GW - 20

PERMITS, RENEWALS, & MODS

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. _____ dated 2/4/10

or cash received on _____ in the amount of $ 100 00

from Larson & Associates Inc

for GW-20

Submitted by: Lawrence Romero Date: 9/9/10

Submitted to ASD by: Lawrence Romero Date: 9/9/10

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal ✓

Modification _____ Other Discharge Plan

Organization Code 521.07 Applicable FY 2010

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

Larson & Associates, Inc.
Environmental Consultants

February 4, 2010

Mr. Leonard Lowe
Environmental Engineer
New Mexico Oil Conservation Division
1220 S St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED OCD
2010 FEB -5 P 3:28

RE: Frontier Field Service Discharge Permit Renewal
Maljamar Gas Plant - GW-020
Lea County, New Mexico

Dear Mr. Lowe:

On behalf of Frontier Field Services, Larson & Associates, Inc., submits this renewal permit for the Maljamar Gas Plant. Please find enclosed the renewal application, public notice (in English and Spanish) and the filing fee.

If you have any questions or require additional information, please call me at 432.687.0901 to discuss.

Sincerely,

LARSON & ASSOCIATES, INC.

Michelle L. Green
Environmental Scientist
michelle@laenvironmental.com

Enclosure Discharge Permit Renewal Application
Public Notice
Filing Fee

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 Plant

2. Operator: Frontier Field Services, LLC

   Address: P.O. Box 7, 1001 Conoco Road, Maljamar, New Mexico 88260

   Contact Person: John Prentiss Phone: 575-676-3528

3. Location: Unit N (SE/4, SW/4), Section 21, Township 17 South, Range 32 East
   Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.

5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.

6. Attach a description of all materials stored or used at the facility.

7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.

8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

10. Attach a routine inspection and maintenance plan to ensure permit compliance.

11. Attach a contingency plan for reporting and clean-up of spills or releases.

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

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

Name: John Prentiss Title: Area Manager

Signature: John Prentiss Date: 1/27/10

E-mail Address: jprentiss@frontierfieldservices.com

PUBLIC NOTICE

Frontier Field Services, LLC, 4200 E. Skelly Drive, Tulsa, Oklahoma, 74135, has submitted an application to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division for renewal of a discharge plan permit (GW- 020) for their Maljamar Gas Plant located in the Unit N (SE ¼, SW ¼) of Section 21, Township 17 South, Range 32 East in Lea County, New Mexico. The physical address of the facility is 1001 Conoco Road, Maljamar, New Mexico, 88260. The facility is located approximately 3 miles south of Maljamar, New Mexico.

The facility processes natural gas that is transferred to the facility from various fields in a pipeline gathering system. The facility is a 60 MMcfd cryogenic gas plant and gathering system. The facility utilizes a cryogenic process to remove simple alkanes (i.e. ethane, propane, pentane and hexane) from natural gas and third party y-grade (liquid hydrocarbons). The unprocessed material is transported to the facility via pipelines. The gas is compressed and sent to an amine system to remove carbon dioxide and hydrogen sulfide, dehydrated and cooled. Natural gas liquid and residue gas products leave the facility by means of pipelines. The facility uses scrubbers, exchangers, separators, chillers, flash tanks, and compressors for the various processes. The end products, residue gas and natural gas liquids, are sold to various Petroleum based companies.

Approximately 3,000 barrels (bbl) of waste water from wash down, pressure separators, scrubbers, and slug catchers is generated monthly and hauled from the three-phase separator tank and disposed off site in an OCD approved Class II well. Approximately 200 bbl of spent amine and water is collected each quarter in the amine waste tank and disposed off site in an OCD approved Class II well. Approximately 300 bbl of waste water from the reverse osmosis back-flush is discharged into the ConocoPhillips Playa Lake. Approximately 15 gallons of Stoddard solvent is generated in the parts washer and disposed off site by a commercial company. Approximately 3,000 bbl of waste oil, including engine, gear and lubricating oil, is collected in the dirty slop oil tank and disposed off site in an OCD approved Class II well. Spent or depleted process materials, including activated carbon, zeolite and aluminum silicate, is disposed off site at an OCD approved facility. Process filters and metal are placed in separate bins for recycling. Empty aerosol cans and pails are placed in a trash bin for disposal offsite. Oily soil from spills is disposed at an OCD approved disposal facility or treated on site with OCD approval. All storage tanks are within properly engineered and OCD approved secondary containments.

The primary aquifer most likely to be affected is between approximately 70 and 95 feet below ground surface in two sandstone beds separated by a four-foot thick shale sequence. The total dissolved solids concentration of the primary aquifer is below the 1,000 mg/l NM WQCC standard.

Any interested person or persons may obtain information; submit comments or request to be placed on a facility-specific mailing list for future notices by contacting Leonard Lowe at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3492. The OCD will accept comments and statements of interest regarding the

renewal and will create a facility-specific mailing list for persons who wish to receive future notices.

AVISO AL PÚBLICO

Frontier Field Services, LLC, 4200 E. Skelly Drive, Tulsa, Oklahoma, 74135, ha presentado una solicitud a la energía de New Mexico, Minerales y Departamento de Recursos Naturales, División de Conservación de Petróleo para la renovación de un plan de permiso de descarga (GW-020) para su Maljamar Planta de Gas ubicada en la Unidad N (SE ¼, SW ¼) de la Sección 21, del municipio de 17 sur, Range 32 East en el Condado de Lea, New Mexico. La dirección física de la instalación es 1001 Conoco Road, Maljamar, New Mexico. La instalación está ubicada aproximadamente a 4.8 kilómetros al sur de Maljamar, New Mexico.

La planta procesa el gas natural que se transfiere a la instalación de varios campos en un sistema de recolección de tuberías. La instalación es de 60 MMpcd planta de gas criogénico y el sistema de recolección. La instalación utiliza un proceso criogénico para eliminar los alcanos simples (es decir, etano, propano, pentano y hexano) de gas natural y las partes y de tercer grado (hidrocarburos líquidos). El material sin procesar se transporta a la planta a través de tuberías. El gas es comprimido y enviado a un sistema con aminas para eliminar el dióxido de carbono y sulfuro de hidrógeno, deshidratados y se enfrían. De líquido de gas natural y productos de gas de residuos salir de la instalación por medio de tuberías. La instalación utiliza los depuradores, intercambiadores, separadores, enfriadores, tanques de flash, y compresores para los diversos procesos. Los productos finales, los residuos de gas y líquidos de gas natural, se venden a diferentes empresas de base de petróleo.

Aproximadamente 3,000 barriles (bbl) de las aguas residuales del proceso de lavado, separador de presión, lavadores y receptor slug se genera mensualmente y transportada desde el depósito de separadore de tres fases y eliminados fuera del emplazamiento en un OCD aprobó la clase II también. Alrededor de 200 barriles de amina gastado y agua de cada trimestre se recoge en el tanque de la amina gastado y dispuestos fuera del emplazamiento en un OCD aprobó la clase II también. Cerca de 300 barriles de aguas residuales de ósmosis inversa y sistemas de retrolavado se verte en la laguna Playa de ConocoPhillips. Aproximadamente 15 litros de disolvente Stoddard se genera en lavadoras de piezas y eliminados fuera del sitio por una empresa comercial. Aproximadamente 3,000 barriles de aceites usados, incluyendo el motor, de transmisión mecánica y aceite lubricante, se recoge en el tanque de decantación de aceite sucio y eliminados fuera de sitio cada semana en un OCD aprobó la clase II también. Gastados o agotados los materiales en proceso, incluyendo carbón activado, zeolita y silicato de aluminio, se eliminan fuera del sitio en una instalación aprobada para el OCD. Filtros de proceso y del metal se colocan en los contenedores separados para su reciclaje. Vaciar las latas de aerosol y cubos se perforan y colocado en un cubo de basura fuera del sitio de disposición. Aceitosa del suelo de los derrames se dispone en un lugar de desecho aprobado el OCD o tratados in situ con la aprobación de OCD. Todos los tanques de almacenamiento están dentro debidamente diseñados y aprobados OCD contenciones secundarias.

El acuífero principal más probabilidades de verse afectada es aproximadamente entre 70 y 95 pies por debajo de la superficie del suelo en dos camas de arenisca separado con cuatro pies de una capa de secuencia de esquisto. La concentración de sólidos disueltos en el acuífero principal es inferior 1,000 mg/l por NM WQCC reglas.

Cualquier persona o personas interesadas pueden obtener más información, enviar comentarios o solicitar que se les coloca en una instalación de lista de distribución específica para los posteriores anuncios en contacto con Leonard Lowe en el OCD de New Mexico en 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Teléfono (505) 476-3492. El OCD se aceptan comentarios y declaraciones de interés respecto a la renovación y creará una instalación de lista de distribución específica para las personas que deseen recibir avisos de futuro.

DISCHARGE PERMIT RENEWAL APPLICATION
GW-020

Frontier Field Services, LLC
Maljamar Gas Plant
Lea County, New Mexico

Project No. 7-0110

January 22, 2010

Prepared for:
Frontier Field Services, LLC
P. O. Box 7
Maljamar, New Mexico 88264

Prepared by:
Michelle L. Green
Environmental Scientist

Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

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1.0 Type of Operation

Frontier Field Services, LLC (Frontier) operates the Maljamar Gas Plant located in Lea County, New Mexico. The facility is a 60 MMcfd cryogenic gas plant and gathering system. The facility utilizes a cryogenic process to remove simple alkanes (i.e. ethane, propane, pentane and hexane) from natural gas and third party y-grade (liquid hydrocarbons). The unprocessed material is transported to the facility via pipelines. The gas is compressed and sent to an amine system to remove carbon dioxide and hydrogen sulfide, dehydrated and cooled. Natural gas liquid and residue gas products leave the facility by means of pipelines. Condensate is transported via trucking. The facility uses scrubbers, exchangers, separators, chillers, flash tanks, and compressors for the various processes.

2.0 Name of Operator or Legally Responsible Party and Local Representative

Facility Operator and Responsible Party:

Frontier Field Services, LLC
1001 Conoco Road
Maljamar, New Mexico 88260

Local Representatives:

John Prentiss
Area Manager
Office: 575-676-3528
Cell: 575-706-6983

3.0 Location of the Discharge Plan Facility

The facility is located at Latitude 32° 48' 49.68" North and Longitude 103° 46' 19.18" West, in the SE/4, SW/4, (Unit N), Section 21, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico. A topographic map, aerial based map and facility drawing are presented in Figures 1, 2, and 3, respectively.

4.0 Landowners

The landowner of record, according to the Lea County Tax Assessor's Office is:

Frontier Field Services, LLC
4200 E. Skelly Drive
Suite 700
Tulsa, Oklahoma 74135

5.0 Facility Description

The Maljamar Gas Plant is a cryogenic gas plant and associated gathering system. The plant accepts inlet gas from the various fields. The end products, residue gas and natural gas liquids, are sold to various Petroleum based companies.

A facility diagram depicting locations of storage, disposal and processing areas is presented in Figure 4. Process flow diagram is presented in Appendix A.

6.0 Material Stored or Used at the Facility

The following materials are stored and used at the Maljamar Gas Plant facility:

A. Process specific chemicals (TEG, Amine, Lean Oil, etc.)

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Diethanolamine	Liquid	1 – 3,000 gallon tank	3,000 gallons	Concrete berm	Process Area

B. Acids/Caustics

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Sodium Hydroxide	Liquid	500 ml glass container	1,000 ml	N/A	Instrument Air Building
Sulfuric acid	Liquid	500 ml glass container	1,000 ml	N/A	Instrument Air Building

C. Detergents/soaps

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Bio-degradable Industrial Detergent, F-20 Low pH	Liquid	400 gallon Poly Tank	400 gallon	Concrete berm	Clark Building Storage Area

D. Solvents, inhibitors and degreasers

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
A-142 Solvent	Liquid	500 gallon tank	500 gallons	Concrete berm	Electric Compressor Building
A-142 Solvent	Liquid	500 gallon tank	500 gallons	Concrete berm	Clark Building Storage Area
Methanol	Liquid	2,000 gallon Tank	2,000 gallons	Concrete berm	Process Area
Methanol	Liquid	500 ml bottle	2,000 ml	N/A	Instrument Air Building
Methanol	Liquid	500 gallon poly tank	500 gallons	Concrete berm	Southwest corner of Facility
Defoamer 1017E	Liquid	Drum	100 gallons	Concrete berm	Process Area

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Xylene	Liquid	5 gallon pail	10 gallons	Concrete bottom	Paint Storage Building
Stoddard Solvent – Parts Washer	Liquid	Parts Washer Vat	15 gallons	Concrete pad	Shop Building
Orton R-856 Corrosion Inhibitor	Liquid	300 gallon poly tote	300 gallons	Concrete berm	Clark Building Storage Area

E. Paraffin Treatment/Emulsion breakers

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Emulsotron - X711	Liquid	Drum	55 gallons	Metal containment	Raw Product Tanks

F. Biocides

Non- applicable

G. Others (other liquids or solids such as diesel or cement, etc.)

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Lubrication Oil – LSO 32	Liquid	100 gallon tank	100 gallons	Concrete berm	Process area
Engine Oil	Liquid	500 gallon tank	500 gallons	Concrete berm	Electric Compressor Building
Gear Oil – Super EP220	Liquid	4 – 25 gallon tanks	100 gallons	Concrete pad	Raw Product Tanks
Gear Oil – Super EP220	Liquid	Drum	110 gallons	Fiberglass	Drum Storage Area
SA – 40 Engine Oil	Liquid	6000 gallon tank	600 gallons	Concrete berm	Clark Building Storage Area
Chevron Oil – ISO 32	Liquid	Drum	55 gallons	Fiberglass	Drum Storage Area
Chevron Hydraulic Oil – AW ISO 68	Liquid	5 gallon pail	20 gallons	Fiberglass	Drum Storage Area
Condensate	Liquid	2-300 bbl tanks	600 bbl	Concrete berm	Raw Product Storage Area
ChemTherm 550	Liquid	Drum	110 gallons	Fiberglass	Drum Storage Area

Material Name	Solid or Liquid	Type of Container	Estimated Volume	Secondary Containment	Location
Ethylene glycol	Liquid	500 gallon tank	500 gallons	Concrete berm	Electric Compressor Building
Ethylene glycol	Liquid	500 gallon tank	500 gallons	Concrete berm	Clark Building Storage Area
Production Water	Liquid	1,000 bbls	1,000 bbl	N/A	North of Process Area
Molecular Sieves	Solid	2,000 lb Super Sack	10 super sacks	N/A	North of Clark Building Storage Area
Activated Charcoal	Solid	Filter Towers	N/A	Concrete berm	Process Area
Waste Amine	Liquid	210 bbl tank	210 bbl	Earthen berm with liner	Process Area
Produced Waste Water	Liquid	500 bbl tank	500 bbls	Earthen berm with liner	Facility Storage Area
Waste Oil	Liquid	420 bbl tank	420 bbls	Earthen berm with liner	North of Clark Building Storage Area
Methyl purple indicator	Liquid	120 ml amber glass container	120 ml	N/A	Instrument Air Building
Phenolphthalein pH indicator	Liquid	120 ml glass container	120 ml	N/A	Instrument Air Building
Sodium chloride	Solid	40 lb bags	50 bags	N/A	Water Treatment Storage Building
Paint	Liquid	16 oz aerosol can	20 cans	Flammable Cabinet	Paint Storage Building

7.0 Sources and Quantities of Effluent and Waste Solids Generated at the Facility

The facility generates the following:

1. Separators, Scrubbers, Slug Catchers

Oily Water Tank

The facility generates produced water and condensate mixture from the pressure separators, scrubbers and slug catchers. The water and condensate mixture is separated out in the three-phase separator tank. The condensate and oil is recovered as a product and is sold. The waste water is transported via pipeline to Conoco Production for re-use. Excess waste water is also transferred to the Produced Waste Water Tank. The waste water is disposed of by trucking to an OCD approved disposal facility. The facility generates approximately 3,000 barrels (bbls) per month of waste water. This waste water is considered RCRA exempt.

2. Boilers, Waste Heat Recovery Units, cogeneration facilities, and cooling towers/fans

Waste Amine Tank

The facility uses diethanolamine (amine) to remove hydrogen sulfide and carbon dioxide from the gas stream. The amine is recycled back into the system. Spent amine is transferred to an open drain sump. Contents of the sump are then transferred to the Waste Amine Tank. The waste water is disposed quarterly by trucking to an OCD approved disposal facility, DK Disposal.

R/O Waste Water

The facility generates waste water from the reverse osmosis system. Approximately 200 to 400 bbls of waste water are generated on a monthly basis. The water is transferred to the Production Water Tank. The waste water is discharged into the ConocoPhillip's Playa Lake.

A representative grab sample was collected on October 29, 2009 and submitted for Volatile Organic Compounds (VOC) and TCLP Metal parameters. The sample was determined to be non-hazardous based on analytical data (work order 350336) provided by Xenco Laboratories (Xenco).

An additional sample was collected May 21, 2008 for Wet Chemistry parameters. The sample was submitted to Continental Products of Texas.

Laboratory analytical reports are presented in Appendix B.

3. Wash down/Steam out effluent from process and storage equipment internals and externals

Wash Down from Equipment

The facility generates a mixture of water and biodegradable soap from equipment cleaning. The waste water is transferred to the Waste Oil Tank. The facility generates approximately 210 gallons of waste

water per month. The waste water is disposed by trucking to an OCD approved disposal facility, Sundance Services, Inc. (NM01-0003).

Wash Down from Electric Compressor Buildings

The facility collects wash-down material from the Electric compressor building. The waste water is transferred to the Waste Oil Tank. The facility generates approximately 210 gallons of waste water per month. The waste water is disposed by trucking to an OCD approved disposal facility, Sundance Services, Inc.

Wash Down from Electric Inlet Compressor

The facility collects wash-down material from the Electric Inlet Compressor. The waste water is collected in the compressor skids. The waste water is transferred to a holding tank. The waste is transported by trucking to an OCD approved disposal facility, Sundance Services, Inc.

Wash Down from Refrigeration Compressor

The facility collects wash-down material from the Refrigeration Compressor. The waste water is collected within the building and drained to a sump. The waste water is disposed by trucking to an OCD approved disposal facility, Sundance Services, Inc.

4. Solvent/degreaser use

Safety Kleen Stoddard Solvent

The solvent is used in the parts washer to degrease and clean small parts. The facility disposes of approximately 15 gallons of the solvent every three months by Safety Kleen.

Methanol

The facility uses methanol in the cryogenic unit. The methanol is recycled in the process.

5. Spent acids or caustics

Non-applicable

6. Used engine coolants (antifreeze)

Ethylene glycol

The facility uses ethylene glycol for process engines. The water and antifreeze mixture is recycled in the process.

7. Used lubrication and motor oils

Lubrication, Gear and Synthetic Oils

The oils are used to lube engines, pumps, and compressors. The used oil is transferred to the Waste Oil Tanks for proper disposal. The facility generates approximately 100 gallons of oil waste per month. The waste oil is transported by trucking to an OCD approved disposal facility, Sundance Services, Inc.

8. Used lube oil and process filters

Process Filters

Process filters (sock filters, pre and after charcoal filters and bag filters) and oil filters are collected and placed in the Used Filter Bin located at the East of the Clark Compressor Building Area. The filters are recycled by FCC, an approved recycling facility every quarter or "as needed".

9. Solids and sludges from tanks

Sludges

Sludge waste from the sumps is removed by a local transport company. The sludge is disposed "as needed" by trucking to an OCD approved disposal facility, Sundance Services, Inc.

10. Painting wastes

Paint Cans

The facility utilizes paint for marking the safety hazard awareness areas (steps, uneven surfaces, etc.) and for maintaining process equipment. The empty cans and pails are placed in a trash bin for proper disposal as unregulated solid waste.

11. Sewage

Septic Tank

The facility is not connected to a publicly owned treatment works; however two septic systems are utilized at the facility. Septic system maintenance is performed by a local septic service company. The septic tank complies with applicable requirements.

12. Laboratory wastes

Methanol, Methyl purple, Phenolphthalein, Sulfuric acid & Sodium hydroxide

The facility utilizes a small laboratory for product testing. The used solutions are transferred to a 15 gallon drum in a secondary containment. The waste is managed as hazardous and properly disposed of by Safety Kleen.

13. Other waste liquids

Storm water

Storm water collects in secondary containments and is removed using procedures described in the facility Storm Water Runoff Plan. Storm water is disposed when necessary by trucking to an OCD approved disposal facility, Sundance Services, Inc.

The Storm Water Runoff Plan is presented in Appendix C.

14. Other waste solids

Metal

The facility recycles various un-usable metal parts and metal shavings. These are placed in a metal recycling dumpster.

Activated carbon
The plant uses activated charcoal in the amine system. Depleted activated charcoal is placed in drums and disposed at an OCD approved disposal facility, CRI, Inc. (R-9116).

Molecular sieve/zeolite
The plant uses molecular sieves during the gas separation process. Depleted molecular sieves are placed in drums and disposed at an OCD approved disposal facility, CRI, Inc.

Oily Soil
The plant personnel remediate oil spills around the yard as they occur. The soil is stockpiled, tested and disposed of at an OCD approved disposal facility, CRI, Inc., or treated onsite.

Ceramic balls, Molecular sieves, Aluminum silicate
The plant uses various media: ceramic balls in conjunction with catalysts, molecular sieves and aluminum silicate to increase the production of clean fuels, absorb water from the air, filter various compounds and protect catalysts. Depleted media is placed in drums and disposed at an OCD approved disposal facility, CRI, Inc.

Plant refuse
The plant refuse is placed in a dumpster. The dumpsters are emptied weekly by Waste Management. Refuse is transported to the local landfill.

Methanol, Methyl purple, Phenolphthalein, Sulfuric acid & Sodium hydroxide
The facility utilizes a small laboratory for product testing. The used solutions are transferred to a 15 gallon drum in a secondary containment. The waste is managed as hazardous and properly disposed of by Safety Kleen.

8.0 Description of Current Liquid and Solid Waste Collection/Storage/Disposal Procedures

Oily Water Waste

The oil and produced water mixture from the wash down, pressure separators, scrubbers, and slug catchers are transferred to the Oily Water Tank which is located in the Condensate Storage Area near the south end of the plant. The water and oil mixture is separated. The condensate and oil is recovered as a product and sold to various oil related customers. The plant disposes of approximately of 3,000 bbls of waste water per month. The waste water is transported to a permitted OCD Class II disposal well operated by Sundance Services, Inc. (NM01-0003).

Amine Waste

The spent amine and water is collected in the 210 bbl Amine Waste Tank located in northeast corner of the facility. The plant disposes of approximately of 200 bbls of spent amine and waste water every three months in a permitted OCD Class II disposal well operated by Sundance Services, Inc.

Oil Tank Waste

The used oil generated by the plant and the compressor units is transferred to the Waste Oil Tank located south of the facility. The tank has a capacity of 420 bbls. The plant disposes of approximately of 40 bbls of used oil and waste water per week. The used oil and waste water is trucked offsite to a permitted OCD Class II disposal well operated by Sundance Services, Inc.

R/O Waste Water

The facility generates waste water from back-flush/rejection water from the reverse osmosis system. Approximately 200 to 400 bbls of waste water are generated on a monthly basis. The waste water is discharged into the ConocoPhillip's Playa Lake.

Produced Waste Water

The facility generates produced water from the pressure separators, scrubbers and slug catchers. The produced water is transported via pipeline to Conoco Production for re-use. Excess waste water is also transferred to the Produced Waste Water Tank and is disposed of by trucking to an OCD approved disposal facility. The facility generates approximately 3,000 barrels (bbls) per month of waste water. This waste water is considered RCRA exempt.

Sludges

Sludge waste from the sumps is removed and disposed of "as needed" to an OCD approved facility operated by Sundance Services, Inc.

Metal

The facility collects un-usable metal parts and scrap metal. The scrap metal is placed in a metal recycling dumpster located at the south end of the facility. Scrap metal is taken to Hobbs Iron and Metal, a recycling facility.

Septic System Waste
The facility is not connected to a publically owned treatment works; however two septic systems are utilized. Septic system maintenance is performed on an "as needed basis", by a local septic service company.

The septic waste is managed in leach fields on-site.

Safety Kleen – Stoddard Solvent
The solvent is used in the parts washer to clean small parts. The parts washer vessels are leased from Safety Kleen. The facility disposes approximately 15 gallons on a quarterly basis by Safety Kleen.

