GW - 169

GENERAL CORRESPONDENCE

YEAR(S):

2004 - 1994

Environmental Department
188 County Road 4900
Bloomfield, NM 87413
505/632-4625
505/632-4781 Fax

November 4, 2004

Mr. W. Jack Ford
State of New Mexico
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Discharge Plan Inactivation
La Maquina gas Plant Discharge Plan: GW-169
Section 12, Twp 29N, Rng 11 W, San Juan County, NM

Dear Mr. Ford,

The Discharge Plan for the Williams Field Services La Maquina Gas Plant, GW-169, is due to expire in January 2005. The plant, however, has been shut-down, and Williams is in the process of decommissioning the facility. As there are currently no plans to re-activate the site in the near future, renewal for Discharge Plan GW-169 will not be applied for at this time.

If any additional information is needed, please contact Mr. Myke Lane, Environmental Specialist, of Williams Field Services at (505) 632-4625 or Clara Garcia at (505) 632-4606.

Respectfully submitted,

Michael Lane
Williams Energy Services
Four Corners Area Environmental Specialist

Encl:

XC: La Maquina Environmental File: 220

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

November 3, 2004

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

Mr. Michael Lane
Williams Field Services
188 CR 4900
Bloomfield, New Mexico 87413

RE: Discharge Permit Renewal Notice for Williams Field Services Facilities

Dear Mr. Lane:

Williams Field Services has the following discharge permits which expire on the dates shown below.

GW-315 expires 1/3/2005 – Honolulu Compressor Station
GW-169 expires 1/4/2005 – La Maquina Gas Plant
GW-180 expires 2/21/2005 – Trunk L Compressor Station
GW-181 expires 2/21/2005 – Trunk M Compressor Station
GW-182 expires 2/21/2005 – Navajo CDP Compressor Station

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

The discharge permit renewal application for each of the above facilities is subject to WQCC Regulation 3114. Every billable facility submitting a discharge permit renewal will be assessed a fee equal to the filing fee of $100.00 plus a flat fee dependent upon horsepower rating for gas processing facilities. The $100.00 filing fee is submitted with the discharge permit renewal applications and is nonrefundable.

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

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

July 12, 2004

Mr. Michael Lane
Williams Field Services
188 CR 4900
Bloomfield, New Mexico 87413

RE: Discharge Plan Renewal Notice for Williams Field Services Facilities

Dear Mr. Lane:

The OCD is providing Williams Field Services a notice that the following discharge plans expire at various dates during the of the first quarter of 2005.

GW-315 expires 1/3/2005 – Honolulu Compressor Station
GW-169 expires 1/4/2005 – La Maquina Gas Plant
GW-182 expires 2/21/2005 – Navajo CDP Compressor Station
GW-181 expires 2/21/2005 - Trunk M Compressor Station
GW-180 expires 2/21/2005 - Trunk L Compressor Station

WQCC 20.6.2.3106.F. If the holder of an approved discharge plan submits an application for discharge plan renewal at least 120 days before the discharge plan expires, and the discharger is not in violation of the approved discharge plan on the date of its expiration, then the existing approved discharge plan for the same activity shall not expire until the application for renewal has been approved or disapproved. A discharge plan continued under this provision remains fully effective and enforceable. An application for discharge plan renewal must include and adequately address all of the information necessary for evaluation of a new discharge plan. Previously submitted materials may be included by reference provided they are current, readily available to the secretary and sufficiently identified to be retrieved. [12-1-95]

The discharge plan renewal application for each of the above facilities is subject to WQCC Regulation 20.6.2.3114. Every billable facility submitting a discharge plan renewal will be assessed a fee equal to the filing fee of $100.00 plus a flat fee based upon the horsepower rating or type of facility for gas processing facilities. The $100.00 filing fee for each facility is to be submitted with the discharge plan renewal application and is nonrefundable.

