

cc: Ms. Donna Mullins, USEPA Region VI, Dallas
Mr. Thomas H. McGraw, New Mexico Dept. Of Environment, Santa Fe
Mr. Ed Wise, Entrix, Houston

DANIEL B. STEPHENS & ASSOCIATES, INC.
ENVIRONMENTAL SCIENTISTS AND ENGINEERS

May 30, 1991

'91 JUN 26 AM 10 45

OIL CONSERVATION DIVISION
REC'D

Mr. Ted Ryther
Environmental Affairs E-2575
ENRON Corporation
1400 Smith Street
P.O. Box 1188
Houston, TX 77002

Re: Closure of Monitor Wells 8-1, 8-2, and 8-3 at Corona Compressor Station #8

Dear Mr. Ryther:

The purpose of this letter is to propose detailed closure (abandonment) plans for the subject monitor wells at Corona. These plans have been designed to eliminate potential pathways for contaminant migration both to the uppermost aquifer (unconfined system located in the Yeso Formation approximately 515 to 575 feet below the ground surface) and to the thick vadose zone overlying this aquifer. Daniel B. Stephens & Associates (DBS&A) has conservatively designed these closure plans to ensure that all parties concerned will have a high level of confidence that potential pathways will be eliminated. Draft ASTM procedures for decommissioning wells (New Standard Practice for the Decommissioning of Ground Water Wells, Vadose Monitoring Devices, Boreholes, and Other Devices for Environmental Activities) and State of New Mexico regulations have been consulted prior to developing these plans. The proposed plans in all cases meet or exceed the requirements specified in these guidance documents.

The general approach for eliminating contaminant migration pathways from the ground surface to both the thick vadose zone and the underlying uppermost aquifer involves cement grouting each borehole from total depth to the ground surface. Drilling log data suggest that it will be possible to plug (grout) all regions of each borehole, including fractured limestone regions (found between approximately 40 and 300 feet) where circulation was lost during drilling. Many of the worst regions of lost circulation were cement grouted during drilling, thereby effectively sealing off fractures and/or cavities responsible for loss of circulation.

However, if when implementing the well closure procedures described below it is determined that these upper limestone regions take excessive amounts of grout (e.g., more than 3 times the amount calculated), DBS&A recommends an alternative method for sealing off the upper portion of the borehole of concern. This approach is recommended in the draft ASTM procedures for decommissioning wells and has been previously proposed by DBS&A for closure of monitor wells at Mountainair Compressor Station #7. It simply involves setting a plug (cement basket) at approximately 70 feet from the ground surface and cement grouting back to the ground surface. The approximately 70 foot-thick-surface seal should effectively eliminate the potential pathway from the ground surface to the underlying vadose zone. In this case, no further attempt will be made to grout the interval below 70 feet which takes excessive amounts of grout.

DBS&A has used pertinent well completion, drilling, and geologic data to develop detailed closure plans for each well described in the following paragraphs. Well completion data for each well are summarized in schematic form in Attachment I. Pertinent geologic and drilling data are briefly summarized below in the introductory paragraphs of the closure procedures for each well.

Finally, it should be noted that the grouting procedures outlined below for each well have been designed to occur over a three day period. However, it is expected that procedures specified for a particular day (e.g., Day 1) can be accomplished at each monitor well during the same calendar day. Therefore, the grouting and abandonment of the three Corona monitor wells is expected to be completed in a relatively short time period (e.g., three to five working days).

Monitor Well 8-1

Circulation was lost over several depth intervals during drilling of Monitor Well 8-1, most notably between 250 and 275 feet, and again between approximately 300 and 310 feet. The lost circulation was apparently the result of solution cavities and/or fractures within the limestone. Circulation was restored when more competent rock was encountered. The well was drilled to a total depth of 625 feet and screened between 586 and 606 feet. The current water level is approximately 575 feet below level surface.

Monitor Well 8-1 was completed without a gravel pack around the well screen and without a cement grout sealing plug above the well screen (see Attachment I). The 4 3/16-inch ID steel monitor well casing and the attached 4-inch PVC well screen are essentially hanging from the 8 1/4-inch ID surface casing. This completion information suggests that the steel monitor well casing could be pulled from the hole. Removal of the steel monitor well casing would greatly simplify closing of this borehole.

Given this information, DBS&A recommends the following approach to close this well.

1.1 Pull the entire monitor well casing from the borehole. Use Hydraulic jacks together with the hydraulic system on a drill rig. If pulling from the well head is unsuccessful (e.g., casing pulls apart), a fishing tool (spear) should be run to the bottom of the hole in an attempt to pull the casing from the bottom up. If this is unsuccessful, the casing should be perforated at 25 foot intervals from the top of the well screen to an elevation of approximately 300 feet from ground surface.

1.2 Run 2-inch steel tremie pipe to the bottom of the borehole.

1.3 On the first day of grouting, pump (through the tremie) approximately 6 yards of bentonite neat-cement grout (4 lbs. of bentonite plus 7.5 gallons of water plus 94 lb. sack of neat cement) to fill the borehole from total depth to approximately 300 feet from the ground surface. If it was not possible to pull the monitor well casing, grout should be tremied into the borehole in approximately 100 foot lifts. This lift height should produce enough pressure to push grout into the sand pack behind the well screen and the region of perforated casing, but not large enough to cause excessive grout loss to the formation. If it was possible to pull the casing, the grout should be tremied in shorter lifts (e.g. <50 feet in height) to prevent excessive losses to the formation.

If no grout losses occur to the formation, it will take approximately 4 yards of grout to fill the borehole from total depth to the 300 feet level. To compensate for inevitable loses to the formation, be prepared to add at least an additional 2 yards of grout for the total of 6 yards mentioned above.

1.4 After adding approximately 6 yards of grout to the borehole, pull the tremie pipe out of the borehole and clean on the ground surface. Let the grouted borehole stand overnight to permit grout to set up.

1.5 If it was not possible to initially pull the 4 3/16-ID steel monitor well casing (Step 1.1), proceed to Step 1.6. If the monitor well casing was initially pulled, proceed directly to Step 1.7.