Carb/Choke Cleaner - Aerosol Cans and Pails
The facility utilizes carb/choke cleaner to clean electrical parts and contacts. The cleaner is used according to manufacturer instructions. The empty cans and pails are placed in a trash bin for proper disposal as unregulated solid waste.

Activated carbon
The plant uses activated charcoal in the amine system process. Depleted activated charcoal is placed in drums and disposed at an OCD approved disposal facility, CRI, Inc. (R-9116).

Molecular sieve/zeolite
The plant uses molecular sieves during the gas separation process. Depleted molecular sieves are placed in drums and disposed at an OCD approved disposal facility, CRI, Inc.

Oily Soil
The plant is in the process of remediating oil spills in the vicinity of the flare sump. Removed soil is stockpiled and tested. Oily soil is disposed of at an OCD approved facility, CRI, Inc. or treated onsite.

Ceramic balls, Molecular sieves, Aluminum silicate
The plant uses various media: ceramic balls in conjunction with catalyst, molecular sieves and aluminum silicate to increase the production of clean fuels, absorb water from the air, filter various compounds and protect catalyst. Depleted media is placed in 55 gallons drums and disposed at an OCD approved disposal facility, CRI, Inc. on an "as needed basis".

Process Filters
Process filters (sock filters, pre and after charcoal filters, amine filters, dust filters, and bag filters) and oil filters are collected and placed in the Used Filter Bin located at the South end of the plant. The filter bin is picked up for recycling every six months and transported to an approved recycling facility, FCC.

Plant Refuse
The dumpsters are emptied weekly by Waste Management. Refuse is transported to the local landfill.

Used Drums
Empty drums are stored in the drum storage area. Drums are laid on their side with the bungs in a horizontal plane. Empty drums are returned to the appropriate vendors.

Methanol Waste

The used methanol solution is transferred to a 15 gallon drum placed in a secondary containment. The waste is managed as hazardous and properly disposed of by Safety Kleen.

9.0 Proposed Modifications

No modifications are proposed at this time.

10.0 Inspection, Maintenance and Reporting

Drum Storage Area

The drum storage area secondary containment is made of fiberglass. The secondary containment stores empty and full drums. Drums are properly labeled and the containment and drums are visually inspected daily.

Underground Lines

The plant has underground lines from various processes and wastewater. The lines were hydrostatically pressure tested to demonstrate mechanical integrity between April 13 and April 26, 2005. Services were performed by a Frontier Field Serviced skilled employee. All underground lines met the requirements of the mechanical integrity test. All above ground surface piping were visually inspected for leaks after the test pressure was stabilized. The summary report *Annual Sump and Five Year Underground Piping Inspection* conducted by Frontier is presented in Appendix D.

The underground and surface lines will be hydrostatically pressure tested in the first semi-annual (6 months) of 2010.

Containments and Sumps

All containments and sumps are inspected annually. The sumps are emptied, steam cleaned and dried. The sumps are filled with fresh water and the water level recorded. The sumps are measured every two hours for the remainder of the day and again the following morning. The *2009 Sump Summary Report* is presented in Appendix E.

11.0 Spill/Leak Prevention and Reporting Procedures (Contingency Plan)

The facility has a site specific Contingency Plan. A copy of the plan is located in Appendix F.

12.0 Site Characteristics

1. Surface Water Hydrology

The facility is located approximately three miles south of Maljamar, on the southerly slope of Taylor Hill, a rise about ½ mile to the north. The location is in an area of vegetation-stabilized sand dunes without any incised water drainages. Surface water percolates into the subsurface at a rate of 20 inches per hour. No water bodies, streams, or groundwater discharge sites were noted within a mile of the facility's perimeter. The nearest ephemeral watercourse is Taylor Draw, about 3.5 miles to the west. Taylor Draw flows southwest anastomosing before disappearing in the sand dunes.

A search of the State Engineer's New Mexico Water Rights Reporting System (NMWRRS) database did not identify any points of diversion within ¼-mile of the facility's perimeter. A copy of the database is attached in Appendix G.

2. Soil and Aquifer Information

The facility is located in the Baish Oil Field of the Pecos Slope, a broad, low eastward dip of about 50 to 100 feet per mile. East of the site is the Mescalero Arch, and south of the facility are the Querecho Plains. The eastern extents of the Pecos Slope are the extramontane Delaware and Midland Basins. This monocline is imprinted with other structural features, including the southern flank of the Artesia-Vacuum Arch.

The Artesia-Vacuum Arch extends from beneath the Pecos Valley fill to the west, extending through Townships 17 to 19 South, eastward to Range 35 East in Lea County (Kelley, 1971). The arch is covered primarily by post-Permian strata.

Surface soils are dominated by the eolian fine sand mapped by the Natural Resources Conservation Service (NRCS) as the Kermit soils and dune land, 0 to 12 percent slopes. This Quaternary eoilian and piedmont deposited soil has the landform characteristics of coppice dunes three to seven feet high, 25 to 50 in diameter, with a wind-formed elongation to the northeast.

A generalized cross-section prepared by Maxim Technologies, Inc. (Maxim) for the groundwater investigation indicates the surface of blow sand and a complex subsurface stratigraphy. A caliche layer bisecting the 60 foot thick sand is most likely an illuviation horizon relict from previously higher standing water table conditions. This sand is deposited unconformably over 30 to 50 feet of Triassic-aged Chinle green shale, which acts as a confining layer for an underlying sandstone unit. A "low TDS (total dissolved solids) – bicarbonate water" is density segregated from saline waters overlying Triassic Red Beds. The groundwater investigation at the facility is being conducted by ConocoPhillips, a prior owner, with Tetra Tech, Inc. currently performing investigation and remediation activities.

Groundwater flow is dominated by a mound northwest of the facility. Groundwater is encountered between 70 and 95 feet below ground surface (bgs) in two sandstone beds separated by a four-foot thick shale sequence. Regionally, groundwater should flow to the southwest towards the Pecos River, but the mound's influence has groundwater predominantly flowing towards the southeast at an

approximate gradient of 0.0119 to 0.0121 feet per foot. Background water TDS is generally below the 1,000 milligrams per liter New Mexico Water Quality Control Commission's standards.

3. Surface Flooding and Protection Measures

The facility is located in high permeability dune sands area. This location is not within a flood plain, and would not be subject to flooding even during extreme precipitation events.

13.0 Other Compliance Information

No other compliance information is available.

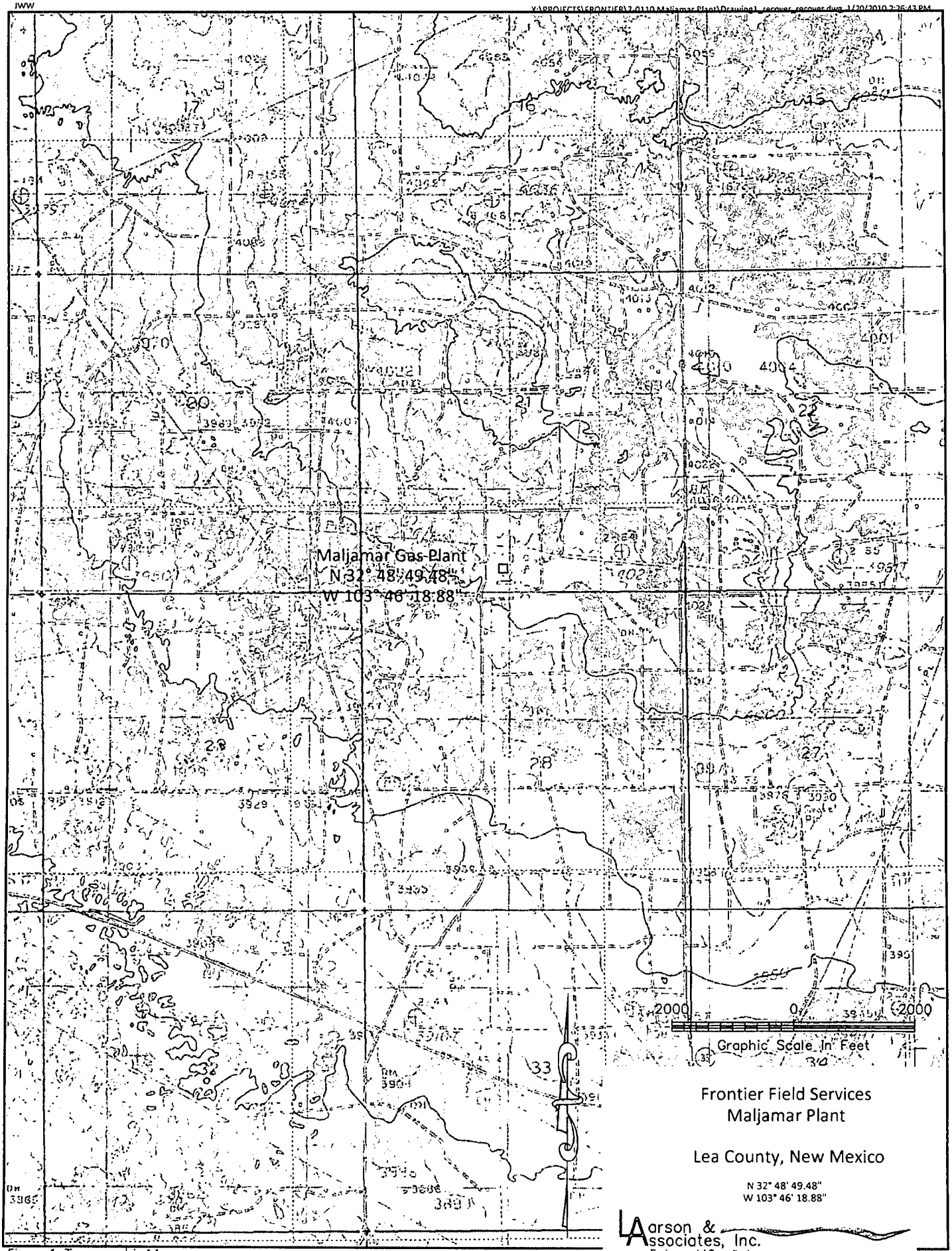
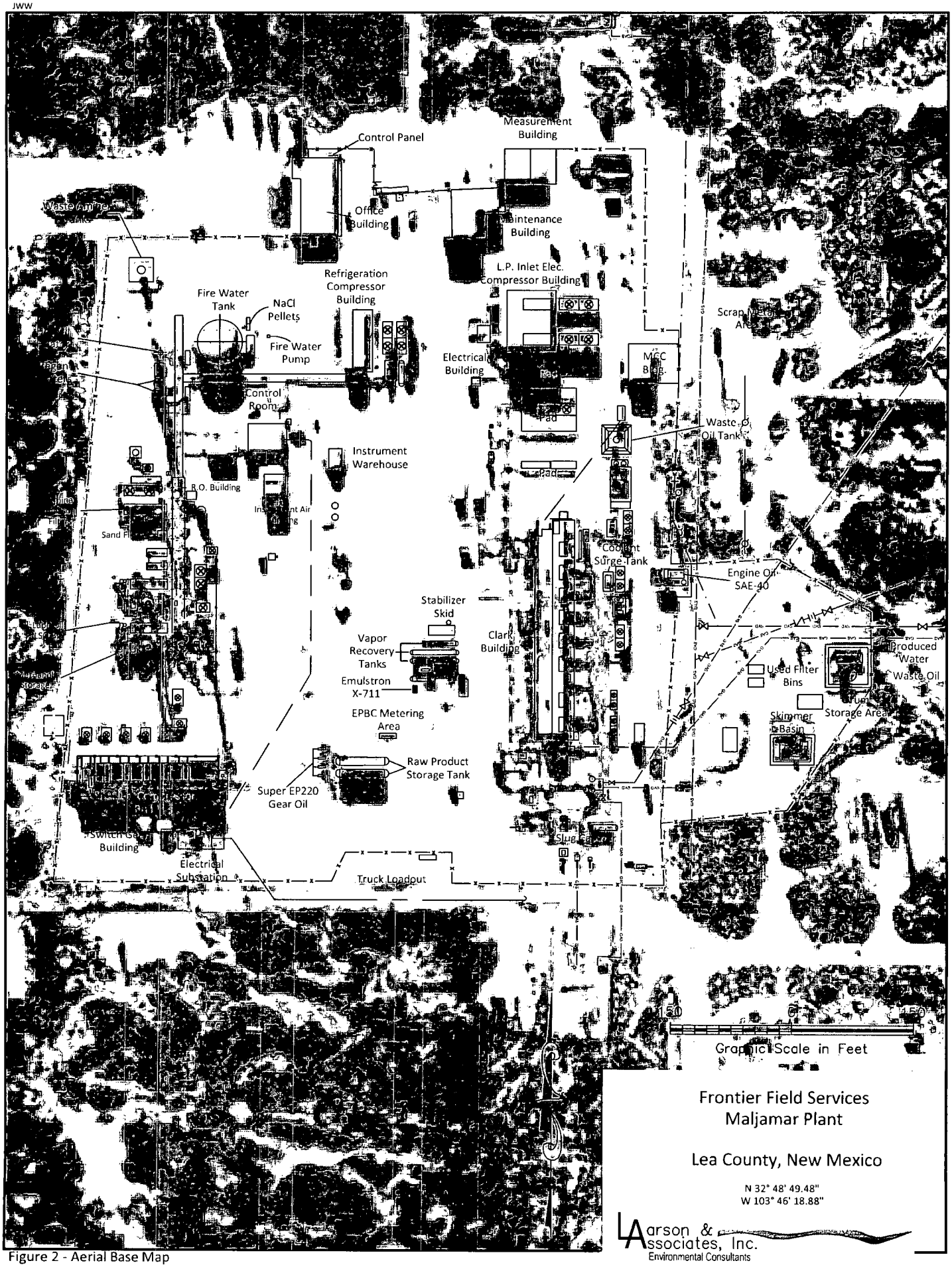


Figure 1- Topographic Map

JWW



Frontier Field Services
Maljamar Plant

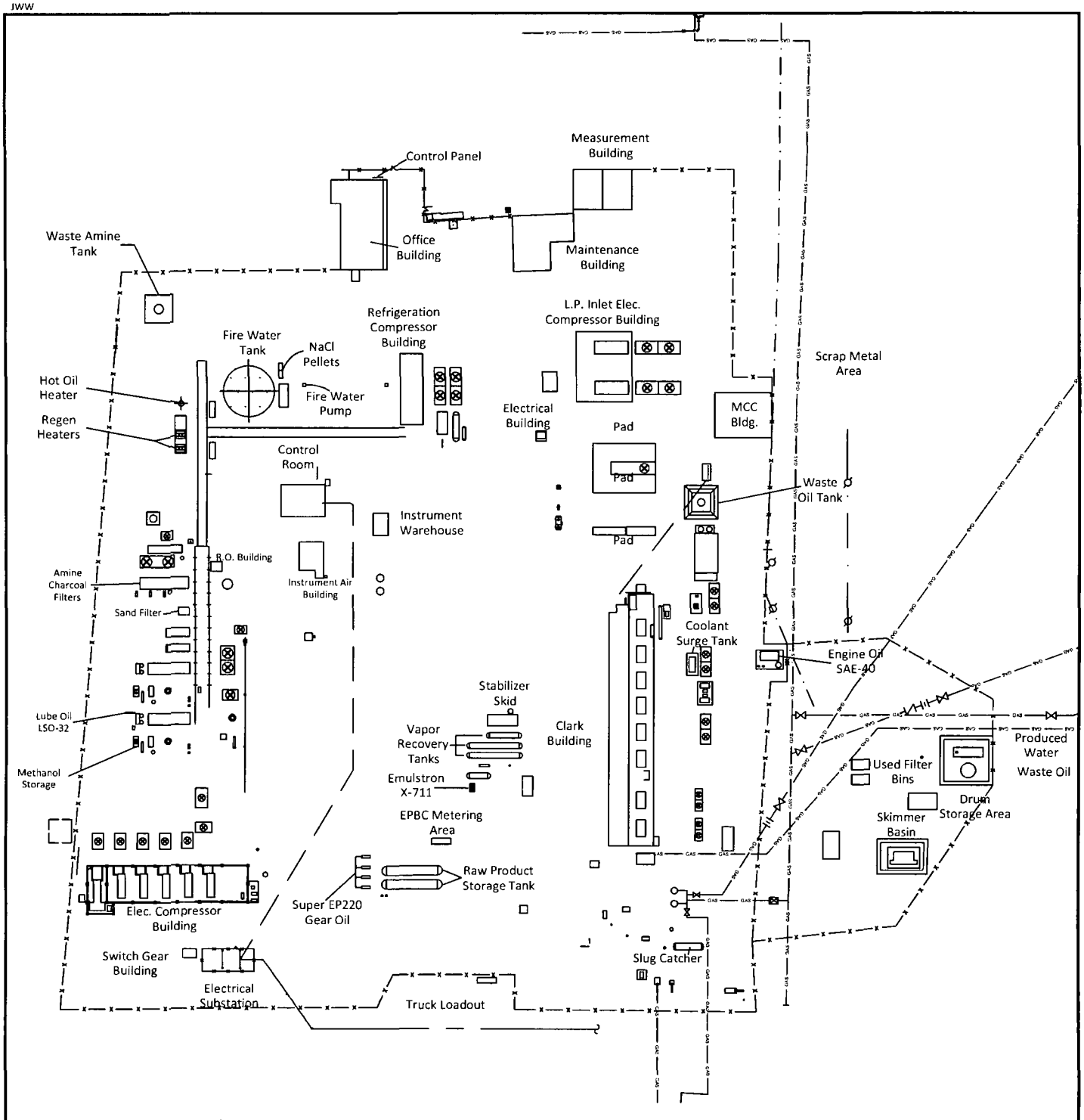
Lea County, New Mexico

N 32° 48' 49.48"
W 103° 46' 18.88"

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Base Map

JWW



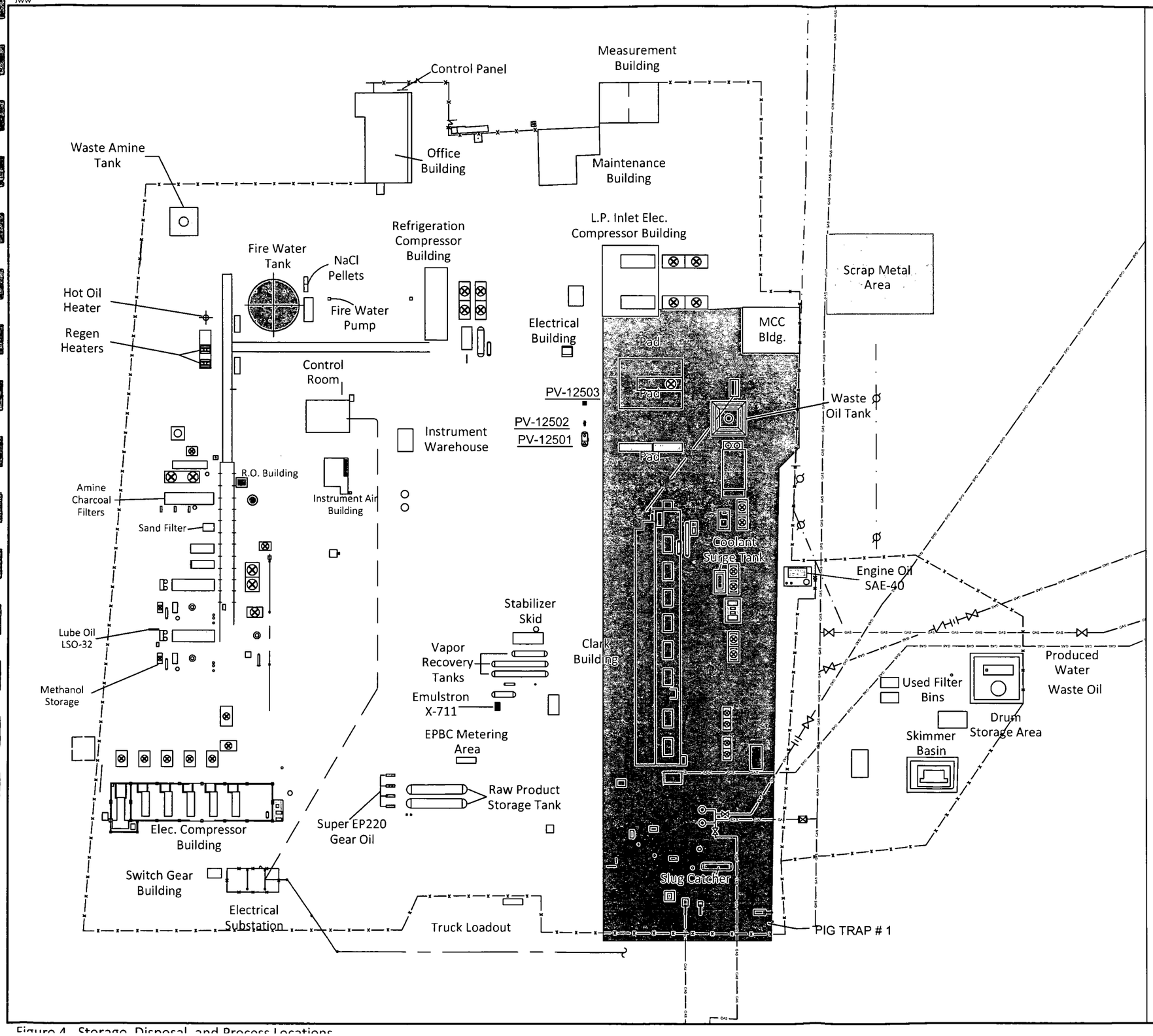
Frontier Field Services
Maljamar Plant

Lea County, New Mexico

N 32° 48' 49.48"
W 103° 46' 18.88"

Larson & Associates, Inc.
Environmental Consultants

Figure 3 - Facility Drawing



Storage, Disposal, & Process Locations List

- Process Area
- Clark Building Storage Area
- Waste Amine Tank
- R.O. Waste Water Tank
- Methanol Waste
- Methanol Storage
- Amine Storage Tank
- R.O. Building
- Engine Oil, Anti-Freeze, A-142 Solvent
- Gear Oil - Super EP220
- Emulsotron X-711
- Molecular Sieves Storage Area
- A-142 Solvent, F-20 Low pH, Anti- Freeze, Orton R-856 Corrosion Inhibitor
- Paint and Xylene
- Defoamer 1017E
- Scrap Metal Area

NOT TO SCALE

Frontier Field Services
Maljamar Plant

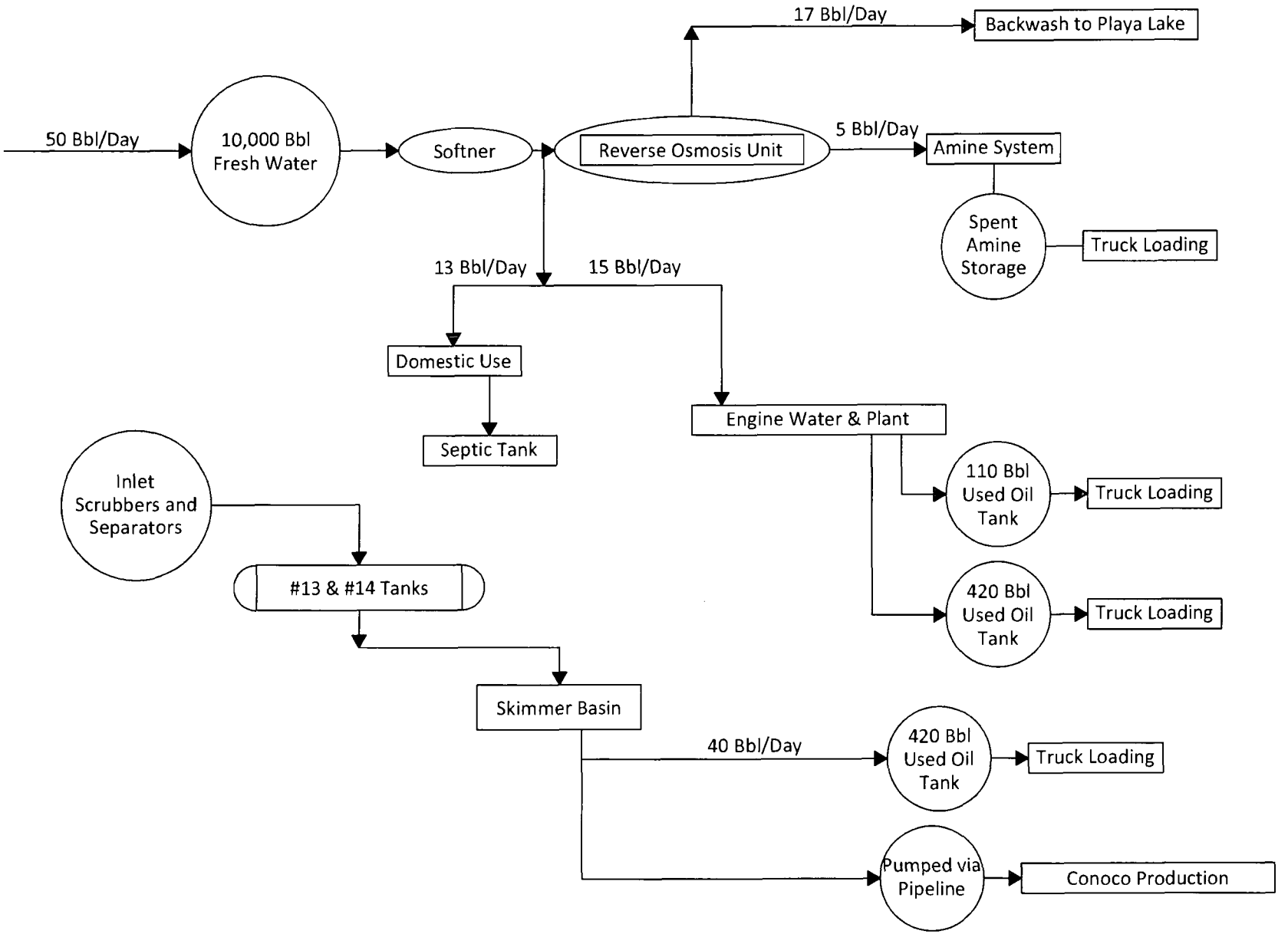
Lea County, New Mexico

N 32° 48' 49.48"
W 103° 46' 18.88"