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

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

Sincerely,

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

cc: OCD Aztec District Office

Environmental Department
188 County Road 4900
Bloomfield, NM 87413
505/632-4634
505/632-4781 Fax

September 5, 2002

W. Jack Ford, CPG
Water Resource Engineering Specialist
OCD Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505

Sent Via Fax: (505) 476-3462

re: Request for Deionized Water Disposal
Williams Field Services
La Maquina Gas Plant, San Juan County, NM
Ground Water Discharge Plan **GW-169**

Dear Mr. Ford,

This letter is to request permission to discharge deionized water to the storm water impoundment at the Williams Field Services' (WFS) La Maquina Gas Plant located in San Juan County, New Mexico. The deionized water is stored in the 400 bbl storage tank located in Area 2 (refer to Discharge Plan GW-169) of the facility as the process and treatment water supply. WFS is planning to temporarily shut down the plant, and to avoid possible freeze damage will be draining the deionize water. Only deionized water will be drained to the impoundment and the water contains no chemical contaminants.

We are planning to drain the water later this month and would appreciate approval as soon as practical. If you have any questions, please call me at (505) 632-4625. Thanks you for your consideration.

Respectfully submitted,

Michael K. Lane
Senior Environmental Specialist

Xc: Don Wicburg, FCA North
Dan Naylor, La Maquina Team Leader

Environmental Department
188 County Road 4900
Bloomfield, NM 87413
505/632-4634
505/632-4781 Fax

September 5, 2002

W. Jack Ford, CPG
Water Resource Engineering Specialist
OCD Environmental Bureau
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We are planning to drain the water later this month and would appreciate approval as soon as practical. If you have any questions, please call me at (505) 632-4625. Thanks you for your consideration.

Respectfully submitted,

Michael K. Lane
Senior Environmental Specialist

Xc: Don Wicburg, FCA North
Dan Naylor, La Maquina Team Leader

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 1-14-00,

or cash received on _____ in the amount of $ 1,667.50

from Williams Field Services

for La Maquina Gas Plant (Facility Name) GW-169 (OCD No.)

Submitted by: [signature] Date: 1-21-00

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ___ New Facility ___ Renewal V

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 2000

To be deposited in the Water Quality Management Fund.

Full Payment V or Annual Increment ___

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM. IT ALSO HAS A REFLECTIVE WATERMARK ON THE BACK.

COMMUNITY NATIONAL BANK
OKARCHE, OK 73762

WILLIAMS FIELD SERVICES COMPANY
1800 South Baltimore Avenue * P.O. Box 645 * Tulsa, OK 74101-0645

86-355
1031

[redacted]

DATE: 01/14/2000

PAY TO THE ORDER OF:

PAY ******$1,667.50

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 S PACHECO

SANTA FE
United States

NM 87504

VOID AFTER 180 DAYS

[signature]

Authorized Signer

MA-1353 (6/97)

[redacted]

INVOICE NUMBER	INVOICE DATE	BATCH NAME	INVOICE DESCRIPTION	NET AMOUNT
GW16901-2000	20000[redacted]	0000934SLC01200007010	INVOICE #GW1690[redacted]000, LA MAQUINA GAS PLAN	1,667.50

CHECK NUMBER	PAY DATE	SUPPLIER NUMBER	SUPPLIER NAME	TOTAL AMOUNT
[redacted]	01/14/2000	40665	NEW MEXICO OIL CONSERVATION DI	$1,667.50

Williams

295 Chipeta Way
P.O. Box 58900
Salt Lake City, UT 84108
801/584-6543
801/584-7760

December 15, 1999

Mr. Jack Ford
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Underground Line Testing Results at Williams Field Services La Maquina Plant (GW-169)

Dear Mr. Ford:

Enclosed, please find a copy of the results of the underground drain line testing that was performed at the Williams Field Services (WFS) La Maquina Plant in December 1999.

If you have any questions concerning this submittal, please call me at 801-584-6543.

