GW - 107

GENERAL CORRESPONDENCE

YEAR(S):

2007-1997

~~2007-1997~~

BENHAM
infrastructure & environment

One [illegible] Street, Suite [illegible]
Tulsa, OK [illegible]

Telephone [illegible]
Fax [illegible]

[illegible]
[illegible]

March 20, 2007

Mr. Edwin E. Martin
New Mexico Oil Conservation Division
1220 St. Francis Drive
Santa Fe, New Mexico 87504

Re: Delay in Submittal of 2006 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Martin:

On January 23, 2007, Mr. Scott Pope with El Paso Natural Gas Company (EPNG) submitted to the New Mexico Oil Conservation Division a written notice that there would be a delay in EPNG's submittal of the 2006 Annual Groundwater Remediation Report for the Jal No. 4 Plant. This delay occurred because EPNG identified substantive quality issues within the laboratory analytical data for the Q4/2006 sampling event. These problems required EPNG to resample the wells and have the second set of samples analyzed; this time by another laboratory. In this letter, EPNG stated that the annual report would be submitted on or before March 30, 2007.

EPNG will be unable to meet this submittal date because of adverse weather and staff health issues. EPNG did resample the wells on March 5 through 8, 2007, and the data is currently being received and evaluated. The Benham Companies, LLC, on behalf of our client EPNG, respectfully requests that the submittal data now be extended until May 14, 2007.

If you have questions concerning this delay in submittal of the 2006 Annual Groundwater Remediation Report, please do not hesitate to contact Mr. Scott Pope at 719-520-4433, or myself at 918-599-4382.

Sincerely,
The Benham Companies, LLC

George H. (Buddy) Richardson, P.G.
Senior Project Manager

xc: Scott Pope, EPNG, Colorado Springs, CO

P:\TUL\ENV\2004\4100417108 Jal 2006\02_PM\OCD Extension_3-20-07.doc

Olson, William

From: Campbell, Darrell G [Darrell.Campbell@ElPaso.com]
Sent: Friday, August 13, 2004 11:36 AM
To: wolson@state.nm.us
Cc: Whitney, Mark P; Pope, Scott T
Subject: Jal #4 - 3rd Quarter Sampling

Bill,

We intend to conduct the Jal #4 3rd Quarter sampling starting on August 24 and hopefully finishing on August 25, 2004.

If you have any questions or need additional information, please call me at 915-587-3728 (office) or 915-526-8434 (Cell).

Thanks
Darrell Campbell
Laboratory Superintendent

Olson, William

From: Campbell, Darrell G [Darrell.Campbell@ElPaso.com]
Sent: Tuesday, February 17, 2004 2:18 PM
To: Olson, William
Cc: Pope, Scott T; Whitney, Mark P
Subject: Jal #4 1st Quarter Sampling

Bill,

We intend to conduct the Jal #4 1st Quarter sampling starting on February 23 and hopefully finishing on February 24, 2004.

If you have any questions or need additional information, please call me at 915-587-3728 (office) or 915-526-8434 (Cell).

Thanks
Darrell Campbell
Laboratory Superintendent

BENHAM
infrastructure & environment

The Benham Companies, Inc.
One West 3rd Street, Suite 100
Tulsa, OK 74103

Telephone 918.492.1600
Fax 918.496.0132

info@benham.com
www.benham.com

February 13, 2004

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Drive
Santa Fe, New Mexico 87504

RECEIVED

FEB 16 2004

Oil Conservation Division
Environmental Bureau

Re: 2003 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Olson:

On February 12, 2004 El Paso Natural Gas Company (EPNG) submitted to the New Mexico Oil Conservation Division (NMOCD) a document titled ***"2003 Annual Groundwater Remediation Report"*** for the above-referenced facility that was prepared by The Benham Companies, Inc. (Benham). Regrettably in preparing this document Benham failed to acknowledge that the NMOCD, in your letter of April 14, 2003, had approved the modifications to the groundwater sampling program that were recommended in Benham's 2002 annual report. In failing to recognize these approved modifications Benham stated erroneously that during EPNG's fourth quarter 2003 sampling event "the groundwater samples taken from the program monitor wells were inadvertently not submitted to the analytical laboratory for calcium, hardness, alkalinity, magnesium, sulfate, bromide, fluoride, nitrate-N, nitrate as NO_3, boron, iron, manganese, potassium and silica" and that "the groundwater samples taken from all of the program monitor wells except monitor well ACW-11 were inadvertently not submitted for total arsenic." In actuality all the groundwater samples taken throughout the 2003 monitoring program were analyzed for the complete list of approved parameters.

To correct Benham's error, please find enclosed a complete copy of the text portion of this document in which these incorrect statements have been removed. Please accept my apology for any inconvenience that this error may have caused.

Sincerely,
BENHAM
Infrastructure & Environment

George H. Richardson, P.G.
Senior Project Manager

xc: Mr. Chris Williams, NMOCD/Hobbs, w/ enclosure
Mr. Scott Pope, EPNG/Farmington, w/ enclosure
Mr. Darrell Campbell, EPNG/El Paso, w/ enclosure
Mr. Ed Nichols, EPNG/El Paso, w/o enclosure

elpaso

Via Federal Express

February 12, 2004

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: 2003 Annual Groundwater Remediation Report Jal No. 4 Plant Lea County, New Mexico

Dear Mr. Olson:

El Paso Natural Gas Company hereby submits the enclosed "2003 Annual Groundwater Remediation Report Jal No. 4 Plant Lea County, New Mexico". The Annual Report details remediation efforts for the year 2003

If you have any questions concerning the Annual Report please call me (505) 599-2124 or Buddy Richardson at (918) 492-1600.

Sincerely,

Scott T. Pope

Scott T. Pope, P.G.
Senior Environmental Scientist

xc: Mr. Chris Williams, NMOCD, Hobbs - w / enclosures; **Via Federal Express**
Mr. Darrell Campbell, EPNG - w / enclosures
Mr. Buddy Richardson, BI - w / enclosures
Mr. Ed Nichols, EPNG – ROW - w / o enclosures
Jal 4 file - w / enclosures

12279

Olson, William

From: Cindy Crain [cindy@laenvironmental.com]
Sent: Monday, February 09, 2004 4:01 PM
To: Sheeley, Paul
Cc: Olson, William; Rodney Bailey
Subject: ChevronTexaco Buckeye Vacuum Field Unit, Lea County, NM Groundwater Monitoring

Dear Paul:

Larson and Associates will begin groundwater monitoring activities at the ChevronTexaco Buckeye Vacuum Field Unit on Wednesday, February 11, 2004. The Buckeye Vacuum Field is located in Section 1, Township 18 South, Range 34 East.

If you have any questions, or need additional information, please do not hesitate to call me at (432) 687-0901.

Thank you,
Cindy Crain

GW107

Olson, William

From: Campbell, Darrell G [Darrell.Campbell@ElPaso.com]
Sent: Friday, October 24, 2003 10:35 AM
To: wolson@state.nm.us
Cc: Whitney, Mark P
Subject: 4th Quarter Jal #4 Sampling

Bill,

We intend to conduct the Jal #4 4th Quarter sampling starting on November 3 and hopefully finishing on November 7, 2003.

If you have any questions or need additional information, please call me at 915-587-3728 (office) or 915-526-8434 (Cell).

Thanks
Darrell Campbell
Laboratory Superintendent

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 17, 2003

Mr. Scott T. Pope
El Paso Natural Gas Company
614 Reilly Ave.
Farmington, NM 87401

RE: RECOVERY WELL WORK PLAN
CASE # GW-107R
JAL #4 PLANT
LEA COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Natural Gas Company's (EPNG) June 13, 2003 "WORK PLAN FOR INSTALLATION OF RECOVERY WELL RW-3, JAL NO. 4 GAS PLANT, LEA COUNTY, NEW MEXICO". This document contains EPNG's work plan for installation of an additional recovery well for remediation of contaminated ground water at the Jal No. 4 Plant.

The above-referenced work plan is approved with the following conditions:

1. The cement-bentonite grout used for completion of the recovery well shall contain 3-5% bentonite.

2. All below grade lines used to convey recovered fluids between recovery wells and water treatment facilities shall be tested to demonstrate mechanical integrity prior to operation by pressure testing to 3 pounds per square inch above normal operating pressure or another means acceptable to the OCD.

3. All wastes generated shall be disposed of at an OCD-approved facility.

4. EPNG shall notify the OCD at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit EPNG to the proposed plan should the plan fail to adequately remediate contamination at the site, or if contamination exists which is outside the scope of the plan. In addition, OCD approval does not relieve EPNG of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

April 14, 2003

Mr. Scott T. Pope
El Paso Natural Gas Company
614 Reilly Ave.
Farmington, NM 87401

RE: ANNUAL REMEDIATION REPORT
CASE # GW-107R
JAL #4 PLANT
LEA COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Natural Gas Company's (EPNG) February 14, 2003 "2002 ANNUAL GROUNDWATER REMEDIATION REPORT, JAL NO. 4 PLANT, LEA COUNTY, NEW MEXICO" and February 6, 2003 "GROUNDWATER MODELING REPORT JAL NO. 4 PLANT LEA COUNTY, NEW MEXICO". These documents contain the results of EPNG's remediation and monitoring of contaminated ground water at the Jal No. 4 Plant during the 2001 calendar year and the modeled results of existing and hypothetical ground water recovery wells. The documents also recommend changes to the sampling program and installation of additional recovery wells at the facility.

The recommendations contained in the above-referenced documents are approved on the condition that EPNG submit a work plan to the OCD by June 14, 2003 for the installation of the recommended additional recovery wells. The work plan shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office.

Please be advised that OCD approval does not limit EPNG to the proposed plan should the plan fail to adequately monitor or remediate contamination at the site, or if contamination exists which is outside the scope of the plan. In addition, OCD approval does not relieve EPNG of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

March 10, 2003

Mr. Scott T. Pope
El Paso Natural Gas Company
614 Reilly Ave.
Farmington, NM 87401

RE: SPILL REMEDIAL ACTION REPORT FOR CHLORIDE IMPACTED SOILS
CASE # GW-107R
JAL #4 PLANT
LEA COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Natural Gas Company's (EPNG) November 26, 2002 "REMEDIAL ACTION REPORT FOR CHLORIDE IMPACTED GROUNDWATER SPILL AT THE JAL NO. 4 GAS PLANT LOCATED IN LEA COUNTY, NEW MEXICO". This document contains the results of EPNG's remediation of contaminated soil from a November 28, 2001 flowline spill of chloride contaminated ground water associated with the Jal No. 4 Plant ground water remediation system. The document also requests final approval of the remedial actions and recommends no further remedial actions related to the spill.

The soil remedial actions conducted are satisfactory. The above-referenced requests and recommendations are approved. Please be advised that OCD approval does not relieve EPNG of responsibility if remaining contaminants are found to pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve EPNG of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor

elpaso

Via Federal Express

November 26, 2002

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: Remedial Action Report for Chloride Impacted Groundwater Spill at the Jal No. 4 Gas Plant Located in Lea County, New Mexico

Dear Mr. Olson:

El Paso Natural Gas Company (EPNG) hereby submits the enclosed "Remedial Action Report for Chloride Impacted Soil Jal No. 4 Gas Plant Lea County, New Mexico". The above mentioned report details the remedial action performed October 21through 29, 2002. Based on the conclusion that remediation objectives were met, EPNG recommends no further action at the spill area.

EPNG requests written approval of the Remedial Action Report and EPNG's recommendation of no further action in the spill area. If you have any questions concerning the Remedial Action Report, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Chris Williams, NMOCD, Hobbs - w / enclosures; **Via Federal Express**
Mr. Jimmy Doom, Landowner - w / enclosures
Mr. Darrell Campbell, EPNG - w / enclosures
Mr. Buddy Richardson, ABI - w / o enclosures
Mr. Ed Nichols, EPNG – ROW - w / o enclosures
Jal 4 file - w / enclosures

Olson, William

From: Pope, Scott [Scott.Pope@ElPaso.com]
Sent: Monday, October 14, 2002 1:40 PM
To: 'Bill Olson'
Cc: 'Buddy Richardson'; Campbell, Darrell; Nichols, Edwin O.; Towe, Roger; Lesniak, Kim
Subject: Remediation at Jal #4

Bill,
Pursuant to our Phone conversation on October 9, 2002, we have finally come to terms on access with the land owner at the spill site of remediation water near RW-1 at the Jal #4 project site. As we discussed the land owner has requested that the chloride impacted soils be transport to Becky Jo Doom's land farm and the back fill will be from her barrow pit as well. El Paso Natural Gas Company (EPNG) is planning to comply with the request pending confirmation of proper permitting and background sampling of the barrow soils. The Doom's have also requested that the site not be reseeded until spring. Given the fact that access to perform the remediation was just obtained, we will not be able to meet the October 31, 2002 deadline for the remdiation report. As we discussed November 30, 2002 should be attainable baring any unforeseen difficulties with the remediation effort. We are hoping to mobilize some time during the week of October 21st or 28th. I will let you know as soon as we have a firm date.

If you have any questions regarding the change in schedule or scope of work, please call.

Thanks,

Scott T. Pope P.G.
Senior Environmental Scientist
Environmental Remediation Department
(505) 599-2124
(505) 599-2119 Fax

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 30, 2002

CERTIFIED MAIL
RETURN RECEIPT NO. 7001-1940-0004-7923-0483

Mr. Scott T. Pope
El Paso Natural Gas Company
614 Reilly Ave.
Farmington, NM 87401

RE: SPILL REMEDIAL ACTION PLAN FOR CHLORIDE IMPACTED SOILS
CASE # GW-107R
JAL #4 PLANT
LEA COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Natural Gas Company's (EPNG) June 12, 2002 "REMEDIAL ACTION PLAN FOR CHLORIDE IMPACTED GROUNDWATER SPILL AT THE JAL NO. 4 GAS PLANT LOCATED IN LEA COUNTY, NEW MEXICO". This document contains EPNG's work plan for remediation of contaminated soil from a November 28, 2001 flowline spill of chloride contaminated ground water associated with the Jal No. 4 Plant ground water remediation system.

The above-referenced work plan is approved with the following conditions:

1. All final excavation bottom and backfill soil samples taken for laboratory analysis shall also be analyzed for concentrations of chloride.

2. All samples shall be obtained and analyzed using EPA approved methods and quality assurance/quality control (QA/QC) procedures.

3. The final closure report shall be submitted to the OCD Santa Fe Office by October 31, 2002 with a copy provided to the OCD Hobbs District Office. The report shall contain:

   a. A description of the remediation activities which occurred including conclusions and recommendations.

   b. A map showing the location of the release, sample locations, excavations pipelines, monitor wells, private water wells and any other pertinent site features.

   c. Summary tables of all soil sampling results and copies of all laboratory analytical data sheets and associated QA/QC data.

   d. The disposition of all wastes generated.

4. EPNG shall notify the OCD at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit EPNG to the proposed work plan should the plan fail to remediate contamination at the site, or if contamination exists which is outside the scope of the plan. In addition, OCD approval does not relieve EPNG of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 30, 2002

CERTIFIED MAIL
RETURN RECEIPT NO. 7001-1940-0004-7923-0483

Mr. Scott T. Pope
El Paso Natural Gas Company
614 Reilly Ave.
Farmington, NM 87401

RE: ANNUAL REMEDIATION REPORT
CASE # GW-107R
JAL #4 PLANT
LEA COUNTY, NEW MEXICO

Dear Mr. Pope:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Natural Gas Company's (EPNG) February 14, 2002 "REPORT SUBMITTAL, 2001 ANNUAL GROUNDWATER REMEDIATION REPORT, JAL NO. 4 PLANT, LEA COUNTY, NEW MEXICO". This document contains the results of EPNG's remediation and monitoring of contaminated ground water at the Jal No. 4 Plant during the 2001 calendar year and recommends changes to the sampling program.

The recommended changes to the ground water sampling and monitoring program, as contained in the above-referenced document, are approved.

Please be advised that OCD approval does not limit EPNG to the proposed work plan should the plan fail to adequately monitor contamination at the site, or if contamination exists which is outside the scope of the plan. In addition, OCD approval does not relieve EPNG of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor

elpaso

Certified Mail: #7001 1940 0003 1553 8698

RECEIVED

JUN 17 2002

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

June 12, 2002

Mr. William C. Olson
New Mexico Oil Conservation Division
1220 St. Francis Dr.
Santa Fe, NM 87504

RE: Remedial Action Plan for Chloride Impacted Groundwater Spill at the Jal No. 4 Gas Plant Located in Lea County, New Mexico

Dear Mr. Olson:

El Paso Natural Gas Company (EPNG) hereby submits the enclosed "Remedial Action Plan for Chloride Impacted Soil Jal No. 4 Gas Plant Lea County, New Mexico" for your approval. The above mentioned report is in response to the chloride impacted groundwater spill that resulted from a frozen discharge line on a recovery well located at the Jal No. 4 site. The enclosed plan details the proposed remediation of the soil impacted by the spill.

EPNG requests written approval of the Remedial Action Plan so work can begin as soon as possible. If you have any questions concerning the Remedial Action Plan, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Chris Williams, NMOCD, Hobbs - w / enclosures; **Certified Mail # 7001 1940 0003 1553 8681**
Mr. Buddy Richardson, ABI - w / o enclosures
Mr. Darrell Campbell, EPNG - w / o enclosures
Mr. Ed Nichols, EPNG – ROW - w / o enclosures
Jal 4 file - w / enclosures

El Paso Corporation
614 Reilly Avenue
Farmington, New Mexico 87401

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-107) – Sid Richardson Energy Services, Co., Mr. Wayne J. Farley, 201 Main Street, Suite 3000, Fort Worth, Texas 76102-3131, has submitted a discharge plan renewal application for their Jal #4 Compressor Station located in the SE/4 of Section 31, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored on site in closed top bermed tanks. Groundwater most likely to be affected by an accidental discharge is at a depth of 105 feet with a total dissolved solids concentrations of approximately 331 mg/l. The discharge plan addresses how spill, 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 4:00 p.m., Monday thru 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. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 20th day of March, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

for LORI WROTENBERY, Director

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-107) – Sid Richardson Energy Services, Co., Mr. Wayne J. Farley, 201 Main Street, Suite 3000, Fort Worth, Texas 76102-3131, has submitted a discharge plan renewal application for their Jal #4 Compressor Station located in the SE/4 of Section 31, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored on site in closed top bermed tanks. Groundwater most likely to be affected by an accidental discharge is at a depth of 105 feet with a total dissolved solids concentrations of approximately 331 mg/l. The discharge plan addresses how spill, 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 4:00 p.m., Monday thru 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. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 20th day of March, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

for LORI WROTENBERY, Director

SID RICHARDSON
ENERGY SERVICES CO. - JAL

201 MAIN STREET, SUITE 3000
FORT WORTH, TEXAS 76102-3131
817 / 390-8685
FAX 817/339-7394
EMAIL: rlgawlik@sidrich.com

ROBERT L. GAWLIK
Manager, Environmental
Health & Safety

March 15, 2002
RLG-22-02

Certified Mail – Return Receipt
7000 1670 0005 7285 7940

Mr. Roger Anderson
Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Subject: Groundwater Discharge Plan GW-107
Jal #4 Compressor Station
Application for Renewal

Dear Mr. Anderson:

On June 23, 2002, Discharge Plan GW-107 as approved for our Jal #4 Compressor Station, will expire. In accordance with New Mexico Water Quality Control Commission regulations, a Renewal Application of the referenced discharge plan is being submitted for your review.

Please find attached two copies of the Groundwater Discharge Plan (GW-107) Renewal Application for the Jal #4 Compressor Station located in Lea County, New Mexico. Also attached, is the revised discharge plan for the site and the filing fee check (#800314) for the sum of $740.00.

Revisions to the plan include the change of the Company name and responsible parties. Sid Richardson Gasoline Co. has changed its name to Sid Richardson Energy Services Co. - Jal. Also, there were a few minor changes made within the body of the attached plan.

If there are any questions, please do not hesitate to give me a call at the number indicated above.

Sincerely,

]

Robert L. Gawlik
Manager, Environmental Health and Safety

C: MRR/WJF/CPO/HH
David Maness - Jal #3 Plant Manager
Chris Williams @
New Mexico Oil Conservation Division
Hobbs District Office
1625 French Drive
Hobbs, New Mexico 88240

SID RICHARDSON
ENERGY SERVICES CO.

201 MAIN STREET, SUITE 3000
FORT WORTH, TEXAS 76102-3131
817 / 390-8685
FAX 817/339-7394
EMAIL: rlgawlik@sidrich.com

ROBERT L. GAWLIK
Manager, Environmental
Health & Safety

CERTIFIED MAIL – Return Receipt
7000 0520 0024 3418 7232

May 29, 2002
RLG-39-02

New Mexico Oil Conservation Division
Environmental Bureau
Attn: Roger Anderson
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Storm Water Run-Off Plan
Jal #4 Compressor Station GW-107

Dear Mr. Anderson:

This letter is in response to the Discharge Plan Renewal Approval GW-107. In the letter of approval the Oil Conservation Division (OCD) requested that Sid Richardson Energy Services Co. submit a storm water run-off plan for approval by OCD.

Oil and gas exploration and production facilities are exempt from the Clean Water Act (CWA) Storm Water Phase I regulations under most conditions. Specifically this facility is exempt from these regulations and as such has determined that it is not necessary to apply to the Environmental Protection Agency for a Multi-Sector General Permit nor is it necessary to develop a Storm Water Pollution Prevention Plan under the CWA.

At this facility storm water does not come into contact with any sources that may contaminate the storm water runoff except for the rain that falls onto the compressor engines that are not under cover. Storm water that falls onto these compressors is collected either on the compressor skids or is contained within the curbed concrete compressor pads and does not run-off from the facility.

If you have any questions about this application determination please contact me.

Sincerely,

Robert L. Gawlik

cc: MRR/WJF/CPO/HH
David Maness

SID RICHARDSON
ENERGY SERVICES CO. - JAL

201 MAIN STREET, SUITE 3000
FORT WORTH, TEXAS 76102-3131
817 / 390-8685
FAX 817/339-7394
EMAIL: rlgawlik@sidrich.com

ROBERT L. GAWLIK
Manager, Environmental
Health & Safety

May 31, 2002
RLG-38-02

Certified Mail – Return Receipt
7000 0520 0024 3418 7225

Mr. Roger Anderson
Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Subject: Groundwater Discharge Plan GW-107
Jal #4 Compressor Station
Renewal fee balance

Dear Mr. Anderson:

Please find attached the Groundwater Discharge Plan (GW-107) Renewal Application fee balance for the Jal #4 Compressor Station located in Lea County, New Mexico. The filing fee and flat rate for this site is set at $1,800.00 of which $740.00 was paid in March 2002. The flat rate fee balance due is for the amount of $1,060.00. Attached is check (#800340) for the sum of $1,060.00.

If there are any questions, please do not hesitate to give me a call at the number indicated above.

Sincerely,

Robert L. Gawlik
Manager, Environmental Health and Safety

cc: MRR/WJF/CPO/HH
David Maness - Jal #3 Plant Manager
Chris Williams @
New Mexico Oil Conservation Division
Hobbs District Office
1625 French Drive
Hobbs, New Mexico 88240

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

May 22, 2002

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 7853

Mr. Wayne J. Farley
Sid Richardson Energy Services Co.
201 North Main Street
Fort Worth, Texas 76102

RE: Discharge Plan Fees
Jal #4 Compressor Station GW-107
Lea County, New Mexico

Dear Mr. Farley:

The New Mexico Oil Conservation Division (OCD) is in receipt of your letter, dated May 13, 2002, regarding the fees required for the above captioned facility. A $100.00 filing fee is required together with a flat fee in an amount that is determined by the horsepower rating at the site. The correct flat fee amount for this facility is $1,700.00. This amount is required, under the new fee schedule (copy enclosed), for facilities with horsepower rating greater than 1001 horsepower. The renewal discharge plan application indicates that the total site horsepower rating is 11,450. The amount shown for the flat fee in the approved discharge plan renewal was in error.