1.6 Determine the level of grout inside the perforated steel monitor well casing. Add additional grout as necessary to bring the grout level up to approximately 300 feet. Run in a cut-off tool to a depth approximately 20 feet above the grout level, cut the casing at this level, pull casing and cut-off tool from the hole.

1.7 Run the tremie into borehole and tag level of grout. Add additional grout as required to fill borehole to the ground surface. If the grout level is at 300 feet and no loss occurs to the formation, it will take approximately 2.5 yds. of grout to fill the borehole. In any case do not add more than 7.5 yards or 3 times the calculated amount. Add the grout in short lifts (<50 feet high) to prevent excessive grout loss to the formation.

1.8 Pull tremie pipe out of the borehole and let the grouted borehole stand overnight to permit grout to set up.

1.9 On the third day determine the level of grout within the borehole. If the level of grout is near the ground surface (e.g., within 150 feet), add additional grout as required to fill the borehole and proceed to Step 1.11. If a significant amount of grout has been lost to the formation (e.g., grout level is greater than 150 feet), proceed to Step 1.10.

1.10 Set a cement basket or an equivalent plug at approximately 70 feet from the ground surface and fill with cement grout to the ground surface.

1.11 Cut off surface casing at the ground surface. Weld a surface cap on the casing and apply required identification information (New Mexico State Regulations) to the surface cap.

Monitor Well 8-2

Drilling fluid circulation was lost in several fracture zones within the upper 280 feet of Monitor Well 8-2 in the Fourmile Draw and Bonney Canyon members of the San Andres Formation. As shown in the well completion schematic in Attachment I, these fracture zones were cemented during the drilling procedure. The hole was advanced to a total depth of 580 feet, but the formation caved to 554 feet. The monitor well was screened between approximately 534 and 554 feet. A gravel pack extends about 56 feet above the top of the well screen. There is 100 feet of cement grout above the gravel pack, as well as cement in the surface casing region of hole (80 feet below land surface). The present water level within this well is approximately 527 feet below land surface.

Because Monitor Well 8-2 contains a thick cement grout seal between 370 and 470 feet, it will not be possible to pull the monitor well casing. However, this thick grout seal around the (see Attachment I) outside of the casing can be used as a part of the grout seal above the uppermost aquifer and therefore serves to facilitate the closure of the well.

Given the above well information, DBS&A recommends the following approach to close the well.

2.1 Perforate the casing in the region of the sand pack above the well screen at approximately 510 and 485 feet.

2.2 Run 2-inch steel tremie pipe to the bottom of the borehole.

2.3 On the first day of grouting, pump (through the tremie) approximately 3.5 yards of bentonite neat-cement grout (4 lbs. of bentonite plus 7.5 gallons of water plus 94 lb. sack of neat cement) to fill the borehole from total depth to approximately 370 feet from the ground surface. Add grout in the region of the sand pack in approximately 100 feet lifts. This lift height should be large enough to push grout into the sand pack surrounding the well screen and perforated casing, but not large enough to cause excessive losses to the formation.

If no grout losses occur to the formation, it will take approximately 2.3 yards of grout to fill the borehole from total depth to the 370 feet level. To compensate for inevitable loses to the formation add at least an additional 1.2 yards of grout for the total of 3.5 yards mentioned above.

2.4 After adding approximately 3.5 yards of grout to the borehole, pull the tremie pipe out of the borehole and clean on the ground surface. Let the grouted borehole stand overnight to permit grout to set up.

2.5 On the second day run the tremie into borehole and tag level of grout. Add additional grout as required to fill borehole to the 370 feet level.

2.6 Pull the tremie pipe and run in a cut-off tool. Cut the casing off at approximately 350 feet from ground surface.

2.7 Pull the cut-off tool and monitor well casing.

2.8 Run in the tremie to the 350-foot level and pump in additional grout to completely fill the borehole. Assuming no loss to the formation, it will take approximately 5.5 yards to completely fill the borehole. In any case, do not add more than approximately 16.5 yards of grout (3 times the calculated amount) to fill the borehole. Add the grout in short lifts, (e.g. <50 feet) to prevent excessive grout loss to the formation.

2.9 On the third day determine the level of grout within the borehole. If the level of grout is near the ground surface, (e.g., within 150 feet), add additional grout as required to fill the borehole and proceed directly to Step 2.11. If significant amounts of grout have been lost to the formation (e.g., grout level is greater than 150 feet), proceed to Step 2.10.

2.10 Set a cement basket or an equivalent plug at the bottom of the cemented surface casing interval (approximately 80 feet) and fill the surface casing interval with cement grout to the ground surface.

2.11 Cut off surface casing at the ground surface. Weld a surface cap on the casing and apply required identification information (New Mexico State Regulations) to the surface cap.

Monitor Well 8-3

Drilling fluid circulation was either poor or non-existent over the interval between 42 and 225 feet during drilling of Monitor Well 8-3. Fracture zones encountered at 220 and 290 feet were cemented to improve the return of drill cuttings. The hole was drilled to a total depth of 570 feet. The bottom five feet of the formation caved prior to setting the casing string. The monitor well was screened between 520 and 540 feet. A gravel pack extends approximately 26 feet above the top of the screen, and 100 feet of cement grout was placed above the gravel pack. The current water level within this well is approximately 515 feet below ground surface.

1/26
per phone conversation with Casey Thompson — Geologist w/ Stephens & Ass 6-27-91

Monitor Well 8-3 was completed similarly to Monitor Well 8-2 (see Attachment I). The only differences being the total depth and length of the gravel pack and overlying cement grout plug. The same closure steps described for Monitor Well 8-2 will be followed. Depths and amounts of grout have been adjusted to compensate for the above differences.

Given the above information DBS&A recommends the following approach to close the well.

3.1 Perforate the casing in the region of sand pack above the well screen at approximately 500, 475, 450, 425, and 400 feet.