Sincerely,

Ingrid Deklau
Environmental Specialist

enclosures

XC: Denny Foust, NM OCD

Williams

ENERGY SERVICES

IN-SERVICE VISUAL EXAMINATION FOR LEAKAGE REPORT

Facility / Unit / Train: LA Maquina Drain System VT Report Number: 00001

Part / Component / Equipment / System: Closed Drain System to TK-303 (Slop Oil Tank)

Part / Component / Equipment Drawing No.: 47-00-5 A&B Revision / Issue: 3

P&ID Number(s) & Revision: 47-00-05A Line Number(s): 2"DD-102-ACA

Other identifying or traceable information: 2" Closed Drain Sys. to TK-303 Slop Tank

Inspection Procedure & Revision / Issue: 10.41.503 Issue #02 Date: 3/15/99

Pressure Test Procedure & Revision / Issue: N/A Date:

Part / Component / Equipment / System Parameters during test:

Temperature: (°F) Pressure: (psia) 3 lbs. Ambient Temperature: (°F) 43

Test Start Date / Time: 12/13/99 / 10:00 Test Stop Date / Time: 12/13/99 / 11:00

DESCRIPTION OF INSPECTION:

Equipment used for examination: 7' water column / visual leak inspection

Photograph or videotape identification:

AREA OBSERVED	LEAKAGE DETECTED		DESCRIPTION AND OTHER COMMENTS
	YES	NO	
5-100 dumpline		✓	Test held tight.
ADDITIONAL SHEETS ATTACHED [ ] YES			

Nonconformance Report Issued, No.

Comments:

Inspection performed by: Ron Mahaffey Title: PSM Coordinator Date: 12/13/99

Inspection reviewed by: Roy Turner Title: Lead Mechanic Date: 12/13/99

Authorized Inspection Agency Date:

Williams

ENERGY SERVICES

IN-SERVICE VISUAL EXAMINATION FOR LEAKAGE REPORT

Facility / Unit / Train: LA Maquina Drain System VT Report Number: 00002

Part / Component / Equipment / System: Open Drain System to Classified Pond (SK-100)

Part / Component / Equipment Drawing No.: 47-DD-5A & B Revision / Issue: 3

P&ID Number(s) & Revision: 47-DD-05A Line Number(s): 4"DD-100-ACA

Other identifying or traceable information: 4" open drain Sys. to SK-100

Inspection Procedure & Revision / Issue: 10.41.503 Issue # 02 Date: 3/15/99

Pressure Test Procedure & Revision / Issue: N/A Date:

Part / Component / Equipment / System Parameters during test:

Temperature: (°F) Pressure: (psia) 3 lbs. Ambient Temperature: (°F) 43°

Test Start Date / Time: 12/13/99 / 0900 Test Stop Date / Time: 12/13/99 / 10:00

DESCRIPTION OF INSPECTION:

Equipment used for examination: 7' water column / visual leak inspection

Photograph or videotape identification:

AREA OBSERVED	LEAKAGE DETECTED		DESCRIPTION AND OTHER COMMENTS
	YES	NO	
Clean out		✓	Leak repairs made to TK-301 sump.
header off			Retest held.
skid 1B			
ADDITIONAL SHEETS ATTACHED [ ] YES			

Nonconformance Report Issued, No.

Comments:

Inspection performed by: Ron Mahaffey Title: BMCoordinator Date: 12/13/99

Inspection reviewed by: Roy Turner Title: Lead Mechanic Date: 12/13/99

Authorized Inspection Agency Date:

Williams

ENERGY SERVICES

IN-SERVICE VISUAL EXAMINATION FOR LEAKAGE REPORT

Facility / Unit / Train: LA Maquina Drain System VT Report Number: 00003

Part / Component / Equipment / System: Amine Drain to TK-102A

Part / Component / Equipment Drawing No.: 47-00-5A Revision / Issue: 3

P&ID Number(s) & Revision: 47-00-5A Line Number(s): 4"LA-720-ACA

Other identifying or traceable information: LA drain line to TK 102A Sump

Inspection Procedure & Revision / Issue: 10.41.503 Issue # 07 Date: 3/15/99

Pressure Test Procedure & Revision / Issue: N/A Date:

Part / Component / Equipment / System Parameters during test:

Temperature: (°F) Pressure: (psia) 3 Ambient Temperature: (°F) 41°

Test Start Date / Time: 12/7/99 11:15 Test Stop Date / Time: 12/7/99 12:30

DESCRIPTION OF INSPECTION:

Equipment used for examination: 7' PVC water column / visual level inspection

Photograph or videotape identification:

AREA OBSERVED	LEAKAGE DETECTED YES	LEAKAGE DETECTED NO	DESCRIPTION AND OTHER COMMENTS
Amine Drain Line		✓	slight leakage @ sump pump packing; tightened packing & greased, leak subsided during test.

ADDITIONAL SHEETS ATTACHED [ ] YES

Nonconformance Report Issued, No.

Comments:

Inspection performed by: Ronnie Mahaffey Title: PSM Coordinator Date: 12/7/99

Inspection reviewed by: Title: Operator 4 Date: 12/7/99

Authorized Inspection Agency Date:

Williams

ENERGY SERVICES

IN-SERVICE VISUAL EXAMINATION FOR LEAKAGE REPORT

Facility / Unit / Train: LA Maquina Drain System VT Report Number: 00004

Part / Component / Equipment / System: Amine Drain to TK-102B

Part / Component / Equipment Drawing No.: 47-00-5A Revision / Issue: 3

P&ID Number(s) & Revision: 47-00-5A Line Number(s): 4"LA-320-ACA

Other identifying or traceable information: L/A drain line to TK 102B Sump

Inspection Procedure & Revision / Issue: 10.41.503 Issue # 02 Date: 3/15/99

Pressure Test Procedure & Revision / Issue: N/A Date:

Part / Component / Equipment / System Parameters during test:

Temperature: (°F) Pressure: (psia) 3 Ambient Temperature: (°F) 47°

Test Start Date / Time: 12/7/99 | 1130 Test Stop Date / Time: 12/7/99 | 1230

DESCRIPTION OF INSPECTION:

Equipment used for examination: 7' water column / visual level inspection

Photograph or videotape identification:

AREA OBSERVED	LEAKAGE DETECTED YES	LEAKAGE DETECTED NO	DESCRIPTION AND OTHER COMMENTS
Amine drain line		✓	slight leakage @ sump pump packing, tightened packing & greased, leak subsided during test.
ADDITIONAL SHEETS ATTACHED [ ] YES			

Nonconformance Report Issued, No.

Comments:

Inspection performed by: Ronnie Mahaffey Title: PSM Coordinator Date: 12/7/99

Inspection reviewed by: Title: Operator 4 Date: 12/7/99

Authorized Inspection Agency Date:

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

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

Revised 12/1

Submit Origi
Plus 1 Cop
to Santa
1 Copy to appropri
District Off

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

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

☐ New ☒ Renewal ☐ Modification

1. Type: Natural Gas Plant
2. Operator: Williams Field Services
   Address: 295 Chipeta Way SLC UT 84108
   Contact Person: Ingrid Deklau Phone: 801-584-6543
3. Location: ____/4 ____/4 Section 27-28 Township 31 N Range 10 W
   Submit large scale topographic map showing exact location.
4. Attach the name, telephone number and address of the landowner of the facility site.
5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.
6. Attach a description of all materials stored or used at the facility.
7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.
10. Attach a routine inspection and maintenance plan to ensure permit compliance.
11. Attach a contingency plan for reporting and clean-up of spills or releases.
12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.
13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
14. CERTIFICATION

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

NAME: Ingrid Deklau Title: Envt'l Spec.

