GW - 48

GENERAL CORRESPONDENCE

YEAR(S):

2005 - 1988

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

February 24, 2005

Mr. J. L. Davis.
Davis Processing, Inc.
211 North Colorado
Midland, Texas 79701-4696

RE: GW-048 Denton Gas Plant Inspection
Lea County, New Mexico

Dear Mr. Davis:

The New Mexico Oil Conservation Division (OCD) personnel, Mr. Larry Johnson and Mr. W. Jack Ford, on February 8, 2005, along with Mr. O. R. Barr, Jr. of Davis Processing, Inc., inspected the Denton Gas Plant facility. The purpose was a routine inspection for compliance with terms of the recently renewed discharge permit for this facility. The information that follows will address the concerns of the OCD at the above referenced facility:

1. Empty drums and barrels need to be stored on their side with bungs in place and horizontal to grade. See condition number 4 of the discharge permit.

2. All drums and/or barrels require clear labeling to identify their contents.

3. General housekeeping is being addressed at the site and will be checked again in the near future.

4. Produced water tank requires label to clearly show contents.

5. Methenol tanks should be repainted with label clearly shown to identify contents.

The OCD would like to thank Mr. O. R. Barr, Jr. for his professional conduct during the site visit. I have included pictures taken at the Denton Gas Plant during the inspection. If there are any questions regarding this report feel free to call me at (505)-476-3489.

Sincerely,

W. Jack Ford, C.P.G.
Water Resource Engineering Specialist
OCD Environment Bureau

cc: OCD Hobbs District Office

Davis Processing, Inc.
Denton Gas Plant
Lea County, New Mexico

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Denton Gas Plant
Lea County, New Mexico

Davis Processing, Inc.
Denton Gas Plant
Lea County, New Mexico

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 12/03/04,

or cash received on _____ in the amount of $ 4,000.00

from J. L. Davis

for Denton G.P. GW-048
(Facility Name) (DP No.)

Submitted by: [signature] Date: 12/13/04

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ___ New Facility ___ Renewal ✓

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

THIS CHECK IS VOID WITHOUT A BLUE & RED BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

J.L. DAVIS
DENTON PLANT
211 NORTH COLORADO MIDLAND, TEXAS 79701-4696
(432) 682-6311

[redacted]

WEST TEXAS NATIONAL BANK
MIDLAND, TEXAS

12/03/04

PAY **********4,000 DOLLARS AND 00 CENTS $4,000.00

TO THE ORDER OF
WATER MANAGEMENT QUALITY MANAGEMENT FUND
C/O OIL CONSERVATION DIVISION
1220 SOUTH ST FRANCIS DRIVE
SANTA FE, NM 87505

J.L. DAVIS
DENTON PLANT

[signature]

BORDER CONTAINS MICROPRINTING

[redacted]

J.E. DAVIS
DENTON PLANT
211 NORTH COLORADO MIDLAND, TEXAS 79701-4696
(432) 682-6311

0031036

DESCRIPTION	INV DATE	INVOICE REF. #	AMOUNT
	11/30/04	FEE	4,000.00

0111177	WATER MANAGEMENT QUALITY	0031036	4,000.00

J. L. DAVIS
GAS CONSULTING - REGISTERED ENGINEER
211 NORTH COLORADO
MIDLAND, TEXAS 79701-4696

OFF: 915-682-6311
Fax: 915-682-4024

Area code is now 432

December 9, 2004

CERTIFIED RETURN
RECEIPT REQUESTED

New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: J.L. Davis Denton Plant
Water Discharge Permit GW-048
Renewal Fee Payment

Gentlemen:

Attached you will find:

1. Copy of Discharge Permit Approval Conditions, signed by Mr. J.L. Davis.
2. Denton plant check #0031036 dated 12/03/04 in the amount of $4,000.

The above material is being returned within the 30 day period after receiving the discharge permit approval conditions and request for payment of the renewal fee, based on the receipt date stamp of November 12, 2004.

If you have any questions, please contact me by telephone at 432-682-6311 or FAX at 432-682-4024. The best means of contact is probably by email: dkjudd@nts-online.net

Very truly yours

Donald K. Judd
Agent

CC: J.L. Davis
Mr. M.K. Davis - Abilene office
Mr. Bob Stewart
Mr. O.R. Barr, Jr. - Denton plant
Mr. Bobby Roach

2004 DEC 13 PM 12 18

THE SANTA FE
NEW MEXICAN
Founded 1849

RECEIVED

OCT 12 2004

OIL CONSERVATION DIVISION

NM OIL CONSERVATION DIV.
1220 ST. FRANCIS DR
Attn: Ed Martin
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00089513 ACCOUNT: 00002212
LEGAL NO: 75034 P.O. #: 05-199-050185
461 LINES 1 TIME(S) 315.04
AFFIDAVIT: 5.50
TAX: 21.44
TOTAL: 341.98

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, B. Perner, 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 # 75034 a copy of which is hereto attached was published in said newspaper 1 day(s) between 10/06/2004 and 10/06/2004 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 6th day of October, 2004 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

B Perner

/S/_____
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 6th day of October, 2004

Notary Laura E Harding

Commission Expires: 11/23/07

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-049) - El Paso Natural Gas Co., Mr. Richard Duarte, 3801 Atrisco Blvd. NW, Albuquerque, NM 87120, has submitted a renewal application for their "A" Blanco Plant facility located in the NE/4 NE/4 of Section 23, Township 27 West, Range 13 North, NMPM, San Juan County, New Mexico. A small amount of engine wash-down water and storm water run-off is discharged to the City of Bloomfield publicly owned treatment works. Groundwater most likely to be affected by a spill, leak, or accidental discharge to the surface varies in depth from 14 to 39 feet. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

(GW-317) - El Paso Field Services, David Bays, 614 Reilly Ave., Farmington, NM 87401, has submitted a renewal application for the Rattlesnake Canyon Gas Plant, located in the NE/4 of Section 16, Township 32 North, Range 9 West, NMPM, San Juan County, New Mexico. Approximately 375 barrels per month of produced water with a dissolved solids concentration ranging from 10,000 to 15,000 mg/L is collected in closed steel tanks prior to transport to an OCD-approved disposal facility. Approximately10 barrels per year of wastewater from equipment washdown are collected in a double-walled underground sump prior to transport to an OCD-approved disposal facility. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 75 feet with a total dissolved solids concentration ranging from 48 mg/L to 52 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-049-2) - El Paso Field Services, David Bays, 614 Reilly Ave., Farmington, NM 87401, has submitted a discharge permit application for the Blanco C and D Compressor Station, located in the N/2 N/2 of Section 14, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. Approximately 9,500 barrels per month of crude oil and natural gas condensate are collected in closed-top steel tanks until sale to the Giant Refinery near Bloomfield, NM. Groundwater most likely to be affected in the event of an accidental discharge is at a depth of approximately 15 to 40 feet. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-182) - Williams Field Services, Michael K. Lane, (505) 632-4625, 188 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Navajo CDP Compressor Station located in the NE/4 NW/4 of Section 2, Township 30 North, Range 8 West, NMPM, San Juan County, New Mexico. After oil/water separation, approximately 42 gallons per day of process waste water with a total dissolved solids concentration in excess of 2000 mg/l is stored in an above ground, closed-top steel tank prior to transport to an OCD approved off-site disposal facility. Ground water most likely to be affected in the event of an accidental discharge is at a depth of 20 feet with a total dissolved solids concentration of approximately 2000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-047) - Williams Field Services, Mark K. Lane, (505) 632-4625, 188 CR 4900, Bloomfield, New Mexico 87413, has submitted a discharge plan renewal application for the Lybrook Natural Gas Processing Plant located in the N/2 NW/4 of Section 14, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. After oil/water separation, approximately 3000 gallons per day of process wastewater with a total dissolved solids concentration of approximately 7500 mg/l is disposed of in clay lined evaporation ponds. Ground water most likely to be affected in the event of an accidental discharge is at a depth ranging from 180 to 200 feet with a total dissolved solids concentration of approximately 700 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-161) - Williams Production Company, LLC (formerly J. M. Huber Corporation), 999 Goddard Avenue, Ignacio, Colorado 81137 has submitted a renewal application for their ROSA COMPRESSOR STATION located in the SW/4 SE/4 of Section 26, Township 31 North, Range 4 West, Rio Arriba County, New Mexico. Approximately 9 gallons per day of wastewater with a dissolved solids concentration of 1,500 mg/l is collected in a 400 barrel closed fiberglass tank prior to transport off-site to an OCD approved disposal facility. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth greater than 20 feet with a total dissolved solids concentration ranging from 2000 mg/l to 10000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-008) - El Paso Natural Gas, Robert H. St. John, 3300 North "A" Building Two, Suite 200, Midland, TX 79705, has submitted a discharge permit renewal application for the Monument Compressor Station, located in the NW/4 of Section 1, Township 20 South, Range 36 East, NMPM, Lea County, New Mexico. Approximately 9,600 gallons per day of processed wastewater with total dissolved solids concentration of 3,500 mg/L is stored in steel tanks prior to transport for disposal in an OCD-approved Class II injection well. Groundwater most likely to be affected in the event of an accidental discharge at the surface is at a depth of approximately 35 feet with a total dissolved solids concentration of approximately 500 mg/L. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-144) - Duke Energy Field Services, LP, Mr. Greg Kardos, (505) 628-0282, 3300 N. A Street, Building 7, Midland, Texas 79705, has submitted a discharge renewal application for the West (a.k.a. Westall) Compressor Station located in the SW/4 NW/4 of Section 35, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. Duke Energy Field Services, LP certifies that no liquid or solid wastes generated on site are discharged so that they may move directly or indirectly into fresh waters. Any liquid wastes are collected and stored in containers prior to transport offsite to an OCD approved disposal facility. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 16 feet with a total dissolved solids concentration of approximately 7,843 mg/l. The discharge permit addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-048) - Davis Gas Processing Company, Donald K. Judd, Agent, (432) 682-6311, 211 North Colorado Street, Midland, Texas 79701-4696, has submitted a discharge renewal application for the Denton Gas Plant located in the SE/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 750 gallons per day of process waste water with a total dissolved solids concentration of approximately 2000 mg/l will be collected and stored on site in closed storage tanks prior to disposal in an OCD approved contract injection Class II well. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration ranging from 610 to 1600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 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 30th day of September 2004.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION

SEAL

JOANNA PRUKOP,
Acting Director

Legal #75034
Pub. October 6, 2004

RECEIVED

JUN 23 2004

OIL CONSERVATION DIVISION

J. L. DAVIS
GAS CUNSULTING – REGISTERED ENGINEER
211 NORTH COLORADO **OFF: 432-682-6311**
MIDLAND, TEXAS 79701-4696 **FAX: 432-682-4024**

June 18, 2004

Mr. Jack Ford
Energy Minerals & Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: J.L. Denton Plant
Water Discharge Plan Renewal

Dear Mr. Ford:

Attached is the completed and signed renewal form for the referenced. Nothing has changed since the discharge plan was implemented, except the plant supervisor (local contact). This should be changed to O.R. Barr, Jr., his home # is 505-393-2345, all other plant data is correct.

Please note the area code of the Midland office is now 432.

Attached is the filing fee, Denton Plant check # 0030594 dated 06/17/04 in the amount of $100.00.

Very truly yours,

Don K. Judd
Agent

DKJ: tmc
Cc: J.L. Davis
Michael Davis
Denton Plant
O.R. Barr, Jr.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES,GAS PLANTS, REFINERIES, COMPRESSOR, GEOTHERMAL FACILITES AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☒ Renewal ☐ Modification

1. Type: Gas Processing Plant
2. Operator: Davis Gas Processing, Inc.

   Address: 211 N. Colorado

   Contact Person: Don Judd Phone: 432-682-6311
3. Location: NW /4 SW /4 Section 2 Township 155 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. See Cover letter
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility. No Change
6. Attach a description of all materials stored or used at the facility. No Change
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included. No Change
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures. No Change
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems. No Change
10. Attach a routine inspection and maintenance plan to ensure permit compliance. No Change
11. Attach a contingency plan for reporting and clean-up of spills or releases. No Change
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included. No Change
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. No Change
14. CERTIFICATIONI hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. No Change

Name: J.I. Davis Title: President

Signature: Date: 6/18/04

E-mail Address:

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No [redacted] dated 6/17/04,

or cash received on _____ in the amount of $ 100-

from J. L. DAVIS

for Denton Gas Plant (Facility Name) GW-048 (DP No.)

Submitted by: _____ Date: 6/24/04

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility ___ Renewal ✓

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

THIS CHECK IS VOID WITHOUT A BLUE & RED BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

[redacted]

J.L. DAVIS
DENTON PLANT
210 NORTH COLORADO MIDLAND, TEXAS 79701-4696
(432) 682-6311

WEST TEXAS NATIONAL BANK
MIDLAND, TEXAS

6/17/04

PAY **********100 DOLLARS AND 00 CENTS

$100.00

J.L. DAVIS
DENTON PLANT

TO THE ORDER OF
NMED-WATER QUALITY MANAGMENT
NEW MEXICO MINERALS & NATURAL RESOURSES
OIL CONSERVATION DIVISION
1220 SOUTH ST FRANCIS DRIVE
SANTA FE, NM 87505

BORDER CONTAINS MICROPRINTING

[redacted]

J.L. DAVIS
DENTON PLANT
211 NORTH COLORADO MIDLAND, TEXAS 79701-4696
(432) 682-6311

[redacted]

DESCRIPTION	INV DATE	INVOICE REF. #	AMOUNT
	6/17/04	FILING FEE	100.00

0110103	NMED-WATER QUALITY MANAGME	0030594	100.00

NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark Fesmire, P.E.
Director
Oil Conservation Division

March 15, 1999

Mr. Donald K. Judd
Davis Gas Processing
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-048 Renewal
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

On March 15, 1999, the groundwater discharge plan renewal, GW-048, for the Davis Gas Processing Denton Gas Plant located in the SW/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan renewal was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on September 12, 2004.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Davis Gas Processing has made or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Denton Gas Plant** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a filing fee of $100.00 plus a flat fee equal to $4,000.00 for gas processing plants. The $100.00 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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 available on OCD's website at **www.emnrd.state.nm.us/ocd/**).

If the Denton Gas Plant no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Davis Gas Processing Company has any questions, please do not hesitate to contact me at (505) 476-3489.

Sincerely,

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

cc: OCD Hobbs District Office

DAVIS GAS PROCESSING

DAVIS GAS PROCESSING, INC.
211 North Colorado
MIDLAND, TEXAS 79701-4696

OFF: (915) 682-6311
FAX: (915) 682-4024

September 27, 1999

Mr. Roger C. Anderson
Chief, Environmental Bureau
New Mexico Energy, Minerals
And Natural Resources Department
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Discharge Plan Renewal GW-408
Davis Gas Processing, Inc.
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Anderson:

Enclosed you will find one signed copy of the conditional approval form plus the J.L. Davis, (Denton Plant Account) check number 020681 dated September 28, 1999, for $1,717.50. The check sum is the $50.00 filing fee, inadvertently omitted from the application, plus the flat fee of $1,667.50.

Very truly yours,

Don K. Judd
Agent

cc: J.L. Davis
Michael K. Davis
David Pepper

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 9-27-99,

or cash received on _____ in the amount of $ 1,717.50

from J. L. Davis

for Denton Gas Plant GW-048
(Facility Name) (DP No.)

Submitted by: _____ Date: 10-1-99

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ___ New Facility ___ Renewal ✓

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 2000

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

J.L. DAVIS
DENTON PLANT ACCOUNT
211 NORTH COLORADO
(915) 682-6311 / MIDLAND, TEXAS 79701-4696

[redacted]

9-27-99

TEXAS COMMERCE BANK-MIDLAND, N.A.
MIDLAND, TEXAS
32-115/1110

PAY ******** 1,717 Dollars and 50 Cents ********** $1,717.50

TO THE ORDER OF
NMED - Water Quality Managment
New Mexico Minerals & Natural Resourses
Oil Conservation Division
2040 South Pacheco St.
Santa Fe, NM. 87505

J.L. DAVIS
DENTON PLANT ACCOUNT

BY _____

_____

[redacted]

J.L. DAVIS
DENTON PLANT ACCOUNT
211 NORTH COLORADO
(915) 682-6311 / MIDLAND, TEXAS 79701-4696

[redacted]

Date: 9-27-99

Amount: $1,717.50

Description: GW-048 Filing & Renewal Fees.

Affidavit of Publication

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

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

That the notice which is hereto attached, entitled

Notice of Publication

GW-048 & GW-311

~~and numbered~~ ____ ~~in the~~

____ ~~County of Lea~~

~~County, New Mexico~~ was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the same day of the week~~, for One(1) Day ~~consecutive weeks~~ beginning with the issue of

June 3 19 99

and ending with the issue of

June 3 19 99

And that the cost of publishing said notice is the sum of $ 73.92

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

Joyce Clemens

Subscribed and sworn to before me this ____

day of June 3 19 99

[signature]

Notary Public, Lea County, New Mexico

My Commission Expires June 22 ~~19~~ 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 New Mexico Water Quality Control Commission Regulations, the following discharge plan application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-048) - Davis Gas Processing Company, Donald K. Judd, Agent, (915) 682-6311, 211 North Colorado Street, Midland, Texas 79701 - 4696, has submitted a discharge renewal application for the Denton Gas Plant located in the SE/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 750 gallons per day of process waste water with a total dissolved solids concentration of approximately 2000 mg/l will be collected and stored on site in closed storage tanks prior to disposal in an OCD approved contract injection Class II well. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration ranging from 610 to 1600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-311) - LG&E Natural Gathering and Processing, John R. Delaney, (505) 393-2153, 921 West Sanger Street, Hobbs, New Mexico 88240, has submitted a discharge application for the Cotton Draw Compressor Station located in the NE/4 NW/4 and the NW/4 NE/4 of Section 18, Township 25 South, Range 32 East, NMPM, Lea County, New Mexico. Approximately 30 barrels per day of waste water with a total dissolved solids concentration ... Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 400 feet with a total dissolved solids concentration ranging from 1000 to 1700 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) 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 application(s), 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 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(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 26th day of May, 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY, Director

SEAL

Published in the Lovington Daily Leader June 3, 1999.

The Santa Fe New Mexican
Since 1849. We Read You.

NM OCD
ATTN: LUPE SHERMAN
2040 S. PACHECO ST.
SANTA FE, NM 87505

AD NUMBER: 87864 ACCOUNT: 56689
LEGAL NO: 65487 P.O.#: 99199000357
227 LINES 1 time(s) at $ 99.95
AFFIDAVITS: 5.25
TAX: 6.57
TOTAL: 111.77

AFFIDAVIT OF PUBLICATION

JUN - 8 1999

STATE OF NEW MEXICO
COUNTY OF SANTA FE
I, B Penner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTE 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 #65487 a copy of which is hereto attached was published in said newspaper 1 day(s) between 06/01/1999 and 06/01/1999 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 1 day of June, 1999 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betty Penner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this
28 day of May A.D., 1999

Notary Laura R. Harding

Commission Expires 11/23/99

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

(GW-048) - Davis Gas Processing Company, Donald K. Judd, Agent, (915) 682-6311, 211 North Colorado Street, Midland, Texas 79701-4696, has submitted a discharge renewal application for the Denton Gas Plant located in the SE/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 750 gallons per day of process waste water with a total dissolve solids concentration of approximately 2000 mg/l will be collected and stored on site in closed storage tanks prior to disposal in an OCD approved contract injection Class II well. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 40 feet with a total dissolved solids concentration ranging from 610 to 1600 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

(GW-311) - LG&E Natural Gathering and Processing, John R. Delaney, (505) 393-2153, 921 West Sanger Street, Hobbs, New Mexico 88240, has submitted a discharge application for the Cotton Draw Compressor Station located in the NE/4 NW/4 and the NW/4 NE/4 of Section 18, Township 25 South, Range 32 East, NMPM, Lea County, New Mexico. Approximately 30 barrels per day of waste water with a total dissolved solids concentration of approximately 10,000 mg/l will be collected in an above ground closed storage tank prior to removal and disposed of in an OCD approved facility. Ground water most likely to be affected in the event of an accidental discharge is at a depth of approximately 400 feet with a total dissolved solids concentration ranging from 1000 to 1700 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 9:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), 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 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(s) based on information available. If a public hearing is held, the Director will approve or disapprove the proposed plan(s) based on the information in the discharge plan application(s) and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 26th day of May 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

Legal #65487
Pub. June 1, 1999

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 26th day of May 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

for LORI WROTENBERY, Director

SEAL

Z 559 572 988

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

Sent to Lovington Daily Leader	
Street & Number P.O. Box 1717	
Post Office, State, & ZIP Code Lovington, NM 88260	
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

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 26th day of May 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Roger C. Anderson

SEAL

for LORI WROTENBERY, Director

J. L. DAVIS
GAS CONSULTING - REGISTERED ENGINEER
211 NORTH COLORADO
MIDLAND, TEXAS 79701-4696

OFF: 915-682-6311
Fax: 915-682-4024

May 20, 1999

Mr. Jack Ford
Energy Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505

Re: J.L. Denton Plant
Water Discharge Plan Renewal

Dear Mr. Ford:

Attached is the completed and signed renewal form for the referenced. Nothing has changed since the discharge plan was implemented.

If additional information is needed, please contact me per the letterhead information.

Very truly yours,

Don K. Judd

DKJ:tmc
cc: J.L. Davis
Michael K. Davis
David Pepper, Denton Plant

P. O. Box 1980
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

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

RECEIVED MAR 26 1999

Revised 12/1

Submit Orig
Plus 1 Co
to Sant
1 Copy to appropr
District O

DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS, REFINERIES, COMPRESSOR, AND CRUDE OIL PUMP STATIONS

(Refer to the OCD Guidelines for assistance in completing the application)

☐ New ☒ Renewal ☐ Modification

1. Type: Gas Plant
2. Operator: Davis Gas Processing

   Address: 211 North Colorado

   Contact Person: Don K. Judd Phone: 915-682-6311
3. Location: NW /4 SW /4 Section 2 Township 15S Range 37E

   Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site. No Change
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility. No Change
6. Attach a description of all materials stored or used at the facility. No Change
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included. No Change
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures. No Change
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems. No Change
10. Attach a routine inspection and maintenance plan to ensure permit compliance. No Change
11. Attach a contingency plan for reporting and clean-up of spills or releases. No Change
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included. No Change
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders. No Change
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: J.L. Davis Title: Owner

    Signature: _____ Date: 5-20-99

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

March 15, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-357-870-073

Mr. Donald K. Judd
Davis Gas Processing
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-048 Renewal
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

On September 12, 1994, the groundwater discharge plan renewal, GW-048, for the Davis Gas Processing Denton Gas Plant located in the SW/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan renewal was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on September 12, 1999.**

If the facility continues to have potential or actual effluent or leachate discharges and wishes to continue operation, the discharge plan must be renewed. **Pursuant to Section 3106.F., if an application for renewal is submitted at least 120 days before the discharge plan expires, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved.** The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several weeks to months. Please indicate whether Davis Gas Processing has made or intends to make, any changes in the system, and if so, please include these modifications in the application for renewal.