3.2 Run 2-inch steel tremie pipe to the bottom of the borehole.

3.3 On the first day of grouting, pump (through the tremie) approximately 4.8 yards of bentonite neat-cement grout (4 lbs. of bentonite plus 7.5 gallons of water plus 94 lb. sack of neat cement) to fill the borehole from total depth to approximately 294 feet from the ground surface. Add grout in the region of the sand pack in approximately 100 foot lifts. This lift height should be large enough to push grout into the sand pack surrounding the well screen and perforated casing, but not large enough to cause excessive losses to the formation.

If no grout losses occur to the formation, it will take approximately 3.2 yards of grout to fill the borehole from total depth to the 294 feet level. To compensate for inevitable loses to the formation add at least an additional 1.6 yards of grout for the total of 4.8 yards mentioned above.

3.4 After adding approximately 4.8 yards of grout to the borehole, pull the tremie pipe out of the borehole and clean on the ground surface. Let the grouted borehole stand overnight to permit grout to set up.

3.5 On the second day run the tremie into borehole and tag level of grout. Add additional grout as required to fill borehole to the 294 feet level.

3.6 Pull the tremie pipe and run in a cut-off tool. Cut the casing off at approximately 280 feet from ground surface.

3.7 Pull the cut-off tool and monitor well casing.

3.8 Run in the tremie to the 280 feet level and pump in additional grout to completely fill the borehole. Assuming no loss to the formation, it will take approximately 4.4 yards to completely fill the borehole. In any case, do not add more than approximately 13.2 yards of grout (3 times the calculated amount) to fill the borehole. Add the grout in short lifts (e.g. <50 feet high) to prevent excessive grout loss to the formation.

3.9 On the third day determine the level of grout within the borehole. If the level of grout is near the ground surface (e.g., within 150 feet), add additional grout as required to fill the borehole and proceed directly to Step 3.11. If significant amounts of grout have been lost to the formation (e.g., grout level is greater than 150 feet), proceed to Step 3.10.

3.10 Set a cement basket or an equivalent plug at approximately 70 feet from the ground surface and fill with cement grout to the ground surface.

3.11 Cut off surface casing at the ground surface. Weld a surface cap on the casing and apply required identification information (New Mexico State Regulations) to the surface cap.

Regards,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Bob Marley
Hydrogeologist

Dale Hammermeister
Hydrologist

DH/dm

Enclosures

WELL COMPLETION SUMMARY

Well designation: 8.1
Location: ENRON Pumping Station No. 8
Corona, New Mexico

Client: ENRON
Drilling Contractor: B-J Drilling, Inc.
Rig type: Ingersoll-Rand T4 with 900 cfm compressor
Drilling fluids: Air/Foam/EZ Mud

Elevation of land surface: 5790.31
Elevation of measuring point: 5789.31

Date spud: 4/21/89
Date completed: 5/11/89

- -

BOREHOLE DIAMETER SCHEDULE

12 1/4-inch diam. borehole from 0' to 21' BLS (Below Land Surface)

6 1/4-inch diam. borehole from 21' to 625' BLS

Total depth drilled - 625' BLS

- -

CASING SCHEDULE

8 5/8-inch O.D. (8 1/4-inch I.D.) blank steel from 0' to 21' BLS

4 3/16-inch I.D. (4.5-inch O.D.) blank steel from 0' to 586' BLS

4-inch schedule 40 PVC slotted well screen from 586' to 606' BLS, 0.020-inch slot opening, 160 slots per linear foot

Note: All steel joints welded with Lincoln #7018 rod. Standard threaded coupling used to join PVC screen to steel casing. PVC slip cap installed on bottom of screen.

- -

PUMP SCHEDULE

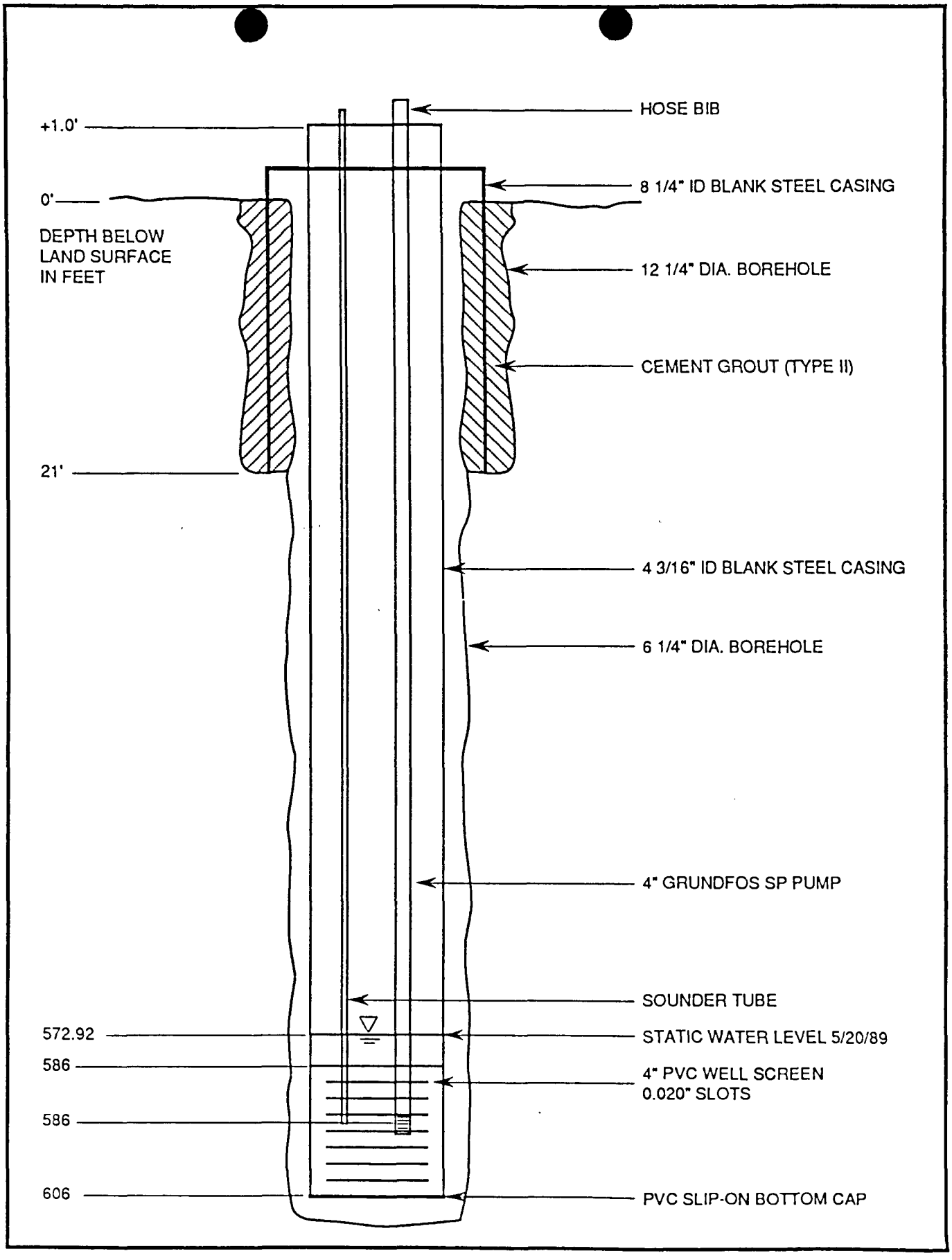
Installation date: 6/9/89
Pump: Grundfos SP 1A/88453
Motor: Franklin J88 2243004118 230v/1 phase
Pump Diam.: 4 inch
Pump H.P.: 1-1/2
Max G.P.M.: 5
Depth to intake: 596
Drop pipe: 593.5' of 1" galvanized
Sounder line: 593.5' of 3/4" galvanized