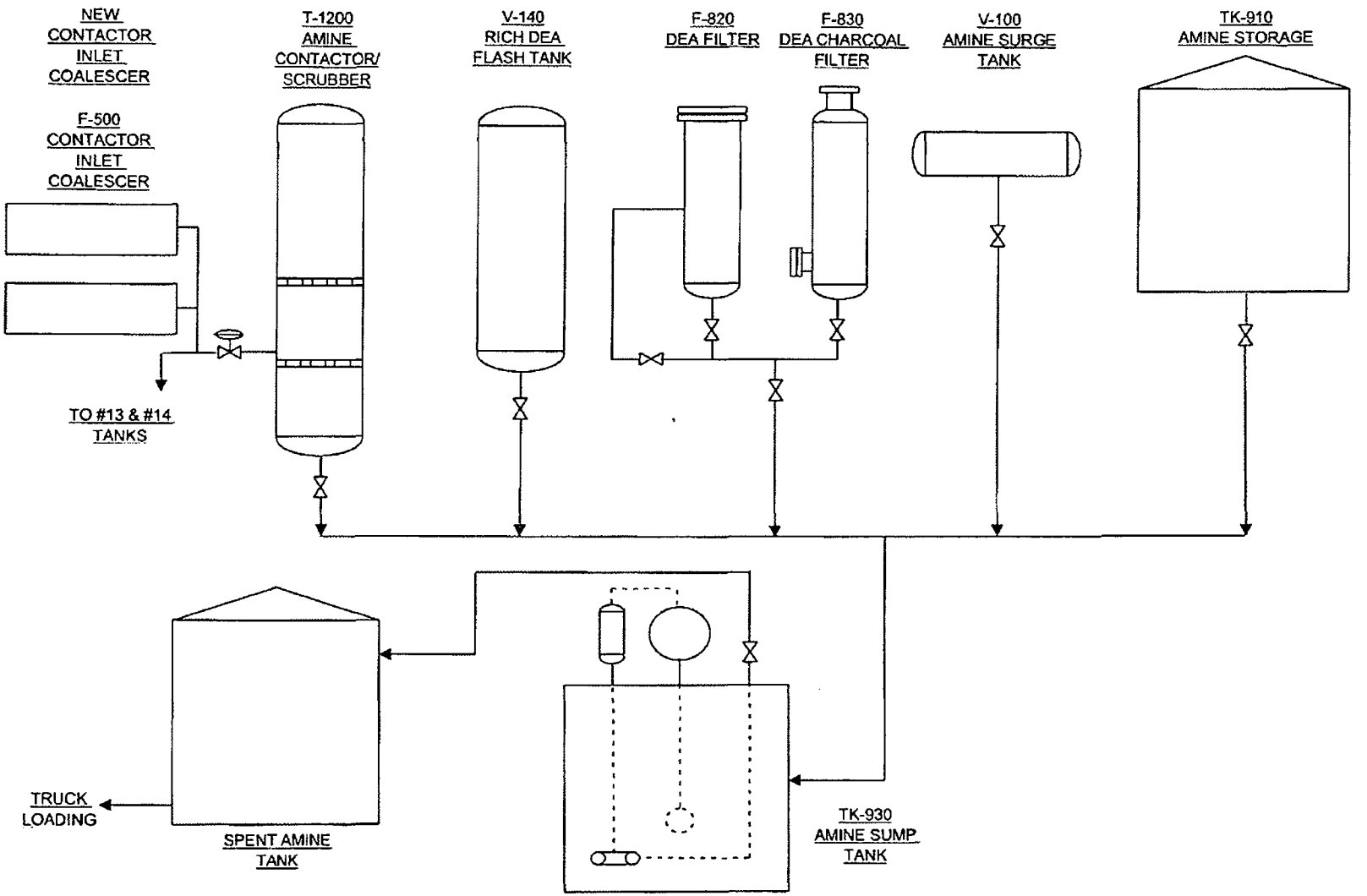
Larson & Associates, Inc.

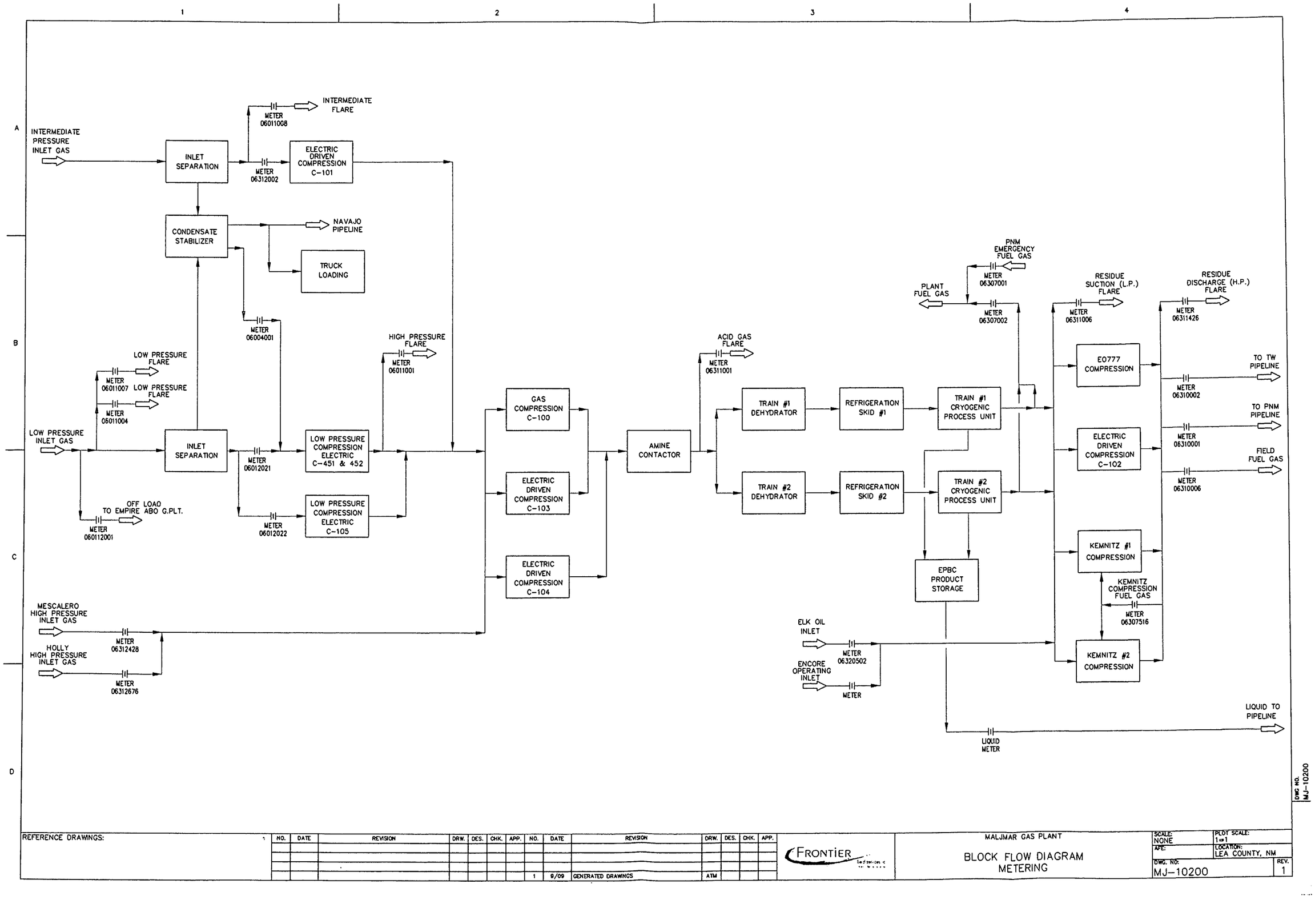
Figure 4 Storage, Disposal, and Process Locations

MALJAMAR GAS PLANT
WATER BALANCE



MALJAMAR GAS PLANT
AMINE WASTE CONTAINMENT & DRAINAGE SYSTEM





REFERENCE DRAWINGS:

NO.	DATE	REVISION	DRW.	DES.	CHK.	APP.
1	9/09	GENERATED DRAWINGS	ATM			

FRONTIER

MALJMAR GAS PLANT

BLOCK FLOW DIAGRAM METERING

SCALE: NONE	PLOT SCALE: 1=1
APE:	LOCATION: LEA COUNTY, NM
DWG. NO: MJ-10200	REV. 1

Analytical Report 350336

for

Frontier Field Services

Project Manager: Steve Maker

Maljamar Plant

05-NOV-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

05-NOV-09

Project Manager: **Steve Maker**
Frontier Field Services
1001 Conoco Road

Maljamar, NM 88264

Reference: XENCO Report No: **350336**
Maljamar Plant
Project Address: Maljamar, NM

Steve Maker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 350336. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 350336 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Sample Cross Reference 350336

Frontier Field Services, Maljamar, NM

Maljamar Plant

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Playa Lake Discharge	W	Oct-29-09 11:35		350336-001

CASE NARRATIVE

XENCO Laboratories

Client Name: Frontier Field Services
Project Name: Maljamar Plant

Project ID:
Work Order Number: 350336

Report Date: 05-NOV-09
Date Received: 10/29/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-780197 VOAs by SW-846 8260B
None

Batch: LBA-780354 TCLP Metals per ICP by SW846 6010B
None

Batch: LBA-780359 TCLP Mercury by SW 7470A
SW7470A

Batch 780359, Mercury recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 350336-001.
The Laboratory Control Sample for Mercury is within laboratory Control Limits

Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM

Project Name: Maljamar Plant

Project Id:

Contact: Steve Maker

Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm

Report Date: 05-NOV-09

Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	350336-001					
	Field Id:	Playa Lake Discharge					
	Depth:						
	Matrix:	WATER					
	Sampled:	Oct-29-09 11:35					
TCLP Mercury by SW 7470A	*Extracted:*	Nov-04-09 11:00					
	Analyzed:	Nov-05-09 11:44					
	Units/RL:	mg/L RL					
Mercury		ND 0.0001					
TCLP Metals per ICP by SW846 6010B	*Extracted:*	Nov-03-09 10:00					
	Analyzed:	Nov-04-09 13:18					
	Units/RL:	mg/L RL					
Antimony		ND 0.010					
Arsenic		ND 0.010					
Barium		0.128 0.010					
Beryllium		ND 0.004					
Cadmium		ND 0.005					
Chromium		ND 0.005					
Lead		ND 0.012					
Nickel		ND 0.010					
Selenium		ND 0.010					
Silver		ND 0.004					

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM

Project Name: Maljamar Plant

Project Id:
Contact: Steve Maker
Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm
Report Date: 05-NOV-09
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	350336-001					
	Field Id:	Playa Lake Discharge					
	Depth:						
	Matrix:	WATER					
	Sampled:	Oct-29-09 11:35					
VOAs by SW-846 8260B	*Extracted:*	Nov-03-09 10:10					
SUB: T104704295-08-TX	*Analyzed:*	Nov-03-09 12:47					
	Units/RL:	mg/L RL					
Benzene		ND 0.005					
Bromobenzene		ND 0.005					
Bromochloromethane		ND 0.005					
Bromodichloromethane		ND 0.005					
Bromoform		ND 0.005					
Bromomethane		ND 0.005					
MTBE		ND 0.005					
n-Butylbenzene		ND 0.005					
Sec-Butylbenzene		ND 0.005					
tert-Butylbenzene		ND 0.005					
Carbon Tetrachloride		ND 0.005					
Chlorobenzene		ND 0.005					
Chloroethane		ND 0.010					
Chloroform		ND 0.005					
Chloromethane		ND 0.010					
2-Chlorotoluene		ND 0.005					
4-Chlorotoluene		ND 0.005					
p-Cymene (p-Isopropyltoluene)		ND 0.005					
Dibromochloromethane		ND 0.005					
1,2-Dibromo-3-Chloropropane		ND 0.005					
1,2-Dibromoethane		ND 0.005					
Dibromomethane		ND 0.005					
1,2-Dichlorobenzene		ND 0.005					
1,3-Dichlorobenzene		ND 0.005					
1,4-Dichlorobenzene		ND 0.005					

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM

Project Name: Maljamar Plant

Project Id:
Contact: Steve Maker
Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm
Report Date: 05-NOV-09
Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	350336-001					
	Field Id:	Playa Lake Discharge					
	Depth:						
	Matrix:	WATER					
	Sampled:	Oct-29-09 11:35					
VOAs by SW-846 8260B	*Extracted:*	Nov-03-09 10:10					
SUB: T104704295-08-TX	*Analyzed:*	Nov-03-09 12:47					
	Units/RL:	mg/L RL					
Dichlorodifluoromethane		ND 0.005					
1,1-Dichloroethane		ND 0.005					
1,2-Dichloroethane		ND 0.005					
1,1-Dichloroethene		ND 0.005					
cis-1,2-Dichloroethene		ND 0.005					
trans-1,2-dichloroethene		ND 0.005					
1,2-Dichloropropane		ND 0.005					
1,3-Dichloropropane		ND 0.005					
2,2-Dichloropropane		ND 0.005					
1,1-Dichloropropene		ND 0.005					
cis-1,3-Dichloropropene		ND 0.005					
trans-1,3-dichloropropene		ND 0.005					
Ethylbenzene		ND 0.005					
Hexachlorobutadiene		ND 0.005					
isopropylbenzene		ND 0.005					
Methylene Chloride		ND 0.005					
Naphthalene		ND 0.010					
n-Propylbenzene		ND 0.005					
Styrene		ND 0.005					
1,1,1,2-Tetrachloroethane		ND 0.005					
1,1,2,2-Tetrachloroethane		ND 0.005					
Tetrachloroethylene		ND 0.005					
Toluene		ND 0.005					
1,2,3-Trichlorobenzene		ND 0.005					
1,2,4-Trichlorobenzene		ND 0.005					

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM

Project Name: Maljamar Plant

Project Id:

Contact: Steve Maker

Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm

Report Date: 05-NOV-09

Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	350336-001					
	Field Id:	Playa Lake Discharge					
	Depth:						
	Matrix:	WATER					
	Sampled:	Oct-29-09 11:35					
VOAs by SW-846 8260B	*Extracted:*	Nov-03-09 10:10					
SUB: T104704295-08-TX	*Analyzed:*	Nov-03-09 12:47					
	Units/RL:	mg/L	RL				
1,1,1-Trichloroethane		ND	0.005				
1,1,2-Trichloroethane		ND	0.005				
Trichloroethene		ND	0.005				
Trichlorofluoromethane		ND	0.005				
1,2,3-Trichloropropane		ND	0.005				
1,2,4-Trimethylbenzene		ND	0.005				
1,3,5-Trimethylbenzene		ND	0.005				
o-Xylene		ND	0.005				
m,p-Xylenes		ND	0.010				
Vinyl Chloride		ND	0.002				

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Maljamar Plant

Work Orders : 350336,

Project ID:

Lab Batch #: 780197 **Sample:** 542281-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/03/09 10:07

VOAs by SW-846 8260B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0515	0.0500	103	74-124	
Dibromofluoromethane	0.0488	0.0500	98	75-131	
1,2-Dichloroethane-D4	0.0503	0.0500	101	63-144	
Toluene-D8	0.0489	0.0500	98	80-117	

Lab Batch #: 780197 **Sample:** 542281-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/03/09 10:54

VOAs by SW-846 8260B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0455	0.0500	91	74-124	
Dibromofluoromethane	0.0475	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0474	0.0500	95	63-144	
Toluene-D8	0.0513	0.0500	103	80-117	

Lab Batch #: 780197 **Sample:** 350336-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/03/09 12:47

VOAs by SW-846 8260B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0529	0.0500	106	74-124	
Dibromofluoromethane	0.0512	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0517	0.0500	103	63-144	
Toluene-D8	0.0510	0.0500	102	80-117	

Lab Batch #: 780197 **Sample:** 350360-004 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/03/09 14:09

VOAs by SW-846 8260B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0511	0.0500	102	74-124	
Dibromofluoromethane	0.0482	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0513	0.0500	103	63-144	
Toluene-D8	0.0512	0.0500	102	80-117	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Maljamar Plant

Work Orders : 350336,

Project ID:

Lab Batch #: 780197 **Sample:** 350360-004 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 11/03/09 14:30

VOAs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0530	0.0500	106	74-124	
Dibromofluoromethane	0.0474	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0515	0.0500	103	63-144	
Toluene-D8	0.0489	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Blank Spike Recovery

ACCREDITED IN ACCORDANCE WITH nelac

Project Name: Maljamar Plant

Work Order #: 350336 **Project ID:**

Lab Batch #: 780197 **Sample:** 542281-1-BKS **Matrix:** Water

Date Analyzed: 11/03/2009 **Date Prepared:** 11/03/2009 **Analyst:** JEA

Reporting Units: mg/L **Batch #:** 1

VOAs by SW-846 8260B Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.050	0.051	102	66-142	
Bromobenzene	ND	0.050	0.046	92	60-130	
Bromochloromethane	ND	0.050	0.053	106	73-125	
Bromodichloromethane	ND	0.050	0.052	104	75-125	
Bromoform	ND	0.050	0.049	98	75-125	
Bromomethane	ND	0.050	0.052	104	70-130	
MTBE	ND	0.050	0.054	108	75-125	
n-Butylbenzene	ND	0.050	0.048	96	75-125	
Sec-Butylbenzene	ND	0.050	0.047	94	75-125	
tert-Butylbenzene	ND	0.050	0.047	94	75-125	
Carbon Tetrachloride	ND	0.050	0.046	92	62-125	
Chlorobenzene	ND	0.050	0.044	88	60-133	
Chloroethane	ND	0.050	0.052	104	70-130	
Chloroform	ND	0.050	0.054	108	74-125	
Chloromethane	ND	0.050	0.049	98	70-130	
2-Chlorotoluene	ND	0.050	0.045	90	73-125	
4-Chlorotoluene	ND	0.050	0.048	96	74-125	
p-Cymene (p-Isopropyltoluene)	ND	0.050	0.048	96	75-125	
Dibromochloromethane	ND	0.050	0.045	90	60-130	
1,2-Dibromo-3-Chloropropane	ND	0.050	0.055	110	59-125	
1,2-Dibromoethane	ND	0.050	0.050	100	73-125	
Dibromomethane	ND	0.050	0.055	110	69-127	
1,2-Dichlorobenzene	ND	0.050	0.046	92	75-125	
1,3-Dichlorobenzene	ND	0.050	0.046	92	75-125	
1,4-Dichlorobenzene	ND	0.050	0.046	92	75-125	
Dichlorodifluoromethane	ND	0.050	0.052	104	70-130	
1,1-Dichloroethane	ND	0.050	0.052	104	60-130	
1,2-Dichloroethane	ND	0.050	0.056	112	68-127	
1,1-Dichloroethene	ND	0.050	0.050	100	59-172	
cis-1,2-Dichloroethene	ND	0.050	0.054	108	60-130	
trans-1,2-dichloroethene	ND	0.050	0.052	104	60-130	
1,2-Dichloropropane	ND	0.050	0.055	110	74-125	
1,3-Dichloropropane	ND	0.050	0.054	108	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Blank Spike Recovery

Project Name: Maljamar Plant

Work Order #: 350336 **Project ID:**

Lab Batch #: 780197 **Sample:** 542281-1-BKS **Matrix:** Water

Date Analyzed: 11/03/2009 **Date Prepared:** 11/03/2009 **Analyst:** JEA

Reporting Units: mg/L **Batch #:** 1

VOAs by SW-846 8260B Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
2,2-Dichloropropane	ND	0.050	0.052	104	60-140	
1,1-Dichloropropene	ND	0.050	0.050	100	75-125	
cis-1,3-Dichloropropene	ND	0.050	0.051	102	60-140	
trans-1,3-dichloropropene	ND	0.050	0.050	100	66-125	
Ethylbenzene	ND	0.050	0.044	88	75-125	
Hexachlorobutadiene	ND	0.050	0.048	96	75-125	
isopropylbenzene	ND	0.050	0.045	90	75-125	
Methylene Chloride	ND	0.050	0.060	120	75-125	
Naphthalene	ND	0.050	0.049	98	65-135	
n-Propylbenzene	ND	0.050	0.045	90	75-125	
Styrene	ND	0.050	0.047	94	60-130	
1,1,1,2-Tetrachloroethane	ND	0.050	0.046	92	75-125	
1,1,2,2-Tetrachloroethane	ND	0.050	0.043	86	50-130	
Tetrachloroethylene	ND	0.050	0.044	88	60-130	
Toluene	ND	0.050	0.043	86	59-139	
1,2,3-Trichlorobenzene	ND	0.050	0.049	98	75-137	
1,2,4-Trichlorobenzene	ND	0.050	0.049	98	75-135	
1,1,1-Trichloroethane	ND	0.050	0.052	104	75-125	
1,1,2-Trichloroethane	ND	0.050	0.052	104	75-127	
Trichloroethene	ND	0.050	0.052	104	62-137	
Trichlorofluoromethane	ND	0.050	0.050	100	67-125	
1,2,3-Trichloropropane	ND	0.050	0.045	90	75-125	
1,2,4-Trimethylbenzene	ND	0.050	0.048	96	75-125	
1,3,5-Trimethylbenzene	ND	0.050	0.047	94	70-125	
o-Xylene	ND	0.050	0.046	92	75-125	
m,p-Xylenes	ND	0.100	0.092	92	75-125	
Vinyl Chloride	ND	0.050	0.049	98	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

BS / BSD Recoveries

Project Name: Maljamar Plant

Work Order #: 350336 **Project ID:**

Analyst: LATCOR **Date Prepared:** 11/04/2009 **Date Analyzed:** 11/05/2009

Lab Batch ID: 780359 **Sample:** 542392-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

TCLP Mercury by SW 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Mercury	ND	0.0010	0.0010	100	0.001	0.0009	90	11	75-125	20	

Analyst: LATCOR **Date Prepared:** 11/03/2009 **Date Analyzed:** 11/04/2009

Lab Batch ID: 780354 **Sample:** 542367-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

TCLP Metals per ICP by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Antimony	ND	1.20	1.12	93	1.2	1.08	90	4	75-125	25	
Arsenic	ND	0.800	0.693	87	0.8	0.675	84	3	75-125	25	
Barium	ND	0.150	0.151	101	0.15	0.148	99	2	75-125	25	
Beryllium	ND	0.150	0.158	105	0.15	0.157	105	1	75-125	25	
Cadmium	ND	0.150	0.167	111	0.15	0.161	107	4	75-125	25	
Chromium	ND	0.150	0.149	99	0.15	0.144	96	3	75-125	25	
Lead	ND	1.10	0.928	84	1.1	0.904	82	3	75-125	25	
Nickel	ND	0.500	0.473	95	0.5	0.461	92	3	75-125	25	
Selenium	ND	0.300	0.325	108	0.3	0.328	109	1	75-125	25	
Silver	ND	0.050	0.051	102	0.05	0.049	98	4	75-125	25	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Maljamar Plant