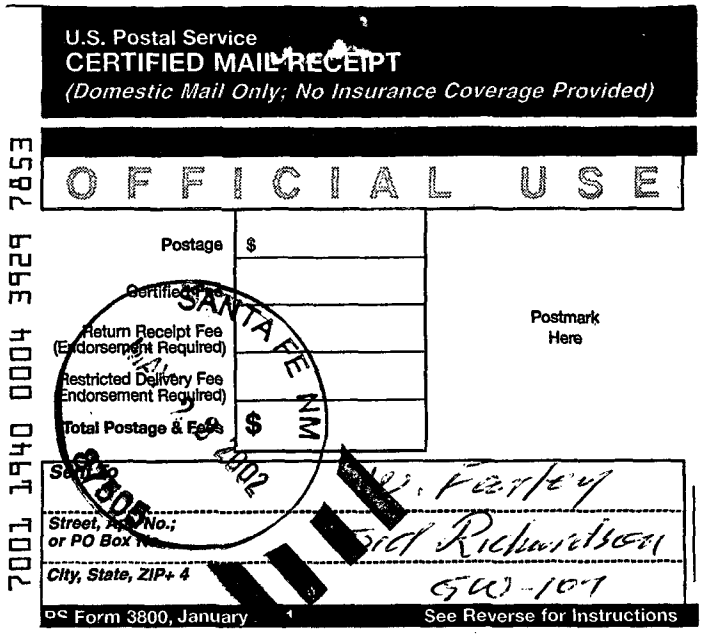
The OCD records and your letter of May 13, 2002 indicates that a total amount paid by Sid Richardson Energy Services Co. is $740.00. The total amount required for renewal of this facility is $100.00 filing fee plus a flat fee of 1,700.00 for a total of $1,800.00. With $100.00 for the filing fee credited from the $740.00 the balance due is $1,700.00 less $640.00 or $1,060.00. Please remit the balance to **Water Quality Management Fund** c/o OCD, Santa Fe office.

The OCD regrets the confusion created by the error in the approved discharge plan document. If you have any questions contact me at (505) 476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Environmental Bureau
Oil Conservation Division

Enclosure


U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
OFFICIAL USE
Postage
$
Certified Fee
Return Receipt Fee
(Endorsement Required)
Restricted Delivery Fee
(Endorsement Required)
Total Postage & Fees
$
Postmark
Here
SANTA FE NM
MAY 30 2002
87505
Street, Apt. No.;
or PO Box No.
City, State, ZIP+ 4
Fred Richardson
GW-107
7001 1940 0004 3929 7853
See Reverse for Instructions

SID RICHARDSON
ENERGY SERVICES CO. - JAL

201 MAIN STREET, SUITE 3000
FORT WORTH, TEXAS 76102-3131
817 / 390-8685
FAX 817/339-7394
EMAIL: rlgawlik@sidrich.com

ROBERT L. GAWLIK
Manager, Environmental
Health & Safety

May 13, 2002
RLG-34-02

Certified Mail – Return Receipt
7000 0520 0024 3418 7140

Mr. Roger Anderson
Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Subject: Groundwater Discharge Plan GW-107
Jal #4 Compressor Station
Discharge Plan Approval Conditions

Dear Mr. Anderson:

Please find attached one signed copy of the Discharge Plan Approval Conditions for the Jal #4 (GW-107) Compressor Station located in Lea County, New Mexico. Please note that a copy of this letter has also been sent to Mr. Chris Williams in the Hobbs OCD office.

In your letter dated May 2, 2002, in which you indicated that plan GW-107 was approved, you also indicated that the application fee was received and the filing fee was not received. Please find attached, a copy of the letter sent concerning the renewal application, a copy of the application/filing fee check (#800314) with stub for the sum of $740.00 and a copy of the cancelled check. My understanding was that the fees had increased is the reason for the overpayment of $240.00 to the OCD. Please reimburse Sid Richardson Gas - Jal the overpayment amount.

If there are any questions, please do not hesitate to give me a call at the number indicated above.

Sincerely,

Robert L. Gawlik
Manager, Environmental Health and Safety

c: MRR/WJF/CPO/HH
David Maness - Jal #3 Plant Manager
Chris Williams @
New Mexico Oil Conservation Division
Hobbs District Office
1625 French Drive
Hobbs, New Mexico 88240

SID RICHARDSON
ENERGY SERVICES CO. - JAL

201 MAIN STREET, SUITE 3000
FORT WORTH, TEXAS 76102-3131
817 / 390-8685
FAX 817/339-7394
EMAIL: rlgawlik@sidrich.com

ROBERT L. GAWLIK
Manager, Environmental
Health & Safety

March 15, 2002
RLG-22-02

Certified Mail – Return Receipt
7000 1670 0005 7285 7940

Mr. Roger Anderson
Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Subject: Groundwater Discharge Plan GW-107
Jal #4 Compressor Station
Application for Renewal

Dear Mr. Anderson:

On June 23, 2002, Discharge Plan GW-107 as approved for our Jal #4 Compressor Station, will expire. In accordance with New Mexico Water Quality Control Commission regulations, a Renewal Application of the referenced discharge plan is being submitted for your review.

Please find attached two copies of the Groundwater Discharge Plan (GW-107) Renewal Application for the Jal #4 Compressor Station located in Lea County, New Mexico. Also attached, is the revised discharge plan for the site and the filing fee check (#800314) for the sum of $740.00.

Revisions to the plan include the change of the Company name and responsible parties. Sid Richardson Gasoline Co. has changed its name to Sid Richardson Energy Services Co. - Jal. Also, there were a few minor changes made within the body of the attached plan.

If there are any questions, please do not hesitate to give me a call at the number indicated above.

Sincerely,

Robert L. Gawlik
Manager, Environmental Health and Safety

C: MRR/WJF/CPO/HH
David Maness - Jal #3 Plant Manager
Chris Williams @
New Mexico Oil Conservation Division
Hobbs District Office
1625 French Drive
Hobbs, New Mexico 88240

Affidavit of Publication

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

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting 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

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of March 27, 2002 and ending with the issue of March 27, 2002.

And that the cost of publishing said notice is the sum of $49.72 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 27th day of March 2002

Debbie Schilling

Debbie Schilling
Notary Public, Lea County, New Mexico
My Commission Expires June 22, 2002

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 the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-107) - Sid Richardson Energy Services, Co., Mr. Wayne J. Farley, 201 Main Street, Suite 3000, Fort Worth, Texas 76102-3131, has submitted a discharge plan renewal application for their Jal #4 Compressor Station located in the SE/4 of Section 31, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored on site in closed top bermed tanks. Groundwater most likely to be affected by an accidental discharge is at a depth of 105 feet with a total dissolved solids concentration of approximately 331 mg/l. The discharge plan addresses how spill, 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 4:00 p.m., Monday thru 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. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 20th day of March, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

SEAL

Published in the Lovington Daily Leader March 27, 2002.

THE SANTA FE
NEW MEXICAN
Founded 1849

NM OIL CONSERVATION DIVISION

OIL CONSERVATION DIV.
2002 APR 4 AM 11:55

AD NUMBER: 253599 ACCOUNT: 56689
LEGAL NO: 71147 P.O.#: 02199000249
178 LINES 1 time(s) at $ 78.47
AFFIDAVITS: 5.25
TAX: 5.23
TOTAL: 88.95

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, K. Voorhees being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #71147 a copy of which is hereto attached was published in said newspaper 1 day(s) between 04/02/2002 and 04/02/2002 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 2 day of April, 2002 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ K. Voorhees
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
2 day of April A.D., 2002

Notary Janet L. Montoya

Commission Expires 12/30/03

OFFICIAL SEAL
Janet L. Montoya
NOTARY PUBLIC - STATE OF NEW MEXICO
MY COMMISSION EXPIRES 12/30/03

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to the New Mexico Water Quality Control Commission Regulations, the following discharge plan application has been submitted to the Director of the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-107) - Sid Richardson Energy Services, Co., Mr. Wayne J. Farley, 201 Main Street, Suite 3000, Fort Worth, Texas 76102-3131, has submitted a discharge plan renewal application for their Jal #4 Compressor Station located in the SE/4 of Section 31, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored on site in closed top bermed tanks. Groundwater most likely to be affected by an accidental discharge is at a depth of 105 feet with a total dissolved solids concentration of approximately 331 mg/l. The discharge plan addresses how spill, 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 4:00 p.m., Monday thru 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. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 20th day of March, 2002.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

LORI WROTENBERY, Director
Legal #71147
Pub. April 2, 2002

Ford, Jack

From: Martin, Ed
Sent: Tuesday, March 26, 2002 7:51 AM
To: Lovington Daily Leader
Cc: Ford, Jack; Anaya, Mary
Subject: Legal Notice

Please publish the attached legal notice, one time only, on or before Tuesday, April 2, 2002.
Upon publication, forward to this office:

1. Publisher's affidavit
2. Invoice. Our purchase order number is **02199000250**

If you have any questions, please contact me.
Thank you.

Publ. Notice
GW-107.doc

Ed Martin
Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

Ford, Jack

From: Martin, Ed
Sent: Tuesday, March 26, 2002 7:46 AM
To: Santa Fe New Mexican (E-mail)
Cc: Ford, Jack; Anaya, Mary; Bruce S. Garber; Chris Shuey; Colin Adams; Director, State Parks; Don Neeper; Gerald R. Zimmerman; Jack A. Barnett; James Bearzi; Jay Lazarus; Lee Wilson & Associates; Marcy Leavitt; Mike Matush; Mike Schultz; Ned Kendrick; Regional Forester; Ron Dutton; Sectretary, NMED
Subject: Legal Notices

Please publish the attached legal notices, one time only, on or before Tuesday, April 2, 2002.
Upon publication, forward to this office:

1. Publisher's affidavit
2. Invoice. Our purchase order number is **02199000249**

If you have any questions, please contact me.
Thank you.

Publ. Notice GW-120,281.doc

Publ. Notice GW-107.doc

Ed Martin
Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: (505) 476-3492
Fax: (505) 476-3471

Ford, Jack

From: Ford, Jack
Sent: Friday, March 22, 2002 3:08 PM
To: Martin, Ed
Subject: Public Notice for GW-107

107PUB.DOC

Atkins Benham

ENVIRONMENTAL DIVISION FORMERLY ROBERTS / SCHORNICK & ASSOCIATES

TULSA OFFICE
2488 East 81st Street
Suite 7000
Tulsa, OK 74137
telephone 918/496-0059
fax 918/496-0132

February 14, 2002

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
State of New Mexico
Energy, Minerals and Natural resources Department
Oil Conservation Division
1220 South St Francis Dr
Santa Fe, New Mexico 87505

Re: Report Submittal
2001 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Olson:

Atkins Benham, Inc. Environmental Division (ABI), has been retained by El Paso Corporation (EPC) to compile the 2001 Annual Groundwater Remediation Report (Report) for the Jal No. 4 Plant in Lea County, New Mexico. Please find enclosed one (1) copy of this Report. As directed, one (1) copy of this Report is also being submitted to the Hobbs District Supervisor.

If you have any questions or comments concerning this Report, please do not hesitate to contact Scot Pope with EPC/Farmington at (505) 599-2124, or myself at (918) 496-0059.

Sincerely,
Atkins Benham, Inc, Environmental Division

for George H. Richardson, P.G.
Senior Project Manager

GHR/pps

xc: Darrell G. Campbell (EPNG/El Paso)
Marc R. Ferris (EPC/Houston)(w/o encl)
Scott Pope (EPC/Farmington)
Bob St. John (EPNG/Midland)(w/o encl)
Christopher J. Williams (NMOCD/Hobbs)

Olson, William

From: Brisbin, Steven D. [Steven.Brisbin@ElPaso.com]
Sent: Wednesday, January 09, 2002 9:22 AM
To: William C. Olson (E-mail)
Cc: Darrell Campbell (E-mail); Scott Pope (E-mail); Robbin Spoon (E-mail)
Subject: Jal #4 Monitor Wells

Listed below is the schedule for sampling wells at Jal #4 Plant. If a problem should arise that would change this schedule I will notify you. If you have any question's please call me at (915)333-5511 or (915) 638-6330.
The week of February 19, 2002
The week of May 6, 2002
The week of August 5, 2002
The week of October 21, 2002

Thank You, Steve Brisbin

District I - (505) 393-6161
P. O. Box 1940
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico

Energy Minerals and Natural Resources Departments
Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-141
Originated 2/13/97

Submit 2 Copies to Appropriate District Office in accordance with Rule 116

Release Notification and Corrective Action

OPERATOR

X Initial Report ✍ Final Report

Name	Contact
El Paso Natural Gas	Scott Pope
Address	Telephone No.
614 Reilly Ave, Farmington, NM 87401	(505) 599-2124
Facility Name	Facility Type
Jal 4 Remediation Project	Pump and Treat Remediation system

Surface Owner	Mineral Owner	Lease No.
Jimmy and Becky Dooms	N/A	N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	5	24 S	37 E		600 FNL		1980 FWL	Lea

NATURE OF RELEASE

Type of Release Frozen valve on discharge line ruptured spilling, water high in chlorides.	Volume released approximately 71 barrels	Volume Recovered None
Source of Release Groundwater remediation pumping well discharge line form ENSR-2. ENSR-2 line ties to line from RW-2, which goes from RW-2 under Highway to disposal well.	Date and Hour of Occurrence 11/28/01 Approx. 12:00 midnight	Date and Hour of Discovery 11/28/01, 12:00 noon
Was Immediate Notice Given? X Yes ✍ No ✍ Not Required	If YES, To Whom? Bill Olson	
By Whom? Scott Pope	Date and Hour 11/28/01 approximately 3:00 pm	
Was a Watercourse Reached? ✍ Yes X No	If YES, Volume Impacting Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Valve on discharge line froze and ruptured at RW-2. Water being removed from ENSR-2 escaped at the ruptured valve on RW-2. Valve and line have been repaired. We are getting costs for the installation of electrical supply to provide a heat source to keep lines from freezing in the future. We are also looking into installing back flow preventers in discharge lines.

Describe Area Affected and Cleanup Action Taken.*
Area affected by spill was approximately 8-10 feet wide by 30 – 40 feet long. See attached pictures of affected area. Soil samples were collected for TPH and chlorides. Remedial action will depend on results of soil samples. Sample results are expected within the next week.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.)*
Freezing temperatures, snowy and windy.

I hereby certify that the information given is true and correct to the best of my knowledge and belief:

Signature: Scott T. Pope

Printed Name: Scott T. Pope

Title: Senior Environmental Scientist

Date: 12/7/01 Phone: (505) 599-2124

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date:	Expiration Date:
Conditions of Approval:	Attached: ✍

*Attach Additional Sheets If Necessary

IMPORTANT MESSAGE

FOR

DATE 11/28 TIME 2:48 A.M. P.M.

M Scott [illegible]

OF

PHONE 599 - 2124

AREA CODE NUMBER EXTENSION

☐ FAX

☐ MOBILE

AREA CODE NUMBER TIME TO CALL

TELEPHONED		PLEASE CALL	
CAME TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		RUSH	
RETURNED YOUR CALL		SPECIAL ATTENTION	

MESSAGE

Jul [illegible] Fly line broke (froze)
spilled [illegible] GW
on [illegible] property,
8' [illegible] 30' long

SIGNED Notified [illegible]
will collect samples BTEX, TPH, Cl

TOPS FORM 3002P
LITHO IN U.S.A.

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

December 31, 2001

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 3929 6993

Mr. Wayne J. Farley
Sid Richardson Energy Services, Ltd.
201 Main Street, Suite 3000
Fort Worth, Texas 76102

RE: Discharge Plan Renewal Notice for the Sid Richardson Energy Services, Ltd. Facility

Dear Mr. Farley:

Sid Richardson Energy Services, Ltd. has the following discharge plan which expires in 2002.

GW-107 expires 6/23/2002 – Jal #4 Compressor Station

WQCC 3106.F. If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 20NMAC 6.2.3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $100.00. Renewal discharge plans require a flat fee equal to the flat fee schedule for gas processing facilities dependent upon the horsepower rating.

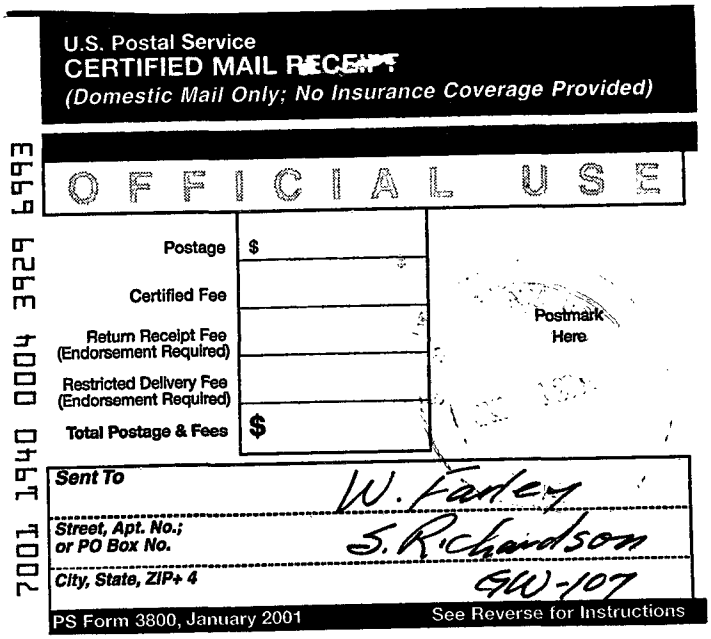
Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office. Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Hobbs District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** A complete copy of the regulations is also available on NMED's website at **www.nmenv.state.nm.us**).

If any of the above-sited facility no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Sid Richardson Energy Services, Ltd. has any questions, please do not hesitate to contact Mr. Jack Ford at (505) 476-3489.

Sincerely,

Roger C. Anderson
Oil Conservation Division

cc: OCD Hobbs District Office



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

January 8, 2001

Sid Richardson Gasoline Company
Attn: Randall Dunn
P.O. Box 1226
Jal, New Mexico 88252

Re: Request to move contaminated soil
Dated January 3, 2001
Sec 2-T25S-R37E
Site # 00022

Dear Mr. Dunn:

The New Mexico Oil Conservation Division (NMOCD) is in receipt of Sid Richardson Gasoline Company's (Sid Richardson) request to move contaminated soil dated January 3, 2001. Chris Williams, District I Supervisor, granted approval to move contaminated soil from section 2, Township 25 South, and Range 37 East, to section 31, Township 23 South, and Range 37 East where the depth to groundwater increases to over 100 feet. The NMOCD has the following conditions placed on the above approval given by Chris Williams:

1. Sid Richardson sampled the following: 00022 Rock Stockpile Blend, Soil Stockpile Composite, 60/40 Mix, and 00022 Blend #4 all collected on December 28, 22, 29 (respectively) of 2000 for BTEX levels. The levels reported on the above referenced location are above the levels required in the New Mexico Guidelines. This confirmation shall be performed with laboratory analysis.
2. Sid Richardson shall be aware that this is only a one time approval to haul contaminated soil to Sid Richardson's Plant # 4. If Sid Richardson hauls more contaminated soil to the Plant # 4, Sid Richardson shall obtain a 711 permit, for a commercial landfarm in accordance with Rule 711.
3. Sid Richardson shall submit, to the NMOCD District I Hobbs Office, a closure report by February 16, 2001.

Please be advised that OCD approval and request for more information does not limit Sid Richardson to the proposed work if the plan fails to adequately remediate or determine the extent of contamination related to Sid Richardson's activities, or if contamination exists which is outside the scope of the plan. In addition, OCD approval does not relieve Sid Richardson of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact Donna Williams at (505) 393-6161 ext. 113.
Sincerely,

Donna Williams

Donna Williams
Environmental Engineer Specialist
cc: Roger Anderson-Environmental Bureau Chief
Chris Williams - District I Supervisor

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 28, 2000

CERTIFIED MAIL 7099 3220 0002 3948 3373
RETURN RECEIPT REQUESTED

Sid Richardson Gasoline Company
Attn: Randall Dunn
P.O. Box 1226
Jal, New Mexico 88252

Re: Sam Cooper Ranch Remediation Project

Dear Mr. Dunn:

The New Mexico Oil Conservation Division (NMOCD) has become aware that Sid Richardson Gasoline Company (Sid Richardson) is remediating past spill sites and hauling and disposing of contaminated soil into an un-permitted landfarm, without the approval of the NMOCD. The NMOCD contacted Sid Richardson on December 27, 2000, concerning this matter. Sid Richardson requested information as to the NMOCD's authority of notification and approval of their activities.

Pursuant to NMOCD Rule 116.D CORRECTIVE ACTION: *The responsible person must complete Division approved corrective action for releases which endanger public health or the environment. Releases will be addressed in accordance with a remediation plan submitted to and approved by the Division or with an abatement plan submitted in accordance with Rule 19 (19 NMAC 15.A.19).* The NMOCD requires that Sid Richardson submit a remediation plan for these spill remediation sites that includes:

1. The status of the wastes at each site. Sid Richardson must demonstrate that all waste would be Exempt or is classified as RCRA Non-Hazardous per EPA CFR 40 part 261.

2. A legal survey and plot plan for each proposed spill remediation site(s). Include on each plot plan the location of all spills, excavated areas, buried pipelines and other significant surface equipment or features.

3. All prior site assessment and closure information conducted at each proposed remediation site(s) including copies of all laboratory analytical results demonstrating that the extent of contamination has been delineated, the contamination has been remediated and information on how Sid Richardson determined the appropriate soil remediation levels for TPH and BTEX at each site.

4. A proposed plan for completing an investigation of the extent of contamination and remediation for each site.

In addition, the NMOCD has the following requirements and requests for information regarding the landfarm sites for remediation of contaminated soils:

1. Please provide a legal survey and plot plan for each landfarm site(s). Include on each plot plan the physical location of the landfarms, the location and/or distance to any buried pipeline and any other significant surface equipment or features.

2. Please provide a list of the origin and type of wastes placed in each landfarm site and information on how the landfarms are being operated.

3. Please provide copies of all laboratory analytical results conducted to date of soils from each landfarm site

4. Sid Richardson shall not cover or close any landfarm site without first notifying the NMOCD District office.

Sid Richardson is hereby notified that, pursuant to NMOCD Rule 116, Sid Richardson is required to submit for NMOCD approval a remediation plan or an abatement plan for any future sites and/or cleanup projects.

If you have any questions, please contact Donna Williams at (505) 393-6161 ext. 113.

Sincerely,

Chris Williams

Chris Williams - District I Supervisor

cc: Roger Anderson-Environmental Bureau Chief
Donna Williams-Environmental Engineer Specialist
Martyne Kieling-Environmental Geologist
File

Atkins Benham

ENVIRONMENTAL DIVISION FORMERLY ROBERTS / SCHORNICK & ASSOCIATES

TULSA OFFICE
2488 East 81st Street
Suite 610
Tulsa, OK 74137
telephone 918/496-0059
fax 918/496-0132

November 28, 2001

Mr. Roger Anderson
Bureau Chief, Environmental Bureau
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Mr. Christopher Williams
District Supervisor, Hobbs District
Oil Conservation Division
1625 French Dr
Hobbs, NM 88240

FOIA Request
Jal #4 Gas Plant Sections 32 and 33 T23S-R37E and Sections 5 and 6 T24S-R37E
Lea County, New Mexico

Dear Messrs. Anderson and Williams:

In accordance with the Freedom of Information Act (FOIA) found in 5 U.S.C. Section 552, as amended, Atkins Benham, Inc. Environmental Division (ABI) seeks to identify all records within the possession of the New Mexico Oil Conservation Division (OCD) for the Jal #4 Gas Plant located in Lea County, New Mexico. ABI requests to review any and all records that may be present within the files of the OCD.