WELL COMPLETION SUMMARY (continued)

PUMP TEST

Short Term Pump Test

Test date:	6/11/89
Pumping time and rate:	240 minutes @ 1.1 gpm
Recovery time:	180 minutes



WELL SCHEMATIC
8-1
CORONA, NEW MEXICO

WELL COMPLETION SUMMARY

Well designation:	8.2
Location:	ENRON Pumping Station No. 8 Corona, New Mexico
Client:	ENRON
Drilling contractor:	Joe I. Salazar Drilling, Inc.
Rig type:	Gardner Denver 2000 with 1500 cfm compressor
Drilling fluids:	Water/Foam/Polymer

Elevation of land surface: 5740.53
Elevation of measuring point: 5742.33

Date spud:	5/12/89
Date completed:	5/18/89

- -

BOREHOLE DIAMETER SCHEDULE

13 5/8-inch diam. borehole from 0' to 40' BLS (Below Land Surface)
12 1/4-inch diam. borehole from 40' to 80' BLS
8 3/4-inch diam. borehole form 80' to 580' BLS

Total depth drilled - 580' BLS

- -

CASING SCHEDULE

10 3/4-inch O.D. (10 1/4-inch I.D.) blank steel from 0' to 27' BLS

4 1/2-inch O.D. (4 3/16-inch I.D.) blank steel from 0' to 534.25' BLS

4-inch schedule 40 PVC slotted well screen from 534.25' to 554.25' BLS, 0.020-inch slot opening, 160 slots per linear foot

Note: All steel joints welded with Lincoln #7018 rod. Standard threaded coupling used to join PVC screen to steel casing. PVC slip cap installed on bottom of screen.

- -

PUMP SCHEDULE

Installation date:	6/10/89
Pump:	Grundfos 8903 5515-31
Motor:	Franklin 1-88 2243004118 230 v/1 phase
Pump Diam:	4 inch
Pump H.P.:	1-1/2
Max G.P.M.:	5
Depth to intake:	544
Drop Pipe:	541.5 of 1" galvanized
Sounder line:	541.5 of 3/4" galvanized

WELL COMPLETION SUMMARY (continued)