The discharge plan renewal application for the **Denton Gas Plant** is subject to WQCC Regulation 3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $50.00 plus a flat fee equal to one-half of the original flat fee for gas plants. The $50.00 filing fee is to be submitted with the discharge plan renewal application and is nonrefundable.

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 Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** (Copies of the WQCC regulations and discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on OCD's website at **www.emnrd.state.nm.us/ocd/**).

If the Denton Gas Plant no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Davis Gas Processing Company has any questions, please do not hesitate to contact me at (505) 827-7156.

Sincerely,

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

enclosed: Discharge Plan Application form

cc: OCD Hobbs District Office

Z 357 870 073

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

Sent to Donald Judd	
Street & Number Davis Gas Proc.	
Post Office, State, & ZIP Code Midland	
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 GW-048	

PS Form 3800, April 1995

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2-15-95,

or cash received on _____ in the amount of $ 1667.50

from J.L. DAVIS

for GW-48 DENTON GAS PLANT
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: CHRIS GUSTICE Date: 2-23-95

Received in ASD by: Pauline F. Gabaldon Date: 2/23/95

Filing Fee ___ New Facility ___ Renewal ✓

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 95

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

J. L. DAVIS
DENTON PLANT ACCOUNT
211 NORTH COLORADO
(915) 682-6311 / MIDLAND, TEXAS 79701-4696

[redacted]

TEXAS COMMERCE BANK-MIDLAND, N.A.
MIDLAND, TEXAS

February 15, 1995 $1,667.50

PAY One thousand six hundred sixty-seven and 50/100----------

TO THE ORDER OF
State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, N.M. 87504

J. L. DAVIS
DENTON PLANT ACCOUNT

BY _____

[redacted]

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2-15-95,

or cash received on ______________ in the amount of $ 50.00

from J. L. DAVIS

for GW-48 DENTON GAS PLANT
(Facility Name) (DP No.)

Submitted by: ______________ Date: ______________

Submitted to ASD by: CHRIS EUSTICE Date: 2-23-95

Received in ASD by: [signature] Date: 2/23/95

Filing Fee ✓ New Facility ____ Renewal ____

Modification ____ Other ______________ (specify)

Organization Code 521.07 Applicable FY 95

To be deposited in the Water Quality Management Fund.

Full Payment ____ or Annual Increment ____

J. L. DAVIS
DENTON PLANT ACCOUNT
211 NORTH COLORADO
(915) 682-6311 / MIDLAND, TEXAS 79701-4696

[redacted]

TEXAS COMMERCE BANK-MIDLAND, N.A.
MIDLAND, TEXAS

February 15, 1995 $50.00

PAY Fifty and no/100--

TO THE ORDER OF
State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, N.M. 87504

J. L. DAVIS
DENTON PLANT ACCOUNT

BY [signature]

[redacted]

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

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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 applications may be viewed at the above address between 8:00 a.m. and 5:00 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 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 29th day of December, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
s/William J. Lemay, Director

Journal: January 13, 1995

STATE OF NEW MEXICO

County of Bernalillo SS

Bill Tafoya being duly sworn declares and says that he is Classified Advertising manager of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for one times, the first publication being of the 13th day of Jan., 1995, and the subsequent consecutive publications on none, 1995

Bill Tafoya

OFFICIAL SEAL
Peggy Millage
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 5/20/98

Sworn and subscribed to before me, a notary Public in and for the County of Bernalillo and State of New Mexico, this 13th day of, Jan, 1995

PRICE $30.47

Statement to come at end of month.

CLA-22-A (R-1/93) ACCOUNT NUMBER C80932

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

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

February 1, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-816

Mr. Donald K. Judd
Davis Gas Processing
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-48 Renewal
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

The discharge plan renewal GW-48 for the Davis Gas Processing Denton Gas Plant located in the SW/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan consists of the renewal application dated February 4, 1994.

The discharge plan renewal was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is renewed pursuant to Section 3-109.A. Please note Sections 3-109.E and 3-109.F. which provide for possible future amendments or modifications of the plan. Please be advised the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface water, ground water, or the environment which may be actionable under other laws and/or regulations.

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

VILLAGRA BUILDING - 408 Galisteo
Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830
Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco
Office of the Secretary
827-5950
Administrative Services
827-5925
Energy Conservation & Management
827-5900
Mining and Minerals
827-5970
Oil Conservation
827-7131

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

Pursuant to Section 3-109.G.4., this plan is for a period of five (5) years. This approval will expire on September 12, 1999, and you should submit an application in ample time before this date. It should be noted that all gas processing plants and oil refineries will be required to submit plans for, or the results of, an underground drainage testing program as a requirement for discharge plan renewal.

The discharge plan application for the Davis Gas Processing Denton Gas Plant is subject to WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of fifty (50) dollars plus one-half of the flat fee, or sixteen-hundred sixty-seven dollars and fifty cents ($1667.50), for gas plants. The New Mexico Oil Conservation Division (OCD) has not received your filing fee or flat fee. The fifty (50) dollar filing fee is due upon receipt of this approval. The flat fee for an approved discharge plan may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

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

Sincerely,

William J. LeMay
Director

WJL/mwa
Attachment

xc: OCD Hobbs Office

ATTACHMENT TO THE DISCHARGE PLAN GW-48 APPROVAL
DAVIS GAS PROCESSING
DENTON GAS PLANT
DISCHARGE PLAN REQUIREMENTS
(February 1, 1995)

1. Payment of Discharge Plan Fees: The flat fee of sixteen-hundred sixty-seven dollars and fifty cents ($1667.50) may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the plan, with the first payment due upon receipt of this approval.

2. Drum Storage: All drums will be stored on pad and curb type containment.

3. Sump Inspection: All pre-existing single-lined sumps at this facility will be cleaned and visually inspected on an annual basis. The inspection will coincide with the annual scheduled plant shutdown.

   Any new or rebuilt sumps or below-grade tanks will incorporate leak detection in their designs and will be approved by the OCD prior to installation.

3. Berms: All tanks that contain materials other than freshwater will be bermed to contain one and one-third (1-1/3) the capacity of the largest tank within the berm or one and one-third (1-1/3) the total capacity of all interconnected tanks.

4. Above Grade Tanks: All above ground tanks (saddle tanks) will be on impermeable pad and curb type containment.

5. Pressure Testing: All discharge plan facilities are required to pressure test all underground piping at the time of discharge plan renewal. All new underground piping shall be designed and installed to allow for isolation and pressure testing at 3 psi above normal operating pressure.

6. Spills: All spills and/or leaks will be reported to the OCD Santa Fe and Hobbs District Offices pursuant to WQCC Rule 1-203 and OCD Rule 116.

7. Pads: All Compressor pads will have lips or curb type containment installed to prevent contaminants from running onto the ground surface.

   All containment areas must remain free of any sediments and/of fluids. Routine inspections will be made of all such areas and any sediments and/or fluids found will b removed and disposed of at an approved facility. Submit a plan to the OCD Santa Fe Office with a timetable for inspections by March 31, 1995.

8. Flare Pit: Submit a closure plan to the OCD Santa Fe Office for the closure of the flare pit located to the east of the facility by March 31, 1995.

Z 765 962 816

Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form 3800, March 1993

NOTICE OF PUBLICATION

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

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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 applications may be viewed at the above address between 8:00 a.m. and 5:00 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 29th day of December, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

WILLIAM J. LEMAY, Director

NO EFFECT FINDING

The described action will have no effect on listed species, wetlands, or other important wildlife resources.

Date January 27, 1995

Consultation # 2-22-95-I-142

Approved by R. Mark Wilson

U.S. FISH and WILDLIFE SERVICE
NEW MEXICO ECOLOGICAL SERVICES FIELD OFFICE
ALBUQUERQUE, NEW MEXICO

Affidavit of Publication

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

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

That the notice which is hereto attached, entitled Notice Of Publication

and numbered ..... in the ..... Court of Lea County, New Mexico, was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, once each week on the same day of the week, for one (1) day consecutive weeks, beginning with the issue of January 10, 19 95 and ending with the issue of January 10, 19 95

And that the cost of publishing said notice is the sum of $ 38.16 which sum has been (Paid) (Assessed) as Court Costs

Joyce Clemens

Subscribed and sworn to before me this 18th day of January, 19 95

Jean Jenner

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

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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 29th day of December, 1994.

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

Published in the Lovington Daily Leader January 10, 1995.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

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

January 5, 1995

ALBUQUERQUE JOURNAL
717 Silver Southwest
Albuquerque, New Mexico 87102

ATTN: ADVERTISING MANAGER

RE: NOTICE OF PUBLICATION

_____
_____
_____
_____

Dear Sir/Madam:

Please publish the attached notice one time immediately on receipt of this request. Please proofread carefully, as any error in a land description or in a key word or phrase can invalidate the entire notice.

Immediately upon completion of publication, please send the following to this office:

1. ***Publisher's affidavit in duplicate.***
2. ***Statement of cost (also in duplicate.)***
3. ***CERTIFIED invoices for prompt payment.***

We should have these immediately after publication in order that the legal notice will be available for the hearing which it advertises, and also so that there will be no delay in your receiving payment.

Please publish the notice no later than January 13, 1995 1994

Sincerely,

Sally Martinez
Sally E. Martinez
Administrative Secretary

Attachment

PS Form 3800, March 1993

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Z 765 962 306

Sent to	Albq. Journal
Street and No.	
P.O., State and ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

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

January 6, 1995

LOVINGTON DAILY LEADER
P. O. Box 1717
Lovington, New Mexico 88260

RE: NOTICE OF PUBLICATION

_____
_____
_____
_____

ATTN: ADVERTISING MANAGER

Dear Sir/Madam:

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Sincerely,

Sally Martinez

Sally E. Martinez
Administrative Secretary

Attachment

PS Form 3800, March 1993

Postmark or Date
TOTAL Postage & Fees $
Return Receipt Showing to Whom, Date, and Addressee's Address
Return Receipt Showing to Whom & Date Delivered
Restricted Delivery Fee
Special Delivery Fee
Certified Fee
Postage $
P.O., State and ZIP Code LOVINGTON NM 88260
Street and No. P O BOX 1717
Sent to Lovington Daily Leader

UNITED STATES POSTAL SERVICE
Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Z 765 962 305

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

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 29th day of December, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

WILLIAM J. LEMAY, Director

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 29th day of December, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

WILLIAM J. LEMAY, Director

J. L. DAVIS
GAS CONSULTING - REGISTERED ENGINEER
211 NORTH COLORADO
MIDLAND, TEXAS 79701-4696
OFF: 915-682-6311
Fax: 915-682-4024

February 4, 1994

Mr. Roger C. Anderson
State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87504

RE: Discharge Plan GW-48 Renewal
Denton Gas Plant, Lea County, NM

Dear Mr. Anderson:

With respect to the referenced plan, the Denton Plant personnel advise me that all flows and facilities are unchanged from the 1989 plan.

I understand from your Mr. Bobby Meyers that the above statement eliminates the need to fill out the application form sent with your renewal notice.

If my understanding of the above is in error, please notify me as soon as possible as to what action you require. We wish to proceed with renewal of this plan on a timely basis.

Thank you very much.

Don K. Judd

DKJ/rs

cc: J. L. Davis
O. R. Barr, Jr.

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

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

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

November 8, 1993

CERTIFIED MAIL
RETURN RECEIPT NO. P-176-012-041

Mr. Donald K. Judd
Davis Gas Processing
211 North Colorado
Midland, TX 79701

RE: Discharge Plan GW-48 Renewal
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd,

On September 12, 1989, the groundwater discharge plan, GW-48 for the Denton Gas Plant located in the SW/4 of Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico, was approved by the Director of the Oil Conservation Division (OCD). This discharge plan was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. The approval will expire on September 12, 1994.

If your facility continues to have potential or actual effluent or leachate discharges and you wish to continue operation, you must renew your discharge plan. The OCD is reviewing discharge plan submittals and renewals carefully and the review time can extend for several months. Please indicate whether you have made, or intend to make, any changes in you system, and if so, please include these modifications in your application for renewal.

Note that the completed and signed application form must be submitted with your discharge plant renewal request.

If you no longer have any actual or potential discharges please

identify this office. If you have any questions, please do not hesitate to contact Bobby Myers at (505)827-4080.

Sincerely,

Roger C. Anderson
Environmental Bureau Chief

RCA/rlm

xc: OCD Hobbs Office

WEST TEXAS GAS, INC.
211 NORTH COLORADO
MIDLAND, TEXAS 79701 - 4696

AREA CODE (915)
682-4349

FAX
(915) 682-4024

DISTRICT OFFICES:
★ Alpine
★ Fort Stockton
★ Pecos
★ Monahans
★ Kermit
★ Midland
★ Andrews
★ Seminole
★ Denver City
★ Plains
★ Morton
★ Olton
★ Dimmitt
★ Halfway
★ Plainview
★ Dalhart
★ Spearman
★ Clarendon
★ Shamrock
★ Amarillo

September 5, 1989

Mr. Roger C. Anderson
State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Re: Discharge Plan GW-48, Denton Gas Plant
Lea County, New Mexico

Dear Mr. Anderson:

The following plans and timetables are submitted in response to your letter of June 12, 1989, copy attached:

I. Washwater Runoff

1. Amine Pump Skid

a. Containment method:
i. Gutter system around skid
ii. Deck holes sealed.
iii. Gutter drain to existing concrete skimmer pit. This segment of drain is part of master drain hereinafter referred to in subsections 2-5.

b. Timetable: Complete by November 1, 1989.

2. Amine Regeneration Skid

a. Containment method:

i. Gutter system around skid.
ii. Deck holes sealed.
iii. Gutter drain connected to master drain system.

b. Timetable: Complete by December 1, 1989.

3. Process Skid

a. Containment Method:

i. Concrete berm around skid base pad.
ii. Skid drain connected to master drain system.

b. Timetable: Complete by April 1, 1990.

4. Process Skid Refrigeration Wing

a. Containment method:

i. Pour concrete slab under skid.
ii. Concrete berm around slab.
iii. Skid drain connected to master drain system.

b. Timetable: Complete by May 15, 1990.

5. Process Skid Refrigeration Unit

a. Containment Method:

i. Pour concrete slab under skid.
ii. Concrete berm around slab.
iii. Skid drain connected to master drain system.

b. Timetable: Complete by May 15, 1989.

II. Leak Test - Gravity Drains

It is proposed to pressure test the gravity drains via a pressure test. If the pressure test indicates the lines are intact, future pressure tests will be conducted prior to the renewal date. If the pressure test fails, the affected segment(s) will be replaced with new plastic pipe.

Timetable: Test by November 1, 1989. If replacement, in part or in whole, is required, by March 1, 1990.

We understand that the above will fulfill the outstanding requirements toward issuance of the discharge plan.

If additional information or action is required, please advise as soon as possible. In such event, we trust you will also grant an adequate extension beyond October 6, 1989 to permit our response.

Thank you very much.

Don K. Judd

DKJ/rs/8-28.3
Attachment

cc: J. L. Davis
Gordon Cornelius
O.R. Barr, Jr.
Jim Ross - Tipperary Corp.

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

August 2, 1989

Mr. Donald K. Judd
DAVIS GAS PROCESSING
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-48
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

Enclosed are copies of the results of the chemical analyses from samples taken during our last sampling trip at your facility.

If you have any questions regarding the results, please contact me at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Engineer

RCA/sl

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

June 12, 1989

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

CERTIFIED MAIL
RETURN RECEIPT NO. P-106-675-171

Mr. Donald K. Judd
DAVIS GAS PROCESSING
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-48
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

The Oil Conservation Division (OCD) has received your response, dated March 14, 1989, to the request for additional information pertaining to the above referenced discharge plan application. The following comments and requests for commitments are based on the review of the data submitted in the application and response, and OCD site visits of April 14, 1988 and March 29, 1989

1. In your response dated March 14, 1989, Section II.4 (Plant Processes), you state the amount of washwater is minimal. The washwater contains contaminants that, if allowed to be disposed of an the surface of the ground in an unsound manner, could migrate to and contaminate ground waters that are by statute protectable. Therefore, the OCD is requiring the containment and proper disposal of all such fluids from all processes in the facility. Submit a plan with a completion timetable for containment of these fluids.

2. Section II.3 (Spill/Leak Detection) you state the only lines over 25 years old are gravity drains. Submit a proposed method with a completion timetable for testing these lines for integrity.

If you have any questions, please contact me at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Engineer

RCA/sl

CC: OCD Hobbs Office

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

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

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

PENALTY FOR PRIVATE USE, $300

RETURN TO

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

~~ENERGY AND MINERALS DEPARTMENT~~
Oil Conservation Division
~~P.O. Box 2088~~
Santa Fe, New Mexico 87501

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Davis Gas Processing
211 N. Colorado
Midland, Tx 79701
attn: Donald Judd

4. Article Number
P106675 171

Type of Service:
- ☐ Registered
- ☑ Certified
- ☐ Express Mail
- ☐ Insured
- ☐ COD
- ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X D Fraser

7. Date of Delivery
6-15-89

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 * U.S.G.P.O. 1988-212-865 **DOMESTIC RETURN RECEIPT**

754 WPU

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

OR89-0908-C

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 6-27-89
PRIORITY 3
PHONE(S): 827-5812

COLLECTION CITY: Lovington ; COUNTY: Lea

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 8 9 0 6 2 7 1 1 6 0 5

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 4 1 - 1 (10N06E24342)

USER CODE: 8 2 2 3 5 SUBMITTER: David Boyer CODE: 2 6 0

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7 ; Conductivity= 1750 umho/cm at 41 °C; Chlorine Residual= ____ mg/l

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

Depth to water ____ ft.; Depth of well ____ ft.; Perforation Interval ____ - ____ ft.; Casing: ____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Dorris Gas Processing - Cooling Ticket Water

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D J Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from ____ to ____

at (location) ____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [ ] No [ ]

Signatures ____ ____

For OCD use: Date owner notified: 8/3/89 Phone or (Letter?) Initials CS

ANALYSES PERFORMED

LAB. No.: OR-

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☐ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

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- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
* DETECTION LIMIT * *		+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☐ No ☐. Seal(s) broken by: _____ date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: _____. Analyst's signature: _____

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: _____

STATE OF NEW MEXICO HEALTH AND ENVIRONMENT DEPARTMENT
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud, NE
Albuquerque, NM 87106 [505]-841-2500
ORGANIC CHEMISTRY SECTION [505]-841-2570

July 25, 1989

ANALYTICAL REPORT
SLD Accession No. OR-89-0908

Distribution
(■) Submitter
(▩) SLD Files

To: NM Oil Consv. Div.
State Land Office Bldg.
P. O. Box 2088
Santa Fe, NM 87504-2088

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: **A purgeable water sample submitted to this laboratory on June 27, 1989**

User:
OIL CONSERVATION DIV
State Land Office Bldg.
P. O. Box 2088
Santa Fe, NM 87504-2088

DEMOGRAPHIC DATA

COLLECTION

On: 21-Jun-89 *By:* Boy . . .
At: 16:03 hrs. *In/Near:* Lovington

LOCATION

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable Screen

Parameter	Value	Note	MDL	Units
Halogenated Purgeables (33)	0.00	N	5.00	ppb
Benzene	80.00		10.00	ppb

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified; T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed [X]; Intact: No [ ], Yes [ ] & Broken By: _____ Date: _____

Laboratory Remarks: Davis Gas- Cooling Jacket Wtr

Analyst: _____ 7-12-89
Michael J. Owen — Analysis Date
Analyst, Organic Chemistry

Reviewed By: _____
Richard F. Meyerhein 07/25/89
Supervisor, Organic Chemistry Section

754 WPU

SCIENTIFIC LABORATORY DIVISION
ORGANIC ANALYSIS REQUEST FORM
Organic Section - Phone: 841-2570

OR89-0909-C

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

S.L.D. No. OR-
DATE REC. 6-27-89
PRIORITY 3
PHONE(S): 827-5812

COLLECTION CITY: Lovington ; COUNTY: Lea

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) |8|9|0|6|2|1|1|6|1|9|

LOCATION CODE: (Township-Range-Section-Tracts) |1|5|S+3|7|E+0|2+4|-|-| (10N06E24342)

USER CODE: |8|2|2|3|5| SUBMITTER: David Boyer CODE: |2|6|0|

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER:

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7 ; Conductivity= 1175 umho/cm at 24 °C; Chlorine Residual= ____ mg/l

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

Depth to water ____ ft.; Depth of well ____ ft.; Perforation Interval ____ - ____ ft.; Casing: ____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Davis Gas Processing - East (deep) water supply well

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): W G Boyer Method of Shipment to the Lab: State Car

CHAIN OF CUSTODY

I certify that this sample was transferred from ____ to ____

at (location) ____ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [ ] No [ ]

Signatures ____ ____

For OCD use: Date owner notified: 8/3/89 Phone or (Letter?) Initials RCS

ANALYSES PERFORMED

LAB. No.: OR-

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☐ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
* DETECTION LIMIT * ✱		+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

{ RESULTS IN BRACKETS } ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed ☐ Intact: Yes ☐ No ☐. Seal(s) broken by: _____ date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: _____. Analyst's signature: _____

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: _____

STATE OF NEW MEXICO HEALTH AND ENVIRONMENT DEPARTMENT
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud, NE
Albuquerque, NM 87106 [505]-841-2500
ORGANIC CHEMISTRY SECTION [505]-841-2570

July 25, 1989

ANALYTICAL REPORT
SLD Accession No. OR-89-0909

Distribution
(■) Submitter
(※) SLD Files

To: NM Oil Consv. Div.
State Land Office Bldg.
P. O. Box 2088
Santa Fe, NM 87504-2088

From: Organic Chemistry Section
Scientific Laboratory Div.
700 Camino de Salud, NE
Albuquerque, NM 87106

Re: **A purgeable water sample submitted to this laboratory on June 27, 1989**

User:
OIL CONSERVATION DIV
State Land Office Bldg.
P. O. Box 2088
Santa Fe, NM 87504-2088

DEMOGRAPHIC DATA

COLLECTION *LOCATION*

On: 21-Jun-89 *By:* Boy . . .
At: 16:19 hrs. *In/Near:* Lovington

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable Screen

Parameter	Value	Note	MDL	Units
Aromatic Purgeables (6)	0.00	N	0.50	ppb
Halogenated Purgeables (33)	0.00	N	1.00	ppb

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified; T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed[X]; Intact: No[ ], Yes[ ] & Broken By: _____ Date: _____

Laboratory Remarks: Davis Gas- East Wtr Supply

Analyst: M J Owen 7-12-89 **Reviewed By:** Mary Ellen for RFM

Michael J. Owen — *Analyst, Organic Chemistry* — Analysis Date

Richard F. Meyerhein 07/25/89 — *Supervisor, Organic Chemistry Section*

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

May 17, 1989

CERTIFIED MAIL
RETURN RECEIPT NO. P-106-675-540

Mr. Donald K. Judd
DAVIS GAS PROCESSING
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-48
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

The Oil Conservation Division (OCD) has received your request, dated March 14, 1989, for an extension of the authorization to discharge without an approved discharge plan at the above referenced facility. The discharge plan application was received by the OCD on December 15, 1988 and supplemental information was received on March 27, 1989.