Work Order #: 350336 **Project ID:**

Lab Batch ID: 780359 **QC- Sample ID:** 350336-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/05/2009 **Date Prepared:** 11/04/2009 **Analyst:** LATCOR

Reporting Units: mg/L

TCLP Mercury by SW 7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	ND	0.0010	0.0007	70	0.0010	0.0007	70	0	75-125	20	X

Lab Batch ID: 780354 **QC- Sample ID:** 350336-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/04/2009 **Date Prepared:** 11/03/2009 **Analyst:** LATCOR

Reporting Units: mg/L

TCLP Metals per ICP by SW846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Antimony	ND	1.20	1.06	88	1.20	1.06	88	0	75-125	25	
Arsenic	ND	0.800	0.685	86	0.800	0.686	86	0	75-125	25	
Barium	0.128	0.150	0.301	115	0.150	0.291	109	3	75-125	25	
Beryllium	ND	0.150	0.153	102	0.150	0.150	100	2	75-125	25	
Cadmium	ND	0.150	0.160	107	0.150	0.158	105	1	75-125	25	
Chromium	ND	0.150	0.138	92	0.150	0.136	91	1	75-125	25	
Lead	ND	1.10	0.874	79	1.10	0.862	78	1	75-125	25	
Nickel	ND	0.500	0.425	85	0.500	0.421	84	1	75-125	25	
Selenium	ND	0.300	0.295	98	0.300	0.290	97	2	75-125	25	
Silver	ND	0.050	0.048	96	0.050	0.046	92	4	75-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Maljamar Plant

Work Order # : 350336 **Project ID:**

Lab Batch ID: 780197 **QC- Sample ID:** 350360-004 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/03/2009 **Date Prepared:** 11/03/2009 **Analyst:** JEA

Reporting Units: mg/L

VOAs by SW-846 8260B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.050	0.046	92	0.050	0.049	98	6	66-142	21	
Bromobenzene	ND	0.050	0.042	84	0.050	0.045	90	7	60-130	20	
Bromochloromethane	ND	0.050	0.047	94	0.050	0.053	106	12	73-125	20	
Bromodichloromethane	ND	0.050	0.049	98	0.050	0.052	104	6	75-125	20	
Bromoform	ND	0.050	0.043	86	0.050	0.049	98	13	75-125	20	
Bromomethane	ND	0.050	0.048	96	0.050	0.047	94	2	70-130	20	
MTBE	ND	0.050	0.049	98	0.050	0.052	104	6	75-125	20	
n-Butylbenzene	ND	0.050	0.041	82	0.050	0.044	88	7	75-125	20	
Sec-Butylbenzene	ND	0.050	0.040	80	0.050	0.044	88	10	75-125	20	
tert-Butylbenzene	ND	0.050	0.041	82	0.050	0.043	86	5	75-125	20	
Carbon Tetrachloride	ND	0.050	0.042	84	0.050	0.045	90	7	62-125	20	
Chlorobenzene	ND	0.050	0.042	84	0.050	0.043	86	2	60-133	21	
Chloroethane	ND	0.050	0.044	88	0.050	0.046	92	4	70-130	20	
Chloroform	ND	0.050	0.048	96	0.050	0.051	102	6	74-125	20	
Chloromethane	ND	0.050	0.041	82	0.050	0.042	84	2	70-130	20	
2-Chlorotoluene	ND	0.050	0.041	82	0.050	0.045	90	9	73-125	20	
4-Chlorotoluene	ND	0.050	0.042	84	0.050	0.046	92	9	74-125	20	
p-Cymene (p-Isopropyltoluene)	ND	0.050	0.041	82	0.050	0.045	90	9	75-125	20	
Dibromochloromethane	ND	0.050	0.043	86	0.050	0.045	90	5	60-130	20	
1,2-Dibromo-3-Chloropropane	ND	0.050	0.051	102	0.050	0.054	108	6	59-125	28	
1,2-Dibromoethane	ND	0.050	0.049	98	0.050	0.051	102	4	73-125	20	
Dibromomethane	ND	0.050	0.050	100	0.050	0.056	112	11	69-127	23	
1,2-Dichlorobenzene	ND	0.050	0.042	84	0.050	0.046	92	9	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Maljamar Plant

Work Order #: 350336 **Project ID:**

Lab Batch ID: 780197 **QC- Sample ID:** 350360-004 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/03/2009 **Date Prepared:** 11/03/2009 **Analyst:** JEA

Reporting Units: mg/L

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,3-Dichlorobenzene	ND	0.050	0.041	82	0.050	0.044	88	7	75-125	20	
1,4-Dichlorobenzene	ND	0.050	0.040	80	0.050	0.044	88	10	75-125	20	
Dichlorodifluoromethane	ND	0.050	0.044	88	0.050	0.045	90	2	70-130	23	
1,1-Dichloroethane	ND	0.050	0.045	90	0.050	0.047	94	4	60-130	20	
1,2-Dichloroethane	ND	0.050	0.051	102	0.050	0.054	108	6	68-127	20	
1,1-Dichloroethene	ND	0.050	0.042	84	0.050	0.045	90	7	59-172	22	
cis-1,2-Dichloroethene	ND	0.050	0.047	94	0.050	0.049	98	4	60-130	20	
trans-1,2-dichloroethene	ND	0.050	0.045	90	0.050	0.046	92	2	60-130	20	
1,2-Dichloropropane	ND	0.050	0.050	100	0.050	0.051	102	2	74-125	20	
1,3-Dichloropropane	ND	0.050	0.048	96	0.050	0.053	106	10	75-125	20	
2,2-Dichloropropane	ND	0.050	0.045	90	0.050	0.047	94	4	60-140	20	
1,1-Dichloropropene	ND	0.050	0.044	88	0.050	0.045	90	2	75-125	20	
cis-1,3-Dichloropropene	ND	0.050	0.045	90	0.050	0.051	102	13	60-140	20	
trans-1,3-dichloropropene	ND	0.050	0.049	98	0.050	0.052	104	6	66-125	20	
Ethylbenzene	ND	0.050	0.041	82	0.050	0.042	84	2	75-125	20	
Hexachlorobutadiene	ND	0.050	0.039	78	0.050	0.044	88	12	75-125	20	
isopropylbenzene	ND	0.050	0.041	82	0.050	0.042	84	2	75-125	20	
Methylene Chloride	ND	0.050	0.048	96	0.050	0.049	98	2	75-125	35	
Naphthalene	ND	0.050	0.040	80	0.050	0.045	90	12	65-135	20	
n-Propylbenzene	ND	0.050	0.040	80	0.050	0.043	86	7	75-125	20	
Styrene	ND	0.050	0.042	84	0.050	0.043	86	2	60-130	51	
1,1,1,2-Tetrachloroethane	ND	0.050	0.045	90	0.050	0.046	92	2	75-125	20	
1,1,2,2-Tetrachloroethane	ND	0.050	0.040	80	0.050	0.043	86	7	50-130	31	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Form 3 - MS / MSD Recoveries

Project Name: Maljamar Plant

Work Order # : 350336 **Project ID:**

Lab Batch ID: 780197 **QC- Sample ID:** 350360-004 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 11/03/2009 **Date Prepared:** 11/03/2009 **Analyst:** JEA

Reporting Units: mg/L

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Tetrachloroethylene	ND	0.050	0.040	80	0.050	0.041	82	2	60-130	20	
Toluene	ND	0.050	0.040	80	0.050	0.042	84	5	59-139	21	
1,2,3-Trichlorobenzene	ND	0.050	0.042	84	0.050	0.045	90	7	75-137	20	
1,2,4-Trichlorobenzene	ND	0.050	0.041	82	0.050	0.043	86	5	75-135	20	
1,1,1-Trichloroethane	ND	0.050	0.045	90	0.050	0.046	92	2	75-125	20	
1,1,2-Trichloroethane	ND	0.050	0.046	92	0.050	0.051	102	10	75-127	20	
Trichloroethene	ND	0.050	0.044	88	0.050	0.047	94	7	62-137	24	
Trichlorofluoromethane	ND	0.050	0.045	90	0.050	0.046	92	2	67-125	20	
1,2,3-Trichloropropane	ND	0.050	0.043	86	0.050	0.046	92	7	75-125	20	
1,2,4-Trimethylbenzene	ND	0.050	0.042	84	0.050	0.046	92	9	75-125	20	
1,3,5-Trimethylbenzene	ND	0.050	0.042	84	0.050	0.045	90	7	70-125	20	
o-Xylene	ND	0.050	0.042	84	0.050	0.042	84	0	75-125	20	
m,p-Xylenes	ND	0.100	0.084	84	0.100	0.087	87	4	75-125	20	
Vinyl Chloride	ND	0.050	0.040	80	0.050	0.043	86	7	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Steve Maker
Company Name: Frontier Field Services LLC
Company Address: 1001 Conoco Road
City/State/Zip: Maljamar, NM
Telephone No: Fax No:
Sampler Signature: Bill Rehmann e-mail:

Project Name: Maljamar Plant
Project #:
Project Loc: Maljamar, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 350336

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice (32 oz WMG)	HNO_3	HCl (40 ml vial)	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: 11 / TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Playa Lake Discharge			10-29-09	11:35		4	X		3				1		NP					X	X							X

Special Instructions: Note: 6 HRS 290 miles

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Bill Rehmann	Date 10.29.09	Time 16:30	Received by ELOT: Andria Sam	Date 10.29.09	Time 16:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Frontier Field Services

Date/ Time: 10.29.09 16:30

Lab ID # : 390336

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.5 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	(Yes)	No	Not Applicable	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: VOC subbed to Xenco-Dallas

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Water Analysis Report

Continental Products of Texas

"Specialty Oilfield & Water Chemical Solutions"
100 Industrial Avenue PO Box 3627 Odessa TX 79760 432-337-4681 800-592-4684
www.cptonline.com

Company: Frontier Field Services **To:**
Plant: Majamar **Location:**
Date Sampled: 5/21/2008

Analysis Number	**47958**	**47959**			
Source of Sample	Produced Water #2	Produced Water #3			
	mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*
Alkalinity, CaCO3					
Total	2998	2505			
Phenolphthalein	1476	1140			
Free Mineral Acidity					
Total Hardness, CaCO3	0	0			
Calcium (Ca)	0	0			
Magnesium (Mg)	0	0			
Ions					
Chloride (Cl)	161	213			
Sulfate (SO4)	110	48			
Iron (Fe)	1.98	1.00			
Silica (SiO2)	<1	1			
Copper (Cu)					
Conductivity	4347	4109			
pH	8.72	8.71			
Phosphate					
Total (PO4)					
Ortho (PO4)					
Miscellaneous					
Sodium Sulfite (NaSO3)					
Causticity (OH)					
Oil & Grease					
Nitrite (NO_2)					
Freeze Point, °F					
Antipol 310					
Tag Polymer					

Comments:

MALJAMAR GAS PLANT
STORMWATER RUNOFF PLAN

PREPARED FOR:
CONOCO INCORPORATED
P.O. BOX 90
MALJAMAR, NEW MEXICO 88260

PREPARED BY:
MAXIM TECHNOLOGIES
10601 LOMAS, SUITE 106
ALBUQUERQUE, NEW MEXICO 87112

SEPTEMBER 2000

1.0 INTRODUCTION

The New Mexico Energy, Minerals, and Natural Resources Department's Oil Conservation Division (OCD) requested that Conoco Inc.'s Maljamar Gas Plant (Maljamar) prepare and submit a stormwater runoff plan addressing potential stormwater issues at the Maljamar site. Maljamar is exempt from stormwater permitting under the CWA NPDES permit, and is not required to have a Stormwater Pollution Prevention Plan (SWPPP). This plan discusses Maljamar's site drainage scenario and outlines actions taken to minimize potential for contamination of and erosion by surface water runoff.

2.0 SITE DESCRIPTION

Conoco, Inc. has operated the Maljamar Gas Plant since 1960. The site is in Lea County, New Mexico, about three miles south of Maljamar off Farm Road 126. The plant processes 40 to 60 million cubic feet of natural gas per day and produces gas liquids (ethane, propane, butane, and condensate). The products are sold and transported off site by pipeline.

2.1 Facilities

Site facilities include several buildings, tanks, and uncovered equipment skids (Figure MJ2001). Major structures include:

- two compressor buildings;
- a refrigerator compressor building;
- controls building;
- maintenance shop;
- warehouse; and
- office building.

Some equipment is on unroofed skids, including:

- refrigeration equipment;
- demethanizers;
- raw product tanks;
- vapor recovery tanks;
- an LP gas tank;
- a sludge tank
- an amine skid;
- assorted control panels;
- assorted chemical storage areas.

2.2 Roads

The site surface is composed primarily of a silty sand soil. Most of the site is accessible to light vehicles, but actual graded roadways are limited. There are no paved roads inside the fenced area controlled by Conoco.

2.3 Buildings

The buildings at Maljamar comprise less than 20 percent of the total area of the site, and as such should have minimal effect on site runoff patterns.

2.4 Containment Areas

Containment is provided for all chemical, fuel, and other reagent storage areas on site. All chemical storage drums are stored on concrete pads with curbs to control spills. The majority of the aboveground saddle tanks are mounted on curbed concrete containment slabs while some are equipped with fiberglass containment tanks. All other tanks on site are inside containment berms.

Compressor skids at Maljamar have been designed to contain engine oil spills and leaks as well as other chemicals or reagents used at the compressors.

2.5 Reagents Stored and Used on Site

Chemicals and other materials stored and used on the Maljamar plant site include the following:

- Diethanolomine;
- Methanol;
- Liquid Antifoam;
- Detergents;
- F-20 Low pH;
- Stoddard solvent;
- LCS-20;
- Emulsotron XY-409;
- Elmar 3000 engine oil;
- Elmar ashless engine oil;
- Kerosene;
- Antifreeze;
- Diesel;
- Turbine oil.

Please refer to the plot plan and chemical inventory (Figure MJ20001). The plot plan includes equipment location as well as location of reagent consumption on the site for each of the above mentioned chemicals.

2.6 Local Weather and Storm Information

The Maljamar site is considered semi-arid to arid, and receives about 12 to 13 inches of precipitation annually, mostly in the form of rain. The 100 year – 24 hour storm for the site is approximately 5 inches (NOAA Atlas 2, Vol. IV., U.S. Department of Commerce, National Oceanic and Atmospheric Administration).

3.0 STORMWATER DRAINAGE

The Maljamar site grades gently from northeast to southwest. The site elevation near the north property fence is 4017 feet above mean sea level (amsl). The elevation near the property fence west of the Clark Compressor building is 4004 feet amsl, resulting in an average grade across the site of approximately 1.4 percent. The steepest pitch on site is southwest of the Clark Compressor building, where the grade runs 6 percent for about 60 feet.

The soil in the Maljamar area is a silty sand with relatively high permeability. It also is somewhat non-cohesive and contains a low percentage of coarse fragments near the surface. While the soil will absorb some precipitation and pass it as interflow, high-intensity, short duration storms could produce sediment transport.

Over most of the Maljamar site, the 100 year-24 hour storm should result in manageable sheet flow, with limited tendency to produce rilling or gullies. Steeper areas near the compressor building on the northeast corner of the site and near the Clark Compressor could result in erosive action during a high intensity, short-duration storm event.

Potential for discharge of surface water runoff from Maljamar to a Water of the U.S. is limited. There are no surface water features (streams, wetlands, springs, or seeps) within one mile of the Maljamar site.

4.0 STORMWATER MANAGEMENT

Stormwater management at Maljamar is accomplished through installation and management of spill and leak containment structures at key points on the site. All chemical storage and usage points on the plant site have been equipped with containment structures. Sumps are maintained regularly. Inspection and preventive maintenance of the containment structures at Maljamar are critical to ensuring proper

operation of the system. Visual inspections of the entire site are conducted at least once per shift (twice per 24 hour period). Spills are cleaned up in a timely manner using environmentally sound methods and equipment.

5.0 CONTACTS

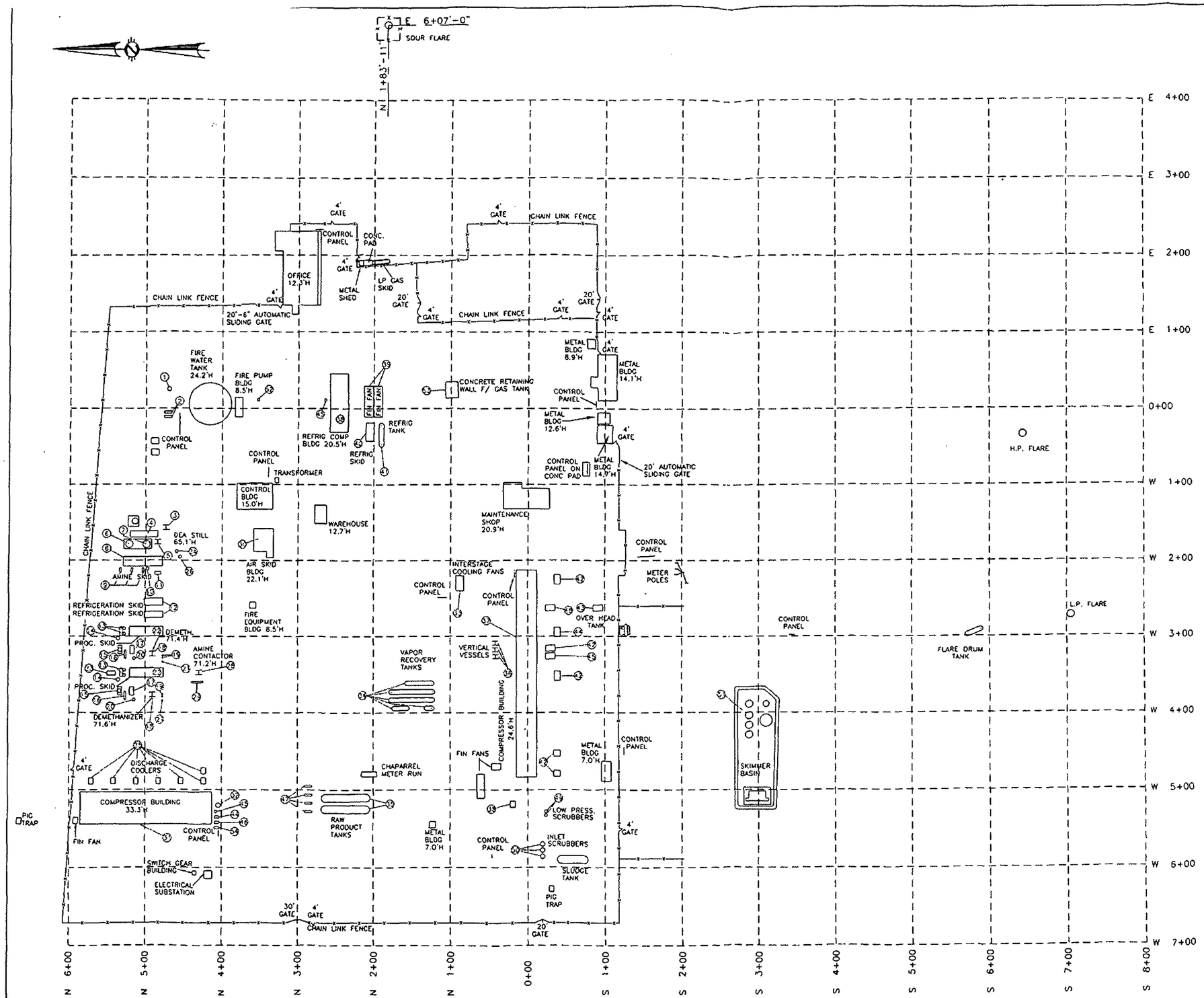
Natural Gas & Gas Products Environmental Contact

Joyce M. Miley
Environmental Consultant
Conoco, Inc., Natural Gas and Gas Products Department
P.O. Box 2197 – Humber 3036
Houston, Texas 777252-2197
(281) 293-4498

Site Contact

Marshall Honeyman
Plant Manager
Conoco Inc. Maljamar Gas Processing Plant
P.O. Box 90
Maljamar, New Mexico 88264
(505) 676-3501

FIGURE



ITEM	NUMBER	EQUIPMENT LIST	CHEMICAL INVENTORY
1	H-760	HOT OIL HEATER (11.1 MMBTU/HR)	HEAT TRANSFER OIL
2	H-750	REGEN GAS HEATERS (1.85 MMBTU/HR) (2)	RESIDUE GAS
3	TK-930	AMINE SUMP	DEA, WATER
4	E-520	AMINE STILL REBOILER	HOT OIL, DEA, WATER
5	T-1300	DEA STILL	DEA, H2S, CO2, WATER
6	AC-700	AMINE COOLER	DEA, WATER
7	AC-705	AMINE STILL CONDENSER	STEAM, H2S, CO2
8		AMINE SKID	DEA, RESIDUE GAS, H2S, CO2, WATER
		- RICH DEA FLASH TANK	TRANSFER OIL, ANTIFOAM INHIBITOR
		- DEA FILTER	
		- AMINE SURGE TANK	
		- ANTIFOAM INHIBITOR PUMP	
		- ANTIFOAM INHIBITOR TANK	
		- AMINE EXCHANGER	
		- HOT OIL EXPANSION TANK	
9		AMINE CIRCULATING PUMPS (3)	DEA, WATER
10	F-830	AMINE CHARCOAL FILTER	DEA, ACTIVATED CARBON
11		SAND FILTER	DEA
12		REFRIGERATION SKID #2	PROPANE, RAW GAS, EPBC
		- PROPANE CHILLER	
		- COLD SEPARATOR	
13	V-110	DEHYDRATORS (2 PER TRAIN, TOTAL OF 4)	RAW GAS, MOLESIEVE
14	F-810	INLET GAS FILTER/SEPARTORS (2)	RAW GAS, WATER
		(ON PROCESS SKIDS)	
15	AC-710	REGEN GAS COOLERS (2)	RESIDUE GAS, AIR
16	V-150	TREATED GAS SEPARATORS (2)	RAW GAS, WATER
17	K.X-600	EXPANDER/COMPRESSORS (2)	RAW GAS
18	T-1000	DEMETHANIZERS (2)	RAW GAS, EPBC, RESIDUE GAS
19	P-19A/B	DEMETHANIZER PRODUCT PUMPS (4)	EPBC
20	TK-600	EXPANDER OIL SUMP TANK	LUBE OIL
21	V-260	FUEL GAS SCRUBBERS (2)	RESIDUE GAS
22		PROCESS SKIDS #1&2 (ITEMS PER SKID)	RAW GAS, WATER, EPBC
		- INLET GAS FILTER SEPARATOR	
		- INLET GAS DUST FILTER	
		- REGENERATION GAS COMPRESSOR	
		- WARM GAS/GAS EXCHANGER	
		- COLD GAS/GAS EXCHANGER	
		- PRODUCT HEATER	
		- DEMETHANIZER REBOILER	
		- DEMETHANIZER SIDE HEATER	
		- COLD SEPARATOR	
		- INLET GAS COOLING FAN	
23		METHANOL STORAGE TANK	METHANOL
24	P-47A/B	AMINE/WATER MAKE-UP PUMP	DEA, WATER
25		DISCHARGE COOLERS (7)	RAW GAS, RESIDUE GAS
26	TK-910	AMINE STORAGE TANK	DEA
27	AC-715	RESIDUE GAS COOLER	RESIDUE GAS, AIR
28	T-1200	AMINE CONTACTOR	RAW GAS, DEA, WATER
29	E-500	AMINE UNIT - INLET GAS EXCHANGER	RAW GAS, HOT OIL
30		INSTRUMENT AIR BUILDING	INSTRUMENT AIR
31		COMPRESSOR BUILDING	RAW GAS, LUBE OIL
		- GAS DRIVEN INLET COMP.	
		- ELECTRIC DRIVEN INLET COMP.	
		- ELECTRIC DRIVEN INLET/RES COMP.	
		- ELECTRIC DRIVEN INLET COMP. (3)	
32		COMP. BUILDING SUMP	WASTE OIL
33		INTERSTAGE COOLING FANS	RAW GAS, AIR
34		VAPOR RECOVERY SYSTEM (5 VESSELS)	WASTE OIL, LIGHT HYDROCARBONS
35	V-300	RAW PRO. STORAGE TANKS (2)	EPBC
36		INTERSTAGE SCRUBBERS (3)	RAW GAS
37		CLARK COMP. BUILDING	RAW GAS, LUBE OIL
		- RESIDUE COMPRESSOR	
		- INLET COMPRESSORS (7)	
38		COMP. BLDG. (#37) SUMP	WASTE OIL
39	AC-620	PROPANE CONDENSER (2)	PROPANE
40		REFRIGERATION SKID #1	PROPANE, RAW GAS, LUBE OIL
		- PROPANE SUB-COOLER	
		- ECONOMIZER	
		- PROPANE SUCTION SCRUBBER	
		- LUBE OIL COALESCER	
41	V-640	PROPANE ACCUMULATOR	PROPANE
42		WATER/LUBE OIL COOLERS (5)	WATER, LUBE OIL AIR
43		ENGINE OIL STORAGE TANKS (2)	ENGINE OIL
44		ANTIFREEZE STORAGE TANKS	ETHYLENE GLYCOL
45		NALCO CHEMICAL STORAGE (3)	
46		COMP. OIL STORAGE TANK	COMPRESSOR OIL
47		EPBC PIPELINE PUMPS (4)	EPBC
48		WATER STORAGE TANK	WATER
49		LOW PRESSURE SCRUBBERS (2)	RAW GAS
50		INLET SCRUBBERS (3)	RAW GAS
51		SLOP OIL TANKS (5)	WASTE OIL
52		DIESEL STORAGE TANK	DIESEL
53		GASOLINE STORAGE TANK	UNLEADED GASOLINE
54		KEROSINE STORAGE TANKS (1)	KEROSENE
55			

ISSUE	DATE	DRAWN	DESIGNED	CHECKED	APPROVED

ISSUE	DATE	DRAWN	DESIGNED	CHECKED	APPROVED

ISSUE	DATE	DRAWN	DESIGNED	CHECKED	APPROVED
B	ADDED (3) VAPOR RECOVERY VESSELS & REV'D EQUIPMENT ITEM #34.				
	6/5/97	RGK			

CONOCO

NATURAL GAS & GAS PRODUCTS DEPARTMENT

AFE:

CONOCO NG&GP
MALJAMAR GAS PLANT
PLOT PLAN & CHEMICAL INVENTORY

SCALE: 1"=60'
LOCATION: MALJAMAR GAS PLANT
FILE NO:
MJ20001

Frontier Field Services, LLC
Southern Ute Indian Tribe

Randy McCollum
Manager of Compliance

Phone (505) 676-3505
Cell (505) 361-0128
rmccollum@frontierfieldservices.com

May 14, 2005

CERTIFIED MAIL # 7004 0750 0002 5384 6137
RETURN RECEIPT REQUESTED

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: GW-020 Discharge Plan
Maljamar Gas Plant
Annual Sump and Five Year Underground Piping Inspection
Frontier Field Services

Dear Mr. Price:

On April 10, 2005 notice was given to Paul Sheeley and Chris Williams of the local NMOCD office in Hobbs, NM that a planned inspection of sumps and underground piping as required in our Discharge Plan would be performed beginning April 14, 2005.