The Jal #4 Gas Plant facility is located approximately 11 miles north of Jal, New Mexico on Hwy 18.

ABI requests a complete and thorough search of all filing systems and locations for all records pertaining to and/or captioned as Jal #4 Gas Plant. These records could also be found under the past and/or current operators of the plant including El Paso Natural Gas Corporation and Christie Gas Corporation.

ABI will guarantee payment of fees for research and/or reproduction/shipping; ABI's Taxpayer Identification Number (TIN) is 73-0790103. If you have any questions or need additional information, please call me at 918/496-0059 extension 188. Correspondence should be directed to me at the address shown above.

Sincerely,

Atkins Benham, Inc., Environmental Division

Patrick P. Steffanelli, P.E.
Project Engineer

H:\1997\97171\9717101\CORRESP\FOIA.doc

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

FAX

TO: Bill Olson

FROM: Paul Sheeley
Energy, Minerals and Natural Resources Department,
Oil Conservation Division

RE: Record search letter per (phone conv.)

DATE: 12-27-01

Hi Bill,

Letter follows.

Thanks
Paul

_____ Pages (Including Transmittal)

Oil Conservation Division • 1625 French Drive • Hobbs, New Mexico 88240
Phone: (505) 393-6161 • Fax (505) 393-0720 • http://www.emnrd.state.nm.us

Atkins Benham

ENVIRONMENTAL DIVISION FORMERLY ROBERTS / SCHORNICK & ASSOCIATES

TULSA OFFICE
2488 East 81st Street
Suite 6100
Tulsa, OK 74137
telephone 918/496-0059
fax 918/496-0132

February 13, 2001

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Report Submittal
2000 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Olson:

Atkins Benham, Inc. Environmental Division (ABI), formerly Roberts/Schornick & Associates, Inc., has been retained by El Paso Corporation (EPC) to compile the 2000 Annual Groundwater Remediation Report (Report) for the Jal No. 4 Plant in Lea County, New Mexico. Please find enclosed one (1) copy of this Report. As directed, one (1) copy of this Report is also being submitted to the Hobbs District Supervisor.

If you have questions or comments concerning this Report, please do not hesitate to contact Gerry Garibay with EPC/Houston at (713) 420-3827, or myself at (918) 496-0059.

Sincerely,
Atkins Benham, Inc. Environmental Division

George H. Richardson, P.G.
Senior Project Manager

GHR/bem

xc: Darrell G. Campbell (EPNG/El Paso)
Marc R. Ferries (EPC/Houston)(w/o encl)
Gerry Garibay (EPC/Houston)
Tom J. Martinez (EPNG/Midland)(w/o encl)
Chris Williams (NM OCD/Hobbs)

H:\1997\97171\9717101\Corresp\L006.wpd

Olson, William
From: Brisbin, Steven D. [SMTP:Brisbin.Steven@EPEnergy.com]
Sent: Friday, February 02, 2001 1:04 PM
To: William C. Olson (E-mail)
Cc: Darrell Campbell (E-mail)
Subject: FW: JAL #4 MONITOR WELL SAMPLING

-----Original Message-----
)
Subject: JAL #4 MONITOR WELL SAMPLING

Mr Olson,

Listed below are the dates I have scheulde for sampling wells at Jal#4 Plant

Febuary 20-23, 2001
May 7-11, 2001
August 6-10, 2001
October 22-26, 2001

If I have to change these date for any reasons I will let you know.
Thank You, Steve Brisbin
(915)333-5511 (915)664-5074

Roberts/Schornick
& Associates, Inc.

February 14, 1999

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

environmental
consultants

2488 East 81st Street
Suite 610
Tulsa, OK 74137
918/496-0059
FAX 918/496-0132

A Benham Company

RE: Report Submittal
1999 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Olson:

Roberts/Schornick & Associates, Inc. (RSA) has been retained by El Paso Energy Corporation (EPEC) to compile the 1999 Annual Groundwater Remediation Report for the Jal No. 4 Plant in Lea County, New Mexico. Please find enclosed one (1) copy of this report. As you directed, a copy of this report is also being submitted to the Hobbs District Supervisor.

If you have questions or comments on this report, please do not hesitate to contact Gerry Garibay with EPEC/Houston at (713) 420-3827, or myself at (918) 496-0059.

Sincerely,
Roberts/Schornick & Associates, Inc.

George H. Richardson, P.G.
Senior Project Manager

GHR/me

xc: Darrell G. Campbell (EPNG/El Paso)
Marc R. Ferries (EPEC/Houston)(w/o encl)
Gerry Garibay (EPEC/Houston)
Tom J. Martinez (EPNG/Midland)(w/o encl)
Chris Williams (NM OCD/Hobbs)

H:\1997\97171\9717101\Corresp\L004.wpd

EL PASO NATURAL GAS

MEMORANDUM

TO: William C. Olson
FROM: Steven Brisbin

DATE: February 5,2000
PLACE: Technical Services Division

SUBJECT: JAL #4 MONITOR WELLS

Listed below is the schedule for sampling Jal#4 monitor wells. If a problem should arise that would change this schedule I will notify you. If you have any question's please call me at (915)333-5511 or (915) 664-5074.

FEBRUARY 22, 2000
MAY 8 THRU 12,2000
AUGUST 7, 2000
OCTOBER 23THRU 27,2000

Thank You, Steve Brisbin

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

August 18, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-698

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

RE: MONITORING WELL WORK PLAN
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Corporation's (EPEC) June 24, 1999 "MONITORING WELL INSTALLATION WORK PLAN, EPNG JAL NO. 4, LEA COUNTY, NEW MEXICO". This document contains EPEC's work plan for installation of an additional monitoring well to determine the extent of ground water contamination related to the Jal #4 gas plant.

The work plan for additional investigations as contained in the above referenced document is **approved.**

Please be advised that OCD approval does not limit EPEC to the proposed work plan should the investigation actions fail to adequately define the extent of contamination, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve EPEC of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor

EL PASO ENERGY

June 24, 1999

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Monitoring Well Installation Work Plan
EPNG Jal No. 4
Lea County, New Mexico

Dear Mr. Olson:

As requested in your letter dated April 26, 1999, EPEC is submitting for approval a work plan for installation of an additional off-site monitoring well adjacent to the Jal No. 4 site. EPEC is negotiating an access agreement with the landowner on whose property the monitoring well will be installed. Installation of the monitoring well will occur once OCD has approved the submitted work plan and the landowner has approved the access agreement.

Please contact me at (713) 420-3827, if you have questions or need additional information.

Sincerely,

Gerry Garibay
Principal Environmental Scientist
Environmental Remediation

Enclosure

cc: Chris Williams
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

PROJECT WORK PLAN

JAL No.4 FACILITY
LOCATED
NEAR JAL, NEW MEXICO

June 24, 1999

EL PASO NATURAL GAS COMPANY
P.O. Box 2511
Houston, Texas 77252-2511

TABLE OF CONTENTS

PROJECT WORK PLAN
Jal No. 4 Facility
Located Near Jal, New Mexico

1.0 INTRODUCTION

El Paso Natural Gas Company (EPNG) hereby submits this work plan to the New Mexico Oil Conservation Division (OCD) for the installation of an additional parameter monitoring well as part of the groundwater extraction, investigation and monitoring project at the Jal No. 4 Plant located approximately 10 miles north of Jal, New Mexico.

In 1989, EPNG detected a leak in the liner of a water-storage pond associated with the Jal No. 4 facility. The release consisted of high salinity water (brine) produced by the facility. At the request of the OCD, EPNG initiated a subsurface investigation of the leak in 1989. In response to this request, EPNG hired K.W. Brown & Associates, Inc. to perform a two-phased hydrogeologic study of the release. Based upon the results of these studies, a potential for off-site contamination was established; therefore, the OCD requested that EPNG further evaluate the potential vertical and horizontal extent of the contaminant plume. EPNG contracted Burlington Environmental Inc. and Philip Environmental Services Corporation to further evaluate and remediate the contaminant plume.

The eight reports, which have been prepared since the leak was discovered, are:

- Expanded Hydrogeology Study for the El Paso Natural Gas Company Jal 4 Facility (K.W. Brown & Associates, Inc., 1990);
- Expanded Hydrogeology Study for the El Paso Natural Gas Company Jal 4 Facility: Phase II (K.W. Brown & Associates, Inc., 1991);
- Terrain Conductivity Survey Report (Burlington Environmental Inc., 1992);
- Phase III Groundwater Study EPNG Jal No. 4 Plant (Burlington Environmental Inc., 1992);
- Phase IV Groundwater Study EPNG Jal No. 4 Plant (Philip Environmental Services Corporation., 1993);
- Jal No.4 Groundwater Delineation Report (Philip Environmental Services Corporation, 1996);
- 1997 Annual Groundwater Remediation Report EPNG Jal No. 4 (El Paso Natural Gas, 1998) and;
- 1998 Annual Groundwater Remediation Report EPNG Jal No. 4 (Roberts/Schornick and Associates, Inc., 1999)

According to K. W. Brown (1990), the principle water-bearing unit at the site is the Tertiary Ogallala Formation. The Ogallala unconformably overlies water-bearing red-bed sediments of the Dockum Group of the Triassic Chinle Formation. Groundwater at the site is unconfined. Locally, the saturated thickness of the Ogallala is approximately 60 feet and the potentiometric surface ranges from approximately 100 feet to 110 feet below surface. Based on February 1998 data, the groundwater gradient is approximately 0.002 ft/ft with a southeasterly flow direction.

2.0 WORK PLAN

EPNG proposes the following work plan.

2.1 Project Set-up

Work schedules and coordination between Christie Gas, EPNG, and an approved EPNG contractor. The contractor will be selected by EPNG.

2.2 Site Work

Fieldwork for this project will include installation of a groundwater monitoring well (MW-15), and continued groundwater monitoring. Other tasks include chemical analyses, evaluation of the data gathered, and reporting of the results.

2.2.1 Installation of Downgradient Monitoring Well

One off-site soil boring will be converted to a permanent monitoring well, MW-15. The approximate location of MW-15 is shown on the attached drawing. The soil boring will be completed using a truck mounted drill rig equipped with a hollow stem auger and split spoon sampling tool. The boring will be continuously sampled and logged by the on-site geologist. Soil samples will not be collected for laboratory analysis. The well casing will be 4 inches in diameter, flush threaded, schedule 40 PVC, with a 20 foot long 0.01 inch factory slotted screen. The screen for the well will be placed from approximately 150 to 170 feet below the ground surface. The bottom of the screened interval will be at the red clay contact.

The monitoring well will be completed with a steel protective brightly painted surface riser, a four by four-foot square four-inch thick concrete pad, and a locking cap on the outer protective casing. The monitoring well will be completed with a flush mount manhole cover. The monitoring well will have a rust proof lock installed on the inner casing. The monitoring well lock will be keyed to match the monitoring wells that have been previously installed at the site.

The monitoring well will be developed by pumping a minimum of three well volumes or until conductivity, pH, and temperature have stabilized within 5% for three consecutive readings, and turbidity is less than 5 nephelometry turbidity units (NTU). The monitoring well will not be developed sooner than 24 hours after installation and no later than one week after installation. All parameters and volumes of water produced during development will be documented.

EPNG personnel will collect and analyze groundwater samples for Chloride, Total Dissolved Solids (TDS) and conductivity, follow all established chain-of-custody protocols, collect one duplicate sample per day of sampling, and analyze one trip blank for the sampling event.

The soils generated during drilling activities will be spread out adjacent to the proposed monitoring well since no hydrocarbon impacts were found during previous investigations at the site.

If necessary, the groundwater generated from the proposed monitoring well (MW-15) will be placed in the southern saltwater retention pond at the Christie Jal No.4 gas plant.

2.2.2 Groundwater Monitoring Program

EPNG proposes that the new off-site monitoring well (MW-15) be installed and sampled in conjunction with the already existing groundwater monitoring schedule. Monitoring well MW-15 will be added to the current quarterly groundwater-monitoring schedule. In addition, groundwater elevations will continue to be taken at all monitoring well locations.

2.3 Project Reporting

EPNG will continue to submit annual reports to the OCD. The proposed monitoring well MW-15 will be added to the annual report. Each annual report will include the following:

- a table summarizing the present and past analytical results from the wells sampled during the year;
- a table showing past and present groundwater elevations for all the wells on and off-site site; and
- a potentiometric surface map showing groundwater elevations and hydraulic gradient per quarter.

3.0 QUALITY ASSURANCE/QUALITY CONTROL

3.1 Collection of Samples

EPNG or its contractor will follow the sampling protocols and procedures as outlined in United States Environmental Protection Agency (USEPA) Test Methods for Evaluating Solid Waste (SW-846). Quality Assurance/Quality Control (QA/QC) procedures will be maintained so that the water samples collected and analyzed provide accurate and reliable information. QA/QC procedures for the project will include the use of the following items to prevent cross contamination between the samples:

- a decontaminated submersible pump for each sampling location purged;
- disposable latex gloves when collecting and handling the groundwater samples; and
- disposable polyethylene bailers or a decontaminated submersible pump when collecting the groundwater samples.

Field QA/QC procedures will consist of collecting a duplicate sample and an equipment rinsate blank at a frequency of 5 percent of the samples collected in the field or one of each per sampling event. In addition, a trip blank will be analyzed for BTEX.

3.2 Sample Identification and Control

All samples will be identified by a unique numbering system. The sample number will be referenced to the unique monitoring well name.

Sample Labeling

A sample identification code will be used to identify each sample on the chain-of-custody form. The sampler is responsible for verifying that each sample is put in the appropriate sample container. At the

time of sampling, this person will fill in the time sampled, the date sampled, sign and complete the sample labels, and affix to the container jar. The label will then be covered by clear tape to protect the label.

Sample Control

Strict chain-of-custody procedures will be followed. Sample containers and coolers for shipping, supplied by the laboratory, will be used to store all samples. The samples will be under the direct observation of EPNG or its contractor's personnel at all times or secured with custody seals to detect tampering. All samples will be preserved on ice or blue ice packs immediately after collection. The water samples will be shipped directly from the field to the laboratory accompanied by the chain-of-custody forms.

3.3 Analytical Methods

The groundwater samples collected will be analyzed for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), major cations and anions, heavy metals, and polynuclear aromatic hydrocarbons (PAHs) using EPA approved test methods.

3.4 Cross - Contamination Controls

All drilling and sampling tools will be decontaminated before and after each use to prevent cross-contamination. The decontamination procedure for sampling equipment will consist of cleaning with a brush and Alconox™ solution followed by a potable water rinse and a distilled water rinse. Drilling equipment will be steam cleaned. All equipment will be decontaminated prior to use and before removal from each location.

3.5 Documentation of Sampling Activities

All information pertinent to fieldwork will be recorded in a field logbook during performance of that activity. The field logbook will be a bound book that has consecutively numbered pages. Information pertinent to the work performed will be recorded in the field logbook and on field forms for sampling events and daily activities. Entries in the field logbook will contain three basic categories of information including, but not limited to:

- site activities;
- photo/survey data: and sampling data.
- sampling data.

Site activity entries will be completed daily to record all relevant site investigation information. The photograph/survey and sampling logs will be completed on an "as performed" basis.

The field logbook will be kept throughout the field sampling operations to document relevant information concerning sample generation, preparation and field data. All sampling activities and data will be recorded on specified forms.

4.0 HEALTH AND SAFETY PLAN

The existing site - specific Health and Safety Plan will be used for this project. This plan was prepared in compliance with 29 CFR 1910 and provides for the protection of personnel in the field. Prior to initiating field work each morning, there will be a **"tailgate"** safety meeting to discuss safety issues. All personnel involved with the field operations will attend.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

April 26, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-643

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

RE: GROUND WATER MONITORING
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Company's (EPEC) February 12, 1999 "REPORT SUBMITTAL, 1998 ANNUAL GROUNDWATER REMEDIATION REPORT, JAL NO. 4 PLANT , LEA COUNTY, NEW MEXICO" which was submitted on behalf of EPEC by their consultant Roberts/Schornick & Associates. This document contains the results of EPEC's ground water remediation and monitoring activities at the EPNG Jal #4 gas plant.

Upon a review of the above referenced document the OCD notes that the furthest downgradient monitor well ACW-12 has chloride and total dissolved solids (TDS) in ground water in excess of New Mexico Water Quality Control Commission (WQCC) standards and that the concentrations of these constituents have been increasing over time. This data shows that the chloride and TDS contamination of the ground water in this area is migrating past ACW-12 and that EPEC no longer has downgradient monitoring wells capable of demonstrating that the contamination is contained to EPEC's monitoring and remediation system. Therefore, the OCD requires that:

1. EPEC shall commence operation of the recovery wells by May 14, 1999. If future monitoring continues to show that the contaminant migration is not contained to the remediation system, the OCD will require installation of additional recovery wells to achieve this purpose.

2. EPEC shall submit for approval a work plan for installation of additional ground water monitoring wells to determine the extent of ground water contamination. The work plan shall be submitted to the OCD Santa Fe Office by June 25, 1999 with a copy provided to the OCD Hobbs District Office.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor
George H. Richardson, Roberts/Schornick & Associates

Z 274 520 643

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

Roberts/Schornick
& Associates, Inc.

February 12, 1999

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

environmental
consultants

2488 East 81st Street
Suite 610
Tulsa, OK 74137
918/496-0059
FAX 918/496-0132

A Benham Company

RE: Report Submittal
1998 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Olson:

Roberts/Schornick & Associates, Inc. (RSA) has been retained by El Paso Energy Corporation (EPEC) to compile the 1998 Annual Groundwater Remediation Report for the Jal No. 4 Plant in Lea County, New Mexico. Please find enclosed one (1) copy of this report. As you directed, a copy of this report is also being submitted to the Hobbs District Supervisor.

If you have questions or comments on this report, please do not hesitate to contact Gerry Garibay with EPEC/Houston at (713) 420-3827, or myself at (918) 496-0059.

Sincerely,
Roberts/Schornick & Associates, Inc.

George H. Richardson, P.G.
Senior Project Manager

GHR/me

xc: Darrell G. Campbell (EPNG/El Paso)
Marc R. Ferries (EPEC/Houston)(w/o encl)
Gerry Garibay (EPEC/Houston)
Tom J. Martinez (EPNG/Midland)(w/o encl)
Chris Williams (NM OCD/Hobbs)

H:\97171\9717101\CORRESP\L002.WPD

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

April 26, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-643

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

RE: GROUND WATER MONITORING
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Company's (EPEC) February 12, 1999 "REPORT SUBMITTAL, 1998 ANNUAL GROUNDWATER REMEDIATION REPORT, JAL NO. 4 PLANT , LEA COUNTY, NEW MEXICO" which was submitted on behalf of EPEC by their consultant Roberts/Schornick & Associates. This document contains the results of EPEC's ground water remediation and monitoring activities at the EPNG Jal #4 gas plant.

Upon a review of the above referenced document the OCD notes that the furthest downgradient monitor well ACW-12 has chloride and total dissolved solids (TDS) in ground water in excess of New Mexico Water Quality Control Commission (WQCC) standards and that the concentrations of these constituents have been increasing over time. This data shows that the chloride and TDS contamination of the ground water in this area is migrating past ACW-12 and that EPEC no longer has downgradient monitoring wells capable of demonstrating that the contamination is contained to EPEC's monitoring and remediation system. Therefore, the OCD requires that:

1. EPEC shall commence operation of the recovery wells by May 14, 1999. If future monitoring continues to show that the contaminant migration is not contained to the remediation system, the OCD will require installation of additional recovery wells to achieve this purpose.

2. EPEC shall submit for approval a work plan for installation of additional ground water monitoring wells to determine the extent of ground water contamination. The work plan shall be submitted to the OCD Santa Fe Office by June 25, 1999 with a copy provided to the OCD Hobbs District Office.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor
George H. Richardson, Roberts/Schornick & Associates

Z 274 520 643

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (*See reverse*)

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

EL PASO ENERGY

February 13, 1998

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Phase IV Ground Water Contamination Study
EPNG Jal No. 4, Lea County New, Mexico
1997 Annual Report

Dear Mr. Olson:

This annual report documents the sampling and analysis conducted at Jal No. 4 in 1997. The report includes quarterly water table maps and monitoring well sampling results. Specific monitor well sampling frequency and analysis is described below.

- Quarterly ground water samples were collected from monitor wells ACW-12, ACW-13 and ACW-14 and analyzed for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).

- Annual ground water samples were collected from monitoring wells ACW-1, ACW-2A, ACW-4, ACW-5, ACW-6, ACW-7, ACW-8, ACW-9, ACW-10, ACW-11, ACW-12, ACW-13 and ACW-14 and analyzed for concentrations of BTEX, total dissolved solids, major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals using EPA approved methods and QA/QC.

Quarterly groundwater samples were collected in February, May and August. Annual ground water samples were collected in October and November.

Water recovery system start-up has not occurred. Right-of-way issues have not been resolved and negotiations with a third party to obtain electrical power to one of the recovery wells is continuing. EPNG has, however, obtained a permit, for each recovery well, to supplement the underground waters of the State of New Mexico from the State Engineer office in Roswell. EPNG will submit, on a quarterly basis, the amount of water

pumped from each recovery well to the State Engineer office once the system is in operation. Ground water monitoring has continued at the site. The recovery system is not presently in operation; therefore, the proposed remediation activities have not taken place. The recovery system is expected to be operating in 1998. Once the system is in operation, the generated ground water monitoring data will be used to evaluate the efficiency of the recovery system. Project recommendations will be made based on this system evaluation in future annual reports.

If you have any questions or need additional information, please contact me at (713) 757-3827.

Sincerely,

GGaribay/mr

Gerry Garibay
Senior Environmental Scientist
Environmental Remediation Department

Attachments

cc: Jerry Sexton,
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Roberts/Schornick
& Associates, Inc.

February 12, 1999

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

environmental
consultants

2488 East 81st Street
Suite 610
Tulsa, OK 74137
918/496-0059
FAX 918/496-0132

A Benham Company

RE: Report Submittal
1998 Annual Groundwater Remediation Report
Jal No. 4 Plant
Lea County, New Mexico

Dear Mr. Olson:

Roberts/Schornick & Associates, Inc. (RSA) has been retained by El Paso Energy Corporation (EPEC) to compile the 1998 Annual Groundwater Remediation Report for the Jal No. 4 Plant in Lea County, New Mexico. Please find enclosed one (1) copy of this report. As you directed, a copy of this report is also being submitted to the Hobbs District Supervisor.

If you have questions or comments on this report, please do not hesitate to contact Gerry Garibay with EPEC/Houston at (713) 420-3827, or myself at (918) 496-0059.

Sincerely,
Roberts/Schornick & Associates, Inc.

George H. Richardson, P.G.
Senior Project Manager

GHR/me

xc: Darrell G. Campbell (EPNG/El Paso)
Marc R. Ferries (EPEC/Houston)(w/o encl)
Gerry Garibay (EPEC/Houston)
Tom J. Martinez (EPNG/Midland)(w/o encl)
Chris Williams (NM OCD/Hobbs)

H:\97171\9717101\CORRESP\L002.WPD

EL PASO ENERGY

February 13, 1998

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Phase IV Ground Water Contamination Study
EPNG Jal No. 4, Lea County New, Mexico
1997 Annual Report

Dear Mr. Olson:

This annual report documents the sampling and analysis conducted at Jal No. 4 in 1997. The report includes quarterly water table maps and monitoring well sampling results. Specific monitor well sampling frequency and analysis is described below.