- -

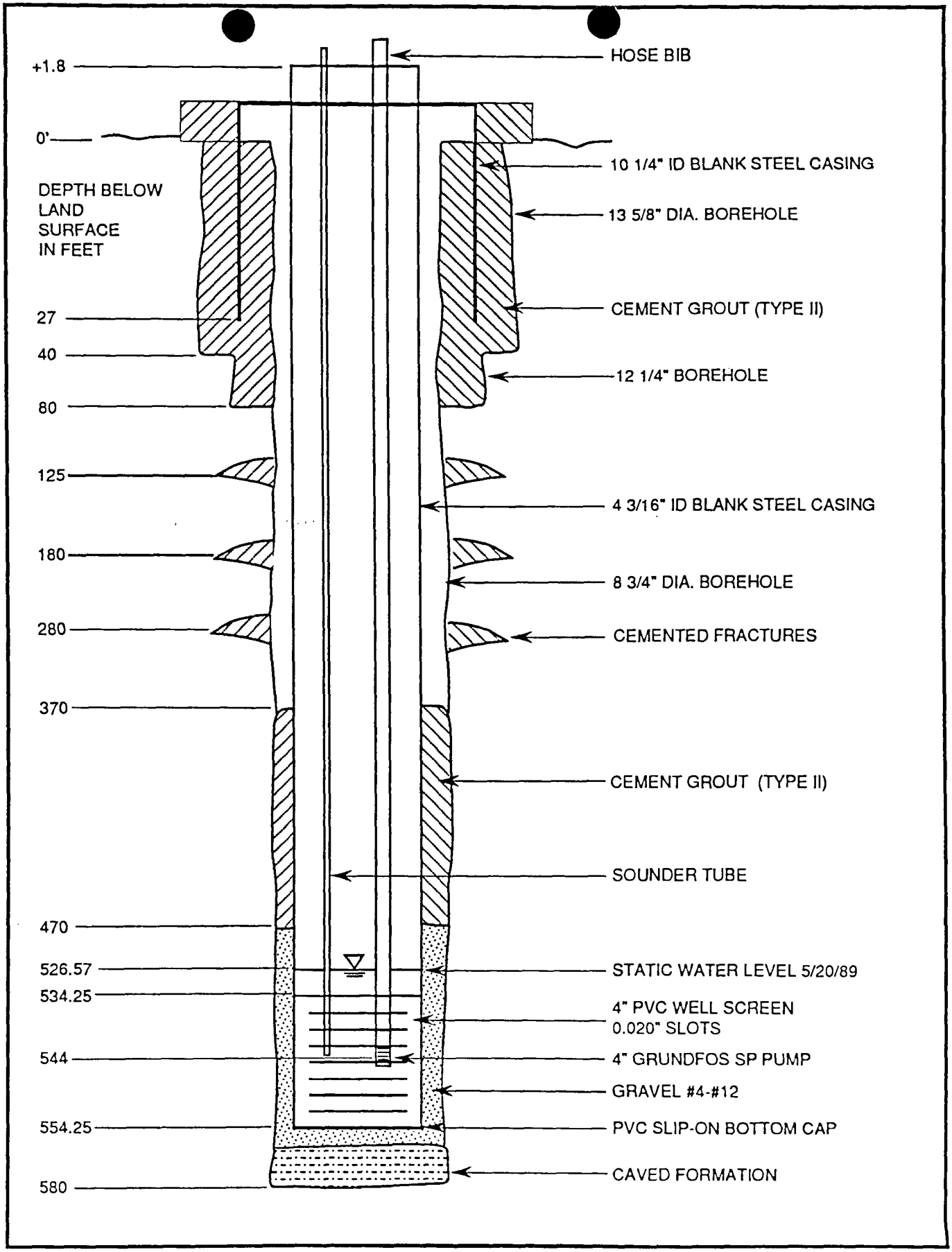
PUMP TEST

Short Term Pump Test

Test date:	6/13/89
Pumping time and rate:	236 minutes @ 1.5 gpm
Recovery time:	119 minutes

Long Term Pump Test

Test Date:	8/21/89
Pumping time and rate:	4320 minutes @ 1.29 gpm
Recovery time:	4320 minutes



WELL SCHEMATIC
8-2
CORONA, NEW MEXICO

WELL COMPLETION SUMMARY

Well designation:	8.3
Location:	ENRON Pumping Station No. 8 Corona, New Mexico
Client:	ENRON
Drilling contractor:	Joe I. Salazar Drilling, Inc.
Rig type:	GD 1500 w/500 cfm and GD 2000 w/ 1500 cfm
Drilling fluids:	Water/Foam/Polymer

Elevation of land surface: 5728.02
Elevation of measuring point: 5730.32

Date spud:	5/14/89
Date completed:	5/19/89

- -

BOREHOLE DIAMETER SCHEDULE

13 5/8-inch diam. borehole from 0' to 20' BLS (Below Land Surface)

8 3/4-inch diam. borehole from 20' to 570' BLS

Total depth drilled - 570' BLS

- -

CASING SCHEDULE

10 3/4 inch O.D. (10 1/4-inch I.D.) blank steel from 0' to 20' BLS

4 1/2-inch O.D. (4 3/16-inch I.D.) blank steel from 0' to 520' BLS

4-inch schedule 40 PVC slotted well screen from 520' to 540' BLS, 0.020-inch slot opening, 160 slots per linear foot

Note: All steel joints welded with Lincoln #7018 rod. Standard threaded coupling used to join PVC screen to steel casing. PVC slip cap installed on bottom of screen with screws.

- -

PUMP SCHEDULE

Installation date:	6/11/89
Pump:	Grundfos 58921 5515-31
Motor:	Franklin C89 2243004118 230v/1 phase
Pump Diam:	4 inch
Pump H.P.:	1-1/2
Max G.P.M.:	5
Depth to intake:	530
Drop pipe:	527.5' of 1" galvanized
Sounder line:	527.5' of 3/4" galvanized

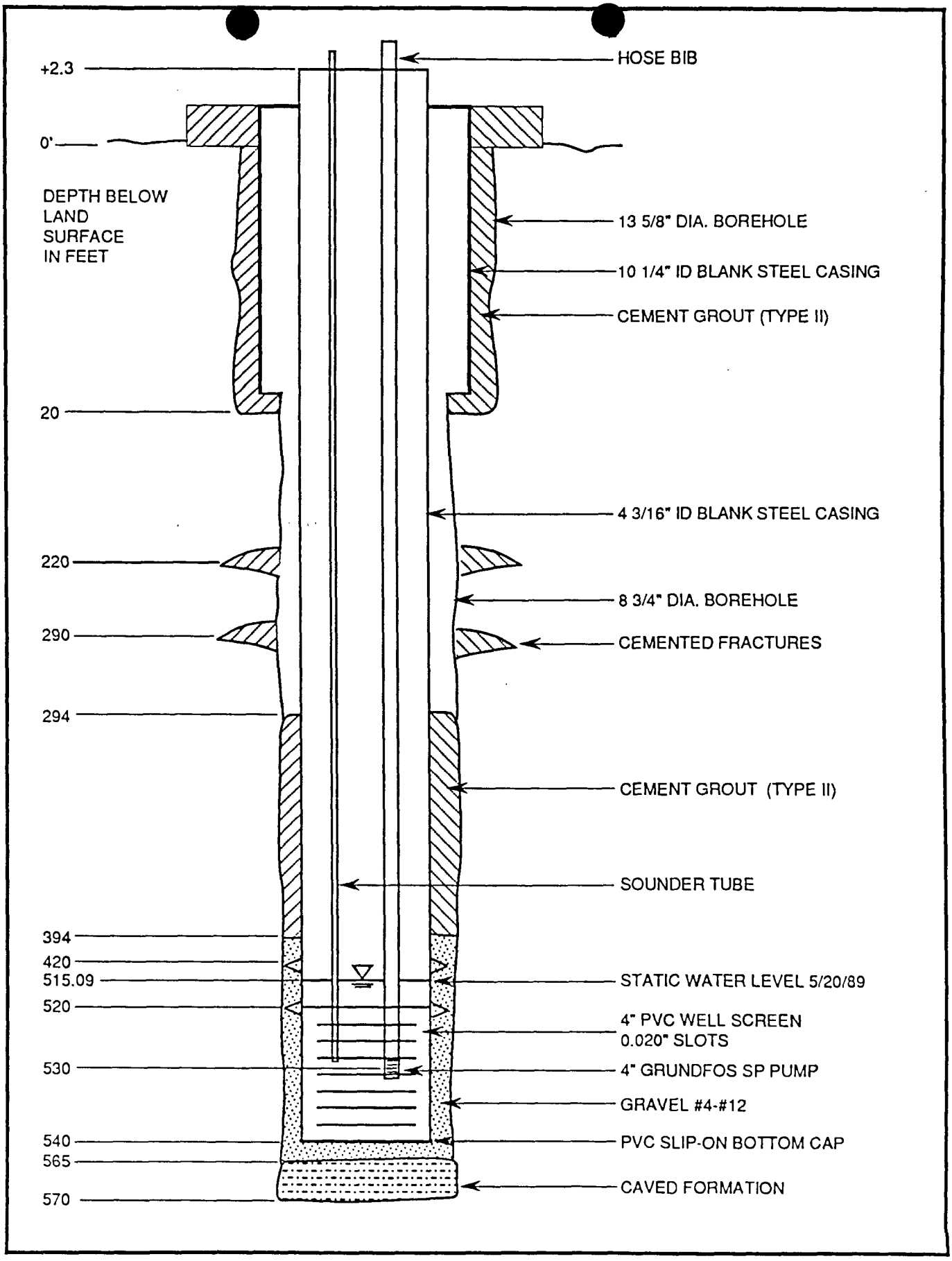
WELL COMPLETION SUMMARY (continued)