During the time period from April 14 through April 27, 2005 the #8 Clark cellar, plant sumps, and underground piping was inspected. Copies of the inspection records are attached. A copy of this letter is also appended to the GW-020 renewal application.

For the underground piping inspection a circular chart was used to record each inspection. The recorder was calibrated by a Frontier Field Services employee skilled in meter calibration. The chart range is from 0% to 100%, calibrated to 50 psig at 100%. The piping inspections were performed at approximately 20 psig held for at least 4 hours.

If you have any questions or require more information please contact me at 505-676-3505.

Sincerely,

Randy L. McCollum

Paul Sheeley, OCD-Hobbs
✓ File: Env 1054

4200 E. Skelly Drive • Suite 700 • Tulsa, OK 74135
Phone: (918) 492-4450 • Fax: (918) 492-4701

Frontier Field Services, LLC
Southern Ute Indian Tribe

April 27, 2005

OCD Drain Line Test for 2005

East and West Expander Sumps 3' ¾"; Start test 11:00 a.m. on 4/13/05
End test 11:00 a.m. on 4/14/05

Refridge Sump 6'8"; Start test 2:30 p.m. on 4/14/05
End test 3:00 p.m. on 4/15/05

Sump Southside of Old Electric Building; Start test 7:30 a.m. on 4/18/05 6'8"
End test 7:30 a.m. on 4/19/05 6'8"

Amine Sump; Start test 7:30 a.m., on 4/25/05 43 ½"
End test 7:30 a.m., on 4/26/05 43 ½"

Gary Stafford

Frontier Field Services, LLC
Southern Ute Indian Tribe

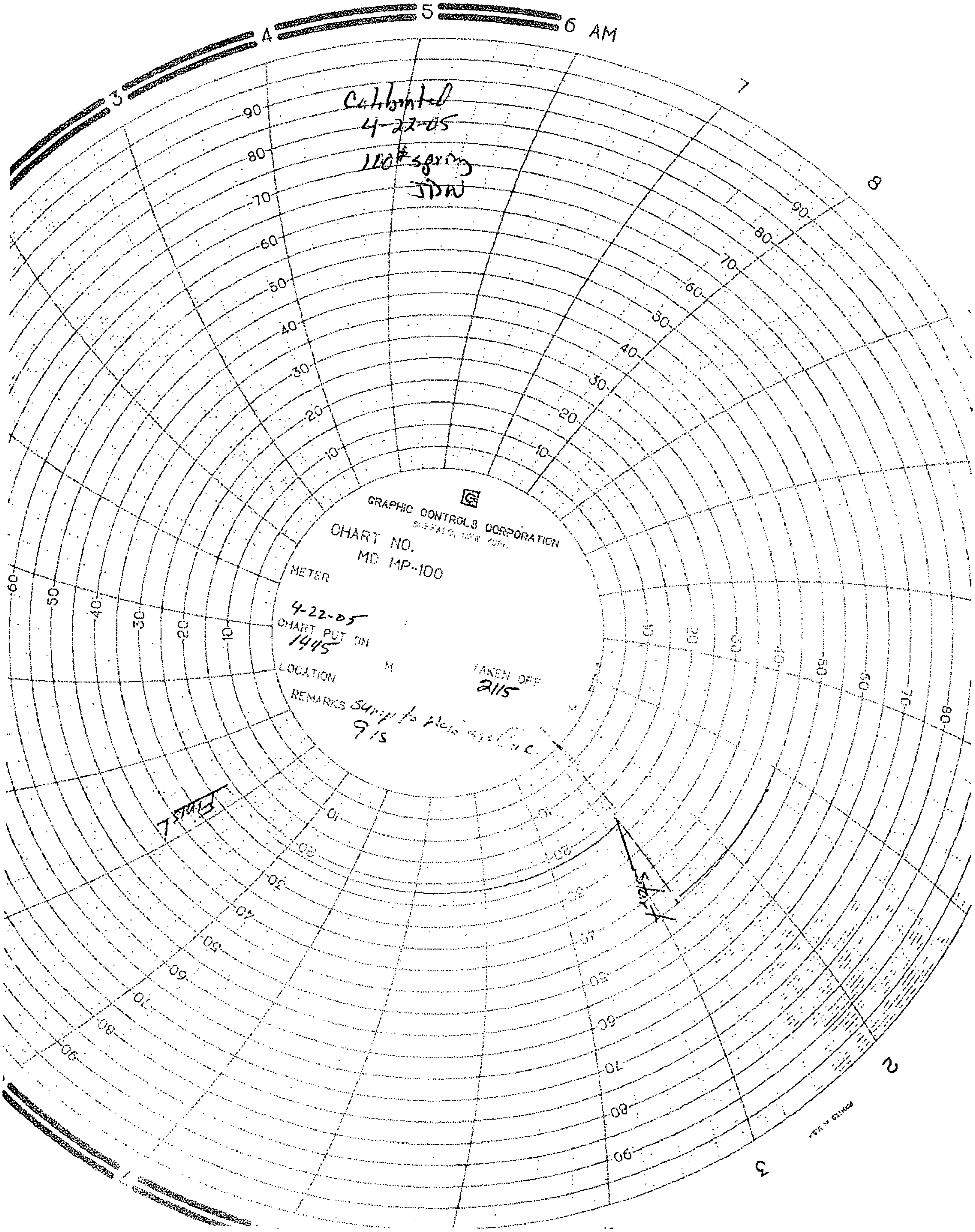
April 15, 2005

#8 Clark was shutdown and the cellar surrounding the unit was emptied, mopped and steam cleaned. The cellar was allowed to dry overnight, April 14, 2005, and was visually inspected on April 15 by Randy McCollum.

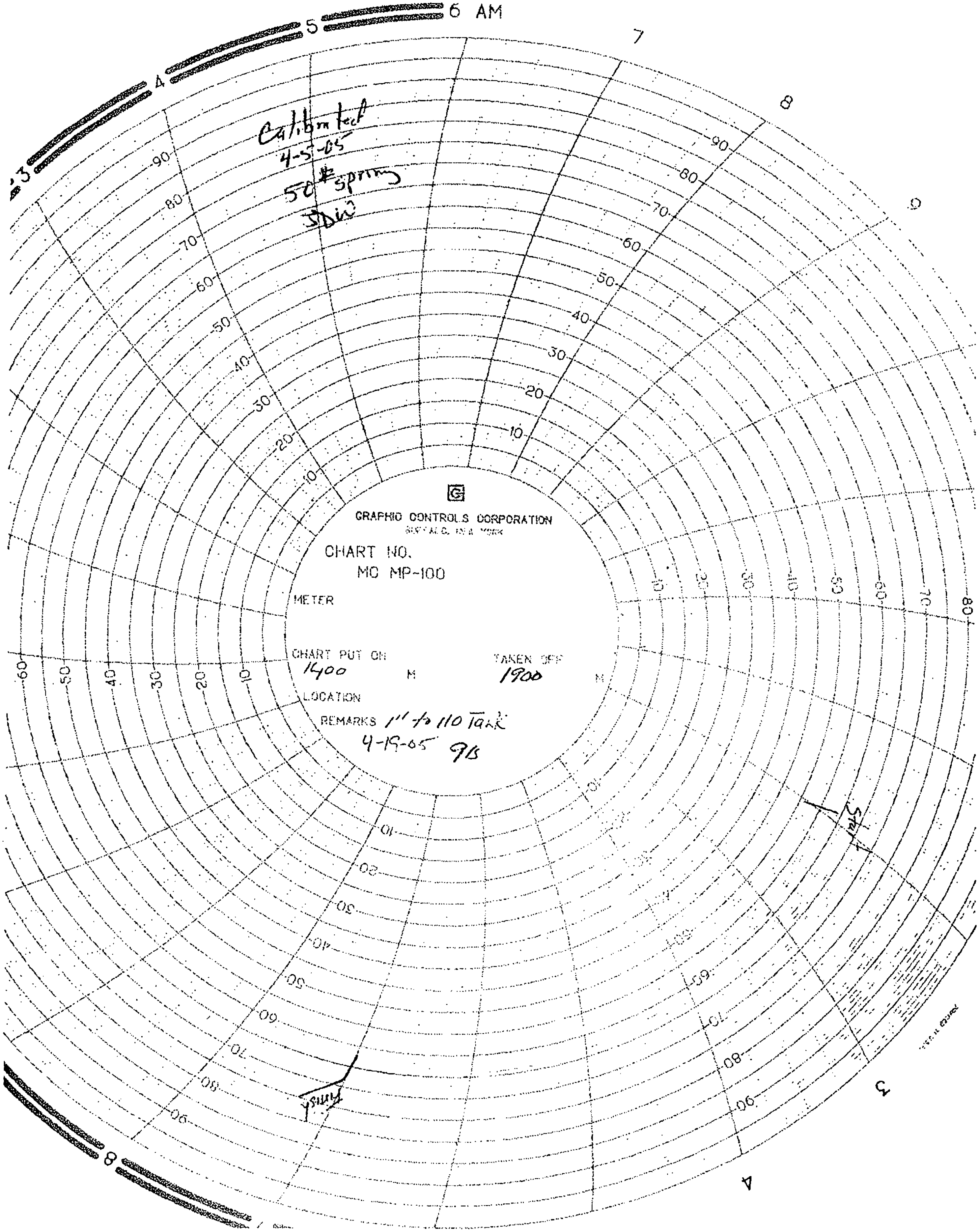
The inspection consisted of entry into the cellar and making a close examination of the cellar floor and walls, looking for cracks or other evidence that fluids might be leaking.

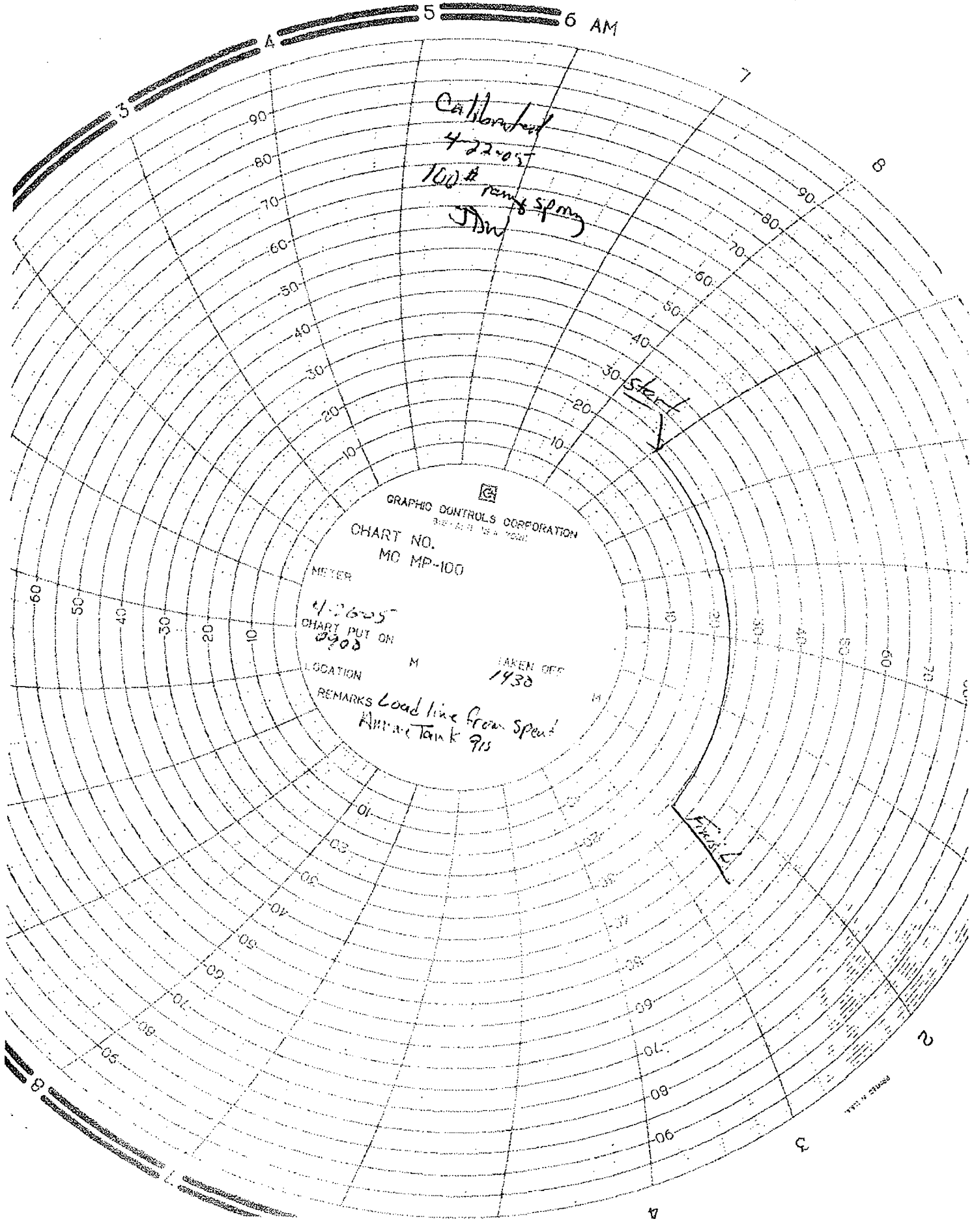
No evidence of leaks was found during the inspection. The unit was left down for several hours to give NMOCD personnel time to arrive at the site. The unit was then returned to service.

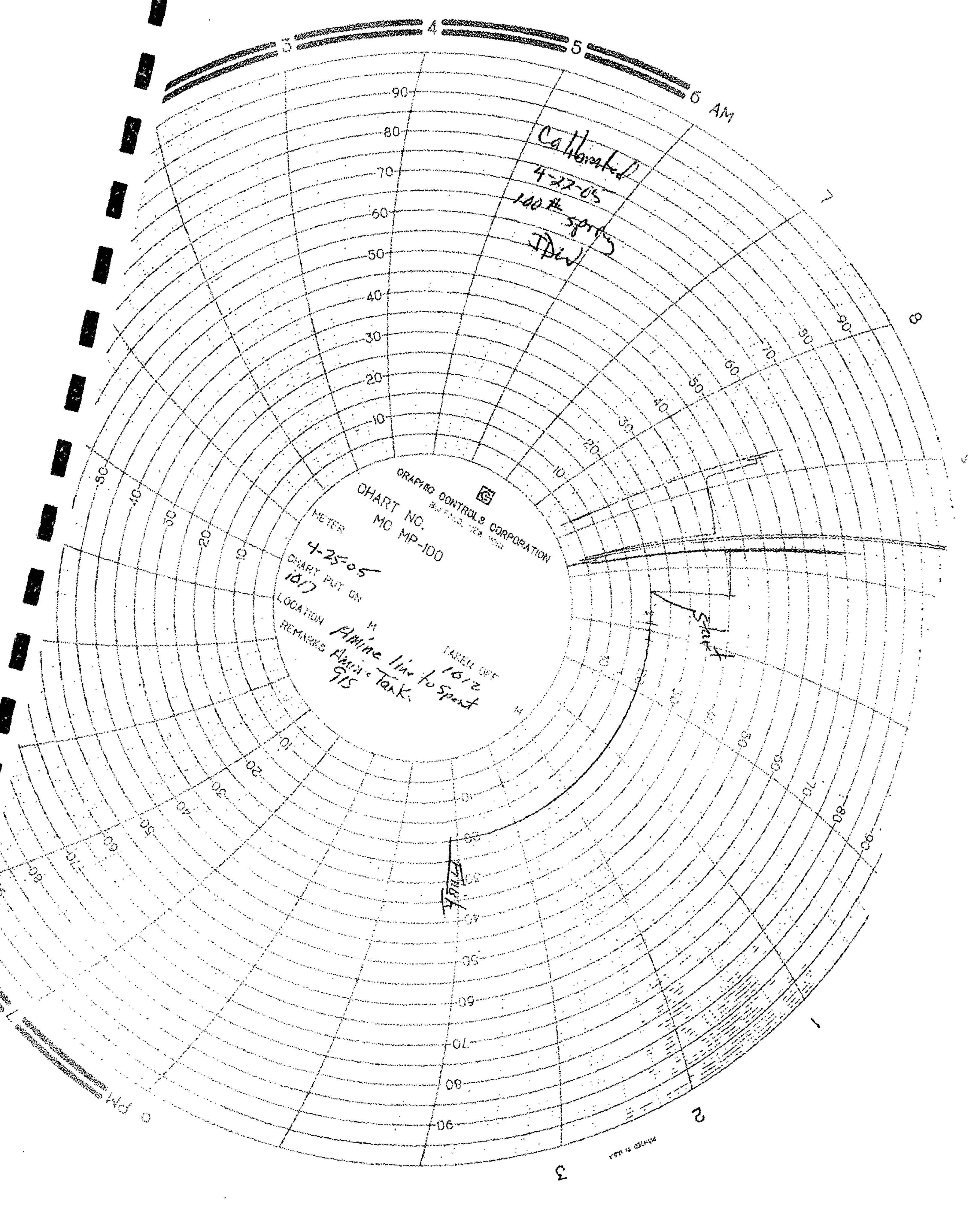
Randy McCollum

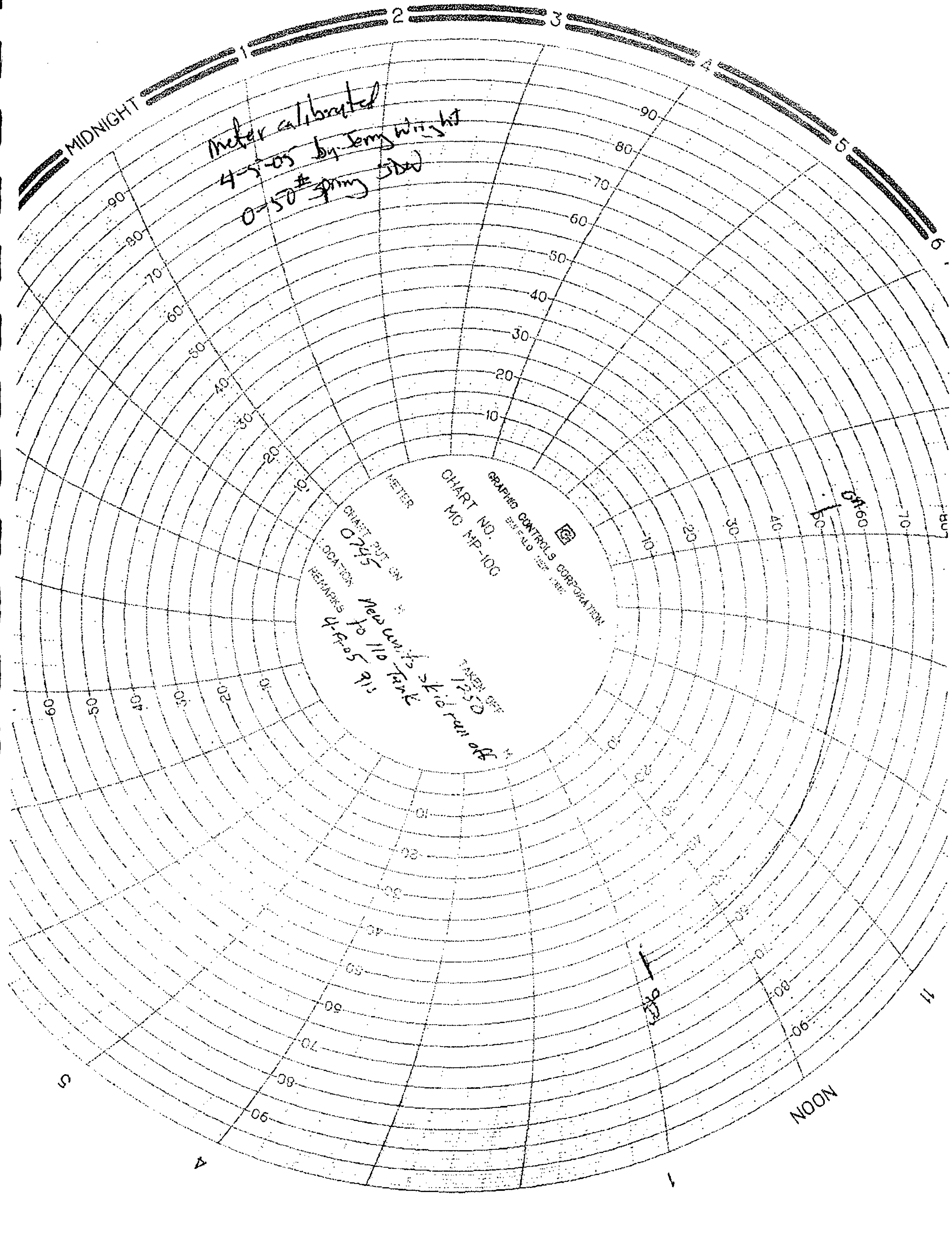


6 AM
Calibrated
4-22-05
100# spring
JDW
GRAPHIC CONTROLS CORPORATION
CHART NO.
MC MP-100
METER
4-22-05
CHART PUT ON
1445
LOCATION
TAKEN OFF
2115
REMARKS
Start
Finish


6 AM
GRAPHIC CONTROLS CORPORATION
CHART NO.
MC MP-100
METER
CHART PUT ON 1400 M
TAKEN OFF 1900 M
LOCATION
REMARKS 1" to 110 Tank
4-19-05 9B
Calibrated
4-5-05
50# spring
Start
Finish


5
6 AM
4
3
7
8
Calibrated
4-22-05
100 # ramp spring
Start
Finish
GRAPHIC CONTROLS CORPORATION
CHART NO.
MO MP-100
METER
4-26-05
CHART PUT ON
0900
M
TAKEN OFF
1430
LOCATION
REMARKS Load line from Speed Aire Tank 915
2
1
8


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
CHART NO.
MC MP-100
METER
4-25-05
CHART PUT ON
1017
LOCATION
Amine line to Spent
REMARKS
Amine Tank.
915
TAKEN OFF
1012
Calibrated
4-22-05
100 # spring
JDW
Start
Finish
6 AM
PM


MIDNIGHT
GRAPHIC CONTROLS CORPORATION
BUFFALO NEW YORK
CHART NO.
MC MP-100
METER
CHART PUT ON
0745
LOCATION
REMARKS
New units skid run off
to 110 Tank
4-5-05
TAKEN OFF
1230
Meter calibrated
4-5-05 by Jerry Wright
0-50# spring JDW
NOON

Randy McCollum

From: Randy McCollum [rmccollum@frontierfieldservices.com]
Sent: Sunday, April 10, 2005 1:55 PM
To: 'psheeley@state.nm.us'; 'cwilliams@state.nm.us'; 'wprice@state.nm.us'
Cc: 'jprentiss@frontierfieldservices.com'; 'rlizardo@frontierfieldservices.com'; 'smaker@frontierfieldservices.com'
Subject: 72 Hour Notice of Sump and Underground Piping Test
Importance: High

To: Paul Sheeley, NMOCD, District 1
Chris Williams, NMOCD, District 1
Wayne Price, NMOCD, Santa Fe

Please be advised that Frontier Field Services will be conducting the annual sump(s) and 5-year underground piping tests beginning at 8:00 am, Thursday, April 14, 2005 at its Maljamar Gas Plant located 3 miles south of Maljamar, NM. These tests are required by Discharge Plan GW-020 and are being conducted in preparation for submittal of the GW-020 renewal application.