- Quarterly ground water samples were collected from monitor wells ACW-12, ACW-13 and ACW-14 and analyzed for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).

- Annual ground water samples were collected from monitoring wells ACW-1, ACW-2A, ACW-4, ACW-5, ACW-6, ACW-7, ACW-8, ACW-9, ACW-10, ACW-11, ACW-12, ACW-13 and ACW-14 and analyzed for concentrations of BTEX, total dissolved solids, major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals using EPA approved methods and QA/QC.

Quarterly groundwater samples were collected in February, May and August. Annual ground water samples were collected in October and November.

Water recovery system start-up has not occurred. Right-of-way issues have not been resolved and negotiations with a third party to obtain electrical power to one of the recovery wells is continuing. EPNG has, however, obtained a permit, for each recovery well, to supplement the underground waters of the State of New Mexico from the State Engineer office in Roswell. EPNG will submit, on a quarterly basis, the amount of water

pumped from each recovery well to the State Engineer office once the system is in operation. Ground water monitoring has continued at the site. The recovery system is not presently in operation; therefore, the proposed remediation activities have not taken place. The recovery system is expected to be operating in 1998. Once the system is in operation, the generated ground water monitoring data will be used to evaluate the efficiency of the recovery system. Project recommendations will be made based on this system evaluation in future annual reports.

If you have any questions or need additional information, please contact me at (713) 757-3827.

Sincerely,

GGaribay/mr

Gerry Garibay
Senior Environmental Scientist
Environmental Remediation Department

Attachments

cc: Jerry Sexton,
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

EL PASO NATURAL GAS

MEMORANDUM

TO: William C. Olson
FROM: Steven Brisbin

DATE: JANUARY 5,1998
PLACE: Technical Services Division

SUBJECT: JAL #4 MONITOR WELLS

.Listed below is the schedule for sampling Jal#4 monitor wells. If a problem should arise that would change this schedule I will notify you. If you have any question's please call me at (915)759-2329.

FEBRUARY 23 THRU 25,1998
MAY 11 THRU 15,1998
AUGUST 10 THRU 12,1998
OCTOBER 19THRU 23,1998

Thank You,Steve Brisbin

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 8, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-189

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

RE: GROUND WATER MONITORING
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Company's (EPEC) April 29, 1997 "PHASE IV GROUND WATER CONTAMINATION STUDY, EPNG JAL NO. 4, LEA COUNTY, NEW MEXICO, PROPOSED PROJECT CHANGES AND FIRST QUARTER REPORT". This document contains EPEC's proposal to modify the ground water sampling program for the EPNG Jal #4 gas plant and to change the reporting frequency of ground water monitoring reports from quarterly to annually.

The monitoring and reporting proposal as contained in the above referenced document is approved with the following conditions:

1. By August 8, 1997, EPEC will provide the OCD with the investigation report which was required as a condition of approval in OCD's August 10, 1995 approval of EPEC's ground water remediation and investigation work plan.

2. Ground water from monitor wells ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on a quarterly basis for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).

3. Ground water from monitor wells ACW-1, ACW-2A, ACW-4, ACW-5, ACW-6, ACW-7, ACW-8, ACW-9, ACW-10, ACW-11, ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on an annual basis for concentrations of BTEX, total dissolved solids, major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals using EPA approved methods and QA/QC.

4. The annual report will be submitted to the OCD by February 15 of each year. The annual report will contain:

   a. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.

   b. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Copies of the most recent years laboratory analytical data sheets and associated QA/QC data will also be submitted

   c. A quarterly water table elevation map using the water table elevation of the ground water in all monitor wells.

   d. The volume of fluids recovered in the remediation/disposal system during each quarter and the total recovered and disposed to date.

5. EPEC will notify the OCD at least one week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

6. All documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Hobbs District Office.

Please be advised that OCD approval does not relieve EPEC of liability should their remediation and monitoring program fail to adequately monitor or remediate ground water contamination related to EPEC's operations. In addition, this approval does not relieve EPEC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs Office

EL PASO ENERGY

July 21, 1997

JUL 24 1997

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Requested Ground Water Investigation Report
EPNG Jal No. 4
Lea County, New Mexico

Dear Mr. Olson:

Pursuant to our telephone conversation regarding OCD's letter dated July 8, 1997, item 1, a report was submitted by our consultant, Philip Environmental, on October 14, 1996. The report is entitled *Jal No. 4 Groundwater Delineation Report* and addresses OCD's requested information.

Please contact me at (713) 757-3827, if you have questions or need additional information.

Sincerely,

Gerry Garibay
Senior Environmental Scientist
Discontinued Operations

Enclosure

cc: Jerry Sexton
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 8, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-189

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

Environmental Affairs
JUL 14 1997
Discontinued Operations

RE: GROUND WATER MONITORING
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Company's (EPEC) April 29, 1997 "PHASE IV GROUND WATER CONTAMINATION STUDY, EPNG JAL NO. 4, LEA COUNTY, NEW MEXICO, PROPOSED PROJECT CHANGES AND FIRST QUARTER REPORT". This document contains EPEC's proposal to modify the ground water sampling program for the EPNG Jal #4 gas plant and to change the reporting frequency of ground water monitoring reports from quarterly to annually.

The monitoring and reporting proposal as contained in the above referenced document is approved with the following conditions:

1. By August 8, 1997, EPEC will provide the OCD with the investigation report which was required as a condition of approval in OCD's August 10, 1995 approval of EPEC's ground water remediation and investigation work plan.

2. Ground water from monitor wells ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on a quarterly basis for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).

3. Ground water from monitor wells ACW-1, ACW-2A, ACW-4, ACW-5, ACW-6, ACW-7, ACW-8, ACW-9, ACW-10, ACW-11, ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on an annual basis for concentrations of BTEX, total dissolved solids, major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals using EPA approved methods and QA/QC.

4. The annual report will be submitted to the OCD by February 15 of each year. The annual report will contain:

   a. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.

   b. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Copies of the most recent years laboratory analytical data sheets and associated QA/QC data will also be submitted

   c. A quarterly water table elevation map using the water table elevation of the ground water in all monitor wells.

   d. The volume of fluids recovered in the remediation/disposal system during each quarter and the total recovered and disposed to date.

5. EPEC will notify the OCD at least one week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

6. All documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Hobbs District Office.

Please be advised that OCD approval does not relieve EPEC of liability should their remediation and monitoring program fail to adequately monitor or remediate ground water contamination related to EPEC's operations. In addition, this approval does not relieve EPEC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs Office

EL PASO ENERGY

APR 30 1997

April 29, 1997

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Phase IV Ground Water Contamination Study
EPNG Jal No. 4, Lea County, New Mexico
Proposed Project Changes and First Quarter Report

Dear Mr. Olson:

El Paso Natural Gas Company (EPNG) proposes to differ the installation of additional ground water monitoring wells, at the above referenced site, as recommended in the submitted *Jal No. 4, Groundwater Delineation Report* dated October 14, 1996. EPNG proposes to operate and monitor the recovery system prior to the installation, if required, of additional monitor wells. EPNG is also proposing to change the monitoring wells sampled quarterly and, in the future, submit annual reports with both quarterly and annual sampling results. The quarterly sampled wells, as shown below, will be analyzed for chlorides, TDS, conductivity, and BTEX. All wells will be sampled annually and analyzed for all previous quarterly parameters, as shown on the attached analytical table. The following monitoring wells and sampling frequency are proposed:

WELLS	QUARTER	ANNUAL
ACW-1		X
ACW-5		X
ACW-6		X
ACW-6		X
ACW-9		X
ACW-10		X
ACW-11		X
ACW-12	X	X
ACW-13	X	X
ACW-14	X	X

Also
2A, 4, 7, 8

El Paso Energy Corporation P.O. Box 2511 Houston, Texas 77252-2511 1001 Louisiana Street Houston, Texas 77002
Phone (713) 757-2131

In summary, the three new monitoring wells will be sampled on a quarterly basis and water samples analyzed for chlorides, TDS, conductivity, and BTEX. All of the above listed monitoring wells will be sampled annually and analyzed for the current quarterly parameters. The annual report will be submitted by February 15, 1998.

A summary of historical water quality analytical results for monitor wells ACW-1, ACW-5, ACW-6, ACW-10, ACW-11 and current water quality analytical results for monitor wells ACW-9, ACW-12, ACW-13, ACW-14 along with a current water table elevation map are attached.

Please contact me at (713) 757-3827, if you have any questions or need additional information.

Sincerely,

Gerry Garibay
Senior Environmental Scientist
Discontinued Operations

Attachments

cc: Jerry Sexton
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

SAMPLE KEY

SAMPLE NUMBER: S97-0037 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:00 SAMPLE DATE: 02/18/97

SAMPLE KEY

SAMPLE NUMBER: S97-0038 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:20 SAMPLE DATE: 02/18/97

SAMPLE KEY

SAMPLE NUMBER: S97-0039 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PUMP BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:50 SAMPLE DATE: 02/18/97

SAMPLE KEY

SAMPLE NUMBER: S97-0040 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PRODUCTION WELL # DOOME WATER WELL
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0041 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW9
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:39 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0042 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:55 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0043 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW12 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:55 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0044 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PRODUCTION WELL #OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:30 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0045 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:45 SAMPLE DATE: 02/20/97

SAMPLE KEY

SAMPLE NUMBER: S97-0046 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #ACW15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:25 SAMPLE DATE: 02/26/97

American Environmental Network (Arizona), Inc.

AEN I.D. 702277

March 7, 1997

El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904

Project Name/Number: Jal #4

Attention: Darrell Campbell

On **02/22/97**, American Environmental Network (Arizona), Inc., received a request to analyze **aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 160.1-total dissolved solids analysis was added on 02/26/97 for all samples. Per the clients request, run analysis past holding time.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager

LE/jk

Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

9830 S. 51st Street, Suite B-113 • Phoenix, AZ 85044 • (602) 496-4400 • Fax (602) 496-4101

American Environmental Network (Arizona), Inc.

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/22/97
REPORT DATE : 03/07/97

ATI I.D. : 702277

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	S97-0037	AQUEOUS	02/18/97
02	S97-0038	AQUEOUS	02/18/97
03	S97-0039	AQUEOUS	02/18/97
04	S97-0040	AQUEOUS	02/19/97
05	S97-0041	AQUEOUS	02/19/97
06	S97-0042	AQUEOUS	02/19/97
07	S97-0043	AQUEOUS	02/19/97
08	S97-0044	AQUEOUS	02/19/97
09	S97-0045	AQUEOUS	02/20/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	9

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 702277

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/22/97
REPORT DATE : 03/07/97

PARAMETER	UNITS	01	02	03	04	05
CHLORIDE (EPA 325.2)	MG/L	<0.5	<0.5	110	38	1260
CONDUCTIVITY, (UMHOS/CM)		2	2	732	618	4110
T. DISSOLVED SOLIDS (160.1)	MG/L	<10	<10	460	440	2500

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 702277

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/22/97
REPORT DATE : 03/07/97

PARAMETER	UNITS	06	07	08	09
CHLORIDE (EPA 325.2)	MG/L	380	390	70	53
CONDUCTIVITY, (UMHOS/CM)		1610	1630	659	681
T. DISSOLVED SOLIDS (160.1)	MG/L	950	960	440	440

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4 ATI I.D. : 702277

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHLORIDE	MG/L	70218004	15	14	7	68	50	106
CHLORIDE	MG/L	70227702	<0.5	<0.5	NA	9	10	90
CHLORIDE	MG/L	70231401	150	150	0	350	200	100
CONDUCTIVITY(UMHOS/CM)		70228804	316	314	0.6	NA	NA	NA
TOTAL DISSOLVED SOLIDS	MG/L	70227701	<10	<10	NA	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227701

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/18/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0037	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	96

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227702

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/18/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0038	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227703

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/18/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0039	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	100

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227704

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0040	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	92

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227705

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0041	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	1.3
TOLUENE	4.0
ETHYLBENZENE	10
TOTAL XYLENES	4.2
METHYL-t-BUTYL ETHER	8.0
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	103

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227706

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0042	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	1.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	93

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227707

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0043	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	2.9
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	8.1
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227708

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0044	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	1.4
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227709

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/20/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0045	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	1.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : BTEX + MTBE (EPA METHOD 8020)

		ATI I.D.	: 702277
CLIENT	: EL PASO NATURAL GAS	DATE EXTRACTED	: N/A
PROJECT #	: (NONE)	DATE ANALYZED	: 02/24/97
PROJECT NAME	: JAL #4	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	103

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 702277

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4
REF I.D. : 70227709

DATE ANALYZED : 02/24/97
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.5	20	18	90	18	90	0
TOLUENE	<0.5	20	18	90	19	95	5
ETHYLBENZENE	1.5	20	18	82	19	88	5
TOTAL XYLENES	<0.5	60	55	92	55	92	0
METHYL-t-BUTYL ETHER	<2.5	40	45	112	45	112	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spiked Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

American Environmental Network (Arizona), Inc.

DATE OF ANALYSIS

ACCESSION #: 702277

SAMPLE ID	TEST AND METHOD NUMBER	DATE OF ANALYSIS	ANALYST
70227701	CHLORIDE (EPA 325.2)	03/05/97	CM
70227702	CHLORIDE (EPA 325.2)	03/05/97	CM
70227703	CHLORIDE (EPA 325.2)	03/05/97	CM
70227704	CHLORIDE (EPA 325.2)	03/05/97	CM
70227705	CHLORIDE (EPA 325.2)	03/06/97	CM
70227706	CHLORIDE (EPA 325.2)	03/06/97	CM
70227707	CHLORIDE (EPA 325.2)	03/06/97	CM
70227708	CHLORIDE (EPA 325.2)	03/05/97	CM
70227709	CHLORIDE (EPA 325.2)	03/06/97	CM
70227701	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227702	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227703	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227704	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227705	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227706	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227707	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227708	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227709	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227701	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227702	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227703	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227704	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227705	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227706	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227707	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227708	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227709	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH

REFERENCES: Methods for Chemical Analysis of Water and Wastes, March 1983, EPA-600 4-79-020

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

#702277

Page ______ of ______

PROJECT NUMBER:
PROJECT NAME: Jal #4
SAMPLERS: (Signature) [signature]
DATE: 2/19/97

CONTRACT LABORATORY P. O. NUMBER:

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	BTEX	Cl	Cond.				REMARKS
1	2/18/97	1600	H_2O	597-0037	3		X	X	X				
2	2/18/97	1620	H_2O	597-0038	3								
3	2/18/97	1650	H_2O	597-0039	3								
4	2/19/97	1330	H_2O	597-0040	3								
5	2/19/97	1539	H_2O	597-0041	3								
6	2/19/97	1755	H_2O	597-0042	3								
7	2/19/97	1755	H_2O	597-0043	3								
8	2/19/97	1730	H_2O	597-0044	3								
9	2/20/97	1145	H_2O	597-0045	3								

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	2/21/97 1200				
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
				2/22/97 1014	[signature]

REQUESTED TURNAROUND TIME
☐ ROUTINE ☐ RUSH

SAMPLE RECEIPT REMARKS

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

CARRIER CO

BILL NO

CHARGE CODE

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM 08 0566 (Rev 5 95)

American Environmental Network (Arizona), Inc.

AEN I.D. 702384

March 18, 1997

El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904

Project Name/Number: JAL #4

Attention: Darrell Campbell

On 02/28/97, American Environmental Network (Arizona), Inc., received a request to analyze **aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager

LE/jk

Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network (Arizona), Inc.

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/28/97
REPORT DATE : 03/17/97

ATI I.D. : 702384

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	S97-0046	AQUEOUS	02/26/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 702384

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/28/97
REPORT DATE : 03/17/97

PARAMETER	UNITS	01
CHLORIDE (EPA 325.2)	MG/L	86
CONDUCTIVITY, (UMHOS/CM)		830
T. DISSOLVED SOLIDS (160.1)	MG/L	570

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4 ATI I.D. : 702384

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHLORIDE	MG/L	70317003	7	7	0	17	10	100
CONDUCTIVITY(UMHOS/CM)		70231501	920	917	0.3	NA	NA	NA
TOTAL DISSOLVED SOLIDS	MG/L	70236301	290	290	0	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70238401

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/26/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/28/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0046	DATE ANALYZED	: 03/06/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	86

REAGENT BLANK

TEST : BTEX + MTBE (EPA METHOD 8020)

		ATI I.D.	: 702384
CLIENT	: EL PASO NATURAL GAS	DATE EXTRACTED	: N/A
PROJECT #	: (NONE)	DATE ANALYZED	: 03/06/97
PROJECT NAME	: JAL #4	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	99

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 702384

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4
REF I.D. : 70238401

DATE ANALYZED : 03/06/97
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.5	20	19	95	19	95	0
TOLUENE	<0.5	20	19	95	19	95	0
ETHYLBENZENE	<0.5	20	21	105	20	100	5
TOTAL XYLENES	<1.0	60	65	108	63	105	3
METHYL-t-BUTYL ETHER	<2.5	40	37	92	38	95	3

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

American Environmental Network (Arizona), Inc.

DATE OF ANALYSIS

ACCESSION #: 702384

SAMPLE ID	TEST AND METHOD NUMBER	DATE OF ANALYSIS	ANALYST
70238401	CHLORIDE (EPA 325.2)	3/13/97	CM
70238401	CONDUCTIVITY. (UMHOS/CM)	2/28/97	PS
70238401	T. DISSOLVED SOLIDS (160.1)	2/28/97	DH

REFERENCES: Methods for Chemical Analysis of Water and Wastes. March 1983. EPA-600 4-79-020

El Paso Natural Gas Company

AEN # 702384

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAL #4	[signature]	2/26/97

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: BTEX	Cl, TDS	Specific Conductance			REMARKS
1	2/26/97		H2O	597-0046	3		X	X	X			

CONTRACT LABORATORY P. O. NUMBER

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	2/26/97 1400				
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
				2/28/97 1023	[signature]

REQUESTED TURNAROUND TIME

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev 5-

JAL #4 MONITOR WELL

4/29/97

SAMPLE DATE	SAMPLE NUMBER	SAMPLE DESCRIPTION	Chloride mg/l	Residue, Filterable (TDS) mg/l	Specific Conductance umho/cm	pH	Fluoride mg/l	Nitrate mg/l	Boron mg/l	Calcium mg/l	Copper mg/l	Iron mg/l	Magnesium mg/l	Manganese mg/l	Potassium mg/l	Sodium mg/l	Zinc mg/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Total Xylene ug/l	Alkalinity (as CaCO3) mg/l	Hardness (as CaCO3) mg/l	Bromide mg/l	Sulfate mg/l	Silica mg/l
3/5/93	S93-0100	Monitor Well ACW #01	4045	8505	14350																					
9/15/93	S93-0531	Monitor Well ACW #01	2915	6016	10360																					
11/10/93	S93-0683	Monitor Well ACW #01	3683	7340	11780																					
4/20/94	S94-0377	Monitor Well ACW #01	5400	8430	16520																					
10/27/94	S94-0717	Monitor Well ACW #01	3700	8440	14630																					
5/16/95	S95-0231	Monitor Well ACW #01	4100	8200	14000	8.3	25	<2.0	0.9	66	<0.025	0.38	72	0.062	12	2600	0.020	<5	<10	<5	0	700	470	1.8	240	33
6/27/95	S95-0383	Monitor Well ACW #01	6700	8400	1400	8.4	22	<2.0	1.0	74	<0.025	0.59	92	0.077	15	3200	<0.02	4.6	4.6	<2.5	140	710	510	1.9	260	35
8/29/95	S95-0448	Monitor Well ACW #01	3300	12000	21000	8.2	18	<20	0.8	67	<0.025	0.18	78	0.069	11	2400	<0.02	6	<10	<5	<15	820	590	2.2	210	28
2/6/96	S96-0063	Monitor Well ACW #01	5200	9700	16000	8.3	0.88	0.02	1.0	78	<0.006	0.56	100	0.069	16	4300	0.010	6.1	3	1.9	2.8	830	620	2.1	280	36
2/6/96	S96-0064*	Monitor Well ACW #01	5770	9440	16170	8.2	2.1	<1.25	1.1	84	<0.1	0.7	102	0.1	17	3900	<0.1	5.6	2.7	3	<7.5	759	630	2.06	293	41
5/8/96	S96-0263	Monitor Well ACW #01	4130	8190	14620	8.2	2.2	<1.25	1.0	93	0.01	0.6	118	0.09	18	3070	<0.05	6.3	2.03	<1.0	<3.0	310	718	<1.25	268	54
8/13/96	S96-0381	Monitor Well ACW #01	3500	7400	12000	8.1	4.9	<0.05	1.1	110	0.019	0.68	100	0.078	8.6	2400	0.008	3.5	1.2	<1.0	<2.0	730	690	1.9	270	41
11/5/96	S96-0576	Monitor Well ACW #01	3700	7200	11000	8.1	4.4	<0.05	1.0	81	<0.007	0.59	98	0.062	11	3000	0.011	5.6	2.5	<1.0	1.3	810	610	2	250	16
3/10/93	S93-0114	Monitor Well ACW #05	2544	6110	10400																					
6/17/93	S93-0387	Monitor Well ACW #05	1228	323	4480																					
9/16/93	S93-0536	Monitor Well ACW #05	650	3084	4140																					
11/9/93	S93-0678	Monitor Well ACW #05	720	3202	4390																					
4/21/94	S94-0385	Monitor Well ACW #05	800	3300	4131																					
10/28/94	S94-0749	Monitor Well ACW #05	550	3112	4500																					
1/31/95	S95-0015	Monitor Well ACW #05	499	2848	4050																					
5/16/95	S95-0229	Monitor Well ACW #05	530	2800	3900	7.0	<1.0	3.5	0.9	270	<0.025	0.46	39	0.026	6.6	540	0.020	<5	<10	<5	0	320	980	1.3	1100	57
6/27/95	S95-0380	Monitor Well ACW #05	460	2800	3800	7.3	<1.0	3.4	1.0	270	<0.025	0.34	40	0.02	6.9	530	0.020	<2.5	<2.5	<2.5	<5.0	320	240	1.1	800	56
8/30/95	S95-0450	Monitor Well ACW #05	510	2700	3900	7.0	<10	<20	1.1	240	<0.025	<0.10	36	<0.015	8.7	550	0.020	<5	<10	<5	<15	310	810	1	890	44
2/6/96	S96-0061	Monitor Well ACW #05	510	2200	3800	7.5	0.12	4.7	1.4	240	<0.006	1.5	32	0.026	6.5	580	0.015	<1.0	<1.0	<1.0	<2.0	260	740	0.92	920	64
2/6/96	S96-0062*	Monitor Well ACW #05	508	2745	3090	7.3	0.29	4.9	1.4	240	<0.1	2	32	0.1	8.1	580	<0.1	<2.5	<2.5	<2.5	<7.5	284	730	<1.25	835	66
5/8/96	S96-0258	Monitor Well ACW #05	519	2460	3650	7.2	0.42	5	0.8	187	0.01	0.2	24	<0.05	8	506	<0.05	<1.0	<1.0	<1.0	<3.0	190	515	4.5	653	35
8/13/96	S96-0385	Monitor Well ACW #05	500	2500	3400	7.3	0.7	5.4	2.0	200	<0.006	0.024	28	<0.007	6.3	520	0.033	<1.0	1.2	<1.0	<2.0	320	620	1	710	58
11/6/96	S96-0588	Monitor Well ACW #05	500	2300	3300	7.5	0.57	<0.05	1.9	180	<0.007	0.3	25	0.008	6	520	0.022	1.1	1.4	1.2	<2.0	350	560	1.2	710	27