Signature: [signature] Date: 11/2/99

295 Chipeta Way
P.O. Box 58900
Salt Lake City, UT 84108
801/584-6543
801/584-7760

October 26, 1999

Mr. Jack Ford
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: OCD Discharge Plan Renewal: La Maquina Plant (GW-169)

Dear Mr. Ford:

Enclosed, please find Check Number 2214397 for $50 to cover the application fee for the Discharge Plan Renewal of Williams Field Services (WFS) La Maquina Plant (GW-169). The information attached serves to update the original discharge plan that was submitted to the OCD in July 1994, and only addresses information that is new or modified since the original plan. For your information, the complete list of documents which constitute the La Maquina Plant Discharge Plan are listed below.

October 26, 1995	OCD approval of modification
October 2, 1995	WFS application for modification – Stormwater pond
January 4, 1995	OCD approval of application
July 25, 1994	WFS application for Discharge Plan

If you have any questions, I can be reached at (801) 584-6543. Your assistance in handling these matters is appreciated.

Sincerely,

Ingrid A. Deklau
Environmental Specialist

enclosures

xc: Denny Foust, Aztec OCD Office

1.0 GENERAL INFORMATION

Legally Responsible Party
Williams Field Services
P.O. Box 58900
Salt Lake City, Utah 84158

Contact Person
Ingrid Deklau
(801)-584-6543
Address, same as above

2.0 PLANT PROCESSES EFFLUENT SOURCES, QUANTITIES, AND QUALITY OF EFFLUENT AND WASTE SOLIDS

Two of the three proposed trains are currently installed and operational at the plant.

Sumps. The July 1994 application states that a below-grade sump will be installed in a double-lined steel tank. There are currently four double-lined sumps installed at the facility; each sump is connected electronically to an audible alarm in the control room. Two of the sumps are amine regeneration sumps. Liquid collected in these sumps is directed back to the stripper for re-use in the system. Sump 301 is located off the southeast corner of the earthen berm surrounding the glycol, amine, and water tanks. This sump collects rainwater, washdown water, small quantities of amine, and potentially trace quantities of glycol and lube oil from process equipment such as the inlet gas skids, flash tank skids, and the amine filter housing skids. (Trace quantities of lube oil from inlet gas skids only). Liquid accumulated in this sump is directed to the evaporation pond. Sump 302 is located at the southwest corner of the generator building. This sump only collects fluids from the generator building, which typically include washdown water, lube oil, and ambitrol. Liquid from this sump is directed to the slop oil tank for storage. A facility plot plan is included, following this letter.

Boilers. The July 1994 application discussed the installation of three hot oil boilers at the facility. These units were not installed. Instead, two fired heaters have been installed, one to circulate oil for each amine process train. When a third train is installed, then a third heater would also likely be installed.

Glycol Regeneration Heater. Currently two of the three proposed units are installed and operational.

Waste Lubrication and Motor Oils. The application states that drums of lube oil would be stored in a concrete containment area. These drums are currently stored in a lined, dirt berm, but may be moved to a concrete curbed area, or other containment area, in the future.

Cleaning Operations Using Solvents/ Degreasers. Some solvents and degreasers are used periodically during maintenance or cleaning.

Tanks. The original application listed the installation of five tanks in two Areas. There are no changes to the description of those tanks; however, there are four additional tank Areas to discuss.

Area 3: located at the northwest corner of the facility, in a lined earthen berm.

(1) 210 bbl lube oil tank
(1) 100 bbl ambitrol tank (ethylene glycol)
(1) 100 bbl used oil tank

Area 4: located west of Area 1 and east of the generator building in concrete containment berm.

(1) 300 gal unleaded gasoline tank
(1) 300 gal solvent tank
(1) 300 gal diesel fuel tank

Area 5: located north of Areas 1 and 4, on concrete skids.

(2) 300 gal heat media storage tanks
(3) 46 bbl water off dehy, with trace glycol

Area 6: located centrally, along north fenceline of facility.

(2) 400 bbl mix amine storage tanks

Quality Characteristics

The following waste streams were not included in the original application. The table in the original application is still accurate, except that used lube oil is now stored in a 100 bbl tank, instead of the supplier's containers.