Pursuant to WQCC Regulation 1-106.A, and for good cause, you are granted an extension to October 6, 1989 to discharge without an approved discharge plan. This extension is granted to allow for completion of review of your latest submission and further exchange of comments and information.

If you have any questions, please call Roger Anderson at (505) 827-5884.

Sincerely

William J. LeMay
Director

WJL/RCA/sl

cc: OCD Hobbs Office
E. E. Zernial, Davis, Denton

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

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

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

RECEIVED

MAY 22 1989

OIL CONSERVATION DIV.
SANTA FE

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

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

ENERGY AND MINERALS DEPARTMENT
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Dana Gas Processing
211 W. Colorado - P.
Midland, Tx 79701
Attn: Donald Judd

4. Article Number
P1C6675540

Type of Service:
- ☐ Registered
- ☑ Certified
- ☐ Express Mail
- ☐ Insured
- ☐ COD
- ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X

7. Date of Delivery
5-18-89

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

Field Notes of Boyer,
3/29/89 DSB

(Other OCD Staff, Roger Anderson, SF)

DAVIS Gas Proc.

8903291630
Sample from Cooling Tank*
Sp. cond 1400@33°C
pH 7
* Surge tank effluent

-1645 Sample from East Water well.
Sp. cond 1170@20°C
pH = 7
(Taken at outlet tap at west well*)
Met w/ Don Tudd, Bud Z.

Remaining areas of concern -
- Pond cleanout and closure
- Field clean up
- Engine room oil/wastewater runoff to ground on South side
- Amine process pumps (fluid containment on skid)
- Gas process skid - containment on concrete pad.
(* after holding water storage tank)

Lab ACCU-LABS
No. 77-521.07-123

ORGANIC ANALYSIS REQUEST FORM

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Sample No. 8903291645
DATE REC. ______
PRIORITY ______
PHONE(S): 827-5812

COLLECTION CITY: Lovington ; COUNTY: Lea

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 8|9|0|3|2|9|1|6|4|5

LOCATION CODE: (Township-Range-Section-Tracts) |__|__|__|+|__|__|+|__|+|__|__|__|(10N06E24342)

SUBMITTER: David Boyer

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER: ______

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ______

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- [X] P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Headspace (1-5 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes
- [ ] (774) SDWA VOC's I (8 Regulated +)
- [ ] (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- [ ] ______
- [ ] ______

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: ______

FIELD DATA:

pH= 7 ; Conductivity= 1170 umho/cm at 20 °C; Chlorine Residual= ____ mg/l

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

Depth to water ____ ft.; Depth of well ____ ft.; Perforation Interval ____-____ ft.; Casing: ______

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Sample from East (deep) water well next to machine shop. (taken from outlet at west well after isolating water tank)

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): David H Boyer Method of Shipment to the Lab: Freight Express

CHAIN OF CUSTODY

I certify that this sample was transferred from DB to DM at (location) ALR on 4/5/89 - 12:25 and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] OR Seals Intact: Yes [ ] No [ ]

Signatures [signature]

For OCD use: Date owner notified: 6/19/89 Phone or Letter? Initials [initials]

Contract Lab Acc[illegible] LABS
Contract No. 77-521.07-123

[illegible] ENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED / LAB NO.	Sample No. 8903291645
Collection DATE 89103129	Sample location Dav's Gas Processing
Collection TIME 1645	Collection site description East water well (from tap next to W. Well after storage tank isolated)
Collected by — Person/Agency Boyer/Anderson/OCD	

SITE INFORMATION ►

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088
Attn: David Boyer
Phone: 827-5812

Station/ well code
Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☒ Tap	Water level	Discharge	Sample type Grab
pH (00400) 7	Conductivity (Uncorrected) 1170 µmho	Water Temp. (00010) 20 °C	Conductivity at 25°C (00094) µmho

Field comments (West well disconnected)

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1	☒ NF: Whole sample (Non-filtered)	☐ F: Filtered in field with 0.45 µmembrane filter	☐ A: 2 ml H_2SO_4/L added
☒ NA: No acid added	☐ Other-specify:	☐ A: 5ml conc. HNO_3 added	☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA	Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	µmho	
☐ Total non-filterable residue (suspended) (00530)	mg/l	
☒ Other: Lab pH		
☐ Other:		
☐ Other:		

A-H_2SO_4		
☐ Nitrate-N + , Nitrate-N total (00630)	mg/l	
☐ Ammonia-N total (00610)	mg/l	
☐ Total Kjeldahl-N ( )	mg/l	
☐ Chemical oxygen demand (00340)	mg/l	
☐ Total organic carbon ( )	mg/l	
☐ Other:		
☐ Other:		

From NE, NA Sample:

		Date Analyzed
☒ Calcium	mg/l	
☒ Potassium	mg/l	
☒ Magnesium	mg/l	
☒ Sodium	mg/l	
☒ Bicarbonate	mg/l	
☒ Chloride	mg/l	
☒ Sulfate	mg/l	
☒ Total Solids	mg/l	
☒ CO_3		
☒ Fluoride		
☒ Cation/Anion Balance		

Analyst	Date Reported	Reviewed by

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

7

Contract Lab Accu-Labs
Contract No. 77-5[illegible].07-123

HEAVY METAL ANALYSIS FORM

Date Received	Lab No.	Sample No. 8903291645

COLLECTION DATE & TIME: yy 89 | mm 03 | dd 29 | hh 16 | mm 45

COLLECTED BY: Boyer / Anderson OCD

TO:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: D. Boyer
TELEPHONE: 827-5812

COLLECTION SITE DESCRIPTION
Davis Gas Processing
East Water Well

OWNER:

SITE LOCATION:
County: Lea

Township, Range, Section, Tract: (10N06E24342)
| | | + | | + | + | | |

STATION/ WELL CODE:

LATITUDE, LONGITUDE: -

SAMPLING CONDITIONS:

☐ Bailed ☐ Pump ☐ Dipped ☒ Tap	Water Level:	Discharge:	Sample Type: Grab
pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
7	1170 µmho	20 °C	µmho

FIELD COMMENTS: East well is deeper of two wells (Taken from tap at west well after isolating water storage tank) West well disconnected

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
☒ WPN: Water Preserved w/HNO_3 Non-Filtered	☐ WPF: Water Preserved w/HNO_3 Filtered	☐ ICAP Scan Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	☒	☐	Silicon	☐	☐
Barium	☒	☐	Silver	☒	☐
Beryllium	☐	☐	Strontium	☒	☐
Boron	☒	☐	Tin	☐	☐
Cadmium	☒	☐	Vanadium	☐	☐
Calcium	☐	☐	Zinc	☒	☐
Chromium	☐	☒	Arsenic		☒
Cobalt	☒	☐	Selenium		☒
Copper	☒	☐	Mercury		☒
Iron	☒	☐		☐	☐
Lead	☐	☒		☐	☐
Magnesium	☐	☐		☐	☐
Manganese	☒	☐		☐	☐
Molybdenum	☒	☐		☐	☐
Nickel	☒	☐		☐	☐

LAB COMMENTS:

For OCD Use:
Date Owner Notified:
Phone or Letter?
Initials:

ICAP Analyst Reviewer
Date Analyzed Date Reveived

Accu-Labs Research, Inc.

Mr. David Boyer
NM Oil Conservation Division

RE: 9649-29859-20
Date Samples Rec'd: 4-5-89
P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9649-29859-20-7 8903291645 3-29-89	9649-29859-20-8 8903291345 3-29-89	9649-29859-20-9 8903291210 3-29-89
GC/MS VOLATILE ORGANICS, µg/L:			
Chloromethane	<10	<10	<100
Bromomethane	<10	<10	<100
Vinyl chloride	<10	<10	<100
Chloroethane	<10	<10	<100
Methylene chloride	<5	<5	<50
1,1-Dichloroethene	<5	<5	<50
1,1-Dichloroethane	<5	<5	<50
Total 1,2-Dichloroethene	<5	<5	<50
Chloroform	<5	<5	<50
1,2-Dichloroethane	<5	<5	<50
1,1,1-Trichloroethane	<5	<5	<50
Carbon tetrachloride	<5	<5	<50
Bromodichloromethane	<5	<5	<50
1,2-Dichloropropane	<5	<5	<50
c-1,3-Dichloropropene	<5	<5	<50
Trichloroethene	<5	<5	<50
Benzene	13	<5	3400
Dibromochloromethane	<5	<5	<50
1,1,2-Trichloroethane	<5	<5	<50
t-1,3-Dichloropropene	<5	<5	<50
2-Chloroethylvinyl ether	<5	<5	<50
Bromoform	<5	<5	<50
1,1,2,2-Tetrachloroethane	<5	<5	<50
Tetrachloroethene	<5	<5	<50

Accu-Labs Research, Inc.

Mr. David Boyer
NM Oil Conservation Division

RECEIVED
MAY 17 1989
OIL CONSERVATION DIV.
SANTA FE

RE: 9649-29859-20
Date Samples Rec'd: 4-5-89
P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9649-29859-20-7 8903291645 3-29-89	9649-29859-20-8 8903291345 3-29-89	9649-29859-20-9 8903291210 3-29-89
Determination: µg/L			
Toluene	<5	<5	3500
Chlorobenzene	<5	<5	<50
Ethyl benzene	<5	<5	670
Total Dichlorobenzenes	<5	<5	<50
Total Xylenes	<5	<5	1400
Determination: mg/L			
Aluminum, total	<0.1	0.1	<1*
Barium, total	0.10	0.27	0.9
Boron, total	0.2	0.7	9.3
Cadmium, total	<0.005	<0.005	<0.05*
Calcium, total	160	570	3500
Chromium, total	<0.005	0.008	<0.05*
Cobalt, total	<0.005	<0.005	<0.05*
Copper, total	0.048	0.070	<0.05*
Iron, total	1.7	1.6	2.5
Magnesium, total	24	72	980
Manganese, total	0.069	0.027	1.1
Mercury, total	0.0007	<0.001*	0.002
Molybdenum, total	<0.005	0.011	<0.05*
Nickel, total	<0.01	0.01	<0.1*
Potassium, total	4.3	26	570
Silver, total	<0.005	<0.005	<0.005
Sodium, total	120	280	19,000
Strontium, total	1.0	4.6	65
Zinc, total	0.022	0.024	<0.05
Total Alkalinity, (as $CaCO_3$ to pH 4.5)	280	110	1600

Accu-Labs Research, Inc.

Mr. David Boyer
NM Oil Conservation Division

RECEIVED
MAY 17 1989
OIL CONSERVATION DIV.
SANTA FE

RE: 9649-29859-20
Date Samples Rec'd: 4-5-89
P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9649-29859-20-7 8903291645 3-29-89	9649-29859-20-8 8903291345 3-29-89	9649-29859-20-9 8903291210 3-29-89
Determination: mg/L			
Carbonate (as CO_3)	<5	<5	<5
Bicarbonate (as HCO_3)	330	140	1900
pH	7.5	7.2	7.3
Specific Conductance, µmhos/cm	1600	5400	120,000
Arsenic, total	0.008	0.015	0.72
Lead, total	<0.005	<0.005	<0.005
Selenium, total	<0.005	0.006	<0.005
Total Solids	930	3300	65,000
Bromide	--	11	<200*
Fluoride	1.4	--	--
Chloride	260	630	37,000
Sulfate (as SO_4)	110	1400	1300
Ion Balance	101	95	99

Lab No. ACCU-LABS 72-521.07-123

ORGANIC ANALYSIS REQUEST FORM

REPORT TO: DAVID BOYER
N.M. OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Sample No. 8903291630
DATE REC. _____
PRIORITY _____
PHONE(S): 827-5812

COLLECTION CITY: Lovington ; COUNTY: Lea

COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) 8 9 1 0 3 1 2 9 1 6 3 1 0

LOCATION CODE: (Township-Range-Section-Tracts) _ _ _ + _ _ + _ + _ _ (10N06E24342)

SUBMITTER: David Boyer

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-AA Sample Preserved with Ascorbic Acid to remove chlorine residual.
- ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Headspace (1-5 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- ☐ (774) SDWA VOC's I (8 Regulated +)
- ☐ (775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= 7 ; Conductivity= 1400 umho/cm at 33 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____-_____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Sample from cooling Jacket surge tank Effluent
Davis Gas Processing

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): David K Boyer Method of Shipment to the Lab: Freight Express

CHAIN OF CUSTODY

I certify that this sample was transferred from DB to DM

at (location) ALR on 4/5/89 - 12:25 and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ OR Seals Intact: Yes ☒ No ☐

Signatures: Ernest A Mayden

For OCD use: Date owner notified: 6/19/89 Phone or (Letter?) Initials DRB

Contract Lab ACCU LABS
Contract No. 77-521.07-123

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED | LAB NO.

Sample No. 8903291630

Collection DATE 89103129
Collection TIME 1630
Collected by — Person/Agency Boyer/Anderson/OCD

SITE INFORMATION ►

Sample location Davis Gas Processing

Collection site description Surge tanks at Cooling Jackets for engines, effluent line to ground

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Pump ☒ Tap ☐ Dipped

Water level | Discharge | Sample type Grab

pH (00400) 7 (Strip) | Conductivity (Uncorrected) 1480 µmho | Water Temp. (00010) 33 °C | Conductivity at 25°C (00094) µmho

Field comments

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☐ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)		µmho	
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH			
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N + , Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

		Date Analyzed
☒ Calcium	mg/l	
☒ Potassium	mg/l	
☒ Magnesium	mg/l	
☒ Sodium	mg/l	
☒ Bicarbonate	mg/l	
☒ Chloride	mg/l	
☒ Sulfate	mg/l	
☒ Total Solids	mg/l	
☒ CO_3		
☒ Bo		
☒ Cation/Anion Balance		

Analyst | Date Reported | Reviewed by

Laboratory remarks

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

Contract Lab ACCU LABS

Contract No. 77-5[illegible]1.07-123

HEAVY METAL ANALYSIS FORM

Date Received	/ /	Lab No.		Sample No. 8903291630

COLLECTION DATE & TIME:

yy	mm	dd	hh	mm
89	03	29	16	30

COLLECTED BY: Boyer / Anderson OCD

COLLECTION SITE DESCRIPTION: Davis Gas Processing Cooling Jacket Surge tank effluent

TO:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: D. Boyer
TELEPHONE: 827-5812

OWNER:

SITE LOCATION:
County: Lea

Township, Range, Section, Tract: (10N06E24342)

STATION/ WELL CODE:

LATITUDE, LONGITUDE:

SAMPLING CONDITIONS:

	Water Level:	Discharge:	Sample Type:
[ ] Bailed [ ] Pump [ ] Dipped [x] Tap			Grab

pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
7	1400 µmho	33 °C	µmho

FIELD COMMENTS:

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
[x] WPN: Water Preserved w/HNO_3 Non-Filtered	[ ] WPF: Water Preserved w/HNO_3 Filtered	[ ] ICAP Scan Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	[x]	[ ]	Silicon	[ ]	[ ]
Barium	[x]	[ ]	Silver	[x]	[ ]
Beryllium	[ ]	[ ]	Strontium	[x]	[ ]
Boron	[x]	[ ]	Tin	[x]	[ ]
Cadmium	[x]	[ ]	Vanadium	[ ]	[ ]
Calcium	[ ]	[ ]	Zinc	[x]	[ ]
Chromium	[ ]	[x]	Arsenic		[x]
Cobalt	[x]	[ ]	Selenium		[x]
Copper	[x]	[ ]	Mercury		[x]
Iron	[x]	[ ]		[ ]	[ ]
Lead	[ ]	[x]		[ ]	[ ]
Magnesium	[ ]	[ ]		[ ]	[ ]
Manganese	[x]	[ ]		[ ]	[ ]
Molybdenum	[x]	[ ]		[ ]	[ ]
Nickel	[x]	[ ]		[ ]	[ ]

LAB COMMENTS:

For OCD Use:		
Date Owner Notified:	ICAP Analyst	Reviewer
Phone or Letter?		
Initials:	Date Analyzed	Date Reveived

Accu-Labs Research, Inc.

Mr. David Boyer
NM Oil Conservation Division

RE: 9649-29859-20
Date Samples Rec'd: 4-5-89
P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9649-29859-20-4 8903291055 3-29-89	9649-29859-20-5 8903301230 3-30-89	9649-29859-20-6 8903291630 3-29-89
Determination: µg/L			
Toluene	100	1300	<5
Chlorobenzene	<5	<50	<5
Ethyl benzene	64	170	<5
Total Dichlorobenzenes	<5	<50	<5
Total Xylenes	130	370	<5
Determination: mg/L			
Aluminum, total	<1*	<1*	<0.1
Barium, total	1.4	0.4	0.10
Boron, total	60	49	0.2
Cadmium, total	<0.05*	<0.05*	<0.005
Calcium, total	4300	4400	110
Chromium, total	<0.05*	<0.05*	<0.005
Cobalt, total	<0.05*	<0.05*	<0.005
Copper, total	<0.05*	<0.05*	0.032
Iron, total	2.2	0.9	1.4
Magnesium, total	6200	700	22
Manganese, total	4.5	0.22	0.21
Mercury, total	<0.001*	<0.001*	<0.001*
Molybdenum, total	<0.05*	<0.05	<0.005
Nickel, total	<0.1*	<0.1*	<0.01
Potassium, total	320	250	5.4
Silver, total	<0.005	0.018	<0.005
Sodium, total	72,000	43,000	120
Strontium, total	100	460	1.0
Zinc, total	<0.05*	<0.05*	<0.005
Total Alkalinity, (as $CaCO_3$ to pH 4.5)	580	300	170

Accu-Labs Research, Inc.

Mr. David Boyer
NM Oil Conservation Division

RE: 9649-29859-20
Date Samples Rec'd: 4-5-89
P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9649-29859-20-4 8903291055 3-29-89	9649-29859-20-5 8903301230 3-30-89	9649-29859-20-6 8903291630 3-29-89
Determination: mg/L			
Carbonate (as CO_3)	<5	<5	<5
Bicarbonate (as HCO_3)	700	360	200
pH	7.2	6.9	7.6
Specific Conductance, µmhos/cm	390,000	230,000	1400
Arsenic, total	0.51	<0.005	<0.005
Lead, total	0.008	0.050	<0.005
Selenium, total	<0.25*	<0.10*	<0.005
Total Solids	210,000	120,000	750
Bromide	270	<80*	<5*
Chloride	130,000	70,000	250
Sulfate (as SO_4)	4100	1400	110
Ion Balance	102	107	100

Accu-Labs Research, Inc.

Mr. David Boyer
NM Oil Conservation Division

RE: 9649-29859-20
Date Samples Rec'd: 4-5-89
P.O. No. 77-521.07-123

REPORT OF ANALYSIS

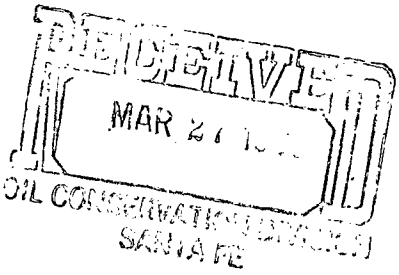
ALR Designation Sponsor Designation	9649-29859-20-4 8903291055 3-29-89	9649-29859-20-5 8903301230 3-30-89	9649-29859-20-6 8903291630 3-29-89
GC/MS VOLATILE ORGANICS, µg/L:			
Chloromethane	<10	<100	<10
Bromomethane	<10	<100	<10
Vinyl chloride	<10	<100	<10
Chloroethane	<10	<100	<10
Methylene chloride	<5	<50	<5
1,1-Dichloroethene	<5	<50	<5
1,1-Dichloroethane	<5	<50	<5
Total 1,2-Dichloroethene	<5	<50	<5
Chloroform	<5	<50	<5
1,2-Dichloroethane	<5	<50	<5
1,1,1-Trichloroethane	<5	<50	<5
Carbon tetrachloride	<5	<50	<5
Bromodichloromethane	<5	<50	<5
1,2-Dichloropropane	<5	<50	<5
c-1,3-Dichloropropene	<5	<50	<5
Trichloroethene	<5	<50	<5
Benzene	75	2200	<5
Dibromochloromethane	<5	<50	<5
1,1,2-Trichloroethane	<5	<50	<5
t-1,3-Dichloropropene	<5	<50	<5
2-Chloroethylvinyl ether	<5	<50	<5
Bromoform	<5	<50	<5
1,1,2,2-Tetrachloroethane	<5	<50	<5
Tetrachloroethene	<5	<50	<5

J. L. DAVIS
GAS CONSULTING - REGISTERED ENGINEER
211 NORTH COLORADO
MIDLAND, TEXAS 79701

A. C. 915
682-6311

March 14, 1989

State of New Mexico
Oil Conservation Division
PO Box 2088
State Land Office Building
Santa Fe, New Mexico 87504
ATTN: Mr. Roger C. Anderson



RE: Discharge Plan GW-48
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Anderson:

Pursuant to your letter of February 9, 1989, copy attached, I am herewith providing the additional information requested. Each item below is numbered in accordance with your letter outline.