* Analysis done by T.O.E. Lab

JAL #4 MONITOR WELL

SAMPLE DATE	SAMPLE NUMBER	SAMPLE DESCRIPTION	Chloride mg/l	Residue, Filterable (TDS) mg/l	Specific Conductance umho/cm	pH	Fluoride mg/l	Nitrate mg/l	Boron mg/l	Calcium mg/l	Copper mg/l	Iron mg/l	Magnesium mg/l	Manganese mg/l	Potassium mg/l	Sodium mg/l	Zinc mg/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Total Xylene ug/l	Alkalinity (as CaCO3) mg/l	Hardness (as CaCO3) mg/l	Bromide mg/l	Sulfate mg/l	Silica mg/l
6/18/93	S93-0388	Monitor Well ACW #06	2108	5027	8220																					
9/16/93	S93-0537	Monitor Well ACW #06	2737	6656	11130																					
11/8/93	S93-0677	Monitor Well ACW #06	2154	5646	8540																					
4/21/94	S94-0384	Monitor Well ACW #06	3600	6930	11080																					
10/28/94	S94-0750	Monitor Well ACW #06	2100	6910	11988																					
1/31/95	S95-0016	Monitor Well ACW #06	2873	6755	11530																					
5/16/95	S95-0230	Monitor Well ACW #06	2800	6400	10000	8.1	31	<2.0	0.9	70	<0.025	3.9	19	0.079	<5.0	2200	0.020	<5	<10	<5	0	1300	200	1.4	110	48
8/27/95	S95-0379	Monitor Well ACW #06	3500	8600	10000	9.0	44	<2.0	1.1	64	<0.025	5.8	16	0.082	<5.0	3000	0.080	14	<2.5	<2.5	<5.0	1500	130	1.8	110	44
8/29/95	S95-0449	Monitor Well ACW #06	3000	7100	12000	8.4	26	<20	0.9	42	<0.025	0.54	16	0.04	<5.0	2500	0.020	7	<10	<5	<15	1500	200	1.8	110	42
2/6/96	S96-0059	Monitor Well ACW #06	2600	6600	11000	8.0	3.8	0.0071	1.1	91	<0.006	4.6	23	0.12	3.6	2700	0.029	6.6	3.2	<1.0	<2.0	1400	320	1.3	72	62
2/6/96	S96-0080*	Monitor Well ACW #06	3180	5630	10320	7.8	10	<1.25	1.3	76	<0.1	5	21	0.1	3.6	2400	<0.1	<2.5	<2.5	<2.5	<7.5	1315	275	1.52	79	50
5/8/96	S96-0257	Monitor Well ACW #06	2880	6460	10620	7.7	6.4	<1.25	1.3	35	0.02	4.1	21	0.14	4	2380	<0.05	4.08	1.58	<1.0	<3.0	1398	175	<1.25	48	40
8/14/96	S96-0321	Monitor Well ACW #06	2900	7100	11000	7.9	21	<0.05	1.2	85	<0.006	4.5	23	0.13	3.4	2900	0.024	4.2	2.8	<2.0	<2.0	1400	310	1.8	88	60
11/6/96	S96-0585	Monitor Well ACW #06	3400	7700	12000	8.6	18	<0.05	1.2	98	<0.007	5.3	27	0.16	3.6	2800	0.032	4.5	1.5	<1.0	<2.0	1600	360	1.3	74	32
11/6/96	S96-0586	Monitor Well ACW #06	3600	7700	12000	8.6	18	<0.05	1.1	88	<0.007	4	22	0.13	3.6	2400	0.019	4.8	1.5	<1.0	<2.0	1600	310	1.3	62	27
6/17/93	S93-0391	Monitor Well ACW #09	2288	4435	5900																					
9/14/93	S93-0525	Monitor Well ACW #09	915	2119	3100																					
11/9/93	S93-0679	Monitor Well ACW #09	1184	2300	3670																					
4/22/94	S94-0387	Monitor Well ACW #09	1150	2508	3900																					
12/1/94	S94-0795	Monitor Well ACW #09	1650	3510	5450																					
1/31/95	S95-0017	Monitor Well ACW #09	2083	4240	7110																					
5/17/95	S95-0233	Monitor Well ACW #09	5600	8800	11000	6.6	<1.0	<2.0	0.4	820	<0.025	0.17	280	1	16	910	0.025	<5	22	<5	0	320	4500	2.1	440	49
8/28/95	S95-0384	Monitor Well ACW #09	3500	6200	9100	7.0	<1.0	<2.0	0.4	770	<0.025	0.28	250	0.98	15	1000	0.020	<2.5	<2.5	<2.5	<5.0	300	2700	1.9	360	51
8/30/95	S95-0419	Monitor Well ACW #09	2500	4500	7150	6.5	<10	<20	0.4	640	<0.025	0.19	220	0.86	14	880	0.040	<5	<10	<5	<15	240	2000	1.5	370	43
2/7/96	S96-0069	Monitor Well ACW #09	2400	5400	7500	7.7	0.16	0.039	0.4	570	<0.006	0.48	180	0.71	14	810	0.010	1.8	<1.0	<1.0	<2.0	300	2200	1.5	320	47
2/7/96	S96-0070*	Monitor Well ACW #09	2300	4620	7450	6.8	0.36	<1.25	0.4	600	<0.1	0.4	175	0.7	16	810	<0.1	<2.5	<2.5	<2.5	<7.5	291	2220	1.85	341	56
5/8/96	S96-0259	Monitor Well ACW #09	2210	4210	7530	6.8	0.35	<1.25	<0.5	508	0.01	0.4	183	0.49	17	687	<0.05	<1.0	<1.0	<1.0	<3.0	209	2020	3	322	60
8/14/96	S96-0326	Monitor Well ACW #09	1200	3600	4400	7.4	1.4	0.13	0.4	490	<0.006	0.66	160	0.65	13	730	0.027	1.4	1.8	<1.0	<2.0	220	1900	1.2	180	53
11/7/96	S96-0590	Monitor Well ACW #09	1200	3100	4200	7.3	1.1	0.055	0.3	360	<0.007	0.4	110	0.44	10	510	0.029	2.3	2.2	<1.0	<2.0					
2/19/97	S96-0590	Monitor Well ACW #09	1260	2500	4110													1.3	4.0	10	4.2					

* Analysis done by T.O.E. Lab

JAL #4 MONITOR WELL

SAMPLE DATE	SAMPLE NUMBER	SAMPLE DESCRIPTION	Chloride mg/l	Residue, Filterable (TDS) mg/l	Specific Conductance umho/cm	pH	Fluoride mg/l	Nitrate mg/l	Boron mg/l	Calcium mg/l	Copper mg/l	Iron mg/l	Magnesium mg/l	Manganese mg/l	Potassium mg/l	Sodium mg/l	Zinc mg/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Total Xylene ug/l	Alkalinity (as CaCO3) mg/l	Hardness (as CaCO3) mg/l	Bromide mg/l	Sulfate mg/l	Silica mg/l
6/18/93	S93-0392	Monitor Well ACW #10	1027	701	1061																					
9/14/93	S93-0528	Monitor Well ACW #10	421	1190	1349																					
11/9/93	S93-0680	Monitor Well ACW #10	420	1238	1800																					
4/22/94	S94-0388	Monitor Well ACW #10	700	1638	2440																					
10/26/94	S94-0751	Monitor Well ACW #10	600	1694	2592																					
2/1/95	S95-0019	Monitor Well ACW #10	619	1426	2660																					
5/17/95	S95-0234	Monitor Well ACW #10	1600	2300	3900	6.9	<1.0	1.1	0.3	320	<0.025	0.12	110	0.037	8	170	0.020	<5	<10	<5	0	190	1300	1.1	300	43
8/28/95	S95-0385	Monitor Well ACW #10	1900	2300	3100	7.3	<1.0	<2.0	0.3	280	<0.025	0.28	94	0.029	7.5	160	0.020	<2.5	<2.5	<2.5	<5.0	190	1200	0.98	230	46
8/30/95	S95-0420	Monitor Well ACW #10	790	2200	3100	7.0	<10	<20	0.2	280	<0.025	<0.20	95	0.034	52	150	0.040	<5	<10	<5	<15	180	1100	0.9	210	42
2/7/96	S95-0071	Monitor Well ACW #10	850	2300	3200	7.8	0.24	0.42	0.3	320	<0.008	0.24	110	0.032	8.4	190	0.011	3.9	<1.0	<1.0	<2.0	200	1200	0.88	230	36
2/7/96	S96-0072*	Monitor Well ACW #10	829	2100	3100	7.1	0.44	<1.25	0.3	320	<0.1	0.4	107	<0.1	9.4	190	<0.1	4.3	<2.5	<2.5	<7.5	194	1240	<1.25	242	54
5/8/96	S96-0261	Monitor Well ACW #10	603	1290	2322	7.2	0.46	2.2	<0.5	206	<0.01	0.1	92	<0.05	8	127	<.05	1.22	<1.0	<1.0	<3.0	137	893	4.5	190	62
8/14/96	S96-0327	Monitor Well ACW #10	560	1900	2400	7.6	1.4	0.58	0.3	210	<0.006	0.14	71	0.019	7	140	0.037	<1.0	<1.0	<1.0	<2.0	170	810	0.82	160	47
11/7/96	S96-0591	Monitor Well ACW #10	610	1800	250	7.5	1.1	0.49	0.2	200	<0.007	0.22	70	0.017	7.4	150	0.025	1.2	1.5	<1.0	<2.0	170	800	0.83	170	20
6/19/93	S93-0393	Monitor Well ACW #11	9737	18670	25000																					
9/15/93	S93-0534	Monitor Well ACW #11	3437	6820	10570																					
11/9/93	S93-0681	Monitor Well ACW #11	3620	6592	10160																					
4/21/94	S94-0382	Monitor Well ACW #11	6400	9520	16290																					
10/27/94	S94-0720	Monitor Well ACW #11	6200	13280	20060																					
10/27/94	S94-0721	Monitor Well ACW #11	6600	12900	20550																					
2/1/95	S95-0020	Monitor Well ACW #11	11582	19880	32200																					
5/17/95	S95-0235	Monitor Well ACW #11	4400	7200	12000	6.8	<1.0	<2.0	0.3	740	<0.025	0.36	260	0.23	16	1200	0.020	<5	<10	<5	0	230	3300	1.9	250	42
8/27/95	S95-0381	Monitor Well ACW #11	6500	7000	11000	7.2	<1.0	<2.0	0.4	720	<0.025	0.29	270	0.2	18	980	0.020	5.1	<2.5	<2.5	<5.0	210	2800	1.6	210	45
8/29/95	S95-0447	Monitor Well ACW #11	3400	6000	10000	6.8	6.2	<2.0	0.3	550	<0.025	0.17	210	0.068	16	880	0.020	8	<10	<5	<15	220	2700	2.2	220	44
2/7/96	S96-0065	Monitor Well ACW #11	3400	7400	11000	7.8	0.15	0.087	0.3	660	<0.008	0.38	230	0.13	26	1500	0.010	6.9	<1.0	<1.0	<2.0	210	2600	1.5	230	47
2/7/96	S96-0066*	Monitor Well ACW #11	3770	8740	11030	7.2	0.39	<1.25	0.4	668	<0.1	0.5	224	0.1	31	1400	<0.1	7.6	<2.5	<2.5	<7.5	200	2590	1.6	248	46
5/8/96	S96-0262	Monitor Well ACW #11	3120	5080	9840	7.3	0.37	<1.25	<0.5	484	0.02	0.3	220	0.09	29	1160	<0.05	6.76	<1.0	<1.0	<3.0	111	2110	<1.25	206	50
8/13/96	S96-0383	Monitor Well ACW #11	4200	10000	12000	7.3	1.0	0.18	0.4	540	0.013	0.28	190	0.061	24	1700	0.12	7.9	2.2	<1.0	<2.0	160	2100	2	230	47
11/5/96	S96-0578	Monitor Well ACW #11	13000	25000	29	7.3	0.4	0.31	0.3	1200	<0.007	0.25	430	0.14	35	5100	0.068	32	1.7	<1.0	1.2	170	4700	2.9	560	21
2/19/97	S97-0042	Monitor Well ACW #12	380	950	1610													<0.5	<0.5	1.5	<1.0					
2/19/97	S97-0043	Monitor Well ACW #12D	390	960	1630													2.9	<0.5	<0.5	<1.0					
2/20/97	S97-0045	Monitor Well ACW #13	53	440	681													<0.5	<0.5	1.5	<1.0					
2/20/97	S97-0046	Monitor Well ACW #14	86	570	830													<0.5	<0.5	<0.5	<1.0					

* Analysis done by T.O.E. Lab

EL PASO NATURAL GAS

MEMORANDUM

TO: William C. Olson
FROM: Steven Brisbin

DATE: JANUARY 5,1998
PLACE: Technical Services Division

SUBJECT: JAL #4 MONITOR WELLS

.Listed below is the schedule for sampling Jal#4 monitor wells. If a problem should arise that would change this schedule I will notify you. If you have any question's please call me at (915)759-2329.

FEBRUARY 23 THRU 25,1998
MAY 11 THRU 15,1998
AUGUST 10 THRU 12,1998
OCTOBER 19THRU 23,1998

Thank You,Steve Brisbin

EL PASO ENERGY

July 21, 1997

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Requested Ground Water Investigation Report
EPNG Jal No. 4
Lea County, New Mexico

Dear Mr. Olson:

Pursuant to our telephone conversation regarding OCD's letter dated July 8, 1997, item 1, a report was submitted by our consultant, Philip Environmental, on October 14, 1996. The report is entitled *Jal No. 4 Groundwater Delineation Report* and addresses OCD's requested information.

Please contact me at (713) 757-3827, if you have questions or need additional information.

Sincerely,

Gerry Garibay
Senior Environmental Scientist
Discontinued Operations

Enclosure

cc: Jerry Sexton
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 8, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-189

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

Environmental Affairs
JUL 14 1997
Discontinued Operations

RE: GROUND WATER MONITORING
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Company's (EPEC) April 29, 1997 "PHASE IV GROUND WATER CONTAMINATION STUDY, EPNG JAL NO. 4, LEA COUNTY, NEW MEXICO, PROPOSED PROJECT CHANGES AND FIRST QUARTER REPORT". This document contains EPEC's proposal to modify the ground water sampling program for the EPNG Jal #4 gas plant and to change the reporting frequency of ground water monitoring reports from quarterly to annually.

The monitoring and reporting proposal as contained in the above referenced document is approved with the following conditions:

1. By August 8, 1997, EPEC will provide the OCD with the investigation report which was required as a condition of approval in OCD's August 10, 1995 approval of EPEC's ground water remediation and investigation work plan.

2. Ground water from monitor wells ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on a quarterly basis for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).

3. Ground water from monitor wells ACW-1, ACW-2A, ACW-4, ACW-5, ACW-6, ACW-7, ACW-8, ACW-9, ACW-10, ACW-11, ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on an annual basis for concentrations of BTEX, total dissolved solids, major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals using EPA approved methods and QA/QC.

4. The annual report will be submitted to the OCD by February 15 of each year. The annual report will contain:

   a. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.

   b. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Copies of the most recent years laboratory analytical data sheets and associated QA/QC data will also be submitted

   c. A quarterly water table elevation map using the water table elevation of the ground water in all monitor wells.

   d. The volume of fluids recovered in the remediation/disposal system during each quarter and the total recovered and disposed to date.

5. EPEC will notify the OCD at least one week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

6. All documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Hobbs District Office.

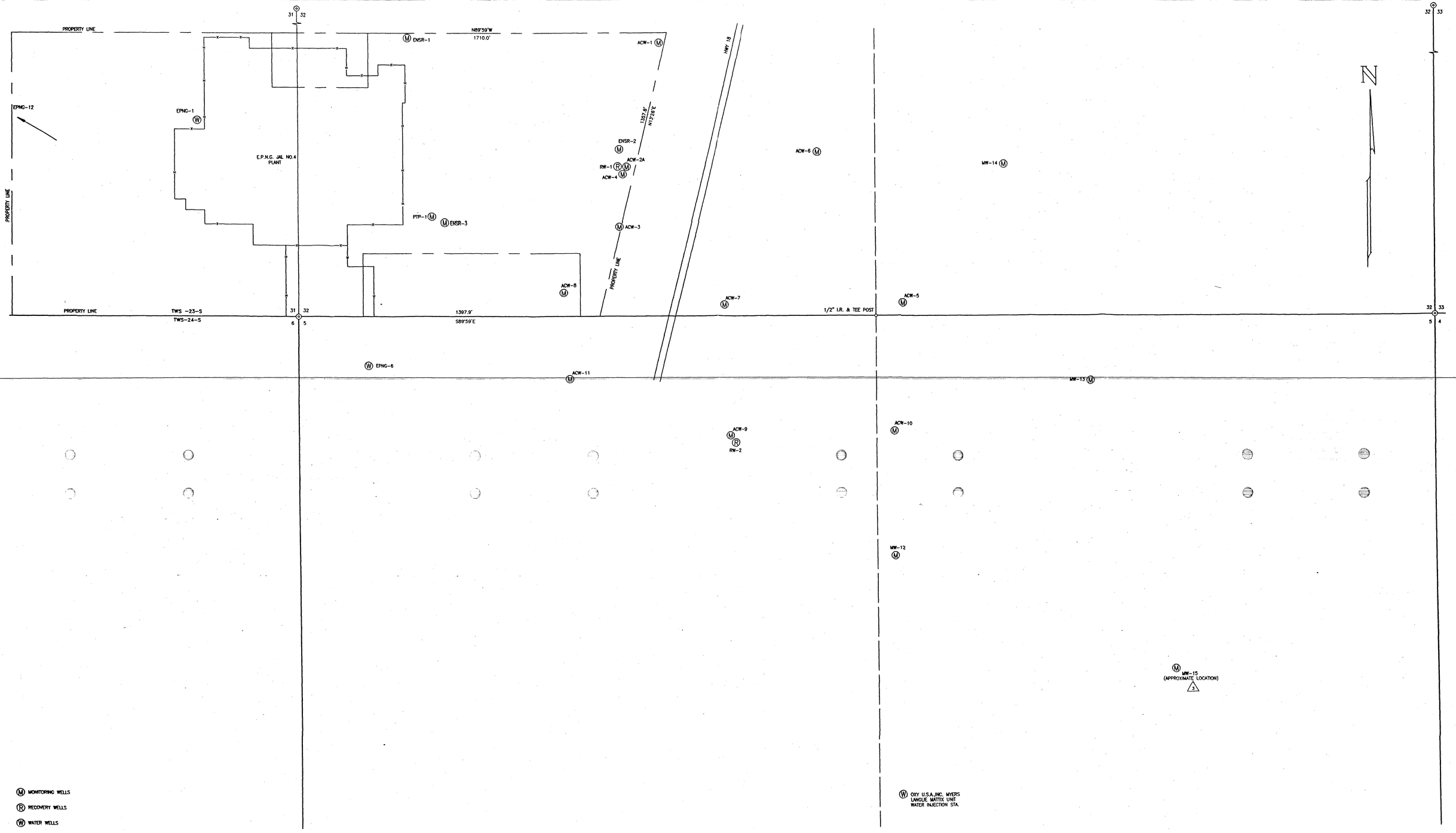
Please be advised that OCD approval does not relieve EPEC of liability should their remediation and monitoring program fail to adequately monitor or remediate ground water contamination related to EPEC's operations. In addition, this approval does not relieve EPEC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs Office



NO.	DATE	BY	DESCRIPTION	W.O.	APP.
3	5/12/99	DPC	ADDED MONITORING WELL 15		
2	9/30/96	JRM	REVISED WELL SYMBOLS		
1	9/24/96	JRM	ADDED WELLS 5,8,9,10,11		

REVISIONS

PRT.	SEP.	DATE	TO	W.O.

PRINT RECORD

ENG. RECORD		DATE
DRAFTING DESIGN		
CAD DRAFTING	JRM	8/30/96
CHECKED	MJ	8/30/96
PROJECT APPROVAL		
SURVEY DATE		
R/W NUMBER		
COMPUTER FILE NAME	J41P62	

REFERENCE DRAWINGS

DWG. NO.	TITLE
5004.7-X-21	PLANT MONITORING WELLS

LEGEND

FMS (Rev. 05/96)

El Paso NATURAL GAS COMPANY

JAL NO.4 PLANT

GROUNDWATER MONITORING WELL LOCATIONS

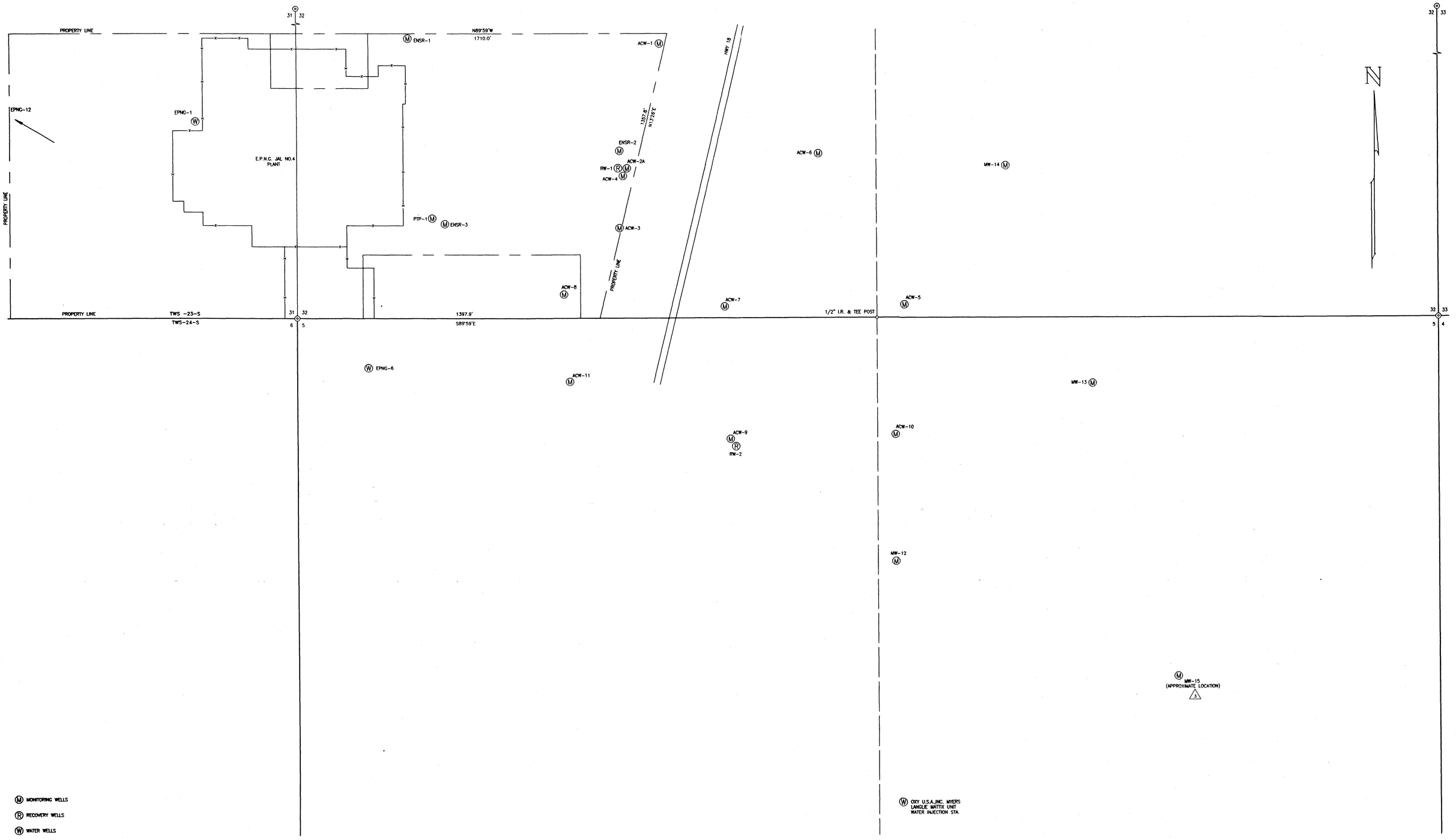
SCALE: 1"=200'

W.O.:

DWG. NO. J4-1-P62

REV. 3

WAS ENV067



MONITORING WELLS

RECOVERY WELLS

WATER WELLS

F169 (Rev. 05/98) LEGEND

5004.7-X-21 PLANT MONITORING WELLS
DWG. NO. TITLE
REFERENCE DRAWINGS

NO.	DATE	BY	DESCRIPTION	W.O.	APP.
3	5/12/99	DPC	ADDED MONITORING WELL 15		
2	9/30/98	JRM	REVISED WELL SYMBOLS		
1	9/24/96	JRM	ADDED WELLS 5,8,9,10,11		

REVISIONS

PRT.	SEP.	DATE	TO	W.O.