- -

PUMP TEST

Short Term Pump Test

Test date:	6/14/89
Pumping time and rate:	35 minutes @ 0.54 gpm
Recovery time:	213 minutes



WELL SCHEMATIC
8-3
CORONA, NEW MEXICO

FAX (505) 625-8060 Phone (505) 623-2761

Transwestern Pipeline Company
TECHNICAL OPERATIONS
Box 1717 • Roswell, New Mexico 88202-1717

June 21, 1991

Mr. Roger Anderson
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline Company requests a permit from the OCD to dispose of by aeration, oil and gas wastes generated at Compressor Station 8, Capitan, New Mexico. The location of this facility is as follows:

SE 1/4, NW 1/4 Section 36, Township 4-S., Range 15-E, Lincoln County, New Mexico.

Drive north from Roswell, on U.S. 285 for 57 miles; turn west on State Road 247 for 34 miles. At the junction of 247 and Transwestern Road, turn south for 15 miles.

Specifically, this permit requests approval to landfarm approximately 5 cu. yds. of nonhazardous hydrocarbon contaminated soil resulting from a pipeline liquids line rupture. It is understood that only soils which were contaminated at this facility will be covered under this application.

For your information, a notification was submitted to your Artesia Branch Office on May 30, 1991 describing the conditions of the release which were apparent at that time. Results of the soil sampling have been completed, and the material is being placed on plastic and covered to reduce any potential contamination.

To comply with issues relevant to protection of the environment, TPC will voluntarily adhere to the following set of conditions:

1) A piece of heavy strength plastic (approx. 10 mil.) will be layed down on the ground prior to soil placement.

2) A berm of approximately 12 inches will be constructed around the entire land aeration project to prevent surface runoff and potential contamination to adjacent areas.

3) Soils to remediated will be layed down in 6" layers. Subsequent lifts will only be applied after analyses have been performed of the surface in-place material and determined to have a concentration of less than 100 PPM total petroleum hydrocarbon (TPH).

4) Remediated soils with concentrations of less than 100 PPM TPH, will be removed from the land farm area and spread over the facility property.

5) In the event remediation processes are hindered, fertilizer applications and irrigations may be applied.

6) No fluids will be applied to the landfarm area without prior OCD approval after complete review of proposed application techniques.

As a point of reference, ground water at the facility is in excess of 400 feet deep, and there are no residences, other than the employees and their families, within a distance of approximately 15 miles.

We are presently in the process of performing remediation and soil cleanup operations and would appreciate your attention in this matter.

If you may require any additional information in the matter, please contact me at 625-8022.

Sincerely,

Larry Campbell

Larry Campbell
Compliance Environmentalist

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time	Date
	11:20	6-2-91

Originating Party	Other Parties
K. Brown	Casey Thompson
822-9400	Daniel B Stephens & Ass. s

Subject

Corona Monitor Wells Pluggins

Discussion

Recommended 2-stage cement job is OK but place the cement in each stage at one time not in lifts. Calculated bottom hole (600') pressure when hole is filled with cement (14.6 ppg) would be about 450-500 psi. Frac pressure of formation is much higher.

No additional fluid in the hole besides the aquifer water (static WL ≈ 500'-600').

Will use same rig (cable), cement, pct... as used at Mountaineer Site. Everything went fine there.

Conclusions or Agreements

Will approve closure plan of wells.