This note serves as 72 hour notice of the planned tests and I have requested delivery and read receipts.

Please contact me with any questions or guidance you might have.

Randy McCollum
Manager of Compliance
Frontier Field Services, LLC
505 676-3505
505 361-0128 cell
505 676-2401 fax

Randy McCollum

From: System Administrator
To: Williams, Chris; Sheeley, Paul; Price, Wayne
Sent: Sunday, April 10, 2005 1:55 PM
Subject: Delivered:

Your message

To: Unknown
Subject:

was delivered to the following recipient(s):

Williams, Chris on 4/10/2005 2:54 PM
Sheeley, Paul on 4/10/2005 2:54 PM
Price, Wayne on 4/10/2005 2:54 PM

FRONTIER FIELD SERVICES
2009 SUMP REPORT
05/28/09

SUCKED SUMPS DRY & STEAM CLEANED REFILLED SUMPS WITH FRESH WATER & MEASURED

REFRIDGE SUMP: 9:00 A.M. MEASURED 6'7"
11:00 A.M. MEASURED 6'7"
1:00 P.M. MEASURED 6'7"
3:00 P.M. MEASURED 6'7"
LET SIT OVERNIGHT & REMEASURED ON 05/29/09 @ 9:00 A.M. IT MEASURED 6'7"

EXPANDER SUMP # 1: 9:00 A.M. MEASURED 3'1"
11:00 A.M. MEASURED 3'1"
1:00 P.M. MEASURED 3'1"
3:00 P.M. MEASURED 3'1"
LET SIT OVERNIGHT & REMEASURED ON 05/29/09 @ 9:00 A.M. IT MEASURED 3'1"

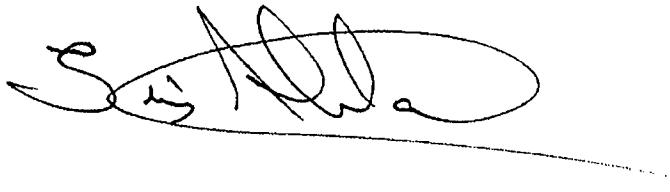
EXPANDER SUMP # 2: 9:00 A.M. MEASURED 3'1"
11:00 A.M. MEASURED 3'1"
1:00 P.M. MEASURED 3'1"
3:00 P.M. MEASURED 3'1"
LET SIT OVERNIGHT & REMEASURED ON 05/29/09 @ 9:00 A.M. IT MEASURED 3'1"

AMINE SUMP: 9:00 A.M. MEASURED 2'
11:00 A.M. MEASURED 2'
1:00 P.M. MEASURED 2'
3:00 P.M. MEASURED 2'
LET SIT OVERNIGHT & REMEASURED ON 05/29/09 @ 9:00 A.M. IT MEASURED 2'

ELECT. BLDG. SUMP: 9:00 A.M. MEASURED 7'1"

11:00 A.M. MEASURED 7'1"
1:00 P.M. MEASURED 7'1"
3:00 P.M. MEASURED 7'1"
LET SIT OVERNIGHT & REMEASURED ON 05/29/09 @ 9:00 A.M. IT MEASURED 7'1"

5-29-09



Lizardo, Rudy

From: Lizardo, Rudy
Sent: Wednesday, May 20, 2009 8:49 AM
To: 'Larry'
Cc: Prentiss, John
Subject: annual sump test

Mr. Johnston
We are scheduled to do our plant sump inspection next week on the 28th & 29th. We will start at 8:00 am each morning.

Thanks, Rudy

Rudy Lizardo
Maintenance Foreman
Frontier Field Services
P.O. Box 7
Maljamar, New Mexico
Office: (505) 676-3504
Cell: (505) 361-0135
Email: rlizardo@frontierfieldservices.com

SPILL CONTINGENCY PLAN

MALJAMAR GAS PLANT

Lea County, New Mexico
1001 Conoco Road, Maljamar NM 88264

Operated by:
Frontier Field Services, LLC

Owned by:
Frontier Field Services, LLC
4200 Skelly Drive, Suite 700
Tulsa, Oklahoma 74135

Updated by:

Steve Maker, Operations Foreman
Fran King Brown, EHS Manager
January 21, 2010

A. INITIAL ACTION AT THE SITE OF A SPILL

The responsible Frontier Field Services, LLC employee at the scene of the operation who first learns about a spill or pollution shall take the following action:

1. Notify Appropriate Supervisor - Immediately contact supervisor, giving an assessment of the situation. The Supervisor on duty shall notify the Plant Manager or his designate. (John Prentiss 575-676-3528).

2. Alleviate danger - If any human life or property is in danger, take prompt action to alleviate such danger.

3. Contain spill - If the spill can be stopped or brought under control, take prompt action to do so. If possible, contain the spread of the spill using equipment available on-site.

4. Determine if spill reached "navigable water." "Navigable water" includes a variety of different sources, including lakes, creeks, and dry draws. A spill into navigable water is reportable if it is enough to create a sheen. Even if the draw is dry at the time of the spill, if oil gets into it, the spill is reportable to the National Response Center (NRC). If the spill did not get into "navigable water" respond according to the "Procedures for Reporting Spills and Upsets" found in Appendix A. If the spill did get into "navigable water", the Plant Manager or his designee will call the NRC and one of the following, beginning with the Plant Engineer:

1) John Prentiss		(575) 676-3528
Area and Plant Manager	Cell	(575) 706-6983
2) David Feather		(575) 677-5140
Environmental Technician	Cell	(575) 706-5287
3) Chad Cagle		(918) 388-8442
Director of Operations	Cell	(918) 808-4863

Your supervisor will contact the Plant Manager and one of Frontier personnel and apprise them of the situation.

B. ACTIVATION OF SPILL CONTINGENCY PLAN:

After being notified, the Plant Manager or other responsible official shall promptly accomplish three actions:

1. **Notify Management** - He shall apprise Frontier of the situation as appropriate.

2. **Notify Agencies** - If the spill reaches navigable water, verify that the National Response Center, the New Mexico Oil Conservation Division (OCD), the Bureau of Land Management (as necessary), and the Frontier Plant Manager have been notified. To notify Federal and State agencies, call the following numbers:

Federal Agencies:	National Response Center (USCG)	(800) 424-8802
	Bureau of Land Management	(505) 877-6544
State Agencies	NM Oil Conservation Division	(505) 748-1283

If a spill does not reach navigable water it may still need to be reported to a federal or local agency depending on area, amount, and type of spill.

3. **Initiate Cleanup** - The Plant Manager is responsible for determining the degree and speed of containment and cleanup measures required (See section C below). Decisions as to how to clean up the spill are based on:

- Substance spilled
- Size of spill
- Sensitivity of location to people and environment
- If spill entered water
- Type of watercourse entered
- Requirements of agency

Do not talk to media - During an oil or condensate spill situation, the following matters should not be discussed with anyone other than Frontier Field Services, LLC personnel unless prior clearances have been obtained:

a. Cause, liability, legal consequences of the spill
b. Estimates of damage to property or ecology
c. Length and scope of cleanup operations
d. Opinions concerning county, state, federal or other government agencies' response to the spill

C. OIL SPILL CLEAN UP PLAN

1. The Plant Manager shall:

   a. Ensure the spill is contained or stabilized to the extent conditions allow.
   b. Ensure that the spill has been reported to the proper agencies.
   c. Initiate cleanup operations.
   d. Supervise and direct the cleanup operation subject to the approval of Frontier Field Services Management.
   e. Determine the needs of equipment and personnel involved in the cleanup operations.

2. The facility's Plant Manager shall proceed as follows:

   a. Establish a plan of action for cleanup. This plan should be discussed with the Frontier Environmental Health & Safety representative and the responsible agency before implementing.
   b. Procure bulldozers and/or backhoe to build additional containment such as dikes, dams, etc., to better contain the oil spill.
   c. Procure vacuum trucks to reclaim the effluents spilled.
   d. Restore the area of the spill, as nearly as possible, to the same condition as before the spill.
   e. The Frontier Plant Manager will advise on appropriate action if the spill reaches waters of the United States.
   f. Record any reportable SPCC spill and maintain records in local files.
   g. If the spill enters the waters of the U.S. and is greater than 1000 gallons, or if two reportable spills occur within 12 consecutive months, a report must be submitted to the EPA with in 60 days. If this should occur the facility will be required to develop a complete Spill Control and Contingency Plan in accordance with 40 CFR 112.

NOTIFICATION PROCEDURES

- Contact List and Phone Numbers
- Notification Data Sheet
- Procedures for Reporting Spills and Upsets
- BLM "Report of Undesirable Event" (Form NM 3162-1)
- Oil Conservation Division Form "Release Notification and Corrective Action" Form (C-141)
- Frontier Field Services, Growth Fund Policy Spill Reporting Form
- Submittal of Information to Regional Administrator for Qualified Discharge(s)

Contact List and Phone Numbers

The following is a contact list and phone number reference for the Facility:

REFERENCE THE "EMERGENCY ACTION PLAN" FOR ADDITIONAL AND THE MOST UPDATED NUMBERS

Contact	Primary	Alternate
Designated Person Accountable For Oil Spill Prevention and/or Facility Response Coordinator		
Name/Title: John Prentiss/ Area and Plant Manager	575-676-3528	575-706-6983
Name/Title: Steve Maker/ Operations Foreman	575-676-3502	575-361-0835
National Response Center	800-424-8802	202-267-2675
Bureau of Land Management	505-887-6544	
State Agency for Oil Spill Response New Mexico Oil Conservation Division (24 hr)	505-748-1283	
Cleanup Contractors (as necessary):		
Vacuum Trucks – Unique Oilfield Services, LLC	575-399-4830	
Vacuum Trucks – Kenemore Welding	575-676-2332	
Contract Labor – Unique Oilfield Services, LLC	575-399-4830	
Contract Labor – Rocky Peak	575-390-6666	
Earth Moving Equipment – Rocky Peak	575-390-6666	
Earth Moving Equipment – Kenemore Welding	575-676-2332	
HazMat Response – Safety & Env Solutions, Hobbs	505-397-0510	
Other Federal, State and local agencies (as necessary):		

Notification Data Sheet

The Facility will utilize the following form to relate information in the event of a discharge:

Date: _____ *Time:* _____

INCIDENT DESCRIPTION

Reporter's Full Name: _____ *Position:* _____
Day Phone Number: _____ *Evening Phone Number:* _____
Company: _____ *Organization Type:* _____
Facility Address: _____ *Owner's Address:* _____
_____ _____
_____ _____
_____

Facility Latitude: _____ *Facility Longitude:* _____
Spill Location: _____
(if not at Facility) _____
Responsible Party's Name: _____ *Phone Number:* _____
Responsible Party's Address: _____
Source and/or cause of discharge: _____
_____
_____
Nearest City: _____
County: _____ *State:* _____ *Zip code:* _____
Section: _____ *Township:* _____ *Range:* _____ *County:* _____
Distance from City: _____ *Direction from City:* _____
Container Type: _____ *Container Storage Capacity:* _____
Facility Oil Storage Capacity: _____
Material:

Total Quantity Released	Water Impact (*YES or NO*)	Quantity into Water

RESPONSE ACTION(S)

Action(s) taken to Correct, Control, or Mitigate Incident: _____
_____
_____
Number of Injuries: _____ *Number of Deaths:* _____
Evacuation(s): _____ *Number Evacuated:* _____
Damage Estimate: _____
More information about impacted medium: _____
_____

CALLER NOTIFICATIONS

National Response Center (NRC): 1-800-424-8802
Additional Notifications (Circle all applicable): *State* *Other*

ADDITIONAL INFORMATION

Any information about the incident not recorded elsewhere in this report: _____
_____
_____

NOTE: DO NOT DELAY NOTIFICATION PENDING COLLECTION OF ALL INFORMATION.

Procedures for Reporting Spills and Upsets

1. PROCEDURES FOR REPORTING SPILLS AND UPSETS
Maljamar Gas Plant

This is to be used to know what type of spills or upsets are "reportable" and the reporting procedures to follow, as required by Frontier Field Services and the agencies of jurisdiction for the gas plant. These reporting procedures are consistent with and should be used in conjunction with any facility comprehensive spill contingency plans. Both the New Mexico Oil Conservation Division and the Bureau of Land Management combine the volume of produced water and oil to determine reportable volume.

For spills that do not create a sheen on water or allow oil into a dry draw, the following procedures should be followed.

2. REPORTABLE SPILLS

Releases to be reported by the Plant Manager or delegated person:

a. OIL AND PRODUCED WATER

Spill Conditions		Required Reports					
Location	Amount (bbl)	NMOCD		BLM		NRC[1]	BP*
		Phone[2]	Write[3]	Phone	Write	Phone	Phone
Federal	<5	No	No	No	No	No	Yes
Federal	>5,<10	No	Yes	No	No	No	Yes
Federal	>10,<25	No	Yes	No	Yes	No	Yes
Federal	>25, <100	Yes	Yes	No	Yes	No	Yes
Federal	>100	Yes	Yes	Yes	Yes	No	Yes
Fee, State	<5	No	No	No	No	No	Yes
Fee, State	>5,<25	No	Yes	No	No	No	Yes
Fee, State	>25	Yes	Yes	No	No	No	Yes
In Water - BLM[4]	Any	Yes	Yes	Yes	Yes	Yes	Yes
In Water - State[4]	Any	Yes	Yes	Yes	Yes	Yes	Yes

*All oil spills greater than 1 barrel must be reported to the Plant Manager.

Notes:
1 National Response Center (1-800-424-8802) for any spills in water
2 Phone - telephone call made within 24 hours of the spill
3 Write - written report as described below, within 10 days
4 See "Oil Spill Contingency Plan" located in Appendix D.

Report to
- Frontier Plant Manager
- Chad Cagle - Tulsa
- New Mexico Oil Conservation Division
- If on BLM land, the BLM District Office
- If spill enters water or water course - National Response Center (1-800-424-8802).

Reporting Method:
- As required, phone in report within 24 hours
  See note on telephone reporting

- For all spills, written report within 10 days
- Use Release Notification and Corrective Action Form (C-141) to report to OCD
- Use BLM form NM 3162-1 to report to the BLM
- Use Frontier Field Services, Growth Fund Policy Spill Reporting Form (see attached).

b. CHEMICAL SPILLS

Reportable Spill: Spills of caustics, acids, or chemicals endangering persons, wildlife, or property

Methanol 5000 lbs. or 16 bbls. CERCLA

For other chemicals, contact the Frontier Plant Manager.

Reporting Method:
- First, report immediately any chemical spill to the Frontier Plant Manager before reporting further, unless people or wildlife are immediately endangered.
- Spills that could potentially harm the public or cause significant damage to the environment should be reported to the New Mexico Oil Conservation Division and the Bureau of Land Management (if applicable) district office.
- If communications with Frontier Plant Manager confirm the existence of a "reportable quantity" spill, additional reports must be made to the National Response Center, the SERC, LEPC, and OCD.

MSDS sheets and other available resources should be used in obtaining data on chemicals used in your facility.

c. GASEOUS RELEASE

Reportable Release:
- On BLM land, any event releasing 500 MCF or more of gas (use BLM form NM 3162-1)
- Any event that releases more than 500 MCF requires immediate notification of the NMOCD district office
- Any event that releases more than 5000 MCF requires written notification of the NMOCD district office
- Any event that places life or property in danger requires NMOCD verbal and written report

Reporting Method:
- First, report immediately any gaseous release to the Frontier Plant Manager, unless people or wildlife are immediately endangered.
- Releases that could potentially harm the public or cause significant damage to the environment should be reported to the New Mexico Oil Conservation Division and the Bureau of Land Management district office.

3. NOTES ON REPORTING

a. TELEPHONE REPORTS

- Reports should be made as soon as possible, at least with in 24 hours. It is recommended to discuss spill with Company environmental personnel before reporting to other entities.
- For telephone reports, use the Frontier Field Services, Growth Fund Policy Form as a guide to indicate what information needs to be given. A copy of this form is attached to the plan.
- Document in facility records, all attempts to telephone reports to agencies successfully or unsuccessfully.
- Document spills of less than reportable amounts in facility files.

b. WRITTEN REPORTS

- Use the Frontier Field Services, Growth Fund Policy Spill Report Forms for reporting all spills and releases.
- Use Release Notification and Corrective Action Form (C-141) to report to OCD.
- Use BLM form NM 3162-1 to report to the BLM
  Reports should be submitted within 10 days of spill.

c. **ADDRESSES AND PHONE NUMBERS**

- Maljamar Gas Plant
  Production: John Prentiss **(575) 706-6983**

  Environmental: David Feather (575) 706-5287

- **For the State of New Mexico**
  New Mexico Oil Conservation Division
  New Mexico Environment Department
  District II
  811 S. First Street
  Artesia, NM 88210
  (505) 748-1283

  Ground Water Quality Bureau
  P.O. Box 1778
  Santa Fe, NM 87502
  (505) 827-2918

- **Bureau of Land Management**
  BLM - Carlsbad Resource Area
  P.O. Box 1778
  Carlsbad, NM 87820
  (505) 887-6544

  BLM - New Mexico State Office
  P.O. Box 1449
  Santa Fe, NM 87504
  (505) 438-7400

- **National Response Center:** 1-800-424-8802

- **For SARA and CERCLA reportable spills (chemical spills):**

a.) **SERC:**
Max Johnson, ERC Coordinator
Department of Public Safety
Title III Bureau
P.O. Box 1628
Santa Fe, NM 87504-1628
(505) 827-9224

b.) **Local Emergency Planning Committee**
Eddy County LEPC
Attn: Mr. Joel Arnwine
101 East Greene St.
Carlsbad, NM 88220
(505) 887-9511

c.) **Fire Department**
Artesia Fire Department

(575) 676-4100

Lovington Volunteer Fire Department

(575) 396-2359

Form NM 3162-1
(July 1991)

UNITED STATES DEPARTMENT OF THE INTERIOR
Bureau of Land Management
New Mexico State Office

REPORT OF UNDESIRABLE EVENT

DATE OF OCCURRENCE/DISCOVERY: _____ TIME OF OCCURRENCE: _____

DATE REPORTED TO BLM: _____ TIME REPORTED: _____

BLM OFFICE REPORTED TO: (RESOURCE AREA/DISTRICT/OTHER): _____

LOCATION: (¼ ¼)___ SECTION ___ T. _____ R. _____ MERIDIAN _____

COUNTY: _____ STATE: _____ WELL NAME: _____

OPERATOR: COMPANY NAME _____ PHONE NO. _____
CONTACT PERSON'S NAME _____

SURFACE OWNER: _____ MINERAL OWNER: _____
(FEDERAL/INDIAN/FEE/STATE)

LEASE NO.: _____ RIGHT-OF-WAY NO.: _____

UNIT NAME / COMMUNITIZATION AGREEMENT No.: _____

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, OIL AND SALTWATER SPILL, TOXIC FLUID SPILL, HAZARDOUS MATERIAL SPILL, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OTHER (SPECIFY):

_____

CAUSE OF EVENT: _____
_____

HazMat Notified: (for spills) _____

Law Enforcement Notified: (for thefts) _____

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):
_____
Safety Officer Notified: _____

EFFECTS OF EVENT: _____
_____

ACTION TAKEN TO CONTROL EVENT: _____
_____

LENGTH OF TIME TO CONTROL BLOWOUT OR FIRE: _____

VOLUMES DISCHARGED: OIL _____ WATER _____ GAS _____

OTHER AGENCIES NOTIFIED: _____

ACTION TAKEN OR TO BE TAKEN TO PREVENT RECURRENCE: _____

_____

FINAL INVESTIGATION:

TEAM NAME(S) _____

_____

FIELD INSPECTION DATE _____

SUMMARY OF RESULTS OF INSPECTION _____

_____

_____

RESOURCE LOSS WAS (CIRCLE ITEM): AVOIDABLE UNAVOIDABLE

DATE OF MEMO NOTIFYING MINERALS MANAGEMENT SERVICE THAT LOSS WAS AVOIDABLE:

_____

DATE/TIME/PERSON NOTIFIED:

DISTRICT OFFICE _____

_____

STATE OFFICE _____

_____

WASHINGTON OFFICE _____

_____

SUMMARY OF RESULTS OF RECLAMATION/CORRECTIVE ACTION:

_____

_____

_____

_____

_____

REMARKS: _____

_____

_____

SIGNATURE OF AUTHORIZED OFFICER: _____

DATE: _____ TITLE: _____

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company	Contact
Address	Telephone No.
Facility Name	Facility Type

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name:	Approved by District Supervisor:	
Title:	Approval Date:	Expiration Date:
E-mail Address:	Conditions of Approval:	Attached ☐
Date: Phone:		

* Attach Additional Sheets If Necessary

Southern Ute Growth Fund Spill/Release Report

Forward to the Growth Fund Safety & Environmental Compliance Management Group at Fax 970-247-1178

Report Date_____ Time:_____am/pm or (military time)

Spill Date_____Spill Time:_____am/pm or (military time)

Company Name:_____ Phone Number:_____

Reported By:_____ Title:_____

Facility Name:_____

Location: 1/4_____ Section:_____Township:_____Range:_____

Type of Spill (*Circle One*): Produced Water, Oil, Gas, Other_____

Estimate spilled:_____*barrels* Estimate recovered: _____ Hazardous: *Y / N*

Is the Spill Contained: *Y / N* If No, is it within the property "footprint": *Y / N*

Extent of spill (area)_____ft2 Surrounding Land Use_____

Damages/Injuries? _____ Evacuation Needed?: *Y / N*

Ground Water impacted: Y___ N___ Surface Water impacted: Y___ N___

IF LESS THAN A MILE, report distance IN FEET to the nearest.....

Surface water:_____ Wetlands:_____ Water wells:_____Dry arroyo:_____ Residence:_____

Cause Of Spill:_____

_____

_____

Describe immediate response:_____

_____

_____

_____

Does this facility require an SPCC plan: *Yes / No* If yes, is there one in place: *Yes / No*

Is there a remediation plan in place for clean up: *Yes / No*

Follow-up Report Being Sent: *Yes / No* Due By the Following Date: _____, 20_____

Closure Report Being Sent: *Yes / No* Due By the Following Date: _____, 20_____

OTHER NOTIFICATIONS

Date	Agency	Contact Person	Type of notification	Comments:
			Written / Verbal / Both	
			Written / Verbal / Both	
			Written / Verbal / Both	
			Written / Verbal / Both	

For Office Use Only if initial report was by voice):

Report Completed By:_____Title:_____

Note: This form is only used if the facility has spills (see below), which require submission of the plan to the EPA.

Sample - Submittal of Information to Regional Administrator for Qualified Discharge(s)

In the event of a qualified discharge or discharges, this page can be utilized to provide official notification to the Regional Administr ator. If the Facility has had a d ischarge or d ischarges, which meet one of the following two criteria, t hen this re port must be submitted to the Regional Administrator within 60 days. (Check as appropriate)

☐ This Facility has experienced a reportable spill as referenced in 40 CFR Part 112.1(b) of 1,000 gallons or more.

☐ This Facility has experi enced two (2) reportabl e spil ls (a s referenced in 40 CFR Part 112.1 (b) o f greater than 42 gallons each within a 12-month period.