PRINT RECORD

ENG. RECORD		DATE
DRAFTING DESIGN		
CAD DRAFTING	JRM	8/30/96
CHECKED	MJ	8/30/96
PROJECT APPROVAL		
SURVEY DATE		
R/W NUMBER		
COMPUTER FILE NAME	J41P62	

El Paso NATURAL GAS COMPANY

JAL NO.4 PLANT
GROUNDWATER MONITORING WELL LOCATIONS

SCALE: 1"=200'
W.O.:
DWG. NO. J4-1-P62
REV. 3

WAS ENV067

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 8, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-189

Mr. Gerry Garibay
El Paso Energy Corporation
P.O. Box 2511
Houston, Texas 77252-2511

RE: GROUND WATER MONITORING
EPNG JAL #4
LEA COUNTY, NEW MEXICO

Dear Mr. Garibay:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Energy Company's (EPEC) April 29, 1997 "PHASE IV GROUND WATER CONTAMINATION STUDY, EPNG JAL NO. 4, LEA COUNTY, NEW MEXICO, PROPOSED PROJECT CHANGES AND FIRST QUARTER REPORT". This document contains EPEC's proposal to modify the ground water sampling program for the EPNG Jal #4 gas plant and to change the reporting frequency of ground water monitoring reports from quarterly to annually.

The monitoring and reporting proposal as contained in the above referenced document is approved with the following conditions:

already submitted 10/23/96

1. By August 8, 1997, EPEC will provide the OCD with the investigation report which was required as a condition of approval in OCD's August 10, 1995 approval of EPEC's ground water remediation and investigation work plan.

2. Ground water from monitor wells ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on a quarterly basis for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).

3. Ground water from monitor wells ACW-1, ACW-2A, ACW-4, ACW-5, ACW-6, ACW-7, ACW-8, ACW-9, ACW-10, ACW-11, ACW-12, ACW-13 and ACW-14 will be sampled and analyzed on an annual basis for concentrations of BTEX, total dissolved solids, major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals using EPA approved methods and QA/QC.

4. The annual report will be submitted to the OCD by February 15 of each year. The annual report will contain:

   a. A description of the monitoring and remediation activities which occurred during the year including conclusions and recommendations.

   b. Summary tables listing past and present laboratory analytic results of all water quality sampling for each monitoring point and plots of concentration vs. time for contaminants of concern from each monitoring point. Copies of the most recent years laboratory analytical data sheets and associated QA/QC data will also be submitted

   c. A quarterly water table elevation map using the water table elevation of the ground water in all monitor wells.

   d. The volume of fluids recovered in the remediation/disposal system during each quarter and the total recovered and disposed to date.

5. EPEC will notify the OCD at least one week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

6. All documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Hobbs District Office.

Please be advised that OCD approval does not relieve EPEC of liability should their remediation and monitoring program fail to adequately monitor or remediate ground water contamination related to EPEC's operations. In addition, this approval does not relieve EPEC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs Office

EL PASO ENERGY

APR 30 1997

April 29, 1997

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Phase IV Ground Water Contamination Study
EPNG Jal No. 4, Lea County, New Mexico
Proposed Project Changes and First Quarter Report

Dear Mr. Olson:

El Paso Natural Gas Company (EPNG) proposes to differ the installation of additional ground water monitoring wells, at the above referenced site, as recommended in the submitted *Jal No. 4, Groundwater Delineation Report* dated October 14, 1996. EPNG proposes to operate and monitor the recovery system prior to the installation, if required, of additional monitor wells. EPNG is also proposing to change the monitoring wells sampled quarterly and, in the future, submit annual reports with both quarterly and annual sampling results. The quarterly sampled wells, as shown below, will be analyzed for chlorides, TDS, conductivity, and BTEX. All wells will be sampled annually and analyzed for all previous quarterly parameters, as shown on the attached analytical table. The following monitoring wells and sampling frequency are proposed:

WELLS	QUARTER	ANNUAL
ACW-1		X
ACW-5		X
ACW-6		X
ACW-6		X
ACW-9		X
ACW-10		X
ACW-11		X
ACW-12	X	X
ACW-13	X	X
ACW-14	X	X

All
2, 4, 7, 8

El Paso Energy Corporation P.O. Box 2511 Houston, Texas 77252-2511 1001 Louisiana Street Houston, Texas 77002
Phone (713) 757-2131

In summary, the three new monitoring wells will be sampled on a quarterly basis and water samples analyzed for chlorides, TDS, conductivity, and BTEX. All of the above listed monitoring wells will be sampled annually and analyzed for the current quarterly parameters. The annual report will be submitted by February 15, 1998.

A summary of historical water quality analytical results for monitor wells ACW-1, ACW-5, ACW-6, ACW-10, ACW-11 and current water quality analytical results for monitor wells ACW-9, ACW-12, ACW-13, ACW-14 along with a current water table elevation map are attached.

Please contact me at (713) 757-3827, if you have any questions or need additional information.

Sincerely,

Gerry Garibay
Senior Environmental Scientist
Discontinued Operations

Attachments

cc: Jerry Sexton
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

SAMPLE KEY

SAMPLE NUMBER: S97-0037 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:00 SAMPLE DATE: 02/18/97

SAMPLE KEY

SAMPLE NUMBER: S97-0038 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:20 SAMPLE DATE: 02/18/97

SAMPLE KEY

SAMPLE NUMBER: S97-0039 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PUMP BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:50 SAMPLE DATE: 02/18/97

SAMPLE KEY

SAMPLE NUMBER: S97-0040 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PRODUCTION WELL # DOOME WATER WELL
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0041 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW9
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:39 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0042 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:55 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0043 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW12 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:55 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0044 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PRODUCTION WELL #OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:30 SAMPLE DATE: 02/19/97

SAMPLE KEY

SAMPLE NUMBER: S97-0045 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL # ACW13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:45 SAMPLE DATE: 02/20/97

SAMPLE KEY

SAMPLE NUMBER: S97-0046 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #ACW15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:25 SAMPLE DATE: 02/26/97

American Environmental Network (Arizona), Inc.

AEN I.D. 702277

March 7, 1997

El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904

Project Name/Number: Jal #4

Attention: Darrell Campbell

On 02/22/97, American Environmental Network (Arizona), Inc., received a request to analyze **aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

EPA method 160.1-total dissolved solids analysis was added on 02/26/97 for all samples. Per the clients request, run analysis past holding time.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager

LE/jk

Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network (Arizona), Inc.

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4
DATE RECEIVED : 02/22/97
REPORT DATE : 03/07/97
ATI I.D. : 702277

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	S97-0037	AQUEOUS	02/18/97
02	S97-0038	AQUEOUS	02/18/97
03	S97-0039	AQUEOUS	02/18/97
04	S97-0040	AQUEOUS	02/19/97
05	S97-0041	AQUEOUS	02/19/97
06	S97-0042	AQUEOUS	02/19/97
07	S97-0043	AQUEOUS	02/19/97
08	S97-0044	AQUEOUS	02/19/97
09	S97-0045	AQUEOUS	02/20/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	9

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 702277

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/22/97
REPORT DATE : 03/07/97

PARAMETER	UNITS	01	02	03	04	05
CHLORIDE (EPA 325.2)	MG/L	<0.5	<0.5	110	38	1260
CONDUCTIVITY, (UMHOS/CM)		2	2	732	618	4110
T. DISSOLVED SOLIDS (160.1)	MG/L	<10	<10	460	440	2500

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 702277

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/22/97
REPORT DATE : 03/07/97

PARAMETER	UNITS	06	07	08	09
CHLORIDE (EPA 325.2)	MG/L	380	390	70	53
CONDUCTIVITY, (UMHOS/CM)		1610	1630	659	681
T. DISSOLVED SOLIDS (160.1)	MG/L	950	960	440	440

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4 ATI I.D. : 702277

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHLORIDE	MG/L	70218004	15	14	7	68	50	106
CHLORIDE	MG/L	70227702	<0.5	<0.5	NA	9	10	90
CHLORIDE	MG/L	70231401	150	150	0	350	200	100
CONDUCTIVITY(UMHOS/CM)		70228804	316	314	0.6	NA	NA	NA
TOTAL DISSOLVED SOLIDS	MG/L	70227701	<10	<10	NA	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227701

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/18/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0037	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	96

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227702

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/18/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0038	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227703

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/18/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0039	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	100

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227704

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0040	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	92

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227705

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0041	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	1.3
TOLUENE	4.0
ETHYLBENZENE	10
TOTAL XYLENES	4.2
METHYL-t-BUTYL ETHER	8.0

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	103

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227706

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0042	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	1.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	93

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227707

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0043	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	2.9
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	8.1

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227708

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/19/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0044	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	1.4
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70227709

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/20/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/22/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0045	DATE ANALYZED	: 02/24/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	1.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	98

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	ATI I.D.	: 702277
PROJECT #	: (NONE)	DATE EXTRACTED	: N/A
PROJECT NAME	: JAL #4	DATE ANALYZED	: 02/24/97
CLIENT I.D.	: REAGENT BLANK	UNITS	: UG/L
		DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	103

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 702277

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4
REF I.D. : 70227709

DATE ANALYZED : 02/24/97
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.5	20	18	90	18	90	0
TOLUENE	<0.5	20	18	90	19	95	5
ETHYLBENZENE	1.5	20	18	82	19	88	5
TOTAL XYLENES	<0.5	60	55	92	55	92	0
METHYL-t-BUTYL ETHER	<2.5	40	45	112	45	112	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spiked Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

American Environmental Network (Arizona), Inc.

DATE OF ANALYSIS

ACCESSION #: 702277

SAMPLE ID	TEST AND METHOD NUMBER	DATE OF ANALYSIS	ANALYST
70227701	CHLORIDE (EPA 325.2)	03/05/97	CM
70227702	CHLORIDE (EPA 325.2)	03/05/97	CM
70227703	CHLORIDE (EPA 325.2)	03/05/97	CM
70227704	CHLORIDE (EPA 325.2)	03/05/97	CM
70227705	CHLORIDE (EPA 325.2)	03/06/97	CM
70227706	CHLORIDE (EPA 325.2)	03/06/97	CM
70227707	CHLORIDE (EPA 325.2)	03/06/97	CM
70227708	CHLORIDE (EPA 325.2)	03/05/97	CM
70227709	CHLORIDE (EPA 325.2)	03/06/97	CM
70227701	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227702	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227703	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227704	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227705	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227706	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227707	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227708	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227709	CONDUCTIVITY, (UMHOS/CM)	02/25/97	PS
70227701	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227702	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227703	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227704	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227705	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227706	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227707	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227708	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH
70227709	T. DISSOLVED SOLIDS (160.1)	02/27/97	DH

REFERENCES: Methods for Chemical Analysis of Water and Wastes, March 1983, EPA-600 4-79-020

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

#702277

Page ______ of ______

PROJECT NUMBER:

PROJECT NAME: Jal #4

SAMPLERS: (Signature) [signature]

DATE: 2/19/97

CONTRACT LABORATORY P. O. NUMBER:

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: BTEX	Cl	[illegible]				REMARKS
1	2/18/97	1600	H_2O	597-0037	3		X	X	X				
2	2/18/97	1620	H_2O	597-0038	3								
3	2/18/97	1650	H_2O	597-0039	3								
4	2/19/97	1330	H_2O	597-0040	3								
5	2/19/97	1539	H_2O	597-0041	3								
6	2/19/97	1755	H_2O	597-0042	3								
7	2/19/97	1755	H_2O	597-0043	3								
8	2/19/97	1730	H_2O	597-0044	3								
9	2/20/97	1145	H_2O	597-0045	3								

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	2/21/97 1200				

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
				2/22/97 1014	[signature]

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH

CARRIER CO

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08 0566 (Rev 5 95)

American Environmental Network (Arizona), Inc.

AEN I.D. 702384

March 18, 1997

El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904

Project Name/Number: JAL #4

Attention: Darrell Campbell

On 02/28/97, American Environmental Network (Arizona), Inc., received a request to analyze **aqueous** sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager

LE/jk

Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network (Arizona), Inc.

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/28/97
REPORT DATE : 03/17/97

ATI I.D. : 702384

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	S97-0046	AQUEOUS	02/26/97

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 702384

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4

DATE RECEIVED : 02/28/97
REPORT DATE : 03/17/97

PARAMETER	UNITS	01
CHLORIDE (EPA 325.2)	MG/L	86
CONDUCTIVITY, (UMHOS/CM)		830
T. DISSOLVED SOLIDS (160.1)	MG/L	570

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4 ATI I.D. : 702384

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CHLORIDE	MG/L	70317003	7	7	0	17	10	100
CONDUCTIVITY(UMHOS/CM)		70231501	920	917	0.3	NA	NA	NA
TOTAL DISSOLVED SOLIDS	MG/L	70236301	290	290	0	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70238401

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 02/26/97
PROJECT #	: (NONE)	DATE RECEIVED	: 02/28/97
PROJECT NAME	: JAL #4	DATE EXTRACTED	: N/A
CLIENT I.D.	: S97-0046	DATE ANALYZED	: 03/06/97
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5
SURROGATE PERCENT RECOVERIES	
BROMOFLUOROBENZENE (%)	86

REAGENT BLANK

TEST : BTEX + MTBE (EPA METHOD 8020)

		ATI I.D.	: 702384
CLIENT	: EL PASO NATURAL GAS	DATE EXTRACTED	: N/A
PROJECT #	: (NONE)	DATE ANALYZED	: 03/06/97
PROJECT NAME	: JAL #4	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
BENZENE	<0.5
TOLUENE	<0.5
ETHYLBENZENE	<0.5
TOTAL XYLENES	<1.0
METHYL-t-BUTYL ETHER	<2.5

SURROGATE PERCENT RECOVERIES

BROMOFLUOROBENZENE (%)	99

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 702384

TEST : BTEX + MTBE (EPA METHOD 8020)

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAL #4
REF I.D. : 70238401

DATE ANALYZED : 03/06/97
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.5	20	19	95	19	95	0
TOLUENE	<0.5	20	19	95	19	95	0
ETHYLBENZENE	<0.5	20	21	105	20	100	5
TOTAL XYLENES	<1.0	60	65	108	63	105	3
METHYL-t-BUTYL ETHER	<2.5	40	37	92	38	95	3

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

American Environmental Network (Arizona), Inc.

DATE OF ANALYSIS

ACCESSION #: 702384

SAMPLE ID	TEST AND METHOD NUMBER	DATE OF ANALYSIS	ANALYST
70238401	CHLORIDE (EPA 325.2)	3/13/97	CM
70238401	CONDUCTIVITY, (UMHOS/CM)	2/28/97	PS
70238401	T. DISSOLVED SOLIDS (160.1)	2/28/97	DH

REFERENCES: Methods for Chemical Analysis of Water and Wastes, March 1983, EPA-600 4-79-020

El Paso Natural Gas Company

AEN# 702384

CHAIN OF CUSTODY RECORD

Page ______ of ______

PROJECT NUMBER:

PROJECT NAME: Jal #4

SAMPLERS: (Signature) [signature] DATE: 2/26/97

CONTRACT LABORATORY P. O. NUMBER:

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: BTEX	Cl, TDS	Specific Conductance				REMARKS
1	2/26/97		H2O	597-0046	3		X	X	X				

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	2/26/97 1400				
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
				2/28/97 1023	[signature]

REQUESTED TURNAROUND TIME
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev 5-

JAL #4 MONITOR WELL

4/29/97

SAMPLE DATE	SAMPLE NUMBER	SAMPLE DESCRIPTION	Chloride mg/l	Residue, Filterable (TDS) mg/l	Specific Conductance umho/cm	pH	Fluoride mg/l	Nitrate mg/l	Boron mg/l	Calcium mg/l	Copper mg/l	Iron mg/l	Magnesium mg/l	Manganese mg/l	Potassium mg/l	Sodium mg/l	Zinc mg/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Total Xylene ug/l	Alkalinity (as CaCO3) mg/l	Hardness (as CaCO3) mg/l	Bromide mg/l	Sulfate mg/l	Silica mg/l
3/5/93	S93-0100	Monitor Well ACW #01	4045	8505	14350																					
9/15/93	S93-0531	Monitor Well ACW #01	2915	6016	10360																					
11/10/93	S93-0683	Monitor Well ACW #01	3683	7340	11780																					
4/20/94	S94-0377	Monitor Well ACW #01	5400	8430	16520																					
10/27/94	S94-0717	Monitor Well ACW #01	3700	8440	14630																					
5/16/95	S95-0231	Monitor Well ACW #01	4100	8200	14000	8.3	25	<2.0	0.9	66	<0.025	0.38	72	0.062	12	2600	0.020	<5	<10	<5	0	700	470	1.8	240	33
8/27/95	S95-0383	Monitor Well ACW #01	6700	8400	1400	8.4	22	<2.0	1.0	74	<0.025	0.59	92	0.077	15	3200	<0.02	4.6	4.6	<2.5	140	710	510	1.9	260	35
8/29/95	S95-0448	Monitor Well ACW #01	3300	12000	21000	8.2	18	<20	0.8	67	<0.025	0.18	78	0.069	11	2400	<0.02	6	<10	<5	<15	820	590	2.2	210	28
2/6/96	S96-0063	Monitor Well ACW #01	5200	9700	16000	8.3	0.88	0.02	1.0	78	<0.006	0.56	100	0.069	16	4300	0.010	6.1	3	1.9	2.8	830	620	2.1	280	36
2/6/96	S96-0064*	Monitor Well ACW #01	5770	9440	16170	8.2	2.1	<1.25	1.1	84	<0.1	0.7	102	0.1	17	3900	<0.1	5.6	2.7	3	<7.5	759	630	2.06	293	41
5/6/96	S96-0263	Monitor Well ACW #01	4130	8190	14620	8.2	2.2	<1.25	1.0	93	0.01	0.6	118	0.09	18	3070	<0.05	6.3	2.03	<1.0	<3.0	310	718	<1.25	268	54
8/13/96	S96-0381	Monitor Well ACW #01	3500	7400	12000	8.1	4.9	<0.05	1.1	110	0.019	0.68	100	0.078	8.6	2400	0.008	3.5	1.2	<1.0	<2.0	730	690	1.9	270	41
11/5/96	S96-0576	Monitor Well ACW #01	3700	7200	11000	8.1	4.4	<0.05	1.0	81	<0.007	0.59	98	0.062	11	3000	0.011	5.6	2.5	<1.0	1.3	810	810	2	250	16
3/10/93	S93-0114	Monitor Well ACW #05	2544	6110	10400																					
6/17/93	S93-0387	Monitor Well ACW #05	1228	323	4480																					
9/16/93	S93-0536	Monitor Well ACW #05	650	3064	4140																					
11/9/93	S93-0678	Monitor Well ACW #05	720	3202	4390																					
4/21/94	S94-0385	Monitor Well ACW #05	800	3300	4131																					
10/28/94	S94-0749	Monitor Well ACW #05	550	3112	4500																					
1/31/95	S95-0015	Monitor Well ACW #05	499	2848	4050																					
5/16/95	S95-0229	Monitor Well ACW #05	530	2800	3900	7.0	<1.0	3.5	0.9	270	<0.025	0.46	39	0.026	6.6	540	0.020	<5	<10	<5	0	320	980	1.3	1100	57
8/27/95	S95-0380	Monitor Well ACW #05	460	2800	3800	7.3	<1.0	3.4	1.0	270	<0.025	0.34	40	0.02	6.9	530	0.020	<2.5	<2.5	<2.5	<5.0	320	240	1.1	800	56
8/30/95	S95-0450	Monitor Well ACW #05	510	2700	3900	7.0	<10	<20	1.1	240	<0.025	<0.10	36	<0.015	6.7	550	0.020	<5	<10	<5	<15	310	810	1	890	44
2/6/96	S96-0061	Monitor Well ACW #05	510	2200	3800	7.5	0.12	4.7	1.4	240	<0.006	1.5	32	0.026	6.5	580	0.015	<1.0	<1.0	<1.0	<2.0	260	740	0.92	920	64
2/6/96	S96-0062*	Monitor Well ACW #05	506	2745	3090	7.3	0.29	4.9	1.4	240	<0.1	2	32	0.1	8.1	580	<0.1	<2.5	<2.5	<2.5	<7.5	284	730	<1.25	835	66
5/8/96	S96-0258	Monitor Well ACW #05	519	2460	3650	7.2	0.42	5	0.8	167	0.01	0.2	24	<0.05	8	506	<0.05	<1.0	<1.0	<1.0	<3.0	190	515	4.5	653	35
8/13/96	S96-0385	Monitor Well ACW #05	500	2500	3400	7.3	0.7	5.4	2.0	200	<0.006	0.024	28	<0.007	6.3	520	0.033	<1.0	1.2	<1.0	<2.0	320	620	1	710	58
11/6/96	S96-0588	Monitor Well ACW #05	500	2300	3300	7.5	0.57	<0.05	1.9	180	<0.007	0.3	25	0.008	8	520	0.022	1.1	1.4	1.2	<2.0	350	560	1.2	710	27