Distribution

Signed K. Brown

Corona Compressor Station #8

RE: Closing Monitor Wells

Aquifers: Vadose-Zone
Yeso Fm 515' to 575'

Problem: Fractured lst (btw. 40'-300') where lost circulation during drilling. Many grouted during drilling. If can't grout entire well bore (fractured zones take too much) will set a plug @ 70' and grout only above this

Wells: 3

Monitor Well 8-1

WL - 575'
TD - 625'
SCREEN - 586'-606'

Lost circ. 250'-275', 300'-310'
Plug ⇒ allow 3x calc. volume

Pull casing 4 3/4" & fill w/ grout through tremie pipe
Bentonite neat-cement (4 lb bentonite + 7.5 gal water + 94 lb neat cement)
Lift <50' open hole
Lift 100' for gravel pack + screens

MW 8-2

WL - 527'
TD - 580'
SCREEN - 534'-554'
GP - 470'-560'

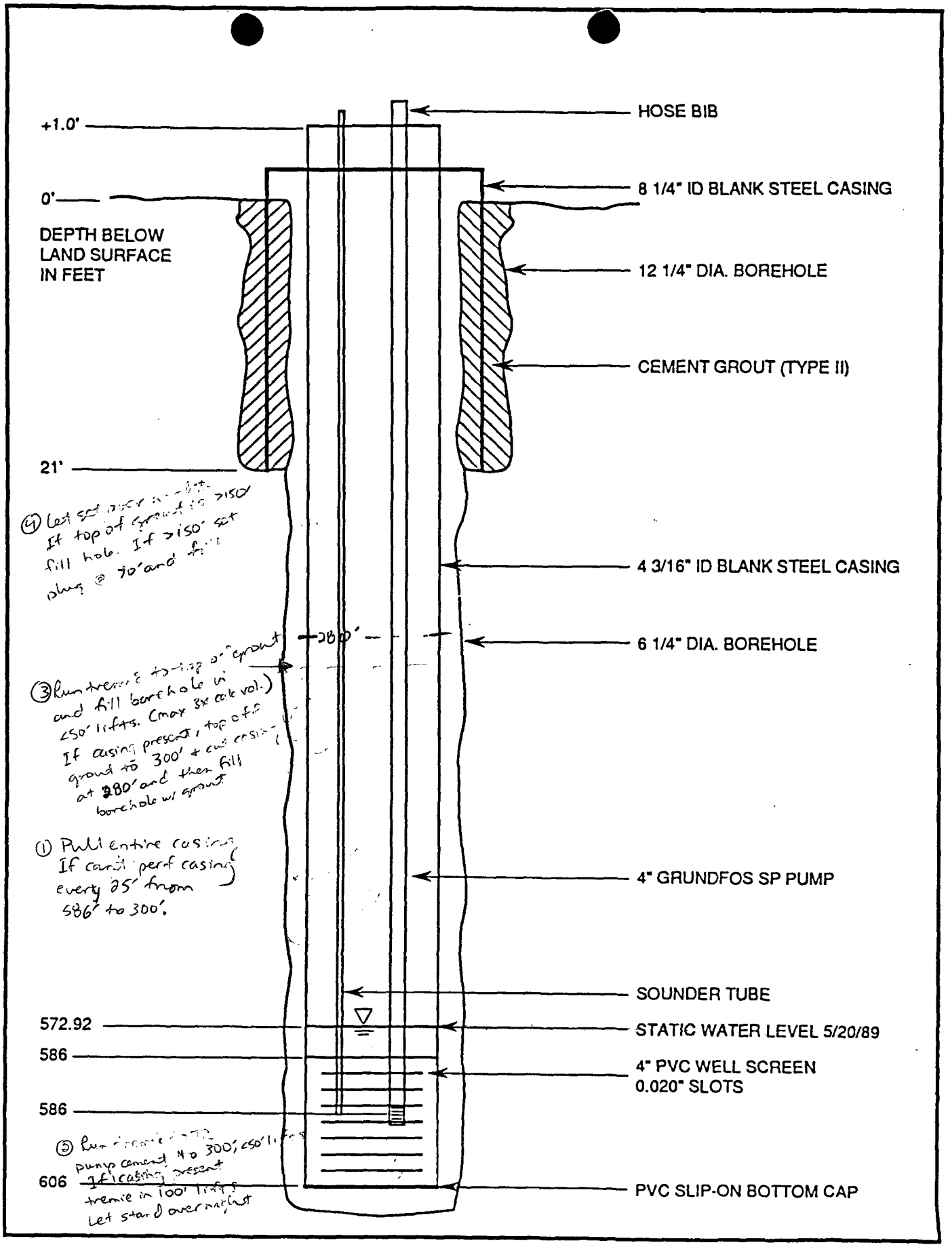
Lost circ. from 0'-280'