II. PLANT PROCESSES

1. The two 9000 gallon tanks are above ground and are not bermed. They are, however, process tanks and contain more water than hydrocarbon.

2. The plant personnel state that NO corrosion inhibitor is used and my prior reference thereto was apparently in error.

3. The plant personnel state that neither cooling jacket water nor engine oil commonly leak in such a way that the effluent would drain across the ground into the cooling tower pit. I saw absolutely no evidence of such leaks in the fall of 1988 when I was preparing the original report and suggest that perhaps the April event was in fact a fluke. However, the plant is planning to seal of the cooling tower basin which will end the disposal of the basin water into the unlined pit.

4. Paragraph #1: The amount of wash water and soap discharged to grade is minimal and for annual discharge is probably comparable to an individual washing his car monthly in his driveway. It is totally unfeasible to contain and collect this soapy water. Therefore, the plant will simply stop washing the amine and process skids if you so direct.

Paragraph #2: There are no leak detection systems for engine room sump or skimmer pit. The engine room sump operates with a normal fluid level of only 6" to 12". There is little hydraulic driving force for any possible leak.

SEE NOTE "A", page 3.

5. Each engine already has a concrete perimeter trench designed to divert all oil seepage into the underground sump. This would seem to be adequate for the purpose.

6. There is no oil leakage from the oil transfer pumps to the ground. One pump is a submersible pump located in the pit; the other is a centrifugal pump on a plate over the pit.

II. SPILL/LEAK DETECTION & HOUSEKEEPING

1. No tanks are presently bermed. To provide berming, a specific design will be developed prior to June 1, 1989 and construction will be completed by January 1, 1990.

2. The plant will close the cooling tower basin and prevent rain water from entering. This will be done during 1989.

3. The only underground lines in excess of 25 years age are the gravity drains from the engine room sump and the yard sumps. The condensate lines and process lines are above ground.

SEE NOTE "A", page 3.

4. The oil/water separator site clean-up would be coincidentally done with the berming.

MISCELLANEOUS

1. No.

2. Attached.

3. No sludges or solid wastes other than filter elements. Presently such waste is put in plastic garbage bags and delivered to an approved landfill.

4. No drum storage.

5. A plat is attached. Moreover, a generalized plantsite map was attached to the original report as Exhibit "C". All surrounding contiguous property is owned by the Dickenson Ranch.

6. The pond/field general cleanup plan is as follows:

    a. Encapsulate loose debris and trash in plastic bags and remove to approved landfill.

    b. Bring in and compact a 2 ft. layer of dirt over the pond, mounding as required.

    c. Remove existing pond berms and incorporate this material into pond cover.

    d. Bring in or move sufficient dirt to mound the drainage field.

    e. Engineering is scheduled for late 1989 and construction during the first half of 1990.

7. All major units are either on elevated pads or diked to prevent runoff water from contracting the equipment.

NOTE "A"

Since the engine room pit is in reality a low head sump and all associated lines are gravity flow, it is proposed to keep the engine room pit pumped dry. The system would be kept empty except when transferring fluid.

Moreover, an economic feasibility study is underway to determine is the underground lines can be brought above grade. However, the process is best served by underground water lines to prevent winter freeze-ups. This same study will address an above-grade skimmer tank.

NOTE "B"

Very little process water and absolutely minimal hydrocarbons are now discharged to the soil surface. Gas plant economics are generally marginal at best due to low product prices and the Denton plant suffers additionally from reduced throughput. I would hope that the New Mexico Oil conservation Division recognizes this and will accept a reasonable approach that addresses the present operation from a prospective viewpoint.

Please advise if additional information is required.

Most important, Davis Gas Processing, Inc. wishes to request any extension as may be required to keep the plant running during this review and subsequent construction.

Thank you very much,

Donald K. Judd
Agent

cc: J.L. Davis

Bill Phillips

E.E. Zernial
Denton Plant

Jim Ross
Tipperary

DKJ/bt/3-14.1
Attached

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

March 1, 1989

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

Dear Mr. ~~Lemay~~ Bill:

This responds to the public notice dated February 24, 1989, in which several proposed groundwater discharge plans were described. We have reviewed all of the plans and have identified resource issues of concern to our agency in the following:

GW-47 Sunterra Gas Processing Company, Lybrook Gas Plant. John Renner, General Manager, P.O. Box 1869, Bloom Field, NM 87143.

GW-7 El Paso Natural Gas Co., Jal #4 Gas Processing Plant, John C. Bridges Manager, Environmental Engineering Group, P.O. Box 1492 El Paso, Texas 79978.

GW-48 Davis Gas Processing Company, Donald K. Judd, Agent., 211 N. Colorado, Midland, Texas 79971.

Our concern is that any surface water discharges resulting from these operations should not have visible traces of oil or gas. If migratory birds were to come in contact with the contaminated waters and perish, violations of the Migratory Bird Treaty Act would have occurred. The Migratory Bird Treaty Act prohibits the taking, except by permit, of individual migratory birds (16 U.S.C. 703). The Migratory Bird Treaty Act prohibits unpermitted taking "by any means or in any manner" of the protected species. Case law has found that unintentional kills of migratory birds, by poisoning or other circumstances is prohibited. Fines of up to $10,000 have been levied against violators.

These comments represent the views of the Fish and Wildlife Service. If you have any questions concerning our comments, please contact Tom O'Brien or Richard Roy at (505) 883-7877 or FTS 474-7877.

Sincerely yours,

John C. Peterson
Field Supervisor

cc:
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico
Regional Administrator, Environmental Protection Agency, Attn: Kathy Hollar, Office of Ground Water, Dallas, Texas
Regional Director, U.S. Fish and Wildlife Service, Fish and Wildlife Enhancement and Law Enforcement, Albuquerque, New Mexico

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

March 7, 1989

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

Mr. John C. Peterson
Field Supervisor
U.S. Fish and Wildlife Service
Suite D
3530 Pan American Highway, N.E.
Albuquerque, New Mexico 87107

Dear Mr. Peterson:

Thank you for your letter of March 1, 1989 providing comments in response to our public notice on pending ground water discharge plans. As you know, OCD has appointed an industry committee to study these issues and make recommendations for OCD rule and policy changes.

In the meantime, OCD will take the following actions regarding the information provided in your letter:

1. Notification of the companies listed in the public notice of the contents of your letter, and pending OCD rulemaking.

2. Modification of discharge plan guidelines for natural gas plants and other facilities to state that discharges to exposed surface facilities must not contain oily films, or that the facilities implement effective methods for prevention of bird contact with the water surface.

Upon completion of the rulemaking action, all companies having discharge plans will be notified of the necessity to protect migratory birds, and facilities will be monitored for compliance during the next regularly scheduled inspection.

If you have any questions regarding this matter, please contact David Boyer of my staff at (505) 827-5812.

Sincerely,

William J. LeMay
Director

WJL/DGB/sl

AFFIDAVIT OF PUBLICATION

No. 23012

STATE OF NEW MEXICO,
County of San Juan:

Betty Shipp being duly sworn, says: That he is the Nat'l. Adv. Manager of THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached legal notice

was published in a regular and entire issue of the said FARMINGTON DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for one consecutive (days) (weeks) on the same day as follows:

First Publication Thursday, February 16, 1989

Second Publication

Third Publication

Fourth Publication

and that payment therefor in the amount of $ 45.47 has been made.

Betty Shipp

Subscribed and sworn to before me this 16th day of February, 19 89.

NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO

My Commission expires: June 23, 1990

Copy of Publication

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 plans have been submitted for renewal or approval to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505)827-5800:

(GW-7) El Paso Natural Gas Company, Jal #4 Gas Processing Plant, John C. Bridges, Manager, Environmental Engineering Group, P.O. Box 1492, El Paso, Texas 79978, has submitted an application for renewal of its previously approved discharge plan for its Jal #4 Gas Plant located in Sections 31 and 32, Township 23 South and Sections 5 and 6, Township 24 South, Range 37 East (NMPM), Lea County, New Mexico. The plant is not in operation at this time and start up is not anticipated in the foreseeable future. If the plant were to begin operation, approximately 98,000 gallons per day of process waste water would be disposed on in an OCD-approved injection well located at the plant site. The total dissolved solids content of the waste water is approximately 1100 mg/l. Grownd water most likely to be affected by an discharge at the surface is at a depth of approximately 105 feet with a total dissolved solids content of approximately 750 mg/l.

(GW-47) Sunterra Gas Processing Company, Lybrook Gas Plant, John Renner, General Manager, P.O. Box 1869, Bloomfield, New Mexico 87413, has submitted for approval a groundwater discharge plan application for its Lybrook Gas Plant located in the NW/4, NW/4, Section 14, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. Approximately 3200 gallons per day of process wastewater is proposed to be disposed of into existing unlined ponds located on the eastern boundary of the plant property. The total dissolved solids concentration of the wastewater is approximately 8500 milligrams per liter (mg/l). Groundwater most likely to be affected by any discharge at the surface is at a depth in excess of 200 feet with a total dissolved solids concentration of 700 mg/l. The discharge plan addresses management of the ponds, including monitoring, and how spills, leaks and other dischages to the ground will be handled.

(GW-48) Davis Gas Processing Company, Donald K. Judd, Agent, 211 N. Colorado, Midland, Texas 79971, has submitted for approval a groundwater discharge plan application for its Denton Gas Plant located in the SE/4, Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 750 gallons per day of process wastewater will be collected and stored on site in storage tanks prior to disposal in an OCD-approved contract injection well. The total dissolved solids concentration of the wastewater is approximately 2000 milligrams per liter (mg/l). Groundwater most likely to be affected by any discharge at the surface is at a depth of approximately 40 feet with total dissolved solids concentration from 610 to 1600 mg/l. The discharge plan addresses how spills, leaks and other discharges to the ground will be managed.

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

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 9th day of February. To be published on or before February 24, 1989.

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

SEAL

Legal No. 23012 published in the Farmington Daily Times, Farmington, New Mexico on Thursday, February 16, 1989.

43.20 *

43.20
2.27 *
45.47

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 plans have been submitted for renewal or approval to the Director of the Oil Conservation Division, State Land Office Building, P. O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

(GW-7) El Paso Natural Gas Company, Jal #4 Gas Processing Plant, John C. Bridges, Manager, Environmental Engineering Group, P.O. Box 1492, El Paso, Texas 79978, has submitted an application for renewal of its previously approved discharge plan for its Jal #4 Gas Plant located in Sections 31 and 32, Township 23 South and Sections 5 and 6, Township 24 South, Range 37 East (NMPM), Lea County, New Mexico. The plant is not in operation at this time and start up is not anticipated in the foreseeable future. If the plant were to begin operation, approximately 98,000 gallons per day of process waste water would be disposed on in an OCD-approved injection well located at the plant site. The total dissolved solids content of the waste water is approximately 1100 mg/l. Groundwater most likely to be affected by an discharge at the surface is at a depth of approximately 105 feet with a total dissolved solids content of approximately 750 mg/l.

(GW-47) Sunterra Gas Processing Company, Lybrook Gas Plant, John Renner, General Manager, P.O. Box 1869, Bloomfield, New Mexico 87413, has submitted for approval a groundwater discharge plan application for its Lybrook Gas Plant located in the NW/4, NW/4, Section 14, Township 23 North, Range 7 West, NMPM, Rio Arriba County, New Mexico. Approximately 3200 gallons per day of process wastewater is proposed to be disposed of into existing unlined ponds located on the eastern boundary of the plant property. The total dissolved solids concentration of the wastewater is approximately 8500 milligrams per liter (mg/l). Groundwater most likely to be affected by any discharge at the surface is at a depth in excess of 200 feet with a total dissolved solids concentration of 700 mg/l. The discharge plan addresses management of the ponds, including monitoring, and how spills, leaks and other discharges to the ground will be handled.

(GW-48) Davis Gas Processing Company, Donald K. Judd, Agent, 211 N. Colorado, Midland, Texas 79971, has submitted for approval a groundwater discharge plan application for its Denton Gas Plant located in the SE/4, Section 2, Township 15 South, Range 37 East, NMPM, Lea County, New Mexico. Approximately 750 gallons per day of process wastewater will be collected and stored on site in storage tanks prior to disposal in an OCD-approved contract injection well. The total dissolved solids concentration of the wastewater is approximately 2000 milligrams per liter (mg/l). Groundwater most likely to be affected by any discharge at the surface is at a depth of approximately 40 feet with total dissolved solids concentration from 610 to 1600 mg/l. The discharge plan addresses how spills, leaks and other discharges to the ground will be managed.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 9th day of February. To be published on or before February 24, 1989.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

S E A L

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

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RECEIVED
FEB 23 1989
OIL CONSERVATION DIVISION
SANTA FE

STATE OF NEW MEXICO }
County of Bernalillo } ss

THOMAS J. SMITHSON

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

for ..... 1 ..... times, the first publication being on the ..... 22 ..... day of ..... Feb ..... ,198 9 ....., and the subsequent consecutive publications on ..... ,198.....

..... Thomas J Smithson .....

OFFICIAL SEAL
ANGELA M. ARCHIBEQUE
NOTARY PUBLIC NEW MEXICO
Filed with Secretary of State
My Commission Expires 10/30/92

Signature: Angela M Archibeque

Sworn and subscribed to before me, a Notary Public in and for the County of Bernalillo and State of New Mexico, this 22 day of Feb ,198 9

PRICE $ 30.80

Statement to come at end of month.

ACCOUNT NUMBER C8D932

EDJ-15 (R-2/86)

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I George W. Moore

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of

One weeks.
Beginning with the issue dated

February 19, 1989
and ending with the issue dated

February 19, 1989

George W. Moore
Publisher.

Sworn and subscribed to before me this 21 day of February, 1989

Vera Murphy
Notary Public.

My Commission expires

November 14, 1992
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
February 19, 1989
NOTICE
OF PUBLICATION
STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION DIVISION

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

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

February 9, 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED NO. P-106 675 550

Mr. Donald Judd, Agent
Davis Gas Processing
211 N. Colorado
Midland, Texas 79701

RE: Discharge Plan GW-48
Denton Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

The Oil Conservation Division (OCD) has received and is in the process of reviewing the above referenced discharge plan application. The application, dated December 8, 1988, was received by the OCD on December 15, 1988. The following comments and requests for additional information are based on our review of the data submitted in the application and the OCD site visit of April 14, 1988.

II. PLANT PROCESSES

1. Section 1 (separators) states wastewater flows to a 9000 gallon tank for oil separation and then to a 1000 BBL storage tank. Are either of these tanks below grade? If so, are they equipped with leak detection? If the tanks are above ground, are they bermed to contain one-third more than the tank volumes?

2. Section 3 states the engine jacket water contains a corrosion inhibitor. What is the trade name and chemical composition of the inhibitor? Supply an MSD sheet for this chemical.

3. Section 4 states the sump of the cooling tower is used to collect rain water runoff and excess run off is pumped to an unlined pit. During the April, 1988 visit water leaking from the cooling jacket pumps was seen moving into the cooling tower basin. Chemical analysis of cooling jacket water indicates chromium and benzene at or exceeding water quality standards. Oil from leaks at the compressors was seen mixing with this water. Water and oil will not be allowed to be drained on the ground or be disposed of in an unlined pit. Submit a plan for containment and proper disposal of any process water, washwater and oil that could migrate to and collect in the cooling tower sump.

4. Section 6 states wash water from the amine and process skids is discharged to grade. This wastewater contains hydrocarbons and soaps. Submit a plan, with a completion timetable, to contain and collect this water for disposal. You state "Red Powder" dry detergent is used for cleaning the process skid. What is its chemical composition? Supply the MSD sheet for this detergent.

   This section also states the wash water from the compressors is collected in a sump below the compressor building and transferred to a skimmer pit. Are the sump and skimmer pit equipped with leak detection? If not, how is the integrity of these units verified?

5. Engine room compressor pads must have sufficient curbing to contain oil seepage from normal operation and water from the washing operation. Submit a construction plan and timetable for installation of such curbing.

6. Submit a plan and timetable for installation of a collection/containment system for oil leaking from the oil transfer pumps.

II. SPILL/LEAK DETECTION AND HOUSEKEEPING

1. Section 1 describes the actions to be taken in the event of a leak or rupture of plant tanks. Are all the tanks that contain fluids, other than fresh water, bermed to contain one-third more than their storage capacities? If not, submit a plan, with completion timetable, for construction of containment facilities. The bermed areas shall be large enough to hold one third more than the largest vessel or one third more than the total volume of all interconnected tanks contained within the berm. A clean-up plan of allowing the fluid to evaporate and/or seep in the ground will not be acceptable.

2. Section 2 states "rain water is rain water..." and you plan to continue pumping the water from the cooling tower basin to the unlined pit. As stated previously in this letter, because of the chemical constituents dissolved in the water flowing to the sump, unlined pit disposal of any fluids that have reached the cooling tower basin from process areas will not be allowed.

3. Section 3 states leaks from any underground piping would be immediately noticed as a seep. It is a discharge plan requirement that all underground piping be tested in plants in excess of 25 years of age. If the Denton Plant was constructed more than 25 years ago, submit a positive testing plan with a schematic showing all underground piping and a completion timetable.

4. The area surrounding the oil/water separator shows evidence of overflows and spills. Submit a timetable for cleanup of the site.

MISCELLANEOUS

1. Is there an SPCC plan in effect at this plant? If so, please provide a copy for exclusion in the file.

2. Provide a list of all chemicals used or stored at the facility and a copy of the MSD sheet for each.

3. Where and how do you dispose of solid wastes (i.e. filter media sludges, trash, filter elements, etc.)?

4. Are all storage areas for drummed chemicals equipped with impermeable pads and spill containment? If not, what action will be taken to prevent any spills or leaks.

5. Submit a map showing the gas plant property boundary and identify the owners of record of all property surrounding the facility.

6. Based on the analysis of the fluids in the unlined pond and its adjacent field, future use of these facilities can provide a hydrostatic head that will allow seepage of contaminants. Prepare and submit for approval a closure plan for the pond and field that includes the removing of fluids and sludges, drying and mounding to prevent future ponding.

7. Prepare and submit for approval a plan to prevent any runoff that can come in contact with any potential contaminant from leaving the plant property or collecting in an unlined facility.

Submission of the information requested will allow the review of the application to continue.

If you have any questions, please call me at (505) 827-5884.

Sincerely,

Roger C. Anderson
Environmental Engineer

RCA/sl

cc: OCD Hobbs Office
E. E. Zernial - Denton

DAVIS GAS PROCESSING

DAVIS GAS PROCESSING, INC.

211 North Colorado
MIDLAND, TEXAS 79701-4696

Area Code 915
682-6311
FAX: (915) 682-4024

December 8, 1988

Director, Oil Conservation Division
P. O. Box 2088
Sante Fe, New Mexico 87504-2088

RE: Discharge Plan GW-48
J. L. Davis Gas Plant
Lea County, New Mexico

Gentlemen:

Enclosed are three copies of the referenced discharge plan.

If there are any questions, please contact Mr. Don K. Judd. He can be reached at the letterhead address or by telephone after 9 a.m. CST during the business day.

Thank you very much.

J. L. Davis

JLD/rs
cc: E. E. Zernial
Bill Phillips
Don K. Judd

GROUND WATER DISCHARGE PLAN

Denton Plant, Lovington, New Mexico

Scope

This Discharge Plan details the nature, extent and quality of all fluids discharged to the surface soil at the Denton Plant; moreover, the subsurface geology and hydrology are depicted. Also, a surface topography map addresses the run-off and drainage flow in relation to the hydrology of the area.

Facility Description

The Denton Plant facility is located in SE/4, Section 2, Township 15S, Range 37E, Lea County, New Mexico.

The facility consists of inlet gas compression, gas treating, gas dehydration, and a cryogenic processing unit. All process cooling is via forced air and all heating is via direct combustion of gas. There is no cooling tower or boiler system. Thus, the major discharge source is produced water, most of which enters with the gas as water of saturation.

DKJ/rs/19.1

DENTON DISCHARGE PLAN

I. General Inforamtion:

A. Name of Discharger: Davis Gas Processing
211 N. Colorado
Midland, TX 79701
(915)682-6311

B. Name of Local Contact: E. E. Zernial
Denton Plant
Rt. 1, Box 510
Lovington, NM 88260
(505)396-2628 - plant
(505)396-4504 - home

C. Location of Discharge:

Denton Gasoline Plant, located in SE/4, Section 2, Township 15S, Range 37E, Lea County, New Mexico. A topographic map and facility site plan are attached.

D. Type of Natural Gas Operation:

The Denton Plant consists of compression, treating, dehydration and natural gas liquids recovery.

Four 1,000 HP compressors are available to boost the low pressure gas to about 850 psig. The gas is treated after the 2nd stage of compression in a 60 GPM DEA (amine) unit to remove CO_2 and H_2S. After the DEA treatment, the gas is returned to the compressors for the third stage of compression.

After the inlet scrubber and each stage of compression, condensate and water are separated from the gas stream and discharged to the condensate recovery system.

The high pressure gas, after compression, is dehydrated in a molecular sieve unit and enters the processing equipment. The gas is cooled via heat exchange and supplemental refrigeration and then passes through the expander unit. The expander unit drops the gas pressure to 140 psig which cools the gas to below - 100 F and causes liquid hydrocarbons to drop out.

The residue gas is warmed in the heat exchange equipment and then compressed to 1,000 psig via the fourth stage of the inlet gas compressors. The residue gas is sold to the Gas Company of New Mexico and the liquid products are removed via the Mapco pipeline.

An idle ammonia plant and an idle and inoperative refrigerated gas plant process unit are on the same site.

DENTON DISCHARGE PLAN

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.