Process	Source	Quantity	Description	Disposition
Process Treatment Waste (i.e., carbon, etc.)	Gas treatment	Variable, over 15,000 lbs/yr	Variable, frequently traces of amine, glycol, or other process chemicals, exempt	Disposed at approved disposal facility
Spill Residue (i.e., soil, gravel) or other exempt waste	Incidental spills, leaks, or cleanup	Incident dependent	Incident dependent, may be exempt	Landfarm on site or dispose at approved facility
Used Absorbents	Incidental spills, leaks, or cleanup	Incident dependent	Incident dependent, may be exempt	Disposed at approved disposal facility
Lab Waste	On-site testing glycol, amine samples, etc.	~100 gal/yr	Non-hazardous, non-exempt	Disposed at approved disposal facility

3.0 TRANSFER AND STORAGE OF PROCESS FLUIDS AND EFFLUENTS

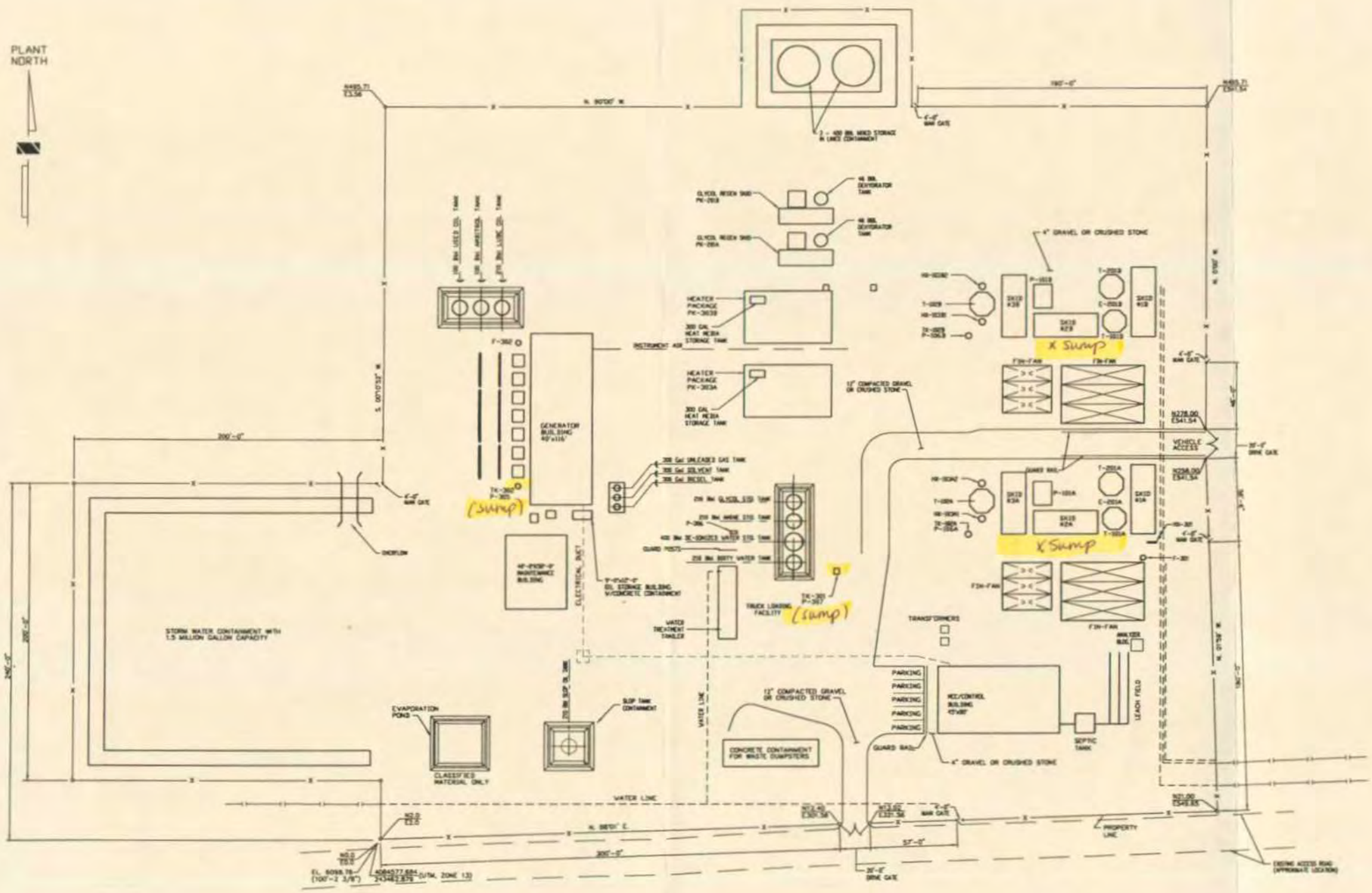
The original application states that 'fluids and effluents will be stored in five tanks on the facility.' Section 2 updates the additional tanks installed at the facility.