* Analysis done by T.O.E. Lab

JAL #4 MONITOR WELL

SAMPLE DATE	SAMPLE NUMBER	SAMPLE DESCRIPTION	Chloride mg/l	Residue, Filterable (TDS) mg/l	Specific Conductance umho/cm	pH	Fluoride mg/l	Nitrate mg/l	Boron mg/l	Calcium mg/l	Copper mg/l	Iron mg/l	Magnesium mg/l	Manganese mg/l	Potassium mg/l	Sodium mg/l	Zinc mg/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Total Xylene ug/l	Alkalinity (as CaCO3) mg/l	Hardness (as CaCO3) mg/l	Bromide mg/l	Sulfate mg/l	Silica mg/l
6/18/93	S93-0368	Monitor Well ACW #06	2106	5027	8220																					
9/16/93	S93-0537	Monitor Well ACW #06	2737	6656	11130																					
11/8/93	S93-0877	Monitor Well ACW #06	2154	5646	8540																					
4/21/94	S94-0384	Monitor Well ACW #06	3600	6930	11080																					
10/28/94	S94-0750	Monitor Well ACW #06	2100	6910	11988																					
1/31/95	S95-0016	Monitor Well ACW #06	2673	6755	11530																					
5/16/95	S95-0230	Monitor Well ACW #06	2800	6400	10000	8.1	31	<2.0	0.9	70	<0.025	3.9	19	0.079	<5.0	2200	0.020	<5	<10	<5	0	1300	200	1.4	110	48
8/27/95	S95-0379	Monitor Well ACW #06	3500	8600	10000	9.0	44	<2.0	1.1	64	<0.025	5.8	16	0.082	<5.0	3000	0.060	14	<2.5	<2.5	<5.0	1500	130	1.8	110	44
8/29/95	S95-0449	Monitor Well ACW #06	3000	7100	12000	8.4	28	<20	0.9	42	<0.025	0.54	16	0.04	<5.0	2500	0.020	7	<10	<5	<15	1500	200	1.8	110	42
2/6/96	S96-0059	Monitor Well ACW #06	2600	6600	11000	8.0	3.8	0.0071	1.1	91	<0.006	4.6	23	0.12	3.6	2700	0.029	6.6	3.2	<1.0	<2.0	1400	320	1.3	72	62
2/6/96	S96-0060*	Monitor Well ACW #06	3180	5630	10320	7.8	10	<1.25	1.3	76	<0.1	5	21	0.1	3.6	2400	<0.1	<2.5	<2.5	<2.5	<7.5	1315	275	1.52	79	50
5/8/96	S96-0257	Monitor Well ACW #06	2880	6460	10620	7.7	8.4	<1.25	1.3	35	0.02	4.1	21	0.14	4	2380	<0.05	4.08	1.58	<1.0	<3.0	1398	175	<1.25	48	40
8/14/96	S96-0321	Monitor Well ACW #06	2900	7100	11000	7.9	21	<0.05	1.2	85	<0.006	4.5	23	0.13	3.4	2900	0.024	4.2	2.6	<2.0	<2.0	1400	310	1.8	88	60
11/6/96	S96-0585	Monitor Well ACW #06	3400	7700	12000	8.6	18	<0.05	1.2	98	<0.007	5.3	27	0.16	3.8	2800	0.032	4.5	1.5	<1.0	<2.0	1600	360	1.3	74	32
11/6/96	S96-0586	Monitor Well ACW #06	3600	7700	12000	8.6	18	<0.05	1.1	88	<0.007	4	22	0.13	3.6	2400	0.019	4.6	1.5	<1.0	<2.0	1600	310	1.3	62	27
6/17/93	S93-0391	Monitor Well ACW #09	2288	4435	5900																					
9/14/93	S93-0525	Monitor Well ACW #09	915	2119	3100																					
11/9/93	S93-0879	Monitor Well ACW #09	1184	2300	3670																					
4/22/94	S94-0387	Monitor Well ACW #09	1150	2508	3900																					
12/1/94	S94-0795	Monitor Well ACW #09	1650	3510	5450																					
1/31/95	S95-0017	Monitor Well ACW #09	2083	4240	7110																					
5/17/95	S95-0233	Monitor Well ACW #09	5600	6800	11000	6.6	<1.0	<2.0	0.4	820	<0.025	0.17	280	1	16	910	0.025	<5	22	<5	0	320	4500	2.1	440	49
8/28/95	S95-0384	Monitor Well ACW #09	3500	6200	9100	7.0	<1.0	<2.0	0.4	770	<0.025	0.28	250	0.98	15	1000	0.020	<2.5	<2.5	<2.5	<5.0	300	2700	1.9	360	51
8/30/95	S95-0419	Monitor Well ACW #09	2500	4500	7150	6.5	<10	<20	0.4	640	<0.025	0.19	220	0.86	14	880	0.040	<5	<10	<5	<15	240	2000	1.5	370	43
2/7/96	S96-0069	Monitor Well ACW #09	2400	5400	7500	7.7	0.16	0.039	0.4	570	<0.006	0.48	180	0.71	14	810	0.010	1.8	<1.0	<1.0	<2.0	300	2200	1.5	320	47
2/7/96	S96-0070*	Monitor Well ACW #09	2300	4620	7450	6.8	0.36	<1.25	0.4	600	<0.1	0.4	175	0.7	18	810	<0.1	<2.5	<2.5	<2.5	<7.5	291	2220	1.85	341	56
5/8/96	S96-0259	Monitor Well ACW #09	2210	4210	7530	6.8	0.35	<1.25	<0.5	508	0.01	0.4	183	0.49	17	687	<0.05	<1.0	<1.0	<1.0	<3.0	209	2020	3	322	60
8/14/96	S96-0326	Monitor Well ACW #09	1200	3600	4400	7.4	1.4	0.13	0.4	490	<0.006	0.66	160	0.65	13	730	0.027	1.4	1.6	<1.0	<2.0	220	1900	1.2	180	53
11/7/96	S96-0590	Monitor Well ACW #09	1200	3100	4200	7.3	1.1	0.055	0.3	360	<0.007	0.4	110	0.44	10	510	0.029	2.3	2.2	<1.0	<2.0					
2/19/97	S96-0590	Monitor Well ACW #09	1260	2500	4110													1.3	4.0	10	4.2					

* Analysis done by T.O.E. Lab

JAL #4 MONITOR WELL

SAMPLE DATE	SAMPLE NUMBER	SAMPLE DESCRIPTION	Chloride mg/l	Residue, Filterable (TDS) mg/l	Specific Conductance umho/cm	pH	Fluoride mg/l	Nitrate mg/l	Boron mg/l	Calcium mg/l	Copper mg/l	Iron mg/l	Magnesium mg/l	Manganese mg/l	Potassium mg/l	Sodium mg/l	Zinc mg/l	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Total Xylene ug/l	Alkalinity (as CaCO3) mg/l	Hardness (as CaCO3) mg/l	Bromide mg/l	Sulfate mg/l	Silica mg/l
6/18/93	S93-0392	Monitor Well ACW #10	1027	701	1081																					
9/14/93	S93-0526	Monitor Well ACW #10	421	1190	1349																					
11/9/93	S93-0680	Monitor Well ACW #10	420	1238	1800																					
4/22/94	S94-0388	Monitor Well ACW #10	700	1638	2440																					
10/26/94	S94-0751	Monitor Well ACW #10	600	1694	2592																					
2/1/95	S95-0019	Monitor Well ACW #10	619	1426	2660																					
5/17/95	S95-0234	Monitor Well ACW #10	1600	2300	3900	6.9	<1.0	1.1	0.3	320	<0.025	0.12	110	0.037	8	170	0.020	<5	<10	<5	0	190	1300	1.1	300	43
8/28/95	S95-0385	Monitor Well ACW #10	1900	2300	3100	7.3	<1.0	<2.0	0.3	280	<0.025	0.28	94	0.029	7.5	160	0.020	<2.5	<2.5	<2.5	<5.0	190	1200	0.98	230	48
8/30/95	S95-0420	Monitor Well ACW #10	790	2200	3100	7.0	<10	<20	0.2	280	<0.025	<0.20	95	0.034	52	150	0.040	<5	<10	<5	<15	180	1100	0.9	210	42
2/7/96	S95-0071	Monitor Well ACW #10	850	2300	3200	7.8	0.24	0.42	0.3	320	<0.008	0.24	110	0.032	8.4	190	0.011	3.9	<1.0	<1.0	<2.0	200	1200	0.88	230	38
2/7/96	S96-0072*	Monitor Well ACW #10	829	2100	3100	7.1	0.44	<1.25	0.3	320	<0.1	0.4	107	<0.1	9.4	190	<0.1	4.3	<2.5	<2.5	<7.5	194	1240	<1.25	242	54
5/8/96	S96-0261	Monitor Well ACW #10	603	1290	2322	7.2	0.46	2.2	<0.5	208	<0.01	0.1	92	<0.05	8	127	<.05	1.22	<1.0	<1.0	<3.0	137	893	4.5	190	62
8/14/96	S96-0327	Monitor Well ACW #10	560	1900	2400	7.8	1.4	0.58	0.3	210	<0.008	0.14	71	0.019	7	140	0.037	<1.0	<1.0	<1.0	<2.0	170	810	0.82	160	47
11/7/96	S96-0591	Monitor Well ACW #10	610	1800	250	7.5	1.1	0.49	0.2	200	<0.007	0.22	70	0.017	7.4	150	0.025	1.2	1.5	<1.0	<2.0	170	800	0.83	170	20
6/19/93	S93-0393	Monitor Well ACW #11	9737	18670	25000																					
9/15/93	S93-0534	Monitor Well ACW #11	3437	6820	10570																					
11/9/93	S93-0681	Monitor Well ACW #11	3620	6592	10160																					
4/21/94	S94-0382	Monitor Well ACW #11	6400	9520	16290																					
10/27/94	S94-0720	Monitor Well ACW #11	6200	13280	20080																					
10/27/94	S94-0721	Monitor Well ACW #11	6600	12900	20550																					
2/1/95	S95-0020	Monitor Well ACW #11	11582	19880	32200																					
5/17/95	S95-0235	Monitor Well ACW #11	4400	7200	12000	6.8	<1.0	<2.0	0.3	740	<0.025	0.36	260	0.23	16	1200	0.020	<5	<10	<5	0	230	3300	1.9	250	42
8/27/95	S95-0381	Monitor Well ACW #11	6500	7000	11000	7.2	<1.0	<2.0	0.4	720	<0.025	0.29	270	0.2	16	980	0.020	5.1	<2.5	<2.5	<5.0	210	2800	1.6	210	45
8/29/95	S95-0447	Monitor Well ACW #11	3400	6000	10000	6.8	6.2	<2.0	0.3	550	<0.025	0.17	210	0.088	16	880	0.020	8	<10	<5	<15	220	2700	2.2	220	44
2/7/96	S96-0065	Monitor Well ACW #11	3400	7400	11000	7.8	0.15	0.087	0.3	660	<0.008	0.38	230	0.13	26	1500	0.010	6.9	<1.0	<1.0	<2.0	210	2600	1.5	230	47
2/7/96	S96-0066*	Monitor Well ACW #11	3770	6740	11030	7.2	0.39	<1.25	0.4	668	<0.1	0.5	224	0.1	31	1400	<0.1	7.6	<2.5	<2.5	<7.5	200	2590	1.6	248	48
5/8/96	S96-0262	Monitor Well ACW #11	3120	5080	9840	7.3	0.37	<1.25	<0.5	484	0.02	0.3	220	0.09	29	1160	<0.05	6.76	<1.0	<1.0	<3.0	111	2110	<1.25	208	50
8/13/96	S96-0383	Monitor Well ACW #11	4200	10000	12000	7.3	1.0	0.18	0.4	540	0.013	0.28	190	0.081	24	1700	0.12	7.9	2.2	<1.0	<2.0	160	2100	2	230	47
11/5/96	S96-0578	Monitor Well ACW #11	13000	25000	29	7.3	0.4	0.31	0.3	1200	<0.007	0.25	430	0.14	35	5100	0.068	32	1.7	<1.0	1.2	170	4700	2.9	560	21
2/19/97	S97-0042	Monitor Well ACW #12	380	950	1610													<0.5	<0.5	1.5	<1.0					
2/19/97	S97-0043	Monitor Well ACW #12D	390	980	1630													2.9	<0.5	<0.5	<1.0					
2/20/97	S97-0045	Monitor Well ACW #13	53	440	681													<0.5	<0.5	1.5	<1.0					
2/20/97	S97-0046	Monitor Well ACW #14	86	570	830													<0.5	<0.5	<0.5	<1.0					

* Analysis done by T.O.E. Lab

POTENTIOMETRIC SURFACE MAP
February 1997

El Paso
NATURAL GAS COMPANY

JAL NO.4 PLANT

DWG. NO. J4-1-F62

REV. 2

EL PASO NATURAL GAS

March 31, 1997

Mr. William C. Olson
Hydrogeologist, Environmental Bureau
Energy, Mineral and Natural Resources Department
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Phase IV Ground Water Contamination Study
EPNG Jal No. 4, Lea County New, Mexico
First Quarter 1997 Submittal Extension

Dear Mr. Olson:

Pursuant to our discussion on March 27, the quarterly report for the above referenced site will be submitted by May 1, 1997. The project files are in the process of being moved from El Paso to Houston, Texas.

If you have any questions or need additional information, please contact me at 915/496-5764 or 713/757-3827.

Sincerely,

Gerry Garibay
Senior Environmental Scientist
Discontinued Operations

cc: Jerry Sexton,
Hobbs District Supervisor
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☑ Telephone ☐ Personal	Time 1430	Date 2/13/97
Originating Party	**Other Parties**	
Bill Olson - Envir. Bureau	~~DCP~~ Gerry Gerribay - EPNG (915) 496-5764	

Subject

JAL # 4

Discussion

Called to discuss additional monitor well recommendations in Oct 1996 report

He would like to defer additional monitor wells until Rhythm monitoring data is accumulated. Also wants to change monitoring program to include new monitor well

Conclusions or Agreements

He will send letter ASAP

Distribution
file

Signed Bill Olson

EL PASO NATURAL GAS

MEMORANDUM

TO: WILLIAM OLSON
FROM: STEVE BRISBIN

DATE: JANUARY 8,1997
PLACE: Technical Services Division

SUBJECT: JAL #4 MONITOR WELLS

.Listed below is the schedule for sampling Jal#4 monitor wells. If a problem should arise that would change this schedule I will notify you. If you have any question's please call me at (915)759-2329.

FEBRUARY 17 THRU 21,1997
MAY 5 THRU 9,1997
AUGUST 11 THRU 15,1997
OCTOBER 20 THRU 24,1997

Thank You,Steve Brisbin

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☑ Telephone ☐ Personal	Time 0845	Date 1/8/97

Originating Party	Other Parties
Steve Bisman - EPNG	Bill Olson - Envir. Bureau

Subject

Jal #4 Gas Plant

Discussion

Will be sampling monitor wells on following tentative schedule for 1997

week of - Feb 17th
- May 5th
- August 11th
- Oct 20th

Conclusions or Agreements

Distribution

file
Wayne Price - OCD Hobbs

Signed Bill Olson

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

Legal Notice

Notice of Publication

and numbered ..... was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, for one(1) day consecutive weeks, beginning with the issue of

March 4, 19 97

and ending with the issue of

March 4, 19 97

And that the cost of publishing said notice is the sum of $ 88.40

which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 4th day of March, 19 97

Jeanne Scruggs
Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28, 19 98

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 renewal applications have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-107) - Sid Richardson Gasoline, Co., Mr. Wayne Farley, (817)-390-8686, 201 N. Main, Fort Worth, TX, 76102, has submitted a Discharge Plan Renewal Application for their Jal #4 Compressor Station located in the SE/4, Section 31, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 105 feet with a total dissolved solids concentration of approximately 331 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-120) - Amoco Production Company, Mr. Buddy Shaw, (505)-326-9219, 200 Amoco Court, Farmington, NM, 87401, has submitted a Discharge Plan Renewal Application for their Pipkin Compressor Station located in the NW/4 NW/4, Section 36, Township 28 North, Range 11 West, NMPM, San Juan County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 10 feet with a total dissolved solids concentration of approximately 1000 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-104) - Yates Petroleum Corporation, Mr. John F. Brown, (505) 748-4219, 105 S. 4th Street, Artesia, NM, 88210, has submitted a Discharge Plan Renewal Application for their Algerita Compressor Station located in the SE/4 NE/4, Section 16, Township 20 South, Range 24 East, NMPM, Eddy County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 387 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-105) - Yates Petroleum Corporation, Mr. John F. Brown, (505)-748-4219, 105 S. 4th Street, Artesia, NM, 88210, has submitted a Discharge Plan Renewal Application for their Larue Compressor Station located in the SE/4 NW/4, Section 3, Township 20 South, Range 24 East, NMPM, Eddy County, New Mexico. Any potential discharge at the facility will be stored in a closed top receptacle. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface is at a depth of approximately 250 feet with a total dissolved solids concentration of approximately 387 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 renewal applications may be viewed at the above address between 8:00 a.m. and 4:00 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 24th day of February, 1997.

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

SEAL

Published in the Lovington Daily Leader March 4, 1997.

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
[illegible] S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

FEB 21 1997

Revised 12/1/9

Submit Origin.
Plus 1 Copi
to Santa I
1 Copy to appropria
District Offi

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, ~~WORK~~ Copy
GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS File Copy.
(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☒ Renewal ☐ Modification

1. Type: Compression facility
2. Operator: Sid Richardson Gasoline Co.
   Address: 201 Main Street, Suite 3000 Fort Worth, TX 76102
   Contact Person: Wayne J. Farley Phone: (817) 390-8686
3. Location: ____/4 SE /4 Section 31 Township 23-S Range 37-E
   Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATION

I herby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Wayne J. Farley Title: Manager, Gas Operations

Signature: Wayne J. Farley Date: 2-18-97

DISCHARGE PLAN

FOR

SID RICHARDSON GASOLINE CO.

JAL #4 PLANT - COMPRESSION FACILITY

LEA COUNTY, NEW MEXICO

Prepared By:

Sid Richardson Gasoline Co.

Fort Worth, Texas

February 1997

(MANUAL\DPSRGC)

INDEX

APPENDICES

A. Facility Site Plan

B. Drain System Flow Schematic

C. Drain System Plan

D. Procedures for Testing Drains

E. Analysis of Ground Water

F. MSDS of All Chemicals Used at Jal #4

G. Hauling/Disposal Contractors

H. 1992 Test Charts

I. GENERAL INFORMATION

A. Identity of Discharger

Mr. Wayne Farley, Gas Operations Manager
Sid Richardson Gasoline Co.
201 Main Street
Fort Worth, Texas 76102
Telephone: (817) 390-8686

B. Local Representative

Mr. George Washburn, Plant Manager
Sid Richardson Gasoline Co.
Jal #3 Gasoline Plant
P. O. Box 1311
Jal, New Mexico 88252
Telephone: (505) 395-2068

C. Location of Discharge

Jal #4 Gasoline Plant --
10 miles North of Jal, New Mexico, on Hwy. #18. The plant consists of one 36.364 acre tract located in the SE 1/4 of Section 31, T-23-S, R-37-E, N.M.P.M., Lea County, New Mexico. See Appendix A for the Plot Plan.

D. Type of Natural Gas Operation

The major purpose of the Jal #4 Plant-Compressor Facility is compression of rich natural gas from the Lea County Gathering System - High and Low Pressure Systems.

Rich natural gas, condensate, water and other hydrocarbon liquids are separated in inlet scrubbers and the liquids are dumped to aboveground storage tanks. The rich natural gas is then compressed from approximately 5 to 600 psig in three stages and leaves the plant. Interstage and after cooling of the gas results in additional water and hydrocarbon dropout. Produced liquids are removed in interstage and after scrubbers and then dumped to the field hydrocarbon separator operating at approximately 5 to 15 psig. Flashed vapors are then recycled to the inlet and the separated liquids are dumped to an aboveground storage tank. Inlet and produced liquids contained in the storage tanks are sold and trucked off-site.

E. Affirmation

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

Wayne J. Farley (Signature) 2-18-96 (Date)

Wayne J. Farley (Name) Manager, Gas Operations (Title)

II. PLANT PROCESSES

A. Sources and Quantities of Effluent and Process Fluids

a. Compressors and Generators - The "A" Compressor building houses seven Cooper-Bessemer GMV-10 integral compressors and one Ingersoll-Rand KVS-412 integral compressor with a total site horsepower of 10,500. The auxiliary building houses three General Electric, 570 KW, generators powered by Ingersoll-Rand PKVG-8LZ engines (2,442 site horsepower), six jacket water circulating pumps, and three starting air compressors. Both buildings contain floor drains which are connected to the Open Drain system (See Appendices B and C). The buildings have well-maintained concrete floors and all drips, spills and washdown water will be contained in the buildings or diverted to the floor drains.

The compressors and generator engines will be washed approximately twelve times a year, using approximately 19,800 gallons of water. Washdown water runoff will flow to the floor drains. The water will contain hydrocarbon from the lubricating oil and natural gas condensate and non-acid based soap.

Compressor and generator engine lube oil will be changed only when required by periodic lube oil analysis, but not less than annually. Approximately 2,750 gallons of waste oil will be disposed of annually. The oil will be collected and disposed of by an approved oil recycler. (See Appendix G)

All GMV and PKVG engines use inhibited water in their jacket water and lube oil cooling systems. The total volume of water contained in the jacket water and lube oil cooling systems is 27,755 gallons and 11,214 gallons, respectively.

The one KVS-412 has a separate jacket water and lube oil cooling system and uses Ambitrol CN as a coolant/antifreeze. The system contains 1,744 gallons as jacket coolant and 804 gallons as lube oil coolant.

New engine oil will be stored on-site in two 210-barrel steel tanks. Ambitrol CN will be stored on-site in a 50-barrel steel tank.

2. Scrubbers and Inlet Separators - Inlet scrubbers are located on the high and low pressure systems. The inlet scrubbers remove water and condensate from the inlet gas stream.

   The high pressure system scrubbers (V6 and V6A) dump the liquids into the section of the closed drain system which is connected to Storage Tanks #22 and #33. Liquids from the low pressure inlet scrubber are dumped into the section of the closed drain system which is connected to the Storage Tank #29301, south of the plant.

   The first stage compressor suction scrubber will collect any liquids which may condense downstream of the inlet scrubbers. The liquid will be dumped to the closed drain system connected to the Storage Tank #29301.

   The first, second and third stage discharge scrubbers collect compression liquids and dump them to a section of the closed drain system which flows to the North Field Flash Separator. The compressor headers and gas coolers are also tied into this system. Liquids from the North Field Flash Separator are dumped to Storage Tank #23 located with #22 and #33. Hydrocarbon vapors are recycled to the inlet of the facility.

   Liquids recovered and produced will vary with the season and the volume of gas being compressed by the facility. The predicted volume of liquids varies from 239 bbls/day in the winter to 210 bbls/day in the summer (sixty-five percent hydrocarbon and thirty-five percent water).

3. Storage Tanks - Recovered hydrocarbon liquids and water are stored in four aboveground steel storage tanks. Liquids flow to the tanks through the drain systems described in paragraphs 1 and 2 above. Tanks #23 and #33 are 410-barrel capacity and #22 is 436-barrel capacity; all are located on the north side of the plant. Storage Tank #29301 is 500-barrel capacity and is located on the south side of the plant. All tanks are set within a containment (berm) of sufficient size to contain 1 1/3 the volume of the tanks.

   Tank liquids will be approximately sixty-five percent hydrocarbon and the remainder water. Liquids will be pumped from the tanks on a regular basis by an approved disposal service.

B. Quality Characteristics of Sources Listed in Section A

Material Safety Data Sheets (MSDS) for all material used or encountered at Jal #4 are contained in Appendix F.

C. Transfer and Storage of Process Fluids and Effluents

Drainage System Flow schematic and Plan drawings indicating the flow within and location of the open and closed drain system are contained in Appendices B and C.

Drain testing procedures are contained in Appendix D. Drains will be tested on a five-year basis.

D. Spill/Leak Prevention and Housekeeping Procedures

Small spills will be absorbed with soil and picked up for off-site disposal by an OCD-approved disposal contractor.

Large spills will be contained with temporary berms. Free liquids will be removed with a vacuum truck. Contaminated soil will be picked up for off-site remediation by an OCD-approved contractor.

Verbal and written notification of leaks and spills will be made to OCD in accordance with OCD Rule 116 and SRGCo. procedures.

All areas identified during operation as susceptible to spills or leaks will be bermed or otherwise contained to prevent the discharge of any effluents.

III. EFFLUENT DISPOSAL

A. Existing Operations

1. On-Site Facilities - There are no on-site facilities for effluent disposal.

2. Off-Site Disposal - All effluents will be trucked off-site and handled in accordance with OCD and NMED regulations. All effluents will be recycled when possible.