Donald K. Judd
(signature)

12/08/88
(date)

Donald K. Judd
(printed name of person signing)

Agent
(title)

DKJ/rs/19.2

II Plant Processes

A. Sources and Quantities of Effluent and Process Fluids

1. Separators (Produced water)

This is low TDS water with traces of soluble/entrained hydrocarbons. The total annual volume is about 271,000 gallons based on 6 MMCFD inlet gas. This is roughly 750 gallons per day. The produced water rate will be higher in the warmer months and much less in the cold months. The water removed in the dehydration unit is commingled with the produced water in the first stage scrubber. The separator water flows to a 9,000 gallon tank for oil separation and the separated water then flows to a 1,000 barrel storage tank for subsequent truck transport to a SWD well.

2. Boilers

There are no plant boilers.

3. Engine Cooling Water-Gylcol

There is no routine discharge from the engine jacket water system. The engine jacket water contains a corrosion inhibitor.

4. Cooling Tower

There is no cooling tower system. The sump of the original cooling tower is used to collect and hold runoff rain water so as to minimize flooding during rainstorms. The runoff water typically is allowed to evaporate. Runoff water would be expected to contain trace levels of hydrocarbons (hydrocarbons from equipment wash effect). Excess rainwater runoff is pumped to the unlined pit.

5. Sewage

All sanitary sewage is handled separately from the process/plant waste water and is discharged to an approved septic system.

6. Other-Wash Water

The amine treating unit is washed down with a water hose once per month and the runoff water flows to the soil surface. No detergent is used and it is estimated that about 300 gallons of wash water are used (30 min. X 10 gpm). Less than one gallon of amine solution (pump seal drips, samples, etc.), some wind blown dirt and trace quantities of oil are estimated to be washed off the amine equipment.

The compressors are steam cleaned once per 6 months. The cleaner charge is 250 gallons water plus about 20 lbs. of "Red Power" powder detergent. After steam cleaning, the compressors are hosed down over a 2 hour interval. At 10 gpm, about 1,200 gallons of wash water are used. All wash water is collected in a sump below the compressor building and

transfered first to a concrete 28'x6'x8' (deep) skimmer pit for oil separations. After the sump, the water is pumped to a 210 barrel tank to settle the oil and then is pumped to the 1,000 barrel tank. The wash water will contain minute quantities of lube oil residue in addition to the detergent.

The process skid is steam cleaned at 6 month intervals. The same 250 gallons water/20 lb. "Red Power" dry detergent mix is used as per the compressors. There is no hosedown after cleaning but the detergent is cut off and a 30 minute steam only wash is used to finish the job. It is estimated that 125 gallons water condense and this plus about 15 lbs. detergent wash to the soil surface. Trace quantites of lube oil and hydrocarbons are anticipated to be entrained in the water.

The only plant source of water effluent to the soil surface is the wash water from the amine and process skids.

II. B. Quality Characteristics

1. Attached as Exhibit "G" are the process water analyses obtained by the State of New Mexico Oil Conservation Division. These samples are indicative of the water quality within the plant and are identified for individual reference.

Those analyses tagged by a red asterisk are not discharged on the ground. They are routed to the 1,000 barrel water tank for subsequent removal by a commercial 3rd party hauling company. This aqueous waste is ultimately disposed of in a salt water disposal well (SWD well).

2. The toxic pollutants per WQCC Section 3-103 address elements such as Arsenic, Mercury, Selenium, Chrominum, etc., and these pollutants are found only in the process discharge water. This water is collected in the 1,000 barrel storage tank and does not contact the soil surface. Moreover, the concentration of these pollutants are reported as being well below the established toxicity limit for human health standards.

3. Toxic pollutants per WQCC 1-101.UU are present in the process discharge. These are primarily benzene and benzene derivatives. There are no halomethanes reported in the process discharge water, but trace levels of halomethanes are reported in the produced well water. This stream is external to the plant; moreover, the source of the halomethanes is unknown as the plant has never used a halomethane refrigerant. The plant refrigerant system is based on propane.

4. No insecticides, PCB's or radioactive pollutants were reported.

5. No detectable toxic pollutants were reported for the cooling tower basin water. The basin acts mainly as a sump for runoff rainwater. The only source of pollutants would be the rainwater "wash" of the process equipment. An oily sheen was noted for the cooling tower basin water, but again, no detectable level of pollutants were reported.

6. The waste water flowrate varies mainly with respect to the inlet gas volume, temperature and pressure. Most of the process waste water is water of saturation although, a small amount enters irregularly as an incoming "slug".

The gas rate is slightly higher in winter months due to demand, but the water content is low. The slightly lower gas rates of the summer months contain the highest quantities of process waste water because of the warm gas temperature. Likewise, more water is condensed in the daylight hours than during the cooler night. Due to the hold time in the system there is no sudden change on a daily basis. The seasonal change is gradual. Thus, except for equipment or well problems there is no sudden fluctuation in the discharge water rate.

II. C. Transfer Storage of Fluids

The Denton Plant flow schematic is attached as Exhibit "A". This drawing contains all relevant details regarding the lines, draws, pots, etc. Exhibit "B" depicts the physical layout.

II. D. Spill/Leak Preventions & Housekeeping

1. a. There is no written contingency plan to address containment and cleanup of a major spill, but the following actions have been understood. If the 1,000 barrel water tank ruptured when full and all contents were lost, the net result would be a "one-time" discharge of non-toxic aqueous fluid. Should any of the process vessels rupture, the net effect would be nil to minimal with respect to the water table.

The light hydrocarbon product storage tank may contain up to 30,000 gallons of high pressure product, but more normally, contains 15,000 to 20,000 gallons maximum. If this tank ruptured the vast majority of the liquids would vaporize. A fire hazard is the prime concern should this tank rupture.

Should this vessel in fact rupture and spill the contents to the soil surface, any badly saturated zone would be dug out and stored for the interim on a plastic tarp. The ultimate disposal would be decided after review of the situation.

DKJ/rs/32.4

b. If either of the 9,000 gallon condensate/water tanks rupture, any hydrocarbon saturated zone would be dug out, aerated and disposed of in similar fashion to (a.).

c. If the 1,000 barrel condensate tank developed a leak and the leak was contained prior to drainage of the hydrocarbon layer it is assumed that no remedial action would be taken. If the leak caused the entire tank to drain, thus releasing hydrocarbon condensate, the hydrocarbon saturated soil would be handled as described in (a.).

d. If the 1,000 barrel disposal tank ruptured no remedial action would be taken. This tank contains basically produced water and a single discharge would not likely be serious. The unlined pond would be used until the leak were repaired or the tank replaced. It is estimated that repair or replacement would require no more than 5 to 10 days.

2. The rainwater runoff that is collected in the cooling tower basin is partially evaporated, then pumped to the unlined pit. This same practice is anticipated for future operations-rainwater is rainwater and all the CT basin does is prevent flooding of the plant yard and highway 82.

3. All underground piping is no more than 6 to 12 inches below grade. It is buried mainly to facilitate vehicle and personnel traffic, and is in regularly travelled areas. Any leak would be immediately noticed as a seep. If a leak was detected, the line would be dug out and the bad section replaced.

4. Injection Well: A commercial injection well is used. The produced water is hauled by Fannie Lee Mitchell, Inc., Lovington, N.M. and is injected into a SWV well under the operational control of others. The Denton Plant is not involved with the water after acceptance by Fannie Lee Mitchell, Inc.

III. Effluent Disposal

A. Existing Operations:

1. On-site Facilities

a. The produced water is the only continual source of discharge at the Denton Plant. The inlet scrubber normally collects only a minor quality of water from the gathering system and process dehydrator scrubber. The second and third stage compressor section scrubbers likewise collect only a small quantity of condensed water. Each of the preceeding water sources enters the main dump line in sequence and flows

to the 9,000 gallon separation tank. The third stage discharge scrubber collects the largest quantity of water. This source has a separate line to the 9,000 gallon tank.

The lines are all above grade.

The compressor room wash water, and any process fluid or jacket water spilled when equipment is opened, drains to the sump below the engine room.

The wash water from the other process unit drains to the soil surface.

The waste engine and compressor oils are collected in drums. This is done on the floor over the engine room pit, hence any drips would go to the skinner pit and tanks. No waste oil would go to the soil surface.

Engine jacket water leaks would likewise go to the engine room pit and not contact the soil surface.

Minor amine leaks and drips resulting from filter change-outs may eventually wash to the soil surface if not wiped up following the change out.

1. The only surface impoundment area was the unlined waste water evaporation pit. This was shut down approximately November 1, 1988 and replaced by the 1,000 barrel tank.

2. There is no leach field other than an approved septic tank system.

3. There are no injection wells on site.

4. There are no drying beds or flare pits.

5. There are no other on-site disposal areas.

(b) 1. Due to the combination of containment of the process water and very low quantity of other liquids entering the soil surface, no preventative measures are scheduled other than good housekeeping.

2. There are numerous sample points available in the system via conventional valves. There is no direct measurement. A reasonably accurate measurement can be caculated via timing the rise of liquid level in the various scrubbers. When the vessels are blocked in an overall estimation can be obtained from the temperature/pressure of the inlet gas and various scrubbers; only the inlet entrained water is unmeasurable via this method.

3. No monitoring systems exists. Again, the discharge volume is contained and any fluid discharge to the soil surface will be minimized.

III. A. 2. Off-site Disposal

The discharge water is hauled off in trucks by Fannie Lee Mitchell, Inc. for disposal in a SWD well. The receiving facility is unknown.

III. B. Proposed Modifications

1. N/A

2. No action is proposed for the existing pits. They will not be used in the future except for occasional transfer of the rainwater runoff from the cooling tower basin.

IV Site Characteristics:

A. Hydrologic features

1. a. There are no water courses or active bodies of water within one mile of the outside plant perimeter.

b. There are two wells within a one mile radius of the outside plant perimeter plus two wells within the plant boundaries. Thus, four water wells are within the stipulated area.

c. Exhibit "C" depicts the area within one mile of the plant. This Exhibit "C" was extracted from the USGS topographical map of the area and indicates the two external wells.

d. The geographical location, ownership and end use of the water for each well is tabulated on Exhibit "C".

2. a. The depth to the ground water table is approximately 40 feet to the top sand and 105 feet to the main sand. The water table is the "To" aquifer of the Ogallala. This information is a composite of the plant well report L-610-AS plus the USGA Hydrologic Investigation Atlases HA-330 and HA-62.

b. The TDS ranges 610 to 1600 mgl

c. Exhibit "D" contains recent well water analyses.

3. The groundwater flow is to the ESE. The groundwater flow direction is at a right angle to the base groundwater gradient. This gradient was obtained from the contours on the USGS Hydrologic Investigation Atlases HA-330 aND HA-62.

1. The soil structure in the area of the plantsite consists of about 1 to 2 feet of topsoil (sandy loan) followed by a layer of caliche that is 15-20 feet thick. Below the

caliche is a water bearing a zone of unconsolidated sedimentary sand cemented somewhat by lime or caliche. An irregular layer of limestone (not impervious) caps the main Ogallala formation which consists primarily of coarse sand and gravel. At the bottom of the Ogallala is the impervious "red bed" structure.

2. The acquifer is the "To" acquifer of the Ogallala formations.

3. The acquifer represents sections of the Pliocene, Tertiary and Cenozoic Ages. It consists of irregularly-bedded sand, grit and local gravel conglomerate cemented by lime or caliche and local beds of sand, clay and limestone. It may include some redeposited material from the underlying Cretaceous and Triassic ages.

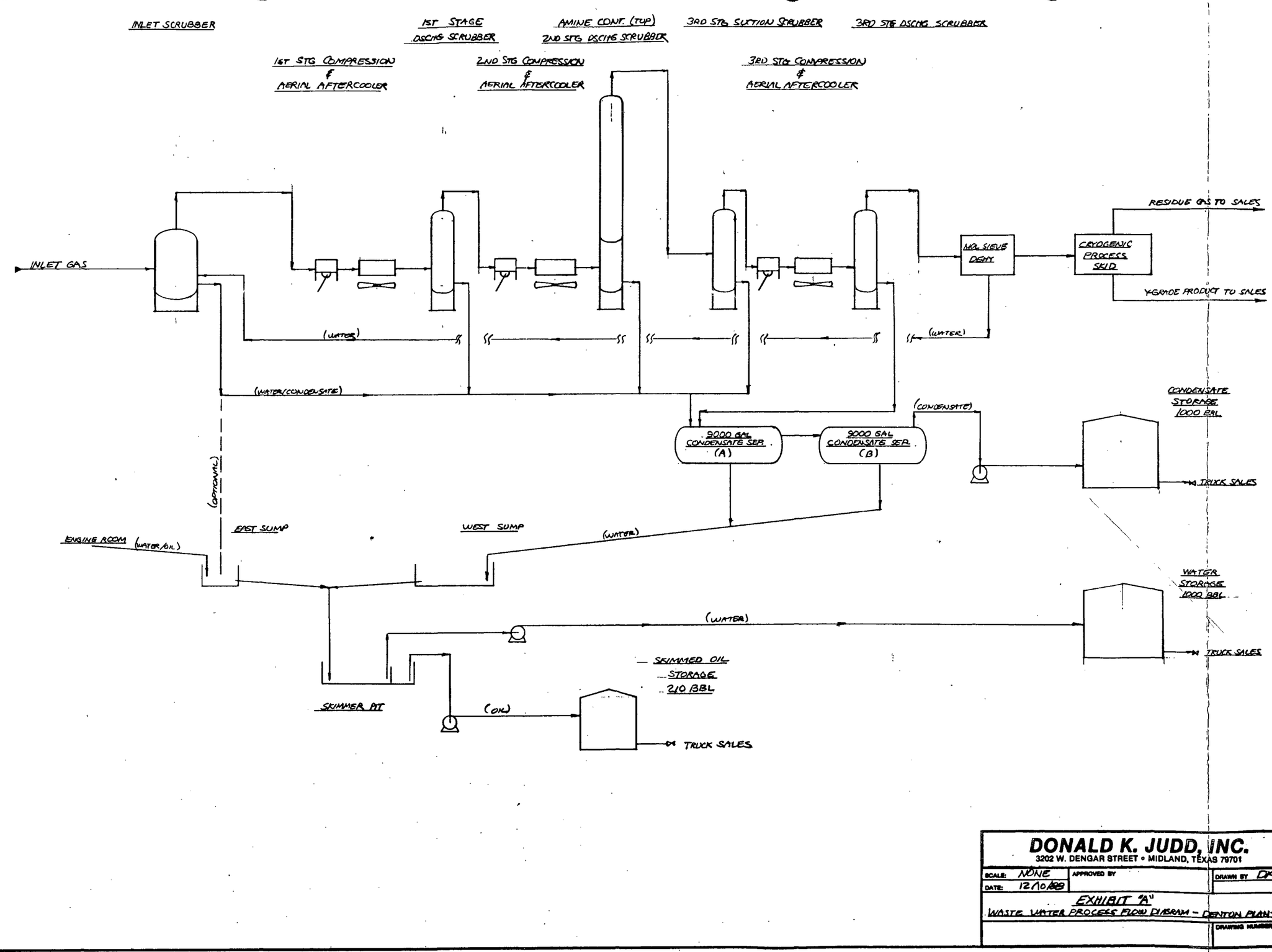
4. The depth to rock at the base of the alluvium is approximately 200 feet for the overall area. This was determined as the difference between the approximate 3800 feet elevation of the soil surface (USGS Topographical Map) and the 3600 feet elevation for the base of the Ogallala (USGS Atlas HA-330).

C. Flood Protection

1. A major rainfall can cause localized flooding which could involve highway 82.

2. The old cooling tower basin will intercept much of the rainwater and prevent flooding of highway 82 in all but the worse storms.

DKJ/rs/32.4



DONALD K. JUDD, INC.
3202 W. DENGAR STREET • MIDLAND, TEXAS 79701

SCALE: NONE	APPROVED BY	DRAWN BY DKJ
DATE: 12/10/89		

EXHIBIT "A"
WASTE WATER PROCESS FLOW DIAGRAM - DENTON PLANT

DRAWING NUMBER

CONDENSATE & WATER SEPARATORS
2 @ 9000 GAL EACH

265
326
213
CONDENSATE PUMP
70

SKIMMER PIT
SKIMMED OIL TANK
AMINE MAKEUP WATER TK
303
36

AMINE REGEN UNIT
213
120

WASTE SUMP
160
180
183
5

AMINE CONTACTOR/2ND DISCHG SCRUBBER
WATER STORAGE 1000 BBL

2ND STG SUCTION SCRUB
3RD STG DISCHG SCRUBBER
3RD STG SUCTION SCRUB
DEHYD COOLERS
AERIAL COOLERS
INLET SCRUBBER
CONDENSATE STG 1000 BBL
ENGINE ROOM SUMP
42
78
28
200
OLD PIT

PROCESS SKID
PRODUCT STORAGE 30,000 GAL
ENGINE ROOM
CHILLER SKID
REFRIG COMP
0 FT
REFERENCE POINT
(ALL COORDINATES ARE IN FEET & BASED ON THIS POINT)
0 FT
35
90
173

87
156
OLD COOLING TOWER
(OUT OF SERVICE)
95'x75' BASIN
OFFICE
150

NOTES
1. SCALE: 1" = 30 FT (APPROX)
2. DASHED LINE = BELOW GRADE
3. SOLID LINE = ABOVE GRADE
4. = LOW PRESSURE SCRUBBER DUMP
5. = HIGH PRESSURE SCRUBBER DUMP (3RD DISCHG)
6. = SEPARATED CONDENSATE

DONALD K. JUDD, INC.
3202 W. DENGAR STREET • MIDLAND, TEXAS 79701

SCALE: 1/20 APPROX	APPROVED BY	DRAWN BY DKJ
DATE: 12/07/82		

EXHIBIT "B"
WASTE WATER SYSTEM LAYOUT - DENTON PLANT

DRAWING NUMBER

IND. 1054-18524

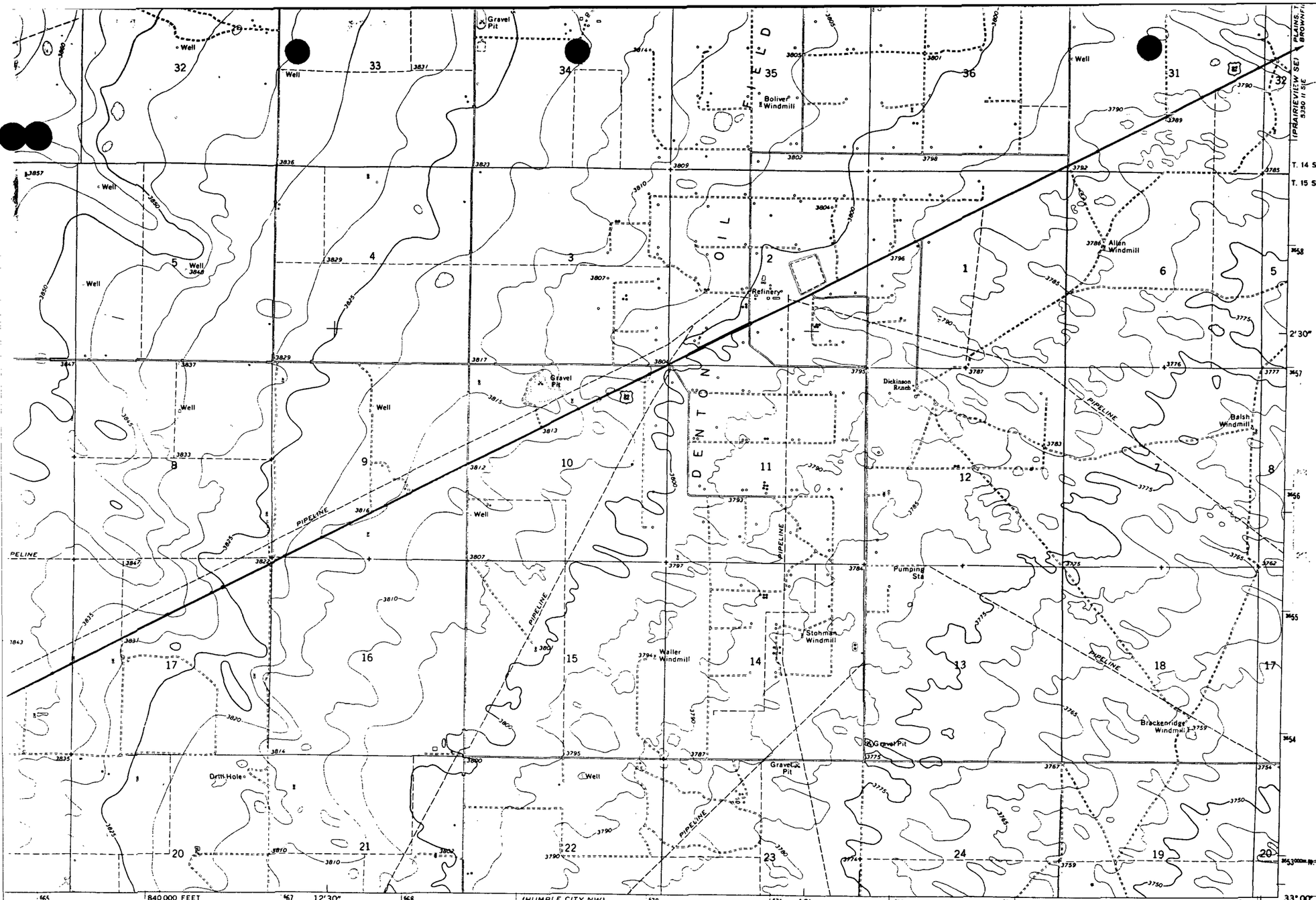


EXHIBIT "C"

USGS Topographic Map

1. No surface water indicated within 1 mile of outside plant boundary.
2. No water course indicated within 1 mile of outside plant boundary.
3. Water wells (USGS complete printout).