Facility Name and Location: _____

Facility Contact Person (Name, address/phone number): _____

Facility maximum storage or handling capacity: _____

Facility normal daily throughput: _____

Describe th e corrective action and countermeasures taken (include de scription of equipment repairs and replacements): _____

Describe the Facility (maps, flow diagrams and topographical maps attached as necessary): _____

Describe th e cause of discharge (as referenced in 40 CFR Part 112. 1(b)) including failure a nalysis of th e system is: _____

Describe the preventative measures taken or contem plated to be tak en to mini mize the p ossibility of recurrence: _____

Other pertinent information: _____

- A copy of this report is also to be sent to the appropriate state agency in charge of oil pollution control activities.

New Mexico Office of the State Engineer

Point of Diversion by Location

(with Owner Information)

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Grant	Source	q q q 6416 4	Sec	Twn	Rng	X	Y
L 04021		MUN	0	MESCALERO RIDGE COOPERATIVE	LE	L 04021			3 4	03	17S	32E	616761	3636252*
					LE	L 04021 S		Shallow	4 3 2	03	17S	32E	616850	3636955*
L 12369		DOL	3	LINDA GIDEON	LE	L 12369 POD1			2 3 2	12	17S	32E	620088	3635557
RA 08855		DOM	3	KENEMORE GEORGE A	LE	RA 08855			4 1 1	10	17S	32E	616061	3635742*
RA 09126		DOM	0	MANN CLIF	LE	RA 09126			2 2 2	09	17S	32E	615659	3635938*
RA 09505		PDL	40	BEN LINDSEY	LE	RA 09505		Shallow	2 2 1	10	17S	32E	616462	3635944
					LE	RA 09505 S			2 2 1	10	17S	32E	616463	3635945*
					LE	RA 09505 S-2			2 2 1	10	17S	32E	616463	3635945*
RA 10175		SAN	3	RELIANT PROCESSING FLO CO2	LE	RA 10175		Shallow	2 1	28	17S	32E	614814	3631005*
RA 10846		DOM	0	MESCALERO PURE TRUST	LE	RA 10846			2 2 2	09	17S	32E	615659	3635938*

Record Count: 10

PLSS Search:

Township: 17S **Range:** 32E

Sorted by: File Number

***UTM location was derived from PLSS - see Help**

United States Department of Agriculture

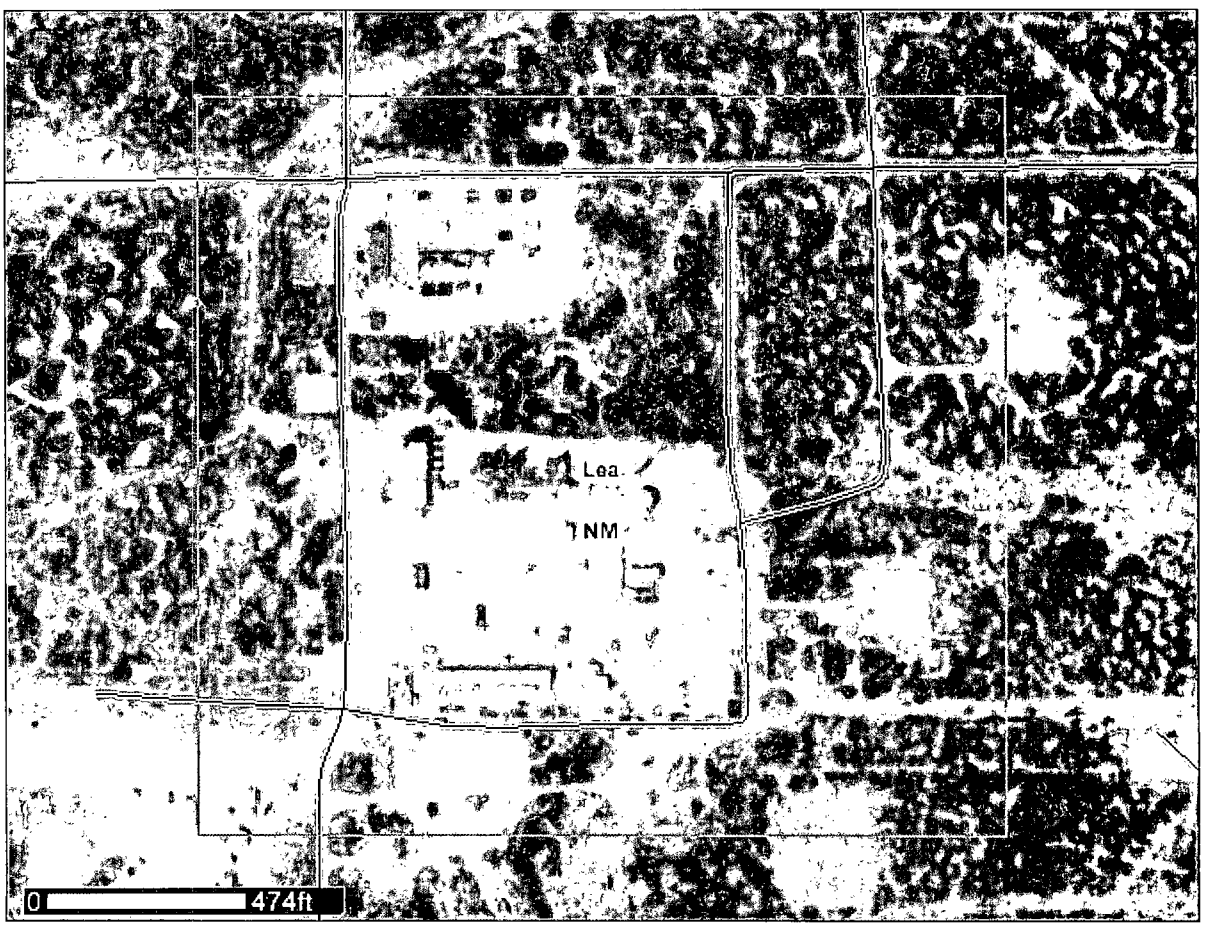
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

Maljamar Gas Plant



January 14, 2010

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://soils.usda.gov/sqi/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://soils.usda.gov/contact/state_offices/).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

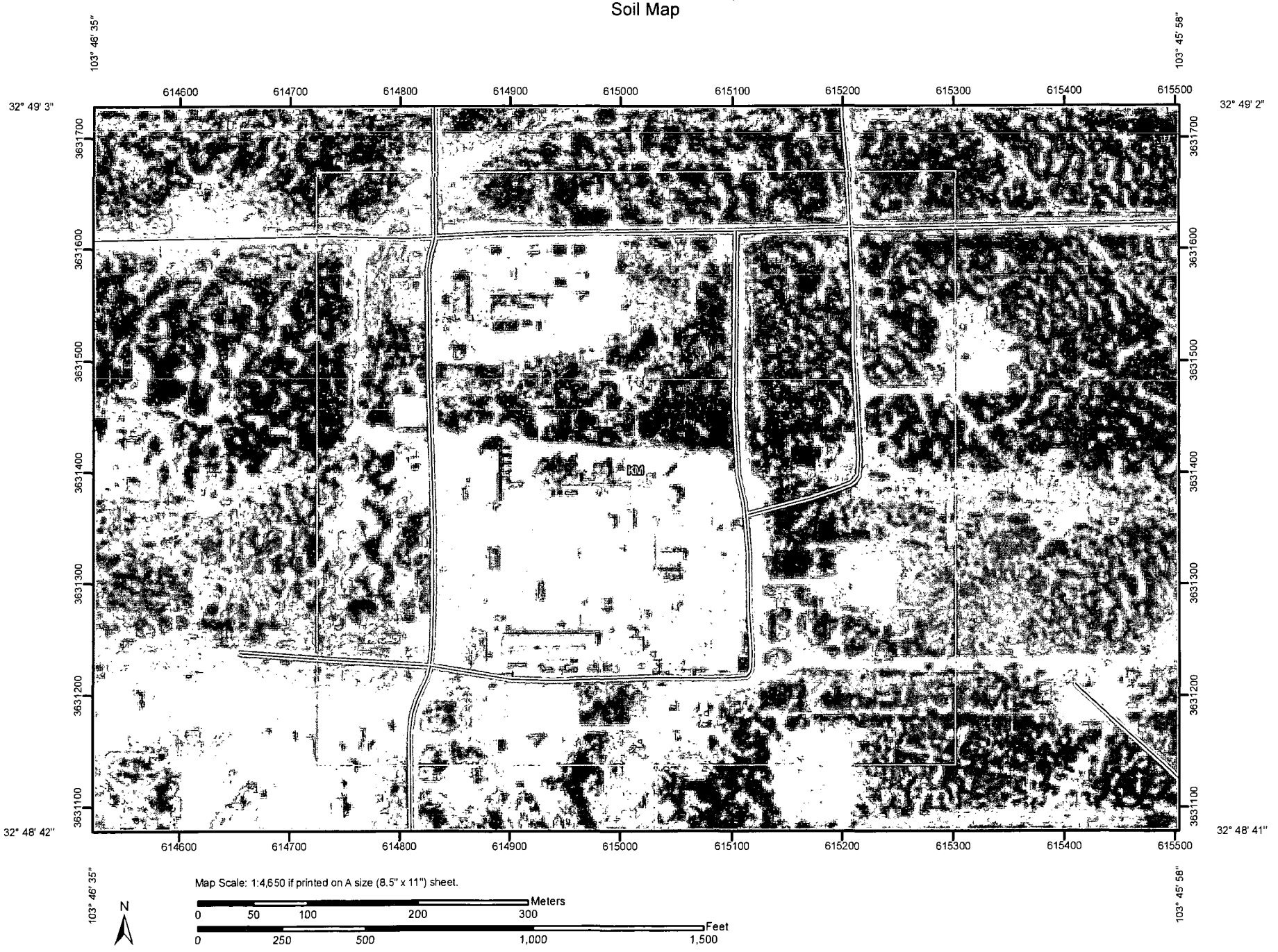
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features
- Cities

Water Features
- Oceans
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:4,660 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 9, Dec 9, 2008

Date(s) aerial images were photographed: 10/22/1996

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Lea County, New Mexico (NM025)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
KM	Kermit soils and dune land, 0 to 12 percent slopes	76.0	100.0%
Totals for Area of Interest		**76.0**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KM—Kermit soils and dune land, 0 to 12 percent slopes

Map Unit Setting

Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 195 to 205 days

Map Unit Composition

Dune land: 45 percent
Kermit and similar soils: 45 percent

Description of Kermit

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability (nonirrigated): 7e
Ecological site: Sandhills (R042XC022NM)

Typical profile

0 to 8 inches: Fine sand
8 to 60 inches: Fine sand

Description of Dune Land

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, concave, convex
Across-slope shape: Convex

Interpretive groups

Land capability (nonirrigated): 8e

Typical profile

0 to 6 inches: Fine sand

6 to 60 inches: Fine sand

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

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RECEIVED
2007 NOV 16 PM 1 49

Larson & Associates, Inc.
Environmental Consultants

November 8, 2007

Mr. Wayne Price, Chief
Environmental Bureau
New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

Re: GW-020 Minor Permit Modification – Request to Discontinue Sump Inspection

Dear Mr. Price:
This letter is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Frontier Field Services, LLC (Frontier) by Larson & Associates, Inc. (LAI), its consultant, to request a minor modification for discharge permit GW-020, which was issued for the Maljamar Gas Plant (Facility) located in unit N (SE/4, SW/4), Section 21, Township 17 South, Range 32 East in Lea County, New Mexico. Frontier requests this modification to remove the condition (Item #10) requiring Frontier to inspect the cellar of the #8 Clark engine.

On May 14, 2005, Frontier submitted a renewal application for discharge permit GW-020 that included inspection records for the #8 Clark cellar. On April 14 and 15, 2005, Frontier inspected the Clark #8 cellar after the engine was shut down and the cellar was emptied, at which time the cellar was mopped, steam cleaned and visually inspected for cracks or evidence that fluids may have leaked from the cellar. No evidence of leakage was found and the engine was returned to service. Attachment A presents the inspection records.

In early 2007, Frontier replaced the #8 Clark engine with a high-efficiency electric engine rendering the #8 Clark out of service. Frontier requests permission from the OCD to discontinue cellar inspections for the Clark #8 engine. Closure will occur when the building is dismantled according to the requirements of discharge permit GW-020.

Thank you for your consideration in this matter. Please contact Mr. Chad Cagle with Frontier at (918) 388-8442 or email ccagle@frontierfieldservices.com. I may be reached with questions at (432) 687-0901 or email mark@laenvironmental.com.
Sincerely,
Larson & Associates, Inc.

Mark J. Larson
Sr. Project Manager / President
Enc.
Cc: Mike Hicks – Frontier
Chad Cagle – Frontier
Chris Williams – OCD District 1

ATTACHMENT A

Inspection Records
April 14 – 15, 2005

Frontier Field Services, LLC
Southern Ute Indian Tribe

Randy McCollum
Manager of Compliance

Phone (505) 676-3505
Cell (505) 361-0128
rmccollum@frontierfieldservices.com

May 14, 2005

CERTIFIED MAIL # 7004 0750 0002 5384 6137
RETURN RECEIPT REQUESTED

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: GW-020 Discharge Plan
Maljamar Gas Plant
Annual Sump and Five Year Underground Piping Inspection
Frontier Field Services

Dear Mr. Price:

On April 10, 2005 notice was given to Paul Sheeley and Chris Williams of the local NMOCD office in Hobbs, NM that a planned inspection of sumps and underground piping as required in our Discharge Plan would be performed beginning April 14, 2005.

During the time period from April 14 through April 27, 2005 the #8 Clark cellar, plant sumps, and underground piping was inspected. Copies of the inspection records are attached. A copy of this letter is also appended to the GW-020 renewal application.

For the underground piping inspection a circular chart was used to record each inspection. The recorder was calibrated by a Frontier Field Services employee skilled in meter calibration. The chart range is from 0% to 100%, calibrated to 50 psig at 100%. The piping inspections were performed at approximately 20 psig held for at least 4 hours.

If you have any questions or require more information please contact me at 505-676-3505.

Sincerely,

Randy L. McCollum

Paul Sheeley, OCD-Hobbs
File: Env 1054

Frontier Field Services, LLC
Southern Ute Indian Tribe

April 15, 2005

#8 Clark was shutdown and the cellar surrounding the unit was emptied, mopped and steam cleaned. The cellar was allowed to dry overnight, April 14, 2005, and was visually inspected on April 15 by Randy McCollum.

The inspection consisted of entry into the cellar and making a close examination of the cellar floor and walls, looking for cracks or other evidence that fluids might be leaking.

No evidence of leaks was found during the inspection. The unit was left down for several hours to give NMOCD personnel time to arrive at the site. The unit was then returned to service.

Randy McCollum

Price, Wayne, EMNRD

From: Price, Wayne, EMNRD
Sent: Friday, February 15, 2008 1:09 PM
To: 'rspencer@frontierfieldservices.com'
Cc: Williams, Chris, EMNRD; Johnson, Larry, EMNRD
Subject: GW-20 Maljamar Gas Plant
Attachments: Final recreated permit_2_15_08 by wp.doc

DID RECEIVE

Dear Mr. Spencer:

The GW-20 Maljamar Gas Plant was permitted back in 2005. OCD records reflect that the permit was never signed and the flat Fee of $4000 was not received by OCD.
Please find attached a copy of the permit conditions which requires a signature on the last page. Please submit a check for $4000 made out to the New Mexico Water Quality Management Fund.

Please provide this within 30 days of receipt of the E-mail.

Wayne Price-Environmental Bureau Chief
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3490
Fax: 505-476-3462

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

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

June 13, 2005

Attention: Mr. Ray Spencer

Randy L. McCollum
Frontier Field Services, LLC
P.O. Box 07
1001 Conoco Road
Maljamar, New Mexico 88260

Re: Discharge Permit GW-020 Renewal
Maljamar Gas Permit

Dear Mr. McCollum:

The groundwater discharge permit renewal for the Frontier Field Services, LLC Maljamar Gas Plant GW-02(located in the SE/4 SW/4 of Section 21, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservati(Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.**

The original discharge permit was approved on June 10, 1985 with an expiration date of June 10, 1990 and subsequently renewed on February 24, 1995, May 18, 2000 and amended on July 27, 2000. The discharge permit renewal application dated May 14, 2005 including attachments, submitted pursuant to Section 3106 o the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applicati(and all conditions later placed on those approvals.

The discharge permit is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides fc possible future amendment of the permit. Please be advised that approval of this permit does not relieve Frontier Field Services, LLC of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve Frontier Field Services, LLC of its responsibility to comply wi any other governmental authority's rules and regulations. Please be advised that all exposed pits, including lined pits and open top tanks (exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., the OCD Director shall be notified 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 3109.H.4., this approval is for a period of five years. **This approval will expire July 27 2010** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing dischar permit will not expire until the application for renewal has been approved or disapproved.

The discharge permit application is subject to the WQCC Regulation 3114. Every billable facility submittin discharge permit will be assessed a fee equal to the filing fee of $100 plus a renewal flat fee of $4000.00 for Gas Plant.

Please make all checks payable to: Water Quality Management Fund
C/o: Oil Conservation Division
1220 S. Saint Francis
Santa Fe, New Mexico 87505.

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail wayne.price@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Original recreated by Wayne Price 2/15/08
Roger C. Anderson
Environmental Bureau Chief

RCA/lwp
Attachments-1
xc: OCD District Office

ATTACHMENT TO THE DISCHARGE PERMIT
Frontier Field Services, LLC, Maljamar Gas Plant (GW-020)
DISCHARGE PERMIT APPROVAL CONDITIONS
June 13, 2005

1. Payment of Discharge Permit Fees: The $100.00 filing fee has been received. The $4000.00 flat fee sl be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due a the time of approval, or in equal annual installments over the duration of the permit, with the first paym due upon receipt of this approval.

2. Commitments: The permit holder will abide by all commitments submitted in the discharge permit renewal application and these conditions for approval.

3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeab pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined on a horizontal plan. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on a impermeable type pad within the berm.

6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

8. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design, unless approved otherwise. All below grade tanks, sum and pits must be tested annually or as specified herein, except systems that have secondary containmer with leak detection. These systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall maintained at the facility covered by this discharge permit and available for OCD inspection. Any syst found to be leaking shall be reported to OCD within 15 days. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressu and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCI will be notified at least 72 hours prior to all testing.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge permit and available for OCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. Any system found to be leaking shall be reported to OCD within 15 days. The OCD will be notified at least 72 hours prior to all testing.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields a other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA U program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environm Department.

11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system fail All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery.

12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 12(

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt was shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous n be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis

Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid wa facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not chan without notification to the Oil Conservation Division.

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.

15. Storm Water Plan: Stormwater runoff plans and controls shall be maintained. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then immediate corrective actions shall be taken to stop the discharge. OCD shall be notified within 24 hours of discovery and the permit shall be modified within 15 days and submitted for OCD approval.

16. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation pl were submitted pursuant to the discharge permit and all future discoveries of contamination will addressed through the discharge permit.

Special Note: The existing groundwater investigation and remediation systems are being maintainec the previous owner ConocoPhillips.

17. Transfer of Discharge Permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser a approved by the OCD prior to transfer.

18. Closure: The OCD will be notified when operations of the facility are discontinued for a period in exce of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in eff at the time of closure.

19. Certification: **Frontier Field Services, LLC** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Frontier Field Services, L** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Frontier Field Services, LLC**

_____
Company Representative- print name

_____ Date_____
Company Representative- Sign

Title_____

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. _____ dated 2/19/08

or cash received on _____ in the amount of $ 4000 00

from Frontier Field Services

for GW-20

Submitted by: Lawrence Romero Date: 2/27/08

Submitted to ASD by: [signature] Date: 2/27/08

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal ✓

Modification _____ Other _____

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

Frontier Field Services, LLC
Southern Ute Indian Tribe
4200 E. Skelly Drive, Suite 700, Tulsa, OK 74135
Phone (918) 492-4450 • Fax (918) 492-4701

February 19, 2008

Mr. Wayne Price
Water Quality Management Fund
New Mexico Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505

RE: Discharge Permit GW-020 Renewal
Maljamar Gas Plant, Frontier Field Services, LLC

Dear Mr. Price:

Please find enclosed the signed groundwater discharge permit renewal for the Maljamar Gas Plant along with a check for the $4,000 fee made payable to the Water Quality Management Fund as requested in your email of February 15, 2008 to Mr. Ray Spencer of Frontier Field Services, LLC.

Thank you for bringing this oversight to our attention. Should there be any further necessary actions, please contact me at (918) 388-8401 or at my email address tholmes@frontierfieldservices.com and I will make all efforts to address the situation immediately.

Sincerely,

Teri S. Holmes
Environmental Compliance Manager

Cc: John Prentiss
Chad Cagle

Enclosures

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

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

June 13, 2005

Attention: Mr. Ray Spencer

Randy L. McCollum
Frontier Field Services, LLC
P.O. Box 07
1001 Conoco Road
Maljamar, New Mexico 88260

Re: Discharge Permit GW-020 Renewal
Maljamar Gas Permit

Dear Mr. McCollum:

The groundwater discharge permit renewal for the Frontier Field Services, LLC Maljamar Gas Plant GW-020 located in the SE/4 SW/4 of Section 21, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within 30 working days of receipt of this letter.**

The original discharge permit was approved on June 10, 1985 with an expiration date of June 10, 1990 and subsequently renewed on February 24, 1995, May 18, 2000 and amended on July 27, 2000. The discharge permit renewal application dated May 14, 2005 including attachments, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge permit is renewed pursuant to Section 3109.C. Please note Section 3109.G, which provides for possible future amendment of the permit. Please be advised that approval of this permit does not relieve Frontier Field Services, LLC of responsibility should operations result in pollution of surface water, ground water or the environment. Nor does it relieve Frontier Field Services, LLC of its responsibility to comply with any other governmental authority's rules and regulations. Please be advised that all exposed pits, including lined pits and open top tanks

(exceeding 16 feet in diameter) shall be screened, netted, or otherwise rendered nonhazardous to wildlife including migratory birds.

Please note that Section 3104. of the regulations requires that "when a permit has been approved, discharges must be consistent with the terms and conditions of the permit." Pursuant to Section 3107.C., the OCD Director shall be notified 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 3109.H.4., this approval is for a period of five years. **This approval will expire July 27, 2010** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge permit renewal application at least 120 days before the discharge permit expires and is in compliance with the approved permit, then the existing discharge permit will not expire until the application for renewal has been approved or disapproved.

The discharge permit application is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge permit will be assessed a fee equal to the filing fee of $100 plus a renewal flat fee of $4000.00 for a Gas Plant.

Please make all checks payable to: Water Quality Management Fund
C/o: Oil Conservation Division
1220 S. Saint Francis
Santa Fe, New Mexico 87505.

If you have any questions, please contact Wayne Price of my staff at (505-476-3487) or E-mail wayne.price@state.nm.us. On behalf of the staff of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

Original recreated by Wayne Price 2/15/08
Roger C. Anderson
Environmental Bureau Chief

RCA/lwp
Attachments-1
xc: OCD District Office

ATTACHMENT TO THE DISCHARGE PERMIT
Frontier Field Services, LLC, Maljamar Gas Plant (GW-020)
DISCHARGE PERMIT APPROVAL CONDITIONS
June 13, 2005

1. Payment of Discharge Permit Fees: The $100.00 filing fee has been received. The $4000.00 flat fee shall be submitted upon receipt of this approval. The required flat fee may be paid in a single payment due at the time of approval, or in equal annual installments over the duration of the permit, with the first payment due upon receipt of this approval.

2. Commitments: The permit holder will abide by all commitments submitted in the discharge permit renewal application and these conditions for approval.

3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plan. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.

6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

8. Below Grade Tanks/Sumps/Pits/Ponds: All below grade tanks, sumps, pits and ponds must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design, unless approved otherwise. All below grade tanks, sumps and pits must be tested annually or as specified herein, except systems that have secondary containment with leak detection. These

systems with leak detection shall have a monthly inspection of the leak detection to determine if the primary containment is leaking. Results of tests and inspections shall be maintained at the facility covered by this discharge permit and available for OCD inspection. Any system found to be leaking shall be reported to OCD within 15 days. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be approved by the OCD prior to installation and must be tested to demonstrate their mechanical integrity every five (5) years. Results of such tests shall be maintained at the facility covered by this discharge permit and available for OCD inspection. Permit holders may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. Any system found to be leaking shall be reported to OCD within 15 days. The OCD will be notified at least 72 hours prior to all testing.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery.

12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203.

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge permit will be approved by OCD on a case-by-case basis.