   The recycling and disposal contractors used at Jal #4 will be approved by the New Mexico Environment Department or Oil Conservation Division, as appropriate, for the hauling and final disposition of effluents. A list of hauling/disposal contracts can be found in Appendix G.

B. Proposed Modifications - Since there are no on-site facilities for effluent disposal, there are no proposed modifications.

IV. SITE CHARACTERISTICS

A. Hydrologic Features

1. Bodies of Water Near Plant Site - There are no bodies of water or groundwater discharge sites within one mile of the plant site. Water courses in the area are generally ephemeral washes. The plant gets its water from Wells #12 and #16 located in Sec. 36, T-23-S, R-36-E.

2. Groundwater Most Likely Affected by Discharge - The Ogallala aquifer is the principal source of potable water in the area. The depth to the aquifer is unknown; the total dissolved solids (TDS) concentration for the groundwater most likely to be affected by the discharge is 331 mg/l (see Appendix E for complete Analysis of Sample from Well #16).

3. Flow Direction of Groundwater Most Likely Affected by Discharge - The Ogallala aquifer slopes to the southeast with a hydraulic gradient of about ten to twelve feet per mile and imparts an easterly or southeasterly movement to the groundwater (Cronin, 1969) (EPNG Discharge Plan, March 1981).

B. Geologic Description of Discharge Site (EPNG Discharge Plan, March 1981).

1. Soil Types - The Jal #4 plant site is located on the Berino-Cacique loamy fine sands soil association and the Pyote and Maljamar soil series.

The Pyote and Maljamar fine sands are well-drained soils with moderately rapid permeability formed in wind-deposited materials. The Pyote soil is fine sand over sandy loam subsoil to a depth of forty-eight to sixty inches where a fine sandy loam C horizon is encountered. The Maljamar fine sand soil series has a sandy clay loam subsoil with an indurated caliche horizon at approximately fifty inches.

The Berino-Cacique association consists of approximately fifty percent Berino loamy fine sand and forty percent Cacique loamy fine sand. Cacique soils occur only in association with Berino spoils. Both Berino and Cacique soils are moderately permeable and have very slow runoff. The Berino soil has a light sandy clay loam subsoil with caliche at depths ranging from twenty-nine to sixty inches. Cacique loamy fine sand is a shallow soil with indurated caliche at twenty to thirty inches.

2. Name of Aquifer - The Ogallala formation is the principal source of potable groundwater in the area.

3. Composition of the Aquifer Material - The Ogallala formation is alluvial consisting of sand, gravel, silt and clay.

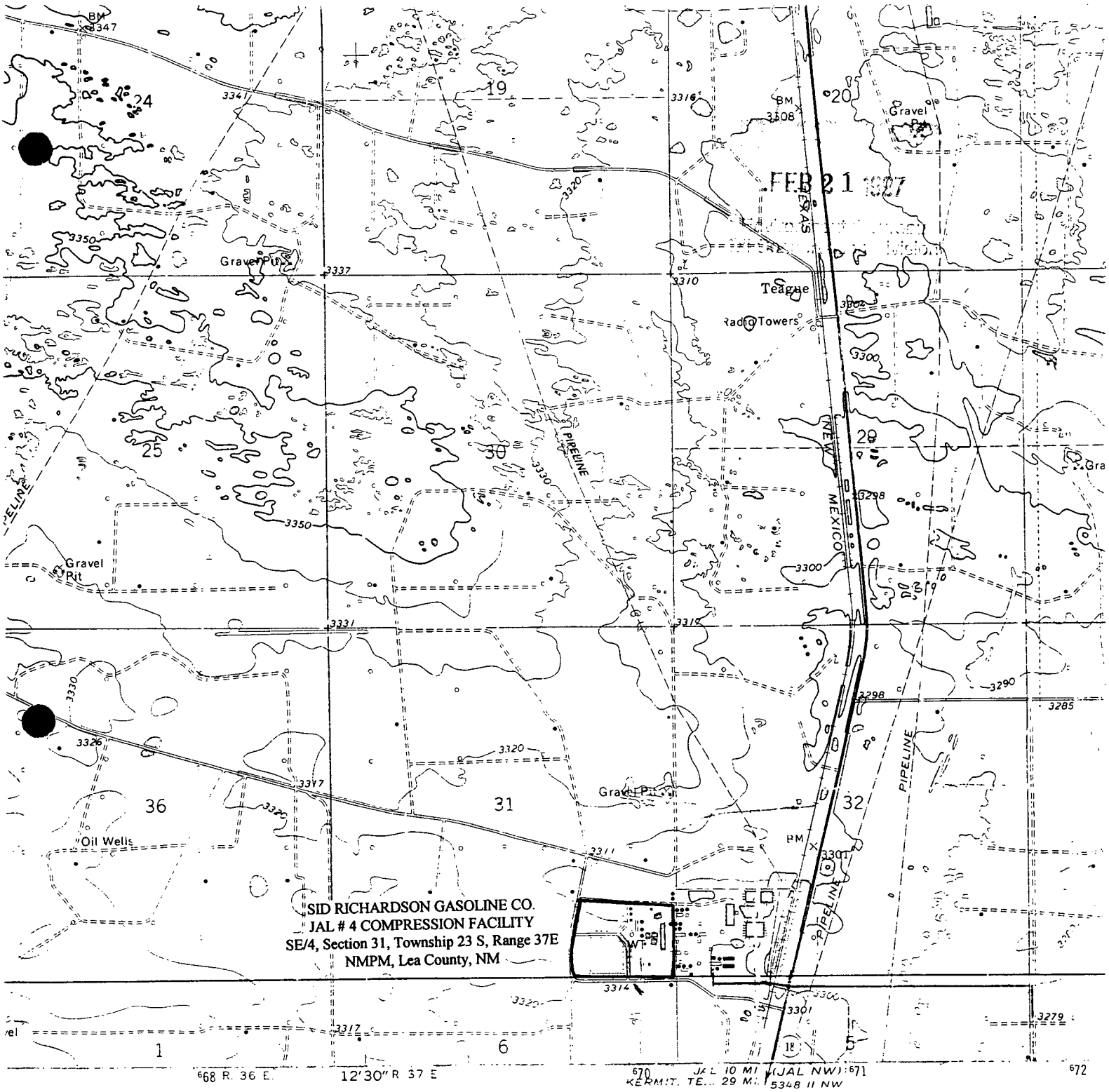
4. Depth to Rock at Base of Alluvium - The Ogallala overlies the relatively impermeable Chinle Formation; however, the depth is unknown.

C. Flood Protection

1. Flooding Potential - The plant is situated on the Pecos River Basin. The Basin in southern Lea County has no perennial streams, but there are a few ephemeral streams and broad, shallow drainages that may flow following thunderstorms which are common during July and August. Most precipitation quickly soaks into the soil or evaporates. The land surface in the plant area has little relief, falling approximately thirty feet per mile to the east. Runoff from the area flows east to provide water to Cheyenne Draw, a north to south trending tributary of Monument Draw located to the east of the plant. The plant has a very low flooding potential.

2. Flood Protection Measures - The plant is bounded on the south by a paved and caliche road, a curbed asphalt street on the southwest side and a cinder block wall along the majority of the west side of the plant. (A four-foot, reinforced cinder block wall is along the east boundary of the plant and will prevent any surface water from leaving the plant.)

D. Closure Plan - All reasonable and necessary measures will be taken to prevent the exceedance of WQCC Section 3103 quality standards should Sid Richardson choose to permanently close the Jal #4 facility. Closure measures will include removal or closure in place of all underground piping and equipment. All tanks will be emptied. No potentially toxic materials or effluents will remain on-site. All potential sources of toxic pollutants will be inspected. Should contaminated soil be discovered, any necessary reporting under NMOCD Rule 116 and WQCC Section 1203 will be made, and clean-up activities will commence. Post-closure maintenance and monitoring plans would not be necessary unless contamination is encountered.



SCALE 1:24 000

1 0 1/2 1

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

GN MN

0°58' 10°
17 MILS 178 MILS

UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

NEW MEXICO

QUADRANGLE LOCATION

RATTLESNAKE CANYON, N. MEX.

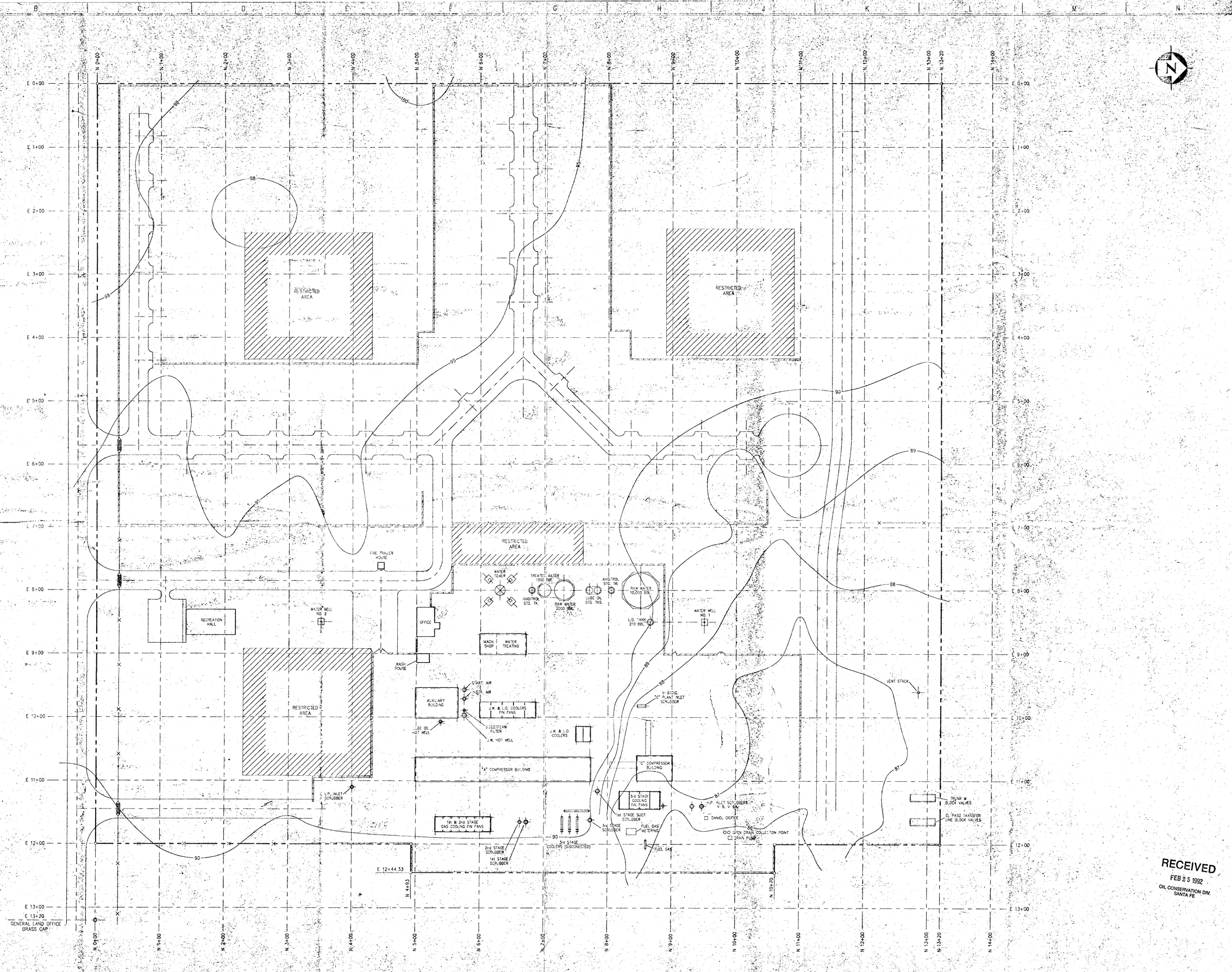
N3215—W10307.5/7.5

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGIN

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

To place on the predicted North American Datum 1983 move the projection lines 9 meters south and 44 meters east as shown by dashed corner ticks



RECEIVED
FEB 25 1992
OIL CONSERVATION DIV.
SANTA FE

NOTES:

REVISIONS					REFERENCE DRAWINGS	
NO.	DATE	DESCRIPTION	BY	CHK'D APP'D	DRAWING NUMBER	DRAWING DESCRIPTION

CONFIDENTIAL

THIS DRAWING IS BASED ON LICENSED INFORMATION AND IS NOT TO BE USED OTHER THAN IN THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE PLANT FOR WHICH IT WAS PREPARED.

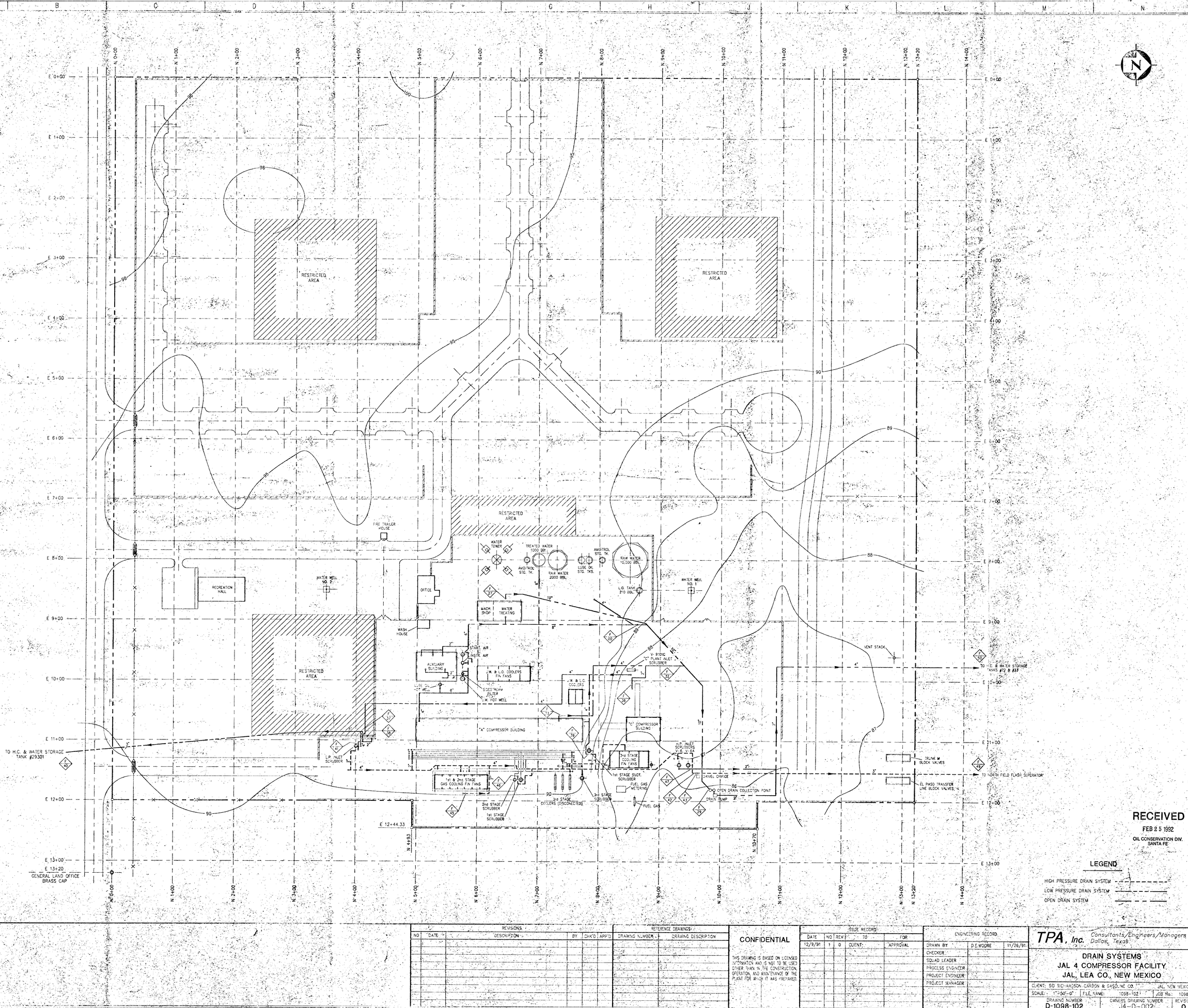
ISSUE RECORD				
DATE	NO	REV	TO	FOR
12/9/91	1	0	CLIENT	APPROVAL

ENGINEERING RECORD		
DRAWN BY	D.E.MOORE	11/26/91
CHECKER		
SQUAD LEADER		
PROCESS ENGINEER		
PROJECT ENGINEER		
PROJECT MANAGER		

TPA, Inc. Consultants/Engineers/Managers Dallas, Texas

PLOT PLAN
JAL 4 COMPRESSOR FACILITY
JAL, LEA CO., NEW MEXICO

CLIENT: SID RICHARDSON CARBON & GASOLINE CO. JAL, NEW MEXICO
SCALE: 1"=50'-0" FILE NAME: 1098-101 JOB No.: 1098
DRAWING NUMBER: D-1098-101 OWNERS DRAWING NUMBER: J4-PP-001 REVISION: 0



RECEIVED
FEB 25 1992
OIL CONSERVATION DIV.
SANTA FE

LEGEND
HIGH PRESSURE DRAIN SYSTEM
LOW PRESSURE DRAIN SYSTEM
OPEN DRAIN SYSTEM

NOTES:

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK'D	APP'D

REFERENCE DRAWINGS	
DRAWING NUMBER	DRAWING DESCRIPTION

CONFIDENTIAL

THIS DRAWING IS BASED ON LICENSED INFORMATION AND IS NOT TO BE USED OTHER THAN IN THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE PLANT FOR WHICH IT WAS PREPARED.

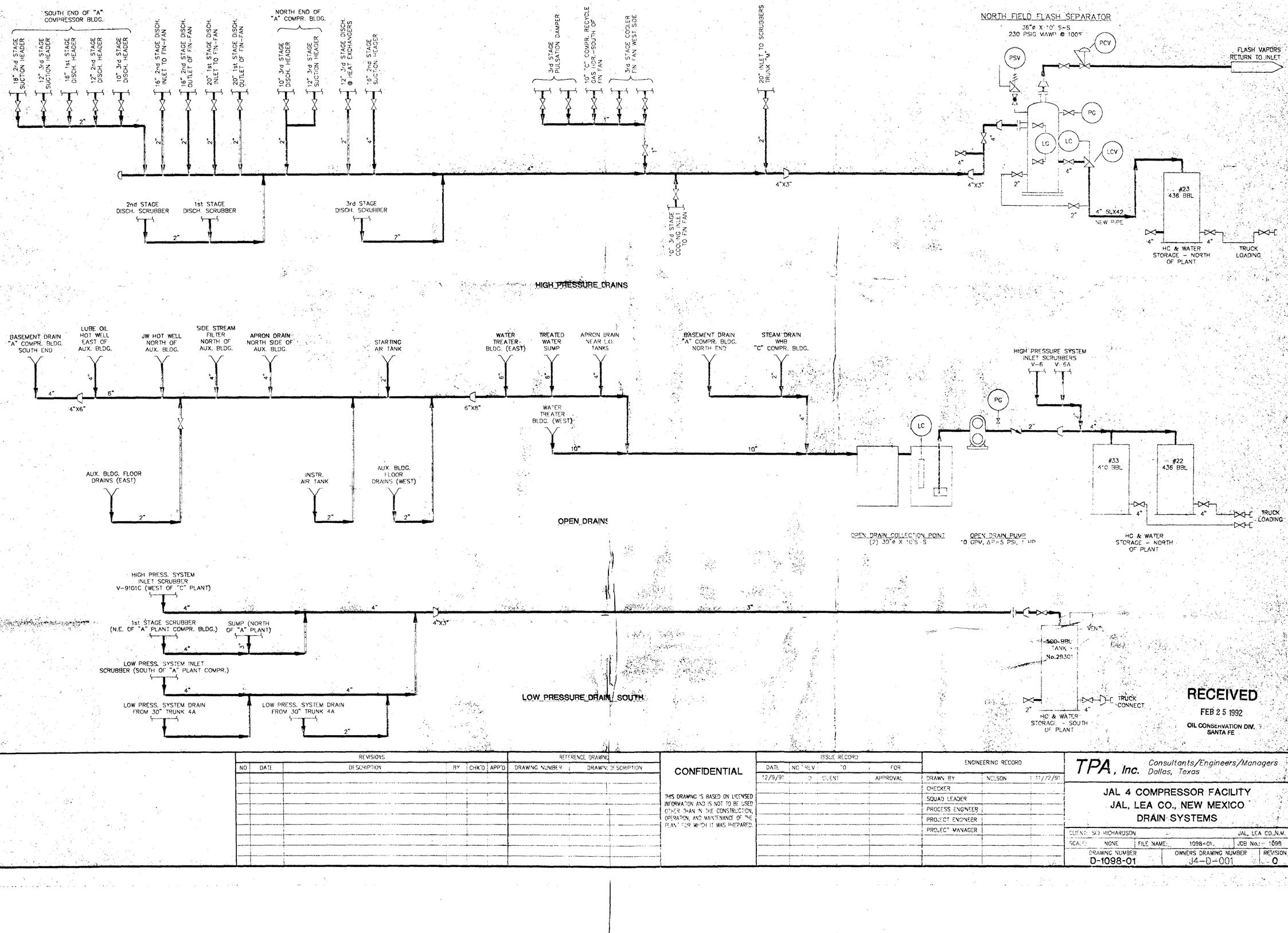
ISSUE RECORD				
DATE	NO	REV	TO	FOR
12/9/91	1	0	CLIENT	APPROVAL

ENGINEERING RECORD		
DRAWN BY	D.E. MOORE	11/26/91
CHECKER		
SQUAD LEADER		
PROCESS ENGINEER		
PROJECT ENGINEER		
PROJECT MANAGER		

TPA, Inc. Consultants/Engineers/Managers Dallas, Texas

DRAIN SYSTEMS
JAL 4 COMPRESSOR FACILITY
JAL, LEA CO., NEW MEXICO

CLIENT: SID RICHARDSON CARBON & GASOLINE CO. JAL, NEW MEXICO
SCALE: 1"=50'-0" FILE NAME: 1098-102 JOB No.: 1098
DRAWING NUMBER: D-1098-102 OWNERS DRAWING NUMBER: J4-D-002 REVISION: 0



RECEIVED
FEB 25 1992
OIL CONSERVATION DIV. SANTA FE

NOTES:

REVISIONS					
NO	DATE	DESCRIPTION	BY	CHK'D	APP'D

REFERENCE DRAWING	
DRAWING NUMBER	DRAWING DESCRIPTION

CONFIDENTIAL

THIS DRAWING IS BASED ON LICENSED INFORMATION AND IS NOT TO BE USED OTHER THAN IN THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE PLANT FOR WHICH IT WAS PREPARED.

ISSUE RECORD			
DATE	NO. REV	TO	FOR
12/9/91	0	CLIENT	APPROVAL

ENGINEERING RECORD		
DRAWN BY	NELSON	11/27/91
CHECKER		
SQUAD LEADER		
PROCESS ENGINEER		
PROJECT ENGINEER		
PROJECT MANAGER		

TPA, Inc. Consultants/Engineers/Managers Dallas, Texas

JAL 4 COMPRESSOR FACILITY
JAL, LEA CO., NEW MEXICO
DRAIN SYSTEMS

CLIENT: SID RICHARDSON — JAL, LEA CO., N.M.

SCALE:	FILE NAME:	JOB No.:
NONE	1098-01	1098

DRAWING NUMBER	OWNERS DRAWING NUMBER	REVISION
D-1098-01	J4-D-001	0