Location Owner Use:

Location	Owner	Use
14S37E35.324213	Dickenson Minor Estate	Stock tank use
14S37E36.314	Bht. Pope	Stock tank use
15S37E02.32414	Denton Plant	Plant water

the Geological Survey

s from aerial photographs
[redacted]970
coordinate system,
tor grid ticks,
ence lines

SCALE 1:24000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

ROAD CLASSIFICATION

Primary highway, all weather, hard surface — Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather
U. S. Route

NEW MEXICO
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PRAIRIEVIEW, N. MEX.
N3300—W10307.5/7.5

1970

AMS 5350 II SW—SERIES V881

EXHIBIT "D"

WELL WATER ANALYSES

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DKJ

DATE RECEIVED: 4/19/88	LAB NO. WC-471	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 880414	SITE INFORMATION ►	Sample location: Bates Gas Processing Lovington	
Collection TIME: 1130		Collection site description: East Water well	
Collected by — Person/Agency: Boyd Keay /OCD			

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Phone: 827-5812

Station/well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☒ Tap	Water level: —	Discharge: —	Sample type: GRAB
pH (00400): —	Conductivity (Uncorrected): 1160 µmho	Water Temp. (00010): 18.5 °C	Conductivity at 25°C (00094): µmho

Field comments: Deeper well, turbine pump

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1339	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	7.92		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N + , Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

			Date Analyzed
☒ Calcium	120	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	30.5	mg/l	5/16
☒ Sodium	117	mg/l	5/10
☒ Bicarbonate	238	mg/l	5/24
☒ Chloride	268	mg/l	5/20
☒ Sulfate	121	mg/l	11
☒ Total Solids	884	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	5/27/88	

Laboratory remarks: 250

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

RECEIVED JUL 11 1988

CATIONS			DET.
ANALYTE	MEQ.	PPM	LIMIT
Ca	5.99	120.00	<3.0
Mg	2.51	30.50	<0.3
Na	5.09	117.00	<10.0
K	0.10	4.00	<0.3
Mn	0.00	0.00	
Fe	0.00	0.00	
SUMS	13.68	271.50	

ANIONS			DET.
ANALYTE	MEQ.	PPM	LIMIT
HC03	3.90	238.00	<1.0
SO4	2.52	121.00	<10.0
CL	7.56	268.00	<5.0
NO3	0.00	0.00	< 0.
C03	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.
	13.98	627.00	

Total Dissolved Solids= 884

Ion Balance = 97.88%

WC No. = ~~1271~~

Date out/By _____

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 4/19/93 | LAB NO.: WR-4270 | USER CODE: ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE: 03/04/14 | Collection TIME: 1125 | SITE INFORMATION ▶

Collected by — Person/Agency: Boyer/Seay/OCD

Sample location: Davis Gas Processing Lovington

Collection site description: West water well (shallower-sub-mersible pump)

SEND FINAL REPORT TO ▶
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

Attn: David Boyer

Phone: 827-5812

Station/well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☒ Tap	Water level: —	Discharge: —	Sample type: Grab
pH (00400): —	Conductivity (Uncorrected): 1920 µmho	Water Temp. (00010): 20 °C	Conductivity at 25°C (00094): µmho

Field comments:

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	2127	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	7.89		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NE, NA Sample:			Date Analyzed
☒ Calcium	204	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	36.6	mg/l	5/16
☒ Sodium	180	mg/l	5/10
☒ Bicarbonate	224	mg/l	5/24
☒ Chloride	660	mg/l	5/20
☒ Sulfate	114	mg/l	"
☒ Total Solids	1610	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst: | Date Reported: 5/27/93 | Reviewed by:

Laboratory remarks: 557

FOR OCD USE -- Date Owner Notified_____ Phone or Letter?_____ Initals_____

CATIONS			DET.
ANALYTE	MEQ.	PPM	LIMIT
Ca	10.18	204.00	<3.0
Mg	3.01	36.60	<0.3
Na	8.18	188.00	<10.0
K	0.10	4.00	<0.3
Mn	0.00	0.00	
Fe	0.00	0.00	
SUMS	21.47	432.60	

Total Dissolved Solids= 1610
Ion Balance = 87.03%

ANIONS			DET.
ANALYTE	MEQ.	PPM	LIMIT
HC03	3.67	224.00	<1.0
SO4	2.38	114.00	<10.0
CL	18.62	660.00	<5.0
NO3	0.00	0.00	< 0.
C03	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.
	24.66	998.00	

WC No. = 8801270
Date out/By _____

754
WPU

88-0489-C

CIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 327-5812
SUBMITTER: David Boyer

S.L.D. No. OR- 489 A&B
DATE REC. 4-19-88
PRIORITY 3
USER CODE: 8 2 2 3 5
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 1 2 0 2 W B

SAMPLE TYPE: WATER [X] SOIL [ ], FOOD [ ], OTHER: _____ CODE: [ ]

COUNTY: Lea ; CITY: Lovington CODE: [ ]

LOCATION CODE: (Township-Range-Section-Tracts) 1 1 5 S 3 7 E 0 2 3 2 1 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= — ; Conductivity= 1180 umho/cm at 18.5 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____-_____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing — East water well (deep, turbine pump)

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): DW Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ___ Glass Jugs, and/or ___ _____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ___/___/___ - ___:___ and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter? _____ Initials _____

754
WPW

88-0[illegible]1-C

IFIC LABORATORY DIVISION

700 Camino de Salud NE
[illegible]uquerque, NM 87106 841-2570

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

PHONE(S): 827-5812

SUBMITTER: David Boyer

S.L.D. No. OR- 491 A+B

DATE REC. 4-19-88

PRIORITY 3

USER CODE: 82235

CODE: 260

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 880414/1125AB

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER:_____ CODE:

~~COUNTY~~ City: Farmington ; ~~CITY~~ County: San Juan CODE:

LOCATION CODE: (Township-Range-Section-Tracts) 315+37E+02+3212 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= — ; Conductivity= 1920 umho/cm at 20 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval ____-____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. pdors, etc.)

Davis Gas Processing - West Water well
(Shallower, submersible pump)

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. W. Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

For OCD Use: Date Owner Notified _____ Phone or Letter? _____ Initials _____

EXHIBIT "E"

PROCESS WATER ANALYSES

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 4/15/88 | LAB NO. WW-1267 | USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE: 88/04/14 | Collection TIME: 11.5

SITE INFORMATION ▶

Sample location: Davis Gas Processing - Laguna

Collection site description: Discharge pipe from East pit to field

Collected by — Person/Agency: Boyer / Seay / OCD

SEND FINAL REPORT TO ▶

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

Attn: David Boyer

Phone: 827-5812

Station/well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level: —	Discharge: —	Sample type: Grab
pH (00400): —	Conductivity (Uncorrected): 860 µmho	Water Temp. (00010): 19 °C	Conductivity at 25°C (00094): µmho

Field comments: oil on pit surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1020	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	7.49		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N + Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NE, NA Sample:			Date Analyzed
☒ Calcium	90	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	19.5	mg/l	5/16
☒ Sodium	91	mg/l	5/10
☒ Bicarbonate	174	mg/l	5/24
☒ Chloride	209	mg/l	5/18
☒ Sulfate	71.2	mg/l	5/18
☒ Total Solids	722	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported: 5/25/88 | Reviewed by: CO

Laboratory remarks: 207

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	4.49	90.00	<3.0
Mg	1.60	19.50	<0.3
Na	3.96	91.00	<10.0
K	0.10	4.00	<0.3
NH4	0.00	0.00	
Fe	0.00	0.00	
SUM	10.15	204.50	

Total Dissolved Solids= 722
Ion Balance = 99.24%

ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT
HCO3	2.85	174.00	<1.0
SO4	1.48	71.20	<10.0
CL	5.90	209.00	<5.0
NO3	0.00	0.00	< 0.
CO3	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0
	10.23	454.20	

WC No. = 8801269
Date out/By 5/27

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No.	ICP 171	User Code	☒ 82235 ☐ Other:

COLLECTION DATE & TIME: yy | mm | dd | hh | mm

COLLECTION SITE DESCRIPTION: Davis Gas Processing Discharge pipe from East Pit to field

COLLECTED BY:

TO:

OWNER:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088
ATTN: David Boyer
TELEPHONE: 827-5812

SITE LOCATION:
County:

Township, Range, Section, Tract: (10N06E24342) 15S+37E+02+41

STATION/ WELL CODE:

LATITUDE, LONGITUDE:

SAMPLING CONDITIONS:

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap	Water Level: —	Discharge: —	Sample Type: Grab
pH(00400): —	Conductivity(Uncorr.): 860 µmho	Water Temp.(00010): 19 °C	Conductivity at 25°C (00094): µmho

FIELD COMMENTS: oil on pit surface

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
☒ WPN: Water Preserved w/HNO_3 Non-Filtered	☐ WPF: Water Preserved w/HNO_3 Filtered	☒ ICAP Scan Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	<0.1		Silicon	14.	
Barium	<0.1		Silver	<0.1	☐
Beryllium	<0.1		Strontium	0.7	
Boron	0.2		Tin	<0.1	
Cadmium	<0.1	☐	Vanadium	<0.1	
Calcium	78.		Zinc	<0.1	
Chromium	<0.1	☒ 0.015	Arsenic		☒ <0.005
Cobalt	<0.05		Selenium		☒ <0.005
Copper	<0.1		Mercury		☒ <0.0005
Iron	0.2				☐
Lead	<0.1	☒ <0.01			☐
Magnesium	16.				☐
Manganese	0.14				☐
Molybdenum	<0.1				☐
Nickel	<0.1				☐

LAB COMMENTS: OIGEST 5/1/88

For OCD Use: Date Owner Notified:	ICAP Analyst JB	Reviewer [signature]
Phone or Letter?		
Initials:	Date Analyzed 5/3/88	Date Reviewed 6/1/88

88-0488-B SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 3 1:77 A
DATE REC. 4-2-77
PRIORITY 3

PHONE(S): 327-5812 USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer CODE: 2 6 0
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 880414111152AB
SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: ____ CODE: ____
COUNTY: Lea; CITY: Lovington CODE: ____
LOCATION CODE: (Township-Range-Section-Tracts) 15S+37E+02+411 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes
- Other Specific Compounds or Classes
- ☐ ____
- ☐ ____
- ☐ ____
- ☐ ____
- ☐ ____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: ____

FIELD DATA:

pH= ____; Conductivity= 860 umho/cm at 19 °C; Chlorine Residual= ____ mg/l
Dissolved Oxygen= ____ mg/l; Alkalinity= ____ mg/l; Flow Rate ____ ____/____
Depth to water ____ ft.; Depth of well ____ ft.; Perforation Interval ____-____ ft.; Casing: ____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Davis Gas Processing - Discharge ~~pi~~ pipe from east pit to field, oil on pit surface

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D G Boyer Method of Shipment to the Lab: State Car
This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____
Samples were preserved as follows:
- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 3 1988
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from ____ to ____
at (location) ____ on ____/____/____ - ____ and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐
Signatures ____ ____

For OCD Use: Date Owner Notified ____ Phone or Letter? ____ Initials ____

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 4/29/86	LAB NO. WC-1267	USER CODE ☐ 59300 ☐ 59600	☒ OTHER: 82235

Collection DATE: 86/04/14
Collection TIME: 1030
Collected by — Person/Agency: Boyer / Leary /OCD

SITE INFORMATION ▶
Sample location: Doris Gas Processing Lovington
Collection site description: Hose discharge from plant oil/water separator to field

SEND FINAL REPORT TO ▶

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

Attn: David Boyer

Phone: 827-5812

Station/well code:
Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level —	Discharge —	Sample type GRAB
pH (00400) —	Conductivity (Uncorrected) 2675 µmho	Water Temp. (00010) 27 °C	Conductivity at 25°C (00094) µmho

Field comments: oily sheen, dark color

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1
☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added
☒ NA: No acid added ☐ Other-specify: ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA

		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	2641	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH-lab	7.24		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4

		Units	Date analyzed
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

			Date Analyzed
☒ Calcium	152	mg/l	5/16
☒ Potassium	12	mg/l	5/10
☒ Magnesium	135.4	mg/l	5/16
☒ Sodium	216	mg/l	5/10
☒ Bicarbonate	504	mg/l	5/24
☒ Chloride	590	mg/l	5/17
☒ Sulfate	112	mg/l	5/17
☒ Total Solids	1916	mg/l	5/17
☐			
☐			

☒ Cation/Anion Balance

Analyst	Date Reported	Reviewed by
	5/26/86	[signature]

Laboratory remarks: 633

FOR OCD USE -- Date Owner Notified__________ Phone or Letter?________ Initals________

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No.	ICP-123	User Code	☒ 82235 ☐ Other:

COLLECTION DATE & TIME: yy 88 mm 04 dd 14 hh 10 mm 50

COLLECTED BY: Boyd / Seay OCD

COLLECTION SITE DESCRIPTION: Davis Gas Processing Hose discharge from plant separator to field

TO:

OWNER:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: David Boyd
TELEPHONE: 827-5812

SITE LOCATION:
County:

Township, Range, Section, Tract: (10N06E24342)
1 1 5 5+3 1 7 E+0 0+4 1 1 1

STATION/ WELL CODE:

LATITUDE, LONGITUDE: -

SAMPLING CONDITIONS:

☐ Bailed ☒ Dipped	☐ Pump ☐ Tap	Water Level:	Discharge:	Sample Type: Grab

pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
—	2675 µmho	27 °C	µmho

FIELD COMMENTS: oily sheen, dark color

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
☒ WPN: Water Preserved w/HNO_3 Non-Filtered	☐ WPF: Water Preserved w/HNO_3 Filtered	☒ ICAP Scan Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	0.1		Silicon	12.	
Barium	0.1		Silver	<0.1 ☐	
Beryllium	<0.1		Strontium	1.4	
Boron	0.3		Tin	<0.1	
Cadmium	<0.1 ☐		Vanadium	<0.1	
Calcium	150.		Zinc	0.1	
Chromium	<0.1	☒ 0.012	Arsenic		☒ 0.007
Cobalt	<0.1		Selenium		☒ <0.005
Copper	<0.1		Mercury		☒ <0.0005
Iron	1.8				☐
Lead	<0.1	☒ <0.01			☐
Magnesium	36.				☐
Manganese	<0.05				☐
Molybdenum	<0.1				☐
Nickel	<0.1				☐

LAB COMMENTS: DIGEST

For OCD Use:
Date Owner Notified:
Phone or Letter?
Initials:

ICAP Analyst QB Reviewer Jim Bobby
Date Analyzed 5/3/88 Date Reveived 6/14/88

754
wpn

88-049 NTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

STATE OF NEW MEXICO ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812
SUBMITTER: David Boyer

S.L.D. No. OR- 493 NAB
DATE REC. 4-19-88
PRIORITY 3
USER CODE: 8 2 2 3 5
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 0 5 0 B W 3

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____ CODE: _____

COUNTY: Lea ; CITY: Lovington CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 4 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= _____; Conductivity= 2625 umho/cm at 27 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____ - _____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - Hose discharge from plant oil/water separator to field - oily sheen, dark color

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. E. Boyer Method of Shipment to the Lab: Driver

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 3 1988
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____ and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

For OCD Use: Date Owner Notified _____ Phone or Letter? _____ Initials _____

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED:
LAB NO.:
USER CODE: ☐ 59300 ☐ 59600 ☒ OTHER: 82235

Collection DATE: 88/04/14
Collection TIME: 1030
Collected by — Person/Agency: Boyer/Sealy /OCD

SITE INFORMATION
Sample location: Davis Gas Processing-Lovington
Collection site description: Cooling Tower drain hose to earthen pit.

SEND FINAL REPORT TO
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088
Attn: David Boyer
Phone: 827-5812

Station/well code:
Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level ✓	Discharge —	Sample type GRAB
pH (00400) —	Conductivity (Uncorrected) 750 µmho	Water Temp. (00010) 14 °C	Conductivity at 25°C (00094) µmho

Field comments: Oil on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1
☒ NF: Whole sample (Non-filtered)
☐ F: Filtered in field with 0.45 µmembrane filter
☐ A: 2 ml H_2SO_4/L added
☒ NA: No acid added
☐ Other-specify:
☐ A: 5ml conc. HNO_3 added
☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1030	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH-Lab	7.4		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4		Units	Date analyzed
☐ Nitrate-N + Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

		Units	Date Analyzed
☒ Calcium	78	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	23.2	mg/l	5/16
☒ Sodium	97.5	mg/l	5/10
☒ Bicarbonate	135	mg/l	5/24
☒ Chloride	252	mg/l	5/17
☒ Sulfate	105	mg/l	5/17
☒ Total Solids	690	mg/l	5/17
☐			
☐			
☒ Cation/Anion Balance			

Analyst:
Date Reported: 5/26/88
Reviewed by: [signature]

Laboratory remarks: 196

FOR OCD USE -- Date Owner Notified ________ Phone or Letter? ________ Initals ________

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud[illegible]
Albuquerque, NM 87[illegible]

HEAV[illegible] METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No.	ICP-132	User Code	☒ 82235 ☐ Other:

COLLECTION DATE & TIME: yy 88 mm 04 dd 19 hh 10 mm 30

COLLECTION SITE DESCRIPTION: Davis Gas Processing Lovington Cooling Tower Drain Hose East pit

COLLECTED BY: Boyer/Sealy OCD

OWNER:

TO:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: David Boyer
TELEPHONE: 827-5812

SITE LOCATION:
County: Lea

Township, Range, Section, Tract: (10N06E24342) 15S+37E+02+4111

STATION/ WELL CODE:

LATITUDE, LONGITUDE:

SAMPLING CONDITIONS:

☐ Bailed ☒ Dipped	☐ Pump ☐ Tap	Water Level: —	Discharge: —	Sample Type: GRAB

pH(00400)	Conductivity (Uncorr.)	Water Temp. (00010)	Conductivity at 25°C (00094)
—	750 µmho	14 °C	µmho

FIELD COMMENTS: Oil on surface

SAMPLE FIELD TREATMENT
Check proper boxes:

☒ WPN: Water Preserved w/HNO_3 Non-Filtered

☐ WPF: Water Preserved w/HNO_3 Filtered

LAB ANALYSIS REQUESTED:

☒ ICAP Scan
Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	<0.1		Silicon	15.	
Barium	<0.1		Silver	<0.1	☐
Beryllium	<0.1		Strontium	0.8	
Boron	0.2		Tin	<0.1	
Cadmium	<0.1	☐	Vanadium	<0.1	
Calcium	25		Zinc	<0.1	
Chromium	<0.1	☒ 0.013	Arsenic		☐
Cobalt	<0.05		Selenium		☐
Copper	<0.1		Mercury		☐
Iron	0.4				☐
Lead	<0.1	☒ <0.01			☐
Magnesium	18.				☐
Manganese	0.05				☐
Molybdenum	<0.1				☐
Nickel	<0.1				☐

LAB COMMENTS: DIGEST 5/11/88

For OCD Use:
Date Owner Notified:
Phone or Letter?
Initials:

ICAP Analyst JB
Date Analyzed 5/3/88

Reviewer [signature]
Date Reviewed 6/14/88

754 WPV

88-0490-C

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812
SUBMITTER: David Boyer

S.L.D. No. OR- 490 A+B
DATE REC. 4-19-88
PRIORITY 3
USER CODE: 8 2 2 3 5
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 0 3 0 A & B

SAMPLE TYPE: WATER ☒ SOIL ☐, FOOD ☐, OTHER:_____ CODE: ____

COUNTY: Lea ; CITY: Lovington CODE: ____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 4 1 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons.
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=____; Conductivity= 750 umho/cm at 14 °C; Chlorine Residual=____mg/l

Dissolved Oxygen=____mg/l; Alkalinity=____mg/l; Flow Rate____ ____/____

Depth to water ____ft.; Depth of well____ft.; Perforation Interval ____-____ft.; Casing:____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - Cooling Tower drain back to east pit
Oil on surface

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D G Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from ____ to ____

at (location) ____ on ____/____/____ - ____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures ____ ____

RECEIVED
APR 19 1988
OIL CONSERVATION DIVISION
SANTA FE

For OCD Use: Date Owner Notified ____ Phone or Letter?____ Initials ____

459
Wilm

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 4/19/88	LAB NO. UX-1265	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 04/14	SITE INFORMATION ►	Sample location: Lovis Gas Processing-Lovington	
Collection TIME 1005		Collection site description: Cooling Jacket Pump	
Collected by — Person/Agency: Boyer/Seay /OCD			

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Phone: 827-5812

Station/well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☐ Pump ☒ Tap	Water level —	Discharge —	Sample type GRAB
pH (00400) —	Conductivity (Uncorrected) 1680 µmho	Water Temp. (00010) 45 °C	Conductivity at 25°C (00094) µmho

Field comments

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1227	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH-lab	8.22		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

			Date Analyzed
☒ Calcium	88	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	24.4	mg/l	5/16
☒ Sodium	118	mg/l	5/10
☒ Bicarbonate	137	mg/l	5/24
☒ Chloride	271	mg/l	5/18
☒ Sulfate	112	mg/l	5/20
☒ Total Solids	809	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	5/27/88	CO

Laboratory remarks
272

FOR OCD USE -- Date Owner Notified _____ Phone or Letter? _____ Initals _____

CATIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	4.39	88.00	<3.0
Mg	2.00	24.40	<0.3
Na	5.13	118.00	<10.0
K	0.10	4.00	<0.3
Mn	0.00	0.00	
Fe	0.00	0.00	
SUMS	11.63	234.40	

Total Dissolved Solids= 809
Ion Balance = 95.15%

ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT
HCO3	2.25	137.00	<1.0
SO4	2.33	112.00	<10.0
CL	7.64	271.00	<5.0
NO3	0.00	0.00	< 0.
CO3	0.00	0.00	< 1.
NH3	0.00	0.00	< 0.
PO4	0.00	0.00	< 0.
	12.22	520.00	

WC No. = 8801268
Date out/By

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received: 4/19/88 | Lab No. ICP 176 | User Code: ☒ 82235 ☐ Other:

COLLECTION DATE & TIME: yy 88 mm 04 dd 14 hh 10 mm 25

COLLECTION SITE DESCRIPTION: Davis Gas Processing Cooling Jacket Pump

COLLECTED BY: Boyer / Selby OCD

OWNER:

TO:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: DAVID BOYER
TELEPHONE: 827-5812

SITE LOCATION:
County: Lea

Township, Range, Section, Tract: (10N06E24342)
15S+37E+02+4111

STATION/ WELL CODE:

LATITUDE, LONGITUDE:

SAMPLING CONDITIONS:

☐ Bailed ☐ Pump ☐ Dipped ☒ Tap	Water Level: —	Discharge: —	Sample Type: GRAB
pH(00400)	Conductivity (Uncorr.) 1680 µmho	Water Temp. (00010) 45 °C	Conductivity at 25°C (00094) µmho

FIELD COMMENTS:

SAMPLE FIELD TREATMENT
Check proper boxes:

☒ WPN: Water Preserved w/HNO_3 Non-Filtered
☐ WPF: Water Preserved w/HNO_3 Filtered

LAB ANALYSIS REQUESTED:

☒ ICAP Scan
Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE
Aluminum	<0.1	
Barium	0.1	
Beryllium	<0.1	
Boron	0.3	
Cadmium	<0.1	☐
Calcium	80.	
Chromium	<0.1	☒ 0.05
Cobalt	<0.05	
Copper	<0.1	
Iron	0.5	
Lead	<0.1	☒ <0.01
Magnesium	22.	
Manganese	<0.05	
Molybdenum	<0.1	
Nickel	<0.1	

at standard

ELEMENT	ICAP VALUE	AA VALUE
Silicon	20.	
Silver	<0.1	☐
Strontium	0.9	
Tin	<0.1	
Vanadium	<0.1	
Zinc	0.1	
Arsenic		☐
Selenium		☐
Mercury		☐

LAB COMMENTS: DIGEST 5/11/88

For OCD Use:
Date Owner Notified:
Phone or Letter?
Initials:

ICAP Analyst JB
Date Analyzed 5/13/88

Reviewer [signature]
Date Reveived 6/14/88

754
wpa

88-0492 [SCI]ENTIFIC LABORATORY D[IV]ISION
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 492 AYL
DATE REC. 11-19-88
PRIORITY 3

PHONE(S): 827-5812
USER CODE: 8 2 2 3 5
SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 0 0 5 [illegible]

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: ________ CODE: ________

COUNTY: Lea ; CITY: Lovington CODE: ________

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 4 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ ________
- ☐ ________
- ☐ ________
- ☐ ________
- ☐ ________

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: ________

FIELD DATA:

pH= — ; Conductivity= 1680 umho/cm at 45 °C; Chlorine Residual= ____ mg/l

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

Depth to water ____ ft.; Depth of well ____ ft.; Perforation Interval ____-____ ft.; Casing: ____

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Davis Gas Processing - Cooling Jacket Pump

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): [signature] Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 3 1989
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from ________ to ________

at (location) ________ on ____/____/____ - ____:____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signature ________ ________

For OCD Use: Date Owner Notified ________ Phone or Letter? ________ Initials ________

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

November 17, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Donald K. Judd, Agent
DAVIS GAS PROCESSING, INC.
211 North Colorado
Midland, Texas 79701-4696

RE: Discharge Plan GW-48
J. L. Davis Gas Plant
Lea County, New Mexico

Dear Mr. Judd:

The Oil Conservation Division (OCD) has received your request, dated November 4, 1988, for an extension for the submission of a discharge plan for the above referenced facility. The notification requiring the filing of a discharge plan was dated April 18, 1988, and an extension, to November 8, 1988, for submission of the plan was granted on July 19, 1988.