1. Perf at top of GP

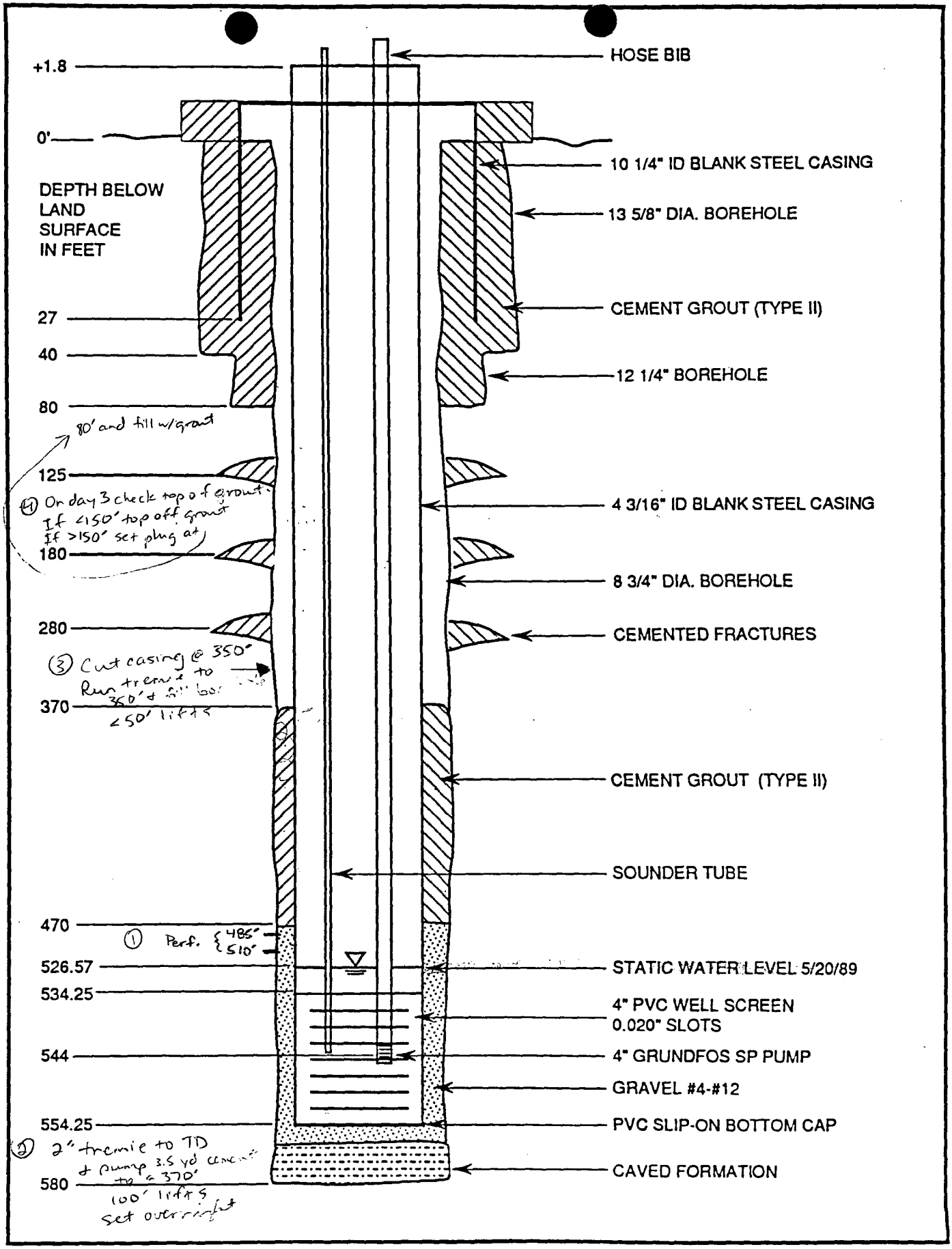
MW 8-3

WL - 515'
TD - 570'

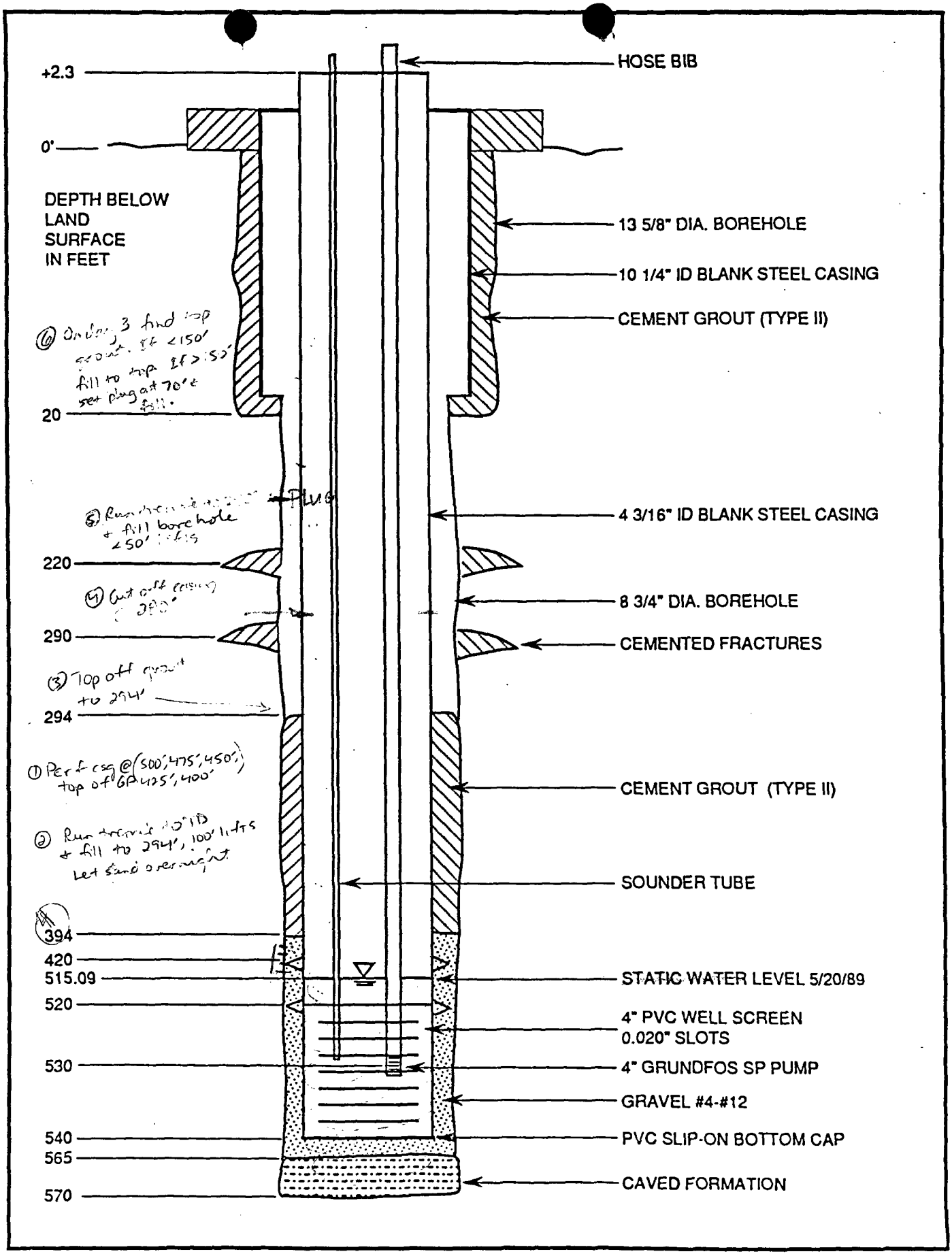
SCREEN - 520'-540'
GP - 494'-



WELL SCHEMATIC
8-1
CORONA, NEW MEXICO



WELL SCHEMATIC
8-2
CORONA, NEW MEXICO



WELL SCHEMATIC
8-3
CORONA, NEW MEXICO