    Rule 712 Waste: Pursuant to Rule 712, disposal of certain non-domestic waste is allowed at solid waste facilities permitted by the New Mexico Environment Department as long as the waste stream is identified in the discharge permit, and existing process knowledge of the waste stream does not change without notification to the Oil Conservation Division.

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections.

15. Storm Water Plan: Stormwater runoff plans and controls shall be maintained. As a result of operations if any water contaminant that exceeds the WQCC standards listed in 20 NMAC 6.2.3101 is discharged in any stormwater run-off then immediate corrective actions shall be taken to stop the discharge. OCD shall be notified within 24 hours of discovery and the permit shall be modified within 15 days and submitted for OCD approval.

16. Vadose Zone and Water Pollution: The previously submitted investigation(s) and remediation plans were submitted pursuant to the discharge permit and all future discoveries of contamination will be addressed through the discharge permit.

Special Note: The existing groundwater investigation and remediation systems are being maintained by the previous owner ConocoPhillips.

17. Transfer of Discharge Permit: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge permit. A written commitment to comply with the terms and conditions of the previously approved discharge permit must be submitted by the purchaser and approved by the OCD prior to transfer.

18. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure permit will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

19. Certification: **Frontier Field Services, LLC** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Frontier Field Services, LLC** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Frontier Field Services, LLC**

Michael Hicks
Company Representative- print name

Michael Hicks Date 2/19/08
Company Representative- Sign

Title President

NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

May 21, 2001

CERTIFIED MAIL
RETURN RECEIPT NO. 5357 8253

Mr. Mark Bishop
Conoco Inc.
P.O. Box 90
Maljamar, New Mexico 88264

Re: Minor Modification of Discharge Plan GW-020
Proposal to Discharge Treated RO Water From the Conoco Maljamar Gas Plant to the Conoco MCA Playa Lake Project located in West 1/2 of NE/4 of Sec 27-Ts17s-R32E Lea County, New Mexico.

Dear Mr. Bishop:

The New Mexico Oil Conservation Division (OCD) is in receipt of the above captioned proposal dated February 21, 2001. The OCD hereby approves of the minor modification of the discharge plan GW-020 to discharge treated plant waste water into the MCA Playa Lake Project located in West 1/2 of the NE 1/4, Section 27, T17S, R32E Lea County, New Mexico with the following conditions:

1. The water discharged to the playa lake shall not exceed the groundwater standards as found in 20 NMAC 6.2.3103 of the New Mexico Water Quality Control Commission (WQCC) Regulations. Any exceedence of the standards shall be report immediately to the OCD and Conoco Inc. shall immediately cease discharging into the playa lake.

2. The water discharged to the MCA Playa Lake Project shall be sampled and analyzed annually for concentrations of Volatile Organics EPA method 8260, Semi-Volatile Organics method 8270, total dissolved solids (TDS) and New Mexico Water Quality Control Commission (WQCC) metals and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC) procedures.

3. Conoco shall meter the volume of water being discharged to the playa lake on a monthly basis and the results submitted along with of the test results from item (2) in the annual report due on **September 15,** of each year.

Please be advised that NMOCD approval of this plan does not relieve Conoco Inc. of liability should their operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Conoco Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions, please contact Wayne Price of my staff at (505-476-3487). 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,

Roger C. Anderson
Environmental Bureau Chief

RCA/lwp

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 27, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 5208

Mr. Rudy Quiroz-PSM
Conoco Inc.
P.O. Box 90
Maljamar, New Mexico 88264

Re: Maljamar Gas Plant
Discharge Plan GW-020
Work Plan to Address Materials/Waste Stored in South Plant Area, including an Investigation of the Vadose Zone Pursuant to Section 14 A. Discharge Plan GW-020 Renewal.

Dear Mr. Rudy Quiroz:

The New Mexico Oil Conservation Division (OCD) is in receipt of Conoco Inc.'s Work Plan dated July 13, 2000. The plan is hereby approved subject to the following additional conditions:

1. The south plant storage area shall be screened for TPH, BTEX, and Total WQCC Metals. There shall be a minimum of four composite surface samples collected (0-6") and analyzed for the above constituents using EPA methods.

2. All soil samples collected from borings that are retained for laboratory analysis will also be analyzed for General Chemistry (major cations and anions) using EPA methods.

3. All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. NMOCD approves on a one-time basis the disposal of Items 1, 2, and 4, of the Conoco Maljamar Gas Plant "Scope of Work for the South Plant storage area. to be disposed of at the Lea County Landfill. Conoco shall retain all waste disposal records.

Please be advised that NMOCD approval of this plan does not relieve Conoco Inc. of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Conoco Inc. of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Sincerely Yours;

Wayne Price-Pet. Engr. Spec.

cc: OCD Hobbs Office
Joyce Woodfin-Conoco Inc.
Don Beardsley-NMED-SWB

ATTACHMENT TO THE DISCHARGE PLAN GW-020 APPROVAL
Conoco Inc., Maljamar Gas Plant (GW-020)
DISCHARGE PLAN APPROVAL CONDITIONS
Amended July 27, 2000

1. Payment of Discharge Plan Fees: The $50.00 filing fee and the $1667.50 flat fee has been received by OCD.

2. Commitments: Conoco Inc. will abide by all commitments submitted in the discharge plan renewal application dated February 01, 2000, **supplemental information dated June 21, 2000, July 13, 2000** and these conditions for approval.

3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.

6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

8. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must be tested to demonstrate their mechanical integrity no later than July 15, 2000 and every year from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in an annual report due on **September 15,** of each year.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than July 15, 2000 and every 5 years, from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in the annual report due on **September 15,** 2000.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only **is regulated and** permitted by the New Mexico Environment Department.

11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices, **except the Clark engine room vaults,** will be emptied of fluids, **other than fresh water**, within 48 hours of discovery. **The Clark engine room vaults shall be emptied a minimum of once a month.**

12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Hobbs District Office **and Santa Fe Environmental Bureau.**

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections. As a result of NMOCD's recent inspection of the facility conducted on May 09, 2000 (copy enclosed) the following additional conditions will be required:

    A. Conoco Inc. will submit for OCD approval by July 15, 2000 a plan to address materials and waste being stored at the plant's south storage area including a site investigation of the vadose zone.

    B. Conoco Inc. will submit the results of the recent investigation of the wastewater /skimmer tank and pit area by **September 15, 2000.**

C. Conoco Inc. will include the Clark Compressor Building containment sumps and the plant wastewater discharge line in the testing programs as outlined above in conditions 8.(Below Grade Tanks/Sumps:); and 9.(Underground Process/Wastewater Lines:).

Special Condition: The Clark engine room vaults shall be inspected on an semi-annual basis.

D. Conoco Inc. will submit for OCD approval by **September 15, 2000** a plan to install impermeable containment and berms at the plant's wastewater /skimmer tank and pit area.

15. Storm Water Plan: Conoco Inc. will submit a storm water run-off plan for OCD approval by **September 15, 2000.**

16. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

17. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

18. Certification: *Conoco Inc.* by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. *Conoco Inc.* further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: *Conoco Inc.*

Joyce Miley
Company Representative- print name

Joyce Miley Date 8-16-00
Company Representative- Sign

Title Environmental Consultant

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

July 27, 2000

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 5208

Mr. Rudy Quiroz-PSM
Conoco Inc.
P.O. Box 90
Maljamar, New Mexico 88264

Re: Discharge Plan GW-020 Renewal
Maljamar Gas Plant

Dear Mr. Rudy Quiroz:

The groundwater discharge plan renewal for the Conoco Inc. Maljamar Gas Plant GW-020 operated by Conoco Inc. located in the SE/4 SW/4 of Section 21, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico, **was approved** on May 18, 2000. On June 21, 2000 Conoco Inc. requested certain changes be made to the "Discharge Plan Approval Conditions". Please find enclosed an amended "Discharge Plan Approval Conditions" dated July 27, 2000. Please note the NMOCD was able to incorporate all of your request, except item #15. **Storm Water Plan.** Conoco shall submit a plan that ensures that contamination will not run-off of your property.

The "Discharge Plan Approval Conditions" amended items are bold face for your reference. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within ten working days of receipt of this letter.**

Sincerely Yours;

Wayne Price

Wayne Price-Pet. Engr. Spec.

Cc: OCD Hobbs Office
Joyce Woodfin-Conoco Inc.

ATTACHMENT TO THE DISCHARGE PLAN GW-020 APPROVAL
Conoco Inc., Maljamar Gas Plant (GW-020)
DISCHARGE PLAN APPROVAL CONDITIONS
Amended July 27, 2000

1. Payment of Discharge Plan Fees: The $50.00 filing fee and the $1667.50 flat fee has been received by OCD.

2. Commitments: Conoco Inc. will abide by all commitments submitted in the discharge plan renewal application dated February 01, 2000, **supplemental information dated June 21, 2000, July 13, 2000** and these conditions for approval.

3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.

6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

7. Labeling: All tanks, drums, and other containers should be clearly labeled to identify their contents and other emergency information necessary if the tank were to rupture, spill, or ignite.

8. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must be tested to demonstrate their mechanical integrity no later than July 15, 2000 and every year from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in an annual report due on **September 15,** of each year.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than July 15, 2000 and every 5 years, from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in the annual report due on **September 15,** 2000.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only **is regulated and** permitted by the New Mexico Environment Department.

11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices, **except the Clark engine room vaults,** will be emptied of fluids, **other than fresh water**, within 48 hours of discovery. **The Clark engine room vaults shall be emptied a minimum of once a month.**

12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Hobbs District Office **and Santa Fe Environmental Bureau.**

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections. As a result of NMOCD's recent inspection of the facility conducted on May 09, 2000 (copy enclosed) the following additional conditions will be required:

    A. Conoco Inc. will submit for OCD approval by July 15, 2000 a plan to address materials and waste being stored at the plant's south storage area including a site investigation of the vadose zone.

    B. Conoco Inc. will submit the results of the recent investigation of the wastewater /skimmer tank and pit area by **September 15, 2000.**

C. Conoco Inc. will include the Clark Compressor Building containment sumps and the plant wastewater discharge line in the testing programs as outlined above in conditions 8.(Below Grade Tanks/Sumps:); and 9.(Underground Process/Wastewater Lines:).

Special Condition: The Clark engine room vaults shall be inspected on an semi-annual basis.

D. Conoco Inc. will submit for OCD approval by **September 15, 2000** a plan to install impermeable containment and berms at the plant's wastewater /skimmer tank and pit area.

15. Storm Water Plan: Conoco Inc. will submit a storm water run-off plan for OCD approval by **September 15, 2000.**

16. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

17. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

18. Certification: *Conoco Inc.* by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. *Conoco Inc.* further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: *Conoco Inc.*

_____
Company Representative- print name

_____ Date_____
Company Representative- Sign

Title_____

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

May 18, 2000

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFIED MAIL
RETURN RECEIPT NO. 5051 5833

Mr. Rudy Quiroz-PSM
Conoco Inc.
P.O. Box 90
Maljamar, New Mexico 88264

Re: Discharge Plan GW-020 Renewal
Maljamar Gas Plant

Dear Mr. Rudy Quiroz:

The groundwater discharge plan renewal for the Conoco Inc. Maljamar Gas Plant GW-020 operated by Conoco Inc. located in the SE/4 SW/4 of Section 21, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the New Mexico Oil Conservation Division (OCD) Santa Fe Office within ten working days of receipt of this letter.**

The original discharge plan was approved on June 10, 1985 with an expiration date of June 10, 1990 and subsequently renewed on February 24, 1995. The discharge plan renewal application dated February 01, 2000 including attachments, submitted pursuant to Section 3106 of the New Mexico Water Quality Control Commission (WQCC) Regulations also includes all earlier applications and all conditions later placed on those approvals.

The discharge plan is renewed pursuant to Section 3109.C. Please note Section 3109.G., which provides for possible future amendment of the plan. Please be advised that approval of this plan does not relieve Conoco Inc. of liability should operations result in pollution of surface or ground waters, or the environment.

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

Please note that Section 3104. of the regulations requires that "when a plan has been approved, discharges must be consistent with the terms and conditions of the plan." Pursuant to Section 3107.C., Conoco Inc. is 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 3109.H.4., this approval is for a period of five years. **This approval will expire June 10, 2005** and an application for renewal should be submitted in ample time before that date. Pursuant to Section 3106.F. of the regulations, if a discharger submits a discharge plan renewal application at least 120 days before the discharge plan expires and is in compliance with the approved plan, then the existing discharge plan will not expire until the application for renewal has been approved or disapproved. It should be noted that all discharge plan facilities 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 Conoco Inc., Maljamar Gas Plant is subject to the WQCC Regulation 3114. Every billable facility submitting a discharge plan will be assessed a fee equal to the filing fee of $50 plus a renewal flat fee of $1667.50 for a Gas Plant. The OCD has not received the $1667.50 flat fee. The flat fee of $1667.50 may be paid in a single payment due on the date of the discharge plan approval or in five equal installments over the expected duration of the discharge plan. Installment payments shall be remitted yearly, with the first installment due on the date of the discharge plan approval and subsequent installments due on this date of each calendar year.

Please make all checks payable to: Water Quality Management Fund
C/o: Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505.

If you have any questions, please contact Wayne Price of my staff at (505-827-7155). 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,

Roger C. Anderson
Environmental Bureau Chief

RCA/lwp
Attachment-2
xc: OCD Hobbs Office

ATTACHMENT TO THE DISCHARGE PLAN GW-020 APPROVAL
Conoco Inc., Maljamar Gas Plant (GW-020)
DISCHARGE PLAN APPROVAL CONDITIONS
May 18, 2000

1. Payment of Discharge Plan Fees: The $50.00 filing fee has been received by OCD. The $1667.50 flat fee shall be submitted upon receipt of this approval. The required flat fee 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. Commitments: Conoco Inc. will abide by all commitments submitted in the discharge plan renewal application dated February 01, 2000 and these conditions for approval.

3. Drum Storage: All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums should be stored on their sides with the bungs in place and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets must also be stored on an impermeable pad with curbing.

4. Process Areas: All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

5. Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm.

6. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

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8. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must be tested to demonstrate their mechanical integrity no later than July 15, 2000 and every year from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in an annual report due on August 15, of each year.

9. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity no later than July 15, 2000 and every 5 years, from tested date, thereafter. Permittees may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing. The test results will be submitted to OCD in the annual report due on August 15, 2000.

10. Class V Wells: No Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be approved for construction and/or operation unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

11. Housekeeping: All systems designed for spill collection/prevention, and leak detection will be inspected daily to ensure proper operation and to prevent over topping or system failure. All spill collection and/or secondary containment devices will be emptied of fluids within 48 hours of discovery.

12. Spill Reporting: All spills/releases shall be reported pursuant to OCD Rule 116. and WQCC 1203. to the OCD Hobbs District Office.

13. Waste Disposal: All wastes will be disposed of at an OCD approved facility. Only oilfield exempt wastes shall be disposed of down Class II injection wells. Non-exempt oilfield wastes that are non-hazardous may be disposed of at an OCD approved facility upon proper waste determination per 40 CFR Part 261. Any waste stream that is not listed in the discharge plan will be approved by OCD on a case-by-case basis.

14. OCD Inspections: Additional requirements may be placed on the facility based upon results from OCD inspections. As a result of NMOCD's recent inspection of the facility conducted on May 09, 2000 (copy enclosed) the following additional conditions will be required:

    A. Conoco Inc. will submit for OCD approval by July 15, 2000 a plan to address materials and waste being stored at the plant's south storage area including a site investigation of the vadose zone.

    B. Conoco Inc. will submit the results of the recent investigation of the wastewater /skimmer tank and pit area by July 15, 2000.

    C. Conoco Inc. will include the Clark Compressor Building containment sumps and the plant wastewater discharge line in the testing programs as outlined above in conditions 8.(Below Grade Tanks/Sumps:); and 9.(Underground Process/Wastewater Lines:).

D. Conoco Inc. will submit for OCD approval by July 15, 2000 a plan to install impermeable containment and berms at the plant's wastewater /skimmer tank and pit area.

15. Storm Water Plan: Conoco Inc. will submit a storm water run-off plan for OCD approval by July 15, 2000.

16. Transfer of Discharge Plan: The OCD will be notified prior to any transfer of ownership, control, or possession of a facility with an approved discharge plan. A written commitment to comply with the terms and conditions of the previously approved discharge plan must be submitted by the purchaser and approved by the OCD prior to transfer.

17. Closure: The OCD will be notified when operations of the facility are discontinued for a period in excess of six months. Prior to closure of the facility a closure plan will be submitted for approval by the Director. Closure and waste disposal will be in accordance with the statutes, rules and regulations in effect at the time of closure.

18. Certification: **Conoco Inc.** by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. **Conoco Inc.** further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Conditions accepted by: **Conoco Inc.**

_____
Company Representative- print name

_____Date_____
Company Representative- Sign

Title_____

Joyce M. Woodfin
Environmental Consultant
Engineering and Compliance
Natural Gas & Gas Products Department

Conoco Inc.
600 N. Dairy Ashford Rd.
P.O. Box 2197, HU3036
Houston, TX 77252
Telephone: (281) 293-4498
Facsimile: (281) 293-1214

Certified Mail No. P 365 861 683
Return Receipt Requested

February 16, 2000

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505
Attn: Wayne Price

Re: Discharge Plan Renewal
Maljamar Gas Processing Plant
Conoco Inc., Natural Gas & Gas Products Department

Dear Mr. Price:

As requested, please find attached a check in the amount of $50.00 for the Discharge Plan Renewal filing fee for the Maljamar Gas Processing Plant.

If you have any questions, please call Ms. Ashley Finnan at (281) 293-3438 or myself at (281) 293-4498. Thank you for your assistance in this matter.

Sincerely,

Joyce Woodfin

Joyce M. Woodfin

Vendor Code: 216596R01 Company: 001 - CONOCO INC Check No.: [redacted]

S H	Voucher Reference	Invoice Date	Invoice Num	1099 CD	Gross Amount	ADJ CD	Adjustment Amount	Discount Amount	Net Amount
	VENDOR NAME: STATE OF NEW MEXICO								
	IN CASE OF QUESTIONS ABOUT THE FOLLOWING INVOICES, PLEASE CALL (281) 293-6742								
S	0206115DC0451001	20000204	RQC129005		50.00		.00	.00	50.00
	*MALJAMAR DISCHARGE PLAN RENEWAL (FILING FEE)								
	* * * INQUIRIES ON ABOVE INVOICES SHOULD BE DIRECTED TO PHONE NO. LISTED ABOVE								
							TOTAL NET AMOUNT		$50.00

1099 CODES - R=RENTAL L=ROYALTIES P=PERSONAL SERVICES M=MEDICAL I=INTEREST F=FOREIGN VDR PYMT N=NET PROFIT
D=PERMIT/DAMAGE G=PRIZES/AWARDS C=BWP REFUND/INTEREST B=BWP REFUND/MISC A=NON-REPORTABLE TYPES
ADJ CODES - Q=WRONG QUANTITY P=WRONG PRICE C=WRONG CALCULATION M=MULTIPLE ERRORS F=CORRECTED FREIGHT CHARGES
D=CORRECTED DISCOUNT T=TAX REMOVAL B=BACKUP WITHHOLDING OF 31% PER IRS REGULATIONS O=OTHER

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2/15/2000,
or cash received on _____ in the amount of $ 50.00
from CONOCO
for MALJAMAR GAS PLANT GW-020
(Facility Name) (OCD No.)
Submitted by: WAYNE PRICE Date: 2/22/00
Submitted to ASD by: [signature] Date: 2/24/00
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 ___

CONOCO

CONOCO INC
PONCA CITY, OK 74602

No. [redacted]

62-2
311

To: Citibank Delaware
New Castle, DE 19720

*** VOID AFTER 90 DAYS ***

FEBRUARY 15, 2000

Vendor Code: 216596R01

Exactly **********$50.00**

Pay To the Order Of
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
ENERGY & MINERALS DEPT
STATE LAND OFFICE BLDG
PO BOX 2088
SANTA FE NM 87504-2088

Authorized Signature

GW-020

[redacted]

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 24, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-825

Mr. Rick McCalip
Director of Safety & Environmental Services
Conoco, Inc., Natural Gas and Gas Products Department
P.O. Box 2197 - HU3000
Houston, Texas 77252-2197

RE: Discharge Plan Renewal GW-20
Maljamar Gas Plant
Lea County, New Mexico

Dear Mr. McCalip:

The discharge plan renewal GW-20 for the Conoco, Inc. Maljamar Gas Processing Plant located in the SE/4 of the SW/4 of Section 21, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico, **is hereby approved** under the conditions contained in the enclosed attachment. The discharge plan renewal consists of the application dated November 29, 1994.

The discharge plan renewal was submitted pursuant to Section 3-106 of the New Mexico Water Quality Control Commission (WQCC) Regulations. It is approved 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 June 10, 2000, and you should submit an application in ample time before this date. It should be noted that all gas processing plants 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 Conoco, Inc. Maljamar Gas Processing Plant is subject to WQCC Regulation 3-114 discharge plan fee. Every billable facility submitting a discharge plan 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.

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

On behalf of the staff of the 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
David Westmoreland, Plant Manager, Maljamar, NM

ATTACHMENT TO THE DISCHARGE PLAN GW-20 APPROVAL
CONOCO, INC.
MALJAMAR GAS PROCESSING PLANT
DISCHARGE PLAN REQUIREMENTS
(February 24, 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/or fluids. Routine inspections will be made of all such areas and any sediments and/or fluids found will be removed and disposed of at an approved facility.

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

March 13, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-828

Mr. Jeff Driver
Maljamar Gas Plant
P.O. Box 90
Maljamar, NM 88264

RE: Amine Cleaning Solution Disposal
Lea County, New Mexico

Dear Mr. Driver:

The New Mexico Oil Conservation Division (OCD) has received your request dated, March 10, 1995, for approval to dispose of approximately 800 barrels of amine system cleaning solution from the Maljamar Gas Plant.

Based on the total metal analysis provided, the disposal is approved under the following condition:

1. The cleaning solution will be disposed of in an OCD approved class I or II well, or an OCD approved surface disposal facility.

Please be advised that OCD approval does not relieve Maljamar Gas Plant of liability should it later be found that contamination exists which could pose a threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve Maljamar Gas Plant of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions regarding this matter, please feel free to call me at (505) 827-7155

Sincerely,

Mark Ashley
Environmental Geologist

xc: Jerry Sexton, OCD Hobbs
Wayne Price, OCD Hobbs

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

July 21, 1987

GARREY CARRUTHERS
GOVERNOR

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Rick McCalip, Coordinator
Natural Gas Products Department
Conoco, Inc.
P.O. Box 2197
Houston, Texas 77252

RE: Discharge Plan (GW-20) Modification
Maljamar Gas Processing Plant
Lea County, New Mexico

Dear Mr. McCalip:

The Oil Conservation Division has received your letter dated July 2, 1987 outlining minor revisions in the operations of the above referenced facility. The revisions were reviewed as modifications to the original discharge plan that was approved on June 10, 1985. The notification of modification was pursuant to WQCC regulation 3-107.C.

Based on the information contained in your letter, the Oil Conservation Division has determined that the proposed changes do not require a public notice and administrative approval is hereby granted. Please be advised that the approval of this modification does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

There will be no routine monitoring or reporting requirements other than those mentioned in the plan.

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

Sincerely,

WILLIAM J. LEMAY
Director

WJL/RA/cr

xc: OCD-Hobbs

50 YEARS

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

1935 - 1985

TONEY ANAYA
GOVERNOR

June 10, 1985

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

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Conoco Inc.
P.O. Box 2197
Suite 410 RT
Houston, Texas 77252

Attention: Ms. L. Daniel

Dear Ms. Daniel:

The ground water discharge plan (GW-20) for Conoco Inc.'s Maljamar gas processing plant located in Sections 21 and 28, Township 17 South, Range 32 East, NMPM, Lea County, New Mexico, is hereby approved. The approved discharge plan consists of the plan dated May 31, 1984, and the materials dated March 7, 1985, May 28, 1985, May 31, 1985, and June 7, 1985, submitted as supplements to the discharge plan.

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

There will be no routine monitoring or reporting requirements. Reporting of spills or leaks will be made to the OCD District Office in Hobbs, New Mexico.

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

Pursuant to subsection 3-109.G.4., this plan approval is for a period of five years. This approval will expire June 10, 1990, and you should submit an application for new approval in ample time before that date.

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

Sincerely,

R. L. STAMETS
Director

PLS/PB/dp

cc: OCD-Hobbs