Pursuant to Water Quality Control Commission (WQCC) Regulation 3-106.A. and for good cause shown, David Gas Processing Inc. is hereby granted an extension to December 8, 1988 for the submission of a discharge plan for your Denton Gas Plant. This extension is granted to allow for completion of the discharge plan following a modification of the waste stream and disposal system at the plant.

Pursuant to WQCC Regulation 1-106.A. and for good cause shown, you are further granted an extension to April 7, 1989 to discharge without an approved discharge plan. This extension is granted to allow for receipt and review of the required discharge plan.

If you have any questions or comments, please feel free to contact David Boyer at (505) 827-5812 or Roger Anderson at (505) 827-5884.

Sincerely,

William J. LeMay
Director

WJL:sl

cc: OCD - Hobbs Office
E. E. Zernial, Davis, Denton

DAVIS GAS PROCESSING

DAVIS GAS PROCESSING, INC.
211 North Colorado
MIDLAND, TEXAS 79701-4696

Area Code 915
682-6311
FAX: (915) 682-4024

November 4, 1988

Oil Conservation Division
State Land Office Building
Room 206
310 Old Sante Fe Trail
Santa Fe, New Mexico 87503

Attention: Mr. William LeMay, Director

RE: Discharge Plan GW-48
J. L. Davis Gas Plant
Lea County, New Mexico

Dear Mr. LeMay:

Pursuant to my telephone conversation of November 4, 1988 to your Mr. David Blair, the referenced facility has ceased discharging waste water to the soil surface. All process draws are now routed to a 1,000 barrel above grade metal storage tank. From this tank, the waste liquids are trucked to a disposal well.

Due to the change in direction of this project, the discharge plan, due November 8, 1988 is only about 70% complete. Mr. Blair advised that a 30 day extension could be granted and that this in turn would extend the discharge-without-plan date the same 30 days, i.e. from March 8, 1988 to April 7, 1989.

The extension is appreciated.

Mr. Blair also asked if the cooling tower basin were connected into the waste water collection system. It is not at the present. This basin collects only rain water run-off. I understand the intent is to let as much water as possible evaporate and to pump only the surplus to the 1,000 barrel tank for disposal. This will be addressed in the discharge plan.

If there are any questions I can be reached at the letterhead address or at 915-682-6311 after 9 a.m.

Thank you very much.

Donald K. Judd
Agent

DKJ/rs
cc: J. L. Davis
E.E. Zernial
Bill Phillips

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

July 19, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. J. L. Davis
DAVIS GAS PROCESSING, INC.
211 North Colorado
Midland, Texas 79701

RE: Discharge Plan GW-48
J. L. Davis Gas Plant
Lea County, New Mexico

Dear Mr. Davis:

The Oil Conservation Division (OCD) has received your request, dated July 8, 1988, for an extension for the submission of a discharge plan for the above referenced facility. The notification requiring the filing of a discharge plan was dated April 18, 1988.

Pursuant to Water Quality Control Commission (WQCC) Regulation 3-106.A. and for good cause shown, Davis Gas Processing Inc. is hereby granted an extension to November 8, 1988 for the submission of a discharge plan for your Denton Gas Plant. This extension is granted to allow for independent sampling of your waste streams and verification of OCD's test results.

Pursuant to WQCC Regulation 3-106.A. and for good cause shown, you are further granted an extension to March 8, 1989 to discharge without an approved discharge plan. This extension is granted to allow for receipt and review of the required discharge plan.

If you have any questions or comments, please feel free to contact David Boyer at (505) 827-5812 or Roger Anderson at (505) 827-5885.

Sincerely,

William J. LeMay
Director

cc: OCD-Hobbs
E. E. Zernial, Davis, Denton

DAVIS GAS PROCESSING, INC.
211 North Colorado
MIDLAND, TEXAS 79701

Area Code 915
682-6311

July 8, 1988

To: Don Judd

Director, Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Discharge Plan GW-48
J. L. Davis Gas Plant
Lea County, New Mexico

Gentlemen:

Pursuant to Mr. Don Judd's telephone call of July 7, 1988 to your Mr. Roger Anderson, Davis Gas Processing would like to request a 90 day extension of the filing deadline for the referenced plan.

Although work on the plan has been in progress, we have been awaiting the State of New Mexico's test sample results prior to finalizing the plan. The metallic ion analysis has not yet been received although we understand it is in the mail.

However, we did receive the hydrocarbon analysis on June 18, 1988 and are concerned about the relatively high levels of benzene reported.

Mr. Judd questioned Mr. Anderson about the accuracy of the test results. We feel that these samples need verification.

Because of the sample verification plus a conflict of work loads (Mr. Judd is an outside consultant) it does not now appear feasible to meet the August 18, 1988 filing deadline.

Therefore, we are requesting the 90 day extension.

Thank you very much,

J. L. Davis

JLD/sdw

cc: E. E. Zernial
Bill Phillips
Don Judd

#33.3

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

April 18, 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Bud Zernial
Davis Gas Processing
Rt. 2, Box 150
Lovington, New Mexico 88260

RE: Discharge Plan GW-48
J. L. Davis Gas Plant
Lea County, New Mexico

Dear Mr. Zernial:

Under the provisions of the Water Quality Control Commission (WQCC) Regulations, you are hereby notified that the filing of a discharge plan for your existing Denton Gas Plant located in Section 2 Township 15 South, Range 37 East, NMPM, Lea County, New Mexico, is required.

This notification of discharge plan requirement is pursuant to Sections 3-104 and 3-106 of the WQCC Regulations. The discharge plan, as defined in Section 1-101.P. of the WQCC Regulations, should cover all discharges of effluent or leachate at the plant site or adjacent to the plant site. Included in the application should be plans for controlling spills and accidental discharges at the facility (including detection of leaks in buried underground tanks and/or piping), and closure plans for any ponds whose use will be discontinued.

A copy of the regulations and an OCD guide to the preparation of discharge plans for gas processing plants was provided during the visit on April 14 of Mr. David Boyer of my staff. Three copies of your discharge plan should be submitted for review purposes.

Section 3-106-A. of the regulations requires a submittal of the discharge plan within 120 days of receipt of this notice unless an extension of this time period is sought and approved for good cause. Section 3-106.A. also allows the discharge to continue without an approved discharge plan until 240 days after written notification by the Director of the OCD that a discharge plan is required. An extension of this time may be sought and approved for good cause.

If there are any questions on this matter, please feel free to call David Boyer at 827-5812 or Roger Anderson at 827-5885 as they have the assigned responsibility for review of all discharge plans.

Sincerely,

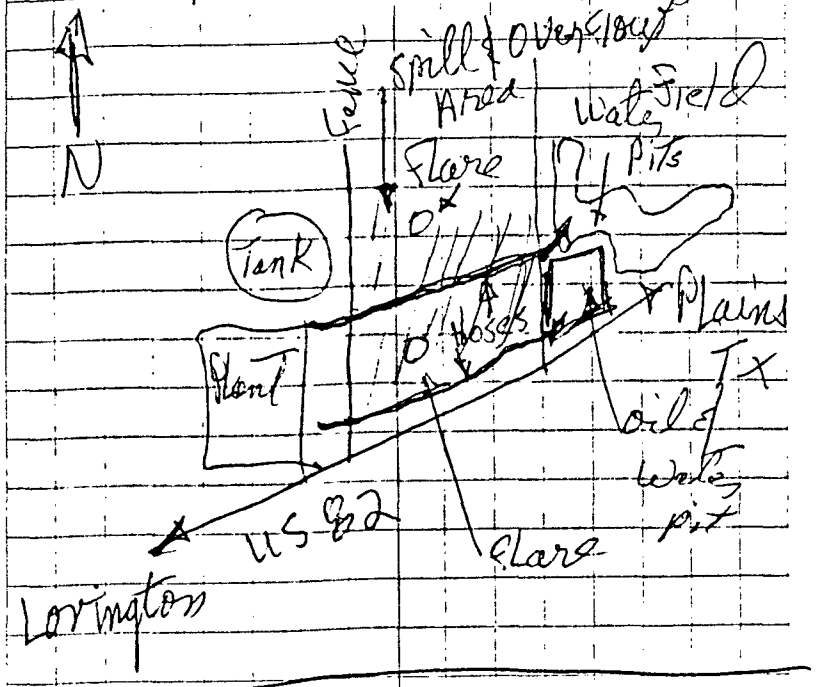
William J. LeMay
Director

WJL:RA:sl

cc: OCD - Hobbs
Davis Gas Processing - Midland

Field Notes of
Boyer, 4/14/88
DYB
(Others OCD Staff -
Eddie Seay, Hobbs)

DAVIS Gas Plant (formerly Tipperary)
NW SE 2-15-37
DAVIS Gas Processing



For Tank batteries - Need bermed area for large water/oil tanks - over 300 bbls?
- All Tanks?
- Only near Freshwater wells or Freshwaters?

MR. Bud Zerniel
RT 1, Box 150 Lovington
88260

Plant Manager 396-5385

Built in Mid '54 by ARCO
Sold Tipperary 1970
Built 73-78 Ammonia Plant
Feb 86 - Dairs Gas Processing
211 N. Colorado
Midland Tx 79701
50-50% with Tipperary
Dairs Runs plant
(Ammonia shutdown)

6 MCF/day - Air
Cooled. Water in
engines, gas
water
No chrome is used.
Soften water.
Minimum water used.

Ass't - Junior Barr

8804141005
cooling Jacket Pump
C/A, HM, VOA

SP = 1680 µmhos @ 45°C

8804141030
Cooling tower Drain hose
C/A, HM, VOA
(hose drains to East Pit)
SP = 750 @ 14°C
Oil on surface

8804141050
separator drain to field
Dark color, oil sheen

Sp. Cond. 2675 µmhos @ 27°C

8804141115 E. Pit
Oil standing on surface
Sample from Drain Pipe to Field
Sp. cond 860 µmhos @ 19°C
C/A, HM, VOA

DAVIS Gas
E. Water well
8804141120
Sp 1180 @ 18.5°C

c/A, VOA
said to be deeper, turbine pump.

Davis - W. Water well
880414 1125

~~Sp [illegible] 1920 µmhos @~~

Sp. cond 1920 µmhos @ 20°C

Submersible pump
said shallower well

~~pH~~
~~[illegible] µmhos @ [illegible]°C~~

754 wpu

88-0489-C

CI[illegible]TIFIC LABORATORY DIV[illegible]ON
700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 489 A&B
DATE REC. 4-19-88
PRIORITY 3

PHONE(S): 327-5812 USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 880414112028

SAMPLE TYPE: WATER [X] SOIL [ ], FOOD [ ], OTHER: ______ CODE: ______

COUNTY: Lea ; CITY: Lovington CODE: ______

LOCATION CODE: (Township-Range-Section-Tracts) 15S+37E+02+3122 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] ______
- [ ] ______
- [ ] ______
- [ ] ______
- [ ] ______

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: ______

FIELD DATA:

pH= — ; Conductivity= 1180 umho/cm at 18.5 °C; Chlorine Residual= ______ mg/l

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

Depth to water ______ ft.; Depth of well ______ ft.; Perforation Interval ______-______ ft.; Casing: ______

Sampling Location, Methods and Remarks (i.e. odors, etc.)
Davis Gas Processing — East water well (deep, turbine pump)

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): [signature] Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ______ Glass Jugs, and/or ______

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from ______ to ______

at (location) ______ on ___/___/___ - ___:___ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures ______ ______

For OCD Use: Date Owner Notified ______ Phone or (Letter?) ______ Initials ______

ANALYSES PERFORMED

LAB. No.: OR- 489

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	N.D.		
halogenated purgeables			
1,1-Dichloroethane	1.5		
* DETECTION LIMIT * ✳	0.5 ~~12.5~~	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☑ Seal(s) broken by: not sealed date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 4/20/88. Analyst's signature: Mary C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: R. Meyerhein

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

859 WIN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 4/19/88	LAB NO. WC-671	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 88/04/14	SITE INFORM-ATION ►	Sample location Lea's Gas Processing Lovington	
Collection TIME 1120		Collection site description East Water well	
Collected by — Person/Agency Boyd Keay / OCD			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088
Attn: David Boyer
Phone: 827-5812

Station/ well code
Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☒ Tap	Water level —	Discharge —	Sample type GRAB
pH (00400) —	Conductivity (Uncorrected) 1180 µmho	Water Temp. (00010) 18.5 °C	Conductivity at 25°C (00094) µmho

Field comments: Deeper well, turbine pump

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1339	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	7.92		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From WF, NA Sample:			Date Analyzed
☒ Calcium	120	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	30.5	mg/l	5/16
☒ Sodium	117	mg/l	5/10
☒ Bicarbonate	238	mg/l	5/24
☒ Chloride	268	mg/l	5/20
☒ Sulfate	121	mg/l	11
☒ Total Solids	884	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	5/27/88	

Laboratory remarks: 258

FOR OCD USE -- Date Owner Notified — Phone or Letter? ____ Initals ____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	5.99	120.00	<3.0	HC03	3.90	238.00	<1.0
Mg	2.51	30.50	<0.3	SO4	2.52	121.00	<10.0
Na	5.09	117.00	<10.0	CL	7.56	268.00	<5.0
K	0.10	4.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	13.68	271.50			13.98	627.00	

Total Dissolved Solids= 884

Ion Balance = 97.88%

WC No. = ~~1271~~

Date out/By CJ 5/27

754 WPA

88-0492-C

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 492 AYB
DATE REC. 4-19-88
PRIORITY 3

PHONE(S): 327-5812
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 0 0 5 A Y B

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____ CODE: _____

COUNTY: Lea ; CITY: Lovington CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 4 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= — ; Conductivity= 1680 umho/cm at 95 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval _____-_____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - Cooling Jacket Pump

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. J. Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on _____/_____/_____ - _____: _____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

For OCD Use: Date Owner Notified 7/6/88 Phone or Letter? _____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 492

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	N.D.		
aromatic purgeables			
benzene	73		
toluene	35		
p & m-xylene	9		
o-xylene	6		
ethylbenzene	N.D.		
* DETECTION LIMIT * ✱	5 ug/L	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☑ Seal(s) broken by: not sealed date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 4/20/88 Analyst's signature: Mary C. Ellen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: R Meyerhen

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

859 WMN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 4/19/88	LAB NO. WC-1268	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 04/14/88	SITE INFORM-ATION ►	Sample location: Davis Gas Processing-Lovington	
Collection TIME: 1005		Collection site description: Cooling Jacket Pump	
Collected by — Person/Agency: Boyer/Seay /OCD			

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☐ Dipped ☒ Pump ☐ Tap	Water level: —	Discharge: —	Sample type: GRAB
pH (00400): —	Conductivity (Uncorrected): 1680 µmho	Water Temp. (00010): 45 °C	Conductivity at 25°C (00094): µmho

Field comments

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1227	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH-Lab	8.22		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:			Date Analyzed
☒ Calcium	88	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	24.4	mg/l	5/16
☒ Sodium	118	mg/l	5/10
☒ Bicarbonate	137	mg/l	5/24
☒ Chloride	271	mg/l	5/18
☒ Sulfate	112	mg/l	5/20
☒ Total Solids	809	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	5/27/88	CG

Laboratory remarks
272

FOR OCD USE -- Date Owner Notified 7/6/88 Phone or Letter? _____ Initals _____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	4.39	88.00	<3.0	HC03	2.25	137.00	<1.0
Mg	2.00	24.40	<0.3	SO4	2.33	112.00	<10.0
Na	5.13	118.00	<10.0	CL	7.64	271.00	<5.0
K	0.10	4.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	11.63	234.40			12.22	520.00	

Total Dissolved Solids= 809

Ion Balance = 95.15%

WC No. = 8801268

Date out/By 8/27

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No. ICP-120	User Code	☒ 82235	☐ Other:

COLLECTION DATE & TIME: yy 88 | mm 04 | dd 14 | hh 10 | mm 25

COLLECTED BY: Boyer/Seay OCD

COLLECTION SITE DESCRIPTION: Davis Gas Processing Cooling Jacket Pump

TO:

OWNER:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: DAVID Boyer
TELEPHONE: 827-5812

SITE LOCATION:
County: Lea

Township, Range, Section, Tract: (10N06E24342)
1 | 5 | S+3 | 7 | E+0 | 2 | +4 | 1 | 1 | 1

STATION/ WELL CODE:

LATITUDE, LONGITUDE:

SAMPLING CONDITIONS:

☐ Bailed ☐ Pump ☒ Tap ☐ Dipped

Water Level:	Discharge:	Sample Type:
—	—	GRAB

pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
	1680 µmho	45 °C	µmho

FIELD COMMENTS:

SAMPLE FIELD TREATMENT
Check proper boxes:

☒ WPN: Water Preserved w/HNO_3 Non-Filtered

☐ WPF: Water Preserved w/HNO_3 Filtered

LAB ANALYSIS REQUESTED:

☒ ICAP Scan
Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE		AA VALUE
Aluminum	<0.1		
Barium	0.1		
Beryllium	<0.1		
Boron	0.3		
Cadmium	<0.1	☐	
Calcium	80.		
Chromium	<0.1	☒	0.05
Cobalt	<0.05		
Copper	<0.1		
Iron	0.5		
Lead	<0.1	☒	<0.01
Magnesium	22.		
Manganese	<0.05		
Molybdenum	<0.1		
Nickel	<0.1		

ELEMENT	ICAP VALUE		AA VALUE
Silicon	20.		
Silver	<0.1	☐	
Strontium	0.9		
Tin	<0.1		
Vanadium	<0.1		
Zinc	0.1		
Arsenic		☐	
Selenium		☐	
Mercury		☐	
		☐	
		☐	
		☐	
		☐	
		☐	
		☐	

LAB COMMENTS: DIGEST 5/11/88

For OCD Use:
Date ~~Owner Notified~~: 4/19/88
~~Phone or Letter~~?
Initials:

ICAP Analyst JB
Date Analyzed 5/13/88

Reviewer JMA
Date Reveived 6/14/88

754
WPW

88-0488-B

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- @ 488A
DATE REC. 4-19-88
PRIORITY 3

PHONE(S): 827-5812 USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 1 1 5 2 W B

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER: _____ CODE: _____

COUNTY: Lea ; CITY: Lovington CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S 3 7 E 0 2 4 1 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=860 umho/cm at 19 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ _____/_____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - Discharge pipe from east pit to field, oil on pit surface

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): B J Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials (1 broken), _____ Glass Jugs, and/or _____ _____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____ and that the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified 7/6/88 (Phone or Letter?) _____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 488

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	N.D.		
aromatic purgeables			
benzene	492		
toluene	12.5		
p + m - xylene	20		
o - xylene	15		
ethylbenzene	T.R.		
* DETECTION LIMIT *	12.5 ug/L	+ DETECTION LIMIT +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☑ Seal(s) broken by: not sealed date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 4/20/88. Analyst's signature: Mary C. Ellen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: R Meyerhein

859 WIN

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

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 4/19/88	LAB NO.: WC-1269	USER CODE: ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 88/04/14	SITE INFORM-ATION ►	Sample location: Davis Gas Processing - Lovington	
Collection TIME: 1115		Collection site description: Discharge pipe from East pit to field	
Collected by — Person/Agency: Boyer/Seay/OCD			

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Phone: 827-5812

Station/ well code:

Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level: —	Discharge: —	Sample type: Grab
pH (00400): —	Conductivity (Uncorrected): 860 µmho	Water Temp. (00010): 19 °C	Conductivity at 25°C (00094): µmho

Field comments: oil on pit surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1020	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Total Alk pH	7.49		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NE, NA Sample:

			Date Analyzed
☒ Calcium	90	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	19.5	mg/l	5/16
☒ Sodium	91	mg/l	5/10
☒ Bicarbonate	179	mg/l	5/24
☒ Chloride	209	mg/l	5/18
☒ Sulfate	71.2	mg/l	5/18
☒ Total Solids	722	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	5/29/88	

Laboratory remarks: 207

FOR OCD USE -- Date Owner Notified 6/6/88 Phone or Letter? ____ Initals ____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	4.49	90.00	<3.0	HC03	2.85	174.00	<1.0
Mg	1.60	19.50	<0.3	SO4	1.48	71.20	<10.0
Na	3.96	91.00	<10.0	CL	5.90	209.00	<5.0
K	0.10	4.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	10.15	204.50			10.23	454.20	

Total Dissolved Solids= 722
Ion Balance = 99.24%

WC No. = 8801269
Date out/By 5/27

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No. ICP-121	User Code	☒ 82235 ☐ Other:

COLLECTION DATE & TIME: yy mm dd hh mm

COLLECTED BY:

COLLECTION SITE DESCRIPTION: Davis Gas Processing Discharge pipe from East Pit To Field

TO:

OWNER:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: David Boyer
TELEPHONE: 827-5812

SITE LOCATION:
County:

Township, Range, Section, Tract: (10N06E24342)
1 5 5+3 0 E+0 2+4 1 1

STATION/ WELL CODE:

LATITUDE, LONGITUDE: -

SAMPLING CONDITIONS:

☐ Bailed ☒ Dipped	☐ Pump ☐ Tap	Water Level:	Discharge:	Sample Type: Grab

pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
—	860 µmho	19 °C	µmho

FIELD COMMENTS: oil on pit surface

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
☒ **WPN:** Water Preserved w/HNO_3 Non-Filtered	☐ **WPF:** Water Preserved w/HNO_3 Filtered	☒ **ICAP Scan** Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE		AA VALUE
Aluminum	<0.1		
Barium	<0.1		
Beryllium	<0.1		
Boron	0.2		
Cadmium	<0.1	☐	
Calcium	78.		
Chromium	<0.1	☒	0.015
Cobalt	<0.05		
Copper	<0.1		
Iron	0.2		
Lead	<0.1	☒	<0.01
Magnesium	16.		
Manganese	0.14		
Molybdenum	<0.1		
Nickel	<0.1		

ELEMENT	ICAP VALUE		AA VALUE
Silicon	14.		
Silver	<0.1	☐	
Strontium	0.7		
Tin	<0.1		
Vanadium	<0.1		
Zinc	<0.1		
Arsenic		☒	<0.005
Selenium		☒	<0.005
Mercury		☒	<0.0005
		☐	
		☐	
		☐	
		☐	
		☐	
		☐	

LAB COMMENTS: OIGEST 5/11/88

For OCD Use:
Date ~~Owner Notified~~: 5/6/88
Phone or Letter?
Initials:

ICAP Analyst JB **Reviewer** Jim Ashley
Date Analyzed 5/3/88 **Date Received** 6/14/88

754 WPW

88-0490-C

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088
PHONE(S): 827-5812

S.L.D. No. OR- 490 A+B
DATE REC. 4-19-88
PRIORITY 3
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 0 3 0 A & B

SAMPLE TYPE: WATER [X], SOIL [ ], FOOD [ ], OTHER: _____ CODE: _____

COUNTY: Lea ; CITY: Lovington CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S+3 7 E+0 2+4 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- [ ] (753) Aliphatic Purgeables (1-3 Carbons)
- [X] (754) Aromatic & Halogenated Purgeables
- [ ] (765) Mass Spectrometer Purgeables
- [ ] (766) Trihalomethanes

Other Specific Compounds or Classes

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

EXTRACTABLE SCREENS

- [ ] (751) Aliphatic Hydrocarbons
- [ ] (760) Organochlorine Pesticides
- [ ] (755) Base/Neutral Extractables
- [ ] (758) Herbicides, Chlorophenoxy acid
- [ ] (759) Herbicides, Triazines
- [ ] (760) Organochlorine Pesticides
- [ ] (761) Organophosphate Pesticides
- [ ] (767) Polychlorinated Biphenyls (PCB's)
- [ ] (764) Polynuclear Aromatic Hydrocarbons
- [ ] (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity= 750 umho/cm at 14 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval ____-____ft.; Casing:_____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - Cooling tower drain hose
Oil on surface / to east pit

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D G Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ ____

Samples were preserved as follows:

- [ ] NP: No Preservation; Sample stored at room temperature.
- [X] P-Ice Sample stored in an ice bath (Not Frozen).
- [ ] P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ - ____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed [ ] Seals Intact: Yes [ ] No [ ]

Signatures _____ _____

For OCD Use: Date Owner Notified 6/6/88 (Phone or Letter?) _____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 490

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
aromatic purgeables	N.D.		
halogenated purgeables	N.D		
* DETECTION LIMIT * ✳	5 ug/L	+ DETECTION LIMIT + ┼	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☑ Seal(s) broken by: not sealed date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 4/29/88. Analyst's signature: Gary C. Eden

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: L Mengelkoch

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

859
WNW

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED 4/19/88	LAB NO. WC-1266	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE 88/04/14	SITE INFORM-ATION ►	Sample location: Davis Gas Processing - Lovington	
Collection TIME 1030		Collection site description: Cooling Tower, drain hose to earth pit.	
Collected by — Person/Agency: Boyer / Seay / OCD			

SEND FINAL REPORT TO ►

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

Attn: David Boyer

Phone: 827-5812

Station/ well code

Owner

SAMPLING CONDITIONS

☐ Bailed ☒ Dipped ☐ Pump ☐ Tap	Water level: ~	Discharge: —	Sample type: GRAB
pH (00400): —	Conductivity (Uncorrected): 750 µmho	Water Temp. (00010): 14 °C	Conductivity at 25°C (00094): µmho

Field comments: oil on surface

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	1030	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH-Lab	7.41		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N + , Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From NF, NA Sample:

			Date Analyzed
☒ Calcium	78	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	23.2	mg/l	5/16
☒ Sodium	97.5	mg/l	5/10
☒ Bicarbonate	135	mg/l	5/24
☒ Chloride	252	mg/l	5/17
☒ Sulfate	105	mg/l	5/17
☒ Total Solids	690	mg/l	5/17
☐			
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported: 5/26/88 | Reviewed by

Laboratory remarks: 196

FOR OCD USE -- Date Owner Notified: _____ Phone or Letter? _____ Initals _____

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	3.89	78.00	<3.0	HC03	2.21	135.00	<1.0
Mg	1.91	23.20	<0.3	SO4	2.19	105.00	<10.0
Na	4.24	97.50	<10.0	CL	7.11	252.00	<5.0
K	0.10	4.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	10.14	202.70			11.51	492.00	

Total Dissolved Solids= 690

Ion Balance = 88.12%

WC No. = 8801266

Date out/By 5/27

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No. ICP-122	User Code	☒ 82235	☐ Other:

COLLECTION DATE & TIME: yy 88 | mm 04 | dd 14 | hh 10 | mm 30

COLLECTED BY: Boyer/Seay OCD

TO:

COLLECTION SITE DESCRIPTION: Davis Gas Processing - Lovington Cooling Tower / Brine Hose to

OWNER: East pit

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: David Boyer
TELEPHONE: 827-5812

SITE LOCATION:
County: Lea

Township, Range, Section, Tract: (10N06E24342)
1 1 5 S + 3 1 7 E + 0 1 2 + 4 1 1 1

STATION/ WELL CODE:

LATITUDE, LONGITUDE:

SAMPLING CONDITIONS:

☐ Bailed ☐ Pump ☒ Dipped ☐ Tap

Water Level:	Discharge:	Sample Type:
—	—	GRAB

pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
—	750 µmho	14 °C	µmho

FIELD COMMENTS: Oil on surface

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
☒ WPN: Water Preserved w/HNO_3 Non-Filtered	☐ WPF: Water Preserved w/HNO_3 Filtered	☒ ICAP Scan Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE		AA VALUE
Aluminum	<0.1		
Barium	<0.1		
Beryllium	<0.1		
Boron	0.2		
Cadmium	<0.1	☐	
Calcium	75.		
Chromium	<0.1	☒	0.013
Cobalt	<0.05		
Copper	<0.1		
Iron	0.4		
Lead	<0.1	☒	<0.01
Magnesium	18.		
Manganese	0.05		
Molybdenum	<0.1		
Nickel	<0.1		

ELEMENT	ICAP VALUE		AA VALUE
Silicon	15.		
Silver	<0.1	☐	
Strontium	0.8		
Tin	<0.1		
Vanadium	<0.1		
Zinc	<0.1		
Arsenic		☐	
Selenium		☐	
Mercury		☐	

LAB COMMENTS: DIGEST 5/11/88

For OCD Use:
Date Owner Notified: —
Phone or Letter?
Initials:

ICAP Analyst JB
Date Analyzed 5/3/88

Reviewer JH Jim Ashby
Date Received 6/14/88

754
wpn

88-0493

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud NE
Albuquerque, NM 87106 841-2570

HEALTH ENVIRONMENT — STATE OF NEW MEXICO

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 493 AAB
DATE REC. 4-19-88
PRIORITY 3

PHONE(S): 827-5812
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 0 5 0 0 0 0 1

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____ CODE: _____

COUNTY: Lea ; CITY: Lovington CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 4 1 1 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH=_____; Conductivity=2625 umho/cm at 27 °C; Chlorine Residual=_____mg/l

Dissolved Oxygen=_____mg/l; Alkalinity=_____mg/l; Flow Rate_____ ____/____

Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____-_____ft.; Casing:_____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - Hose discharge from plant oil/water separator to field - oily sheen, dark color

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D. E. Roush Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ and that

the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

RECEIVED
APR 18 1988
OIL CONSERVATION DIVISION
SANTA FE

For OCD Use: Date Owner Notified 4-18 Phone or Letter? _____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 493-

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables	N.D.		
aromatic purgeables	see remarks		
benzene	7525		
toluene	1875		
ethylbenzene	50		
p + m - xylene	225		
o - xylene	135		
* DETECTION LIMIT * ✳	12.5 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT
T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)
[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: four early eluting unsaturated compounds at 10-50 ppb and six late eluting compounds in the C3 substituted benzene regions at 10-50 ppb detected by the photoionization detector but not identified.

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☒ Seal(s) broken by: not sealed date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 4/20/88. Analyst's signature: Mary C. Eberr

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: R Meyerhen

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

859 WNR

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 4/29/88	LAB NO.: WC-1267	USER CODE: ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 04/14	SITE INFORMATION ►	Sample location: Baris Gas Processing Lovington	
Collection TIME: 1050		Collection site description: Hose discharge from plant oil/water separator to field	
Collected by — Person/Agency: Boyer/Leary /OCD			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088

RECEIVED MAY 10 1988 OIL CONSERVATION DIVISION Santa Fe

Attn: David Boyer

Phone: 827-5812

Station/ well code:

Owner:

SAMPLING CONDITIONS

☒ Bailed ☐ Dipped ☐ Pump ☐ Tap	Water level: —	Discharge: —	Sample type: Grab
pH (00400): —	Conductivity (Uncorrected): 2675 µmho	Water Temp. (00010): 27 °C	Conductivity at 25°C (00094): µmho

Field comments: oily sheen, dark color

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	2641	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: pH-Lab	7.24		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From WC, NA Sample:

			Date Analyzed
☒ Calcium	152	mg/l	5/16
☒ Potassium	12	mg/l	5/10
☒ Magnesium	135.4	mg/l	5/16
☒ Sodium	216	mg/l	5/10
☒ Bicarbonate	504	mg/l	5/24
☒ Chloride	590	mg/l	5/17
☒ Sulfate	112	mg/l	5/17
☒ Total Solids	1916	mg/l	5/17
☐			
☐			
☒ Cation/Anion Balance			

Analyst	Date Reported	Reviewed by
	5/26/88	

Laboratory remarks: 633

FOR OCD USE -- Date Owner Notified: / Phone or Letter? Initals

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	7.58	152.00	<3.0	HC03	8.26	504.00	<1.0
Mg	11.09	135.00	<0.3	SO4	2.33	112.00	<10.0
Na	9.40	216.00	<10.0	CL	16.64	590.00	<5.0
K	0.31	12.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	28.38	515.00			27.24	1206.00	

Total Dissolved Solids= 1916

Ion Balance = 104.18%

WC No. = 8801267

Date out/By 5/27

New Mexico Health and Environment Department
SCIENTIFIC LABORATORY DIVISION
700 Camino de Salud NE
Albuquerque, NM 87106

HEAVY METAL ANALYSIS FORM

Telephone: (505)841-2553

Date Received	4/19/88	Lab No.	ICP 423	User Code	☒ 82235	☐ Other:

COLLECTION DATE & TIME: yy 88 | mm 04 | dd 14 | hh 10 | mm 50

COLLECTED BY: Boyd / Seay OCD

COLLECTION SITE DESCRIPTION: Davis Gas Processing Hose discharge from plant separator to field

OWNER:

TO:

ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg., PO Box 2088
SANTA FE, NM 87504-2088

ATTN: David Boyd
TELEPHONE: 827-5812

SITE LOCATION:
County:

Township, Range, Section, Tract: (10N06E24342)
1 5 5+3 7 E+0 5+4 1 1

STATION/ WELL CODE:

LATITUDE, LONGITUDE: -

SAMPLING CONDITIONS:

☐ Bailed ☒ Dipped	☐ Pump ☐ Tap	Water Level:	Discharge:	Sample Type: Grab

pH(00400)	Conductivity(Uncorr.)	Water Temp.(00010)	Conductivity at 25°C (00094)
—	2675 µmho	27 °C	µmho

FIELD COMMENTS: oily sheen, dark color

SAMPLE FIELD TREATMENT Check proper boxes:		LAB ANALYSIS REQUESTED:
☒ WPN: Water Preserved w/HNO_3 Non-Filtered	☐ WPF: Water Preserved w/HNO_3 Filtered	☒ ICAP Scan Mark box next to metal if AA is required.

ANALYTICAL RESULTS (MG/L)

ELEMENT	ICAP VALUE	AA VALUE	ELEMENT	ICAP VALUE	AA VALUE
Aluminum	0.4		Silicon	12.	
Barium	0.1		Silver	<0.1 ☐	
Beryllium	<0.1		Strontium	1.4	
Boron	0.3		Tin	<0.1	
Cadmium	<0.1 ☐		Vanadium	<0.1	
Calcium	150.		Zinc	0.1	
Chromium	<0.1	☒ 0.012	Arsenic		☒ 0.007
Cobalt	<0.1		Selenium		☒ <0.005
Copper	<0.1		Mercury		☒ <0.0005
Iron	1.8				☐
Lead	<0.1	☒ <0.01			☐
Magnesium	36.				☐
Manganese	<0.05				☐
Molybdenum	<0.1				☐
Nickel	<0.1				☐

LAB COMMENTS: DIGEST

For OCD Use:
Date Owner Notified: 7/6/88
Phone or Letter?
Initials:

ICAP Analyst QB
Date Analyzed 5/3/88

Reviewer
Date Reveived 6/14/88

754
NPW

88-049

...IFIC LABORATORY DIVISION

700 Camino de Salud NE
...buquerque, NM 87106 841-2570

STATE OF NEW MEXICO
ENVIRONMENT

REPORT TO: David Boyer
N.M. Oil Conservation Division
P. O. Box 2088
Santa Fe, N.M. 87504-2088

S.L.D. No. OR- 491 A+B
DATE REC. 4-19-88
PRIORITY 3

PHONE(S): 327-5812
USER CODE: 8 2 2 3 5

SUBMITTER: David Boyer
CODE: 2 6 0

SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8 8 0 4 1 4 1 1 2 5 2 A B

SAMPLE TYPE: WATER ☒, SOIL ☐, FOOD ☐, OTHER: _____ CODE: _____

~~COUNTY~~ City: Lovington ; ~~CITY~~ County: Lea CODE: _____

LOCATION CODE: (Township-Range-Section-Tracts) 1 5 S + 3 7 E + 0 2 + 3 5 2 (10N06E24342)

ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required.

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

Remarks: _____

FIELD DATA:

pH= — ; Conductivity= 1920 umho/cm at 20 °C; Chlorine Residual= _____ mg/l

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

Depth to water _____ ft.; Depth of well _____ ft.; Perforation Interval ____-____ ft.; Casing: _____

Sampling Location, Methods and Remarks (i.e. odors, etc.)

Davis Gas Processing - West Water well
(Shallower, submersible pump)

I certify that the results in this block accurately reflect the results of my field analyses, observations and activities.(signature collector): D.V. Boyer Method of Shipment to the Lab: State Car

This form accompanies 2 Septum Vials, ____ Glass Jugs, and/or ____ _____

Samples were preserved as follows:

- ☐ NP: No Preservation; Sample stored at room temperature.
- ☒ P-Ice Sample stored in an ice bath (Not Frozen).
- ☐ P-$Na_2S_2O_3$ Sample Preserved with Sodium Thiosulfate to remove chlorine residual.

CHAIN OF CUSTODY

I certify that this sample was transferred from _____ to _____

at (location) _____ on ____/____/____ and that the statements in this block are correct. Evidentiary Seals: Not Sealed ☐ Seals Intact: Yes ☐ No ☐

Signatures _____ _____

RECEIVED
JUN 6 1988
OIL CONSERVATION DIVISION
SANTA FE

For OCD Use: Date Owner Notified 7/6/88 Phone or Letter? _____ Initials _____

ANALYSES PERFORMED

LAB. No.: OR- 491

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

- ☐ (753) Aliphatic Purgeables (1-3 Carbons)
- ☒ (754) Aromatic & Halogenated Purgeables
- ☐ (765) Mass Spectrometer Purgeables
- ☐ (766) Trihalomethanes

Other Specific Compounds or Classes

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

EXTRACTABLE SCREENS

- ☐ (751) Aliphatic Hydrocarbons
- ☐ (760) Organochlorine Pesticides
- ☐ (755) Base/Neutral Extractables
- ☐ (758) Herbicides, Chlorophenoxy acid
- ☐ (759) Herbicides, Triazines
- ☐ (760) Organochlorine Pesticides
- ☐ (761) Organophosphate Pesticides
- ☐ (767) Polychlorinated Biphenyls (PCB's)
- ☐ (764) Polynuclear Aromatic Hydrocarbons
- ☐ (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC. [PPB]
halogenated purgeables			
1,1 Dichloroethane	.5		
trichloroethene	.5		
aromatic purgeables	N.D.		
* DETECTION LIMIT * ✳	.5 ppb	+ DETECTION LIMIT + +	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS: _____

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Intact: Yes ☐ No ☑ Seal(s) broken by: not sealed date: _____

I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.

Date(s) of analysis: 4/20/88 . Analyst's signature: Mary C. Ellen

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

Reviewers signature: K. Meyerhen

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

859 WIN

GENERAL WATER CHEMISTRY and NITROGEN ANALYSIS

DATE RECEIVED: 4/19/88	LAB NO. WC-1270	USER CODE ☐ 59300 ☐ 59600 ☒ OTHER: 82235	
Collection DATE: 880414	SITE INFORMATION ►	Sample location: Doris Gas Processing Lovington	
Collection TIME: 1125		Collection site description: West water well (Shallower-sub-mersible pump)	
Collected by — Person/Agency: Boyer/Seay/OCD			

SEND FINAL REPORT TO ►
ENVIRONMENTAL BUREAU
NM OIL CONSERVATION DIVISION
State Land Office Bldg, PO Box 2088
Santa Fe, NM 87504-2088
Attn: David Boyer
Phone: 827-5812

Station/ well code:
Owner:

SAMPLING CONDITIONS

☐ Bailed ☒ Pump ☐ Dipped ☒ Tap	Water level: —	Discharge: —	Sample type: Grab
pH (00400): —	Conductivity (Uncorrected): 1920 µmho	Water Temp. (00010): 20 °C	Conductivity at 25°C (00094): µmho

Field comments:

SAMPLE FIELD TREATMENT — *Check proper boxes*

No. of samples submitted: 1

☒ NF: Whole sample (Non-filtered) ☐ F: Filtered in field with 0.45 µmembrane filter ☐ A: 2 ml H_2SO_4/L added

☒ NA: No acid added ☐ Other-*specify:* ☐ A: 5ml conc. HNO_3 added ☐ A: 4ml fuming HNO_3 added

ANALYTICAL RESULTS from SAMPLES

NA		Units	Date analyzed
☒ Conductivity (Corrected) 25°C (00095)	2127	µmho	5/23
☐ Total non-filterable residue (suspended) (00530)		mg/l	
☒ Other: Lab pH	7.88		5/24
☐ Other:			
☐ Other:			

A-H_2SO_4			
☐ Nitrate-N +, Nitrate-N total (00630)		mg/l	
☐ Ammonia-N total (00610)		mg/l	
☐ Total Kjeldahl-N ( )		mg/l	
☐ Chemical oxygen demand (00340)		mg/l	
☐ Total organic carbon ( )		mg/l	
☐ Other:			
☐ Other:			

From WF, NA Sample:

			Date Analyzed
☒ Calcium	204	mg/l	5/16
☒ Potassium	4	mg/l	5/10
☒ Magnesium	36.6	mg/l	5/16
☒ Sodium	180	mg/l	5/10
☒ Bicarbonate	224	mg/l	5/24
☒ Chloride	660	mg/l	5/20
☒ Sulfate	114	mg/l	11
☒ Total Solids	1610	mg/l	5/20
☐			
☐			
☒ Cation/Anion Balance			

Analyst | Date Reported: 5 27 88 | Reviewed by

Laboratory remarks: 557

FOR OCD USE -- Date Owner Notified 4/27 Phone or Letter? Initals

CATIONS				ANIONS			
ANALYTE	MEQ.	PPM	DET. LIMIT	ANALYTE	MEQ.	PPM	DET. LIMIT
Ca	10.18	204.00	<3.0	HC03	3.67	224.00	<1.0
Mg	3.01	36.60	<0.3	SO4	2.38	114.00	<10.0
Na	8.18	188.00	<10.0	CL	18.62	660.00	<5.0
K	0.10	4.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	21.47	432.60			24.66	998.00	

Total Dissolved Solids= 1610

Ion Balance = 87.03%

WC No. = 8801270

Date out/By 5/27