4.0 INSPECTION, MAINTENANCE, AND REPORTING

The first paragraph of the original application discusses the handling of leaks and spills in a very discrete sense. Not all spills can be grouped into the two categories listed, which are, 1) small spill absorbed with soil, or 2) large spill contained with temporary berms. However, these are contingencies that will be employed as necessary. Other methods may be employed as the situation dictates, and some spill residue may be landfarmed on site.

WFS Corporate policy and procedures for controlling and reporting of Discharges or Spills of Oil or Hazardous Substances is provided following this letter. WFS Environmental Affairs reports significant spills and leaks to the NMOCD pursuant to NMOCD Rule 116 and WQCC 1-203.

ATTACHMENT "A" PRODUCT & WASTE STORAGE LOCATIONS



REFERENCE DRAWINGS				REFERENCE DRAWINGS				REFERENCE DRAWINGS				REVISIONS											
DRAWING NO.	TITLE	DRAWING NO.	TITLE	DRAWING NO.	TITLE	DRAWING NO.	TITLE	NO.	DATE	BY	DESCRIPTION	W.O.NO.	CHK.	APP.	NO.	DATE	BY	DESCRIPTION	W.O.NO.	CHK.	APP.
															1	5/13/98	BCS	COE DRAWING REDRAWN ON 24"X36" BORDER			

DRAFTING	BY	DATE
DRAWN BY	BCS	5/13/98
CHECKED BY		
APPROVED BY		
ENGINEER	**BY**	**DATE**
DESIGNED BY		
PROJ APPROVED		

STATE: NEW MEXICO
COUNTY: SAN JUAN

WILLIAMS FIELD SERVICES
ONE OF THE WILLIAMS COMPANIES

LA MAQUINA AMINE TREATING PLANT
PLOT PLAN
SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

SCALE: 1" = 40'-0"
W.O. NO.
DWG NO. LAM-1-P29
SHEET 9
REV 1

Williams	**Reference (Book Title)** Operations/Maintenance Field Services	**Task/Document No.** 21.10.020
	Section General/Safety	**Regulation No.**
	Subject Discharges or Spills of Oil or Hazardous Substances; Preventing, Controlling and Reporting of	**Effective Date** 09/22/99

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Hit "CTRL-F" to find text on this page.

▸ Document History (ISO9001)

▾ Document Body

A. PURPOSE AND SCOPE

A.1 To establish the policy and procedure for preventing, controlling and reporting of discharges or spills of oil or hazardous substances to the environment in accordance with Company practices and federal, state and local requirements, including Title 40 of the Code of Federal Regulations - Part 112 (Oil Pollution Prevention).

A.2 This document pertains to Company personnel, Company and non-company facilities. The spill prevention and control requirements in this Policy and Procedure are Federally mandated guidelines for oil pollution prevention. The Company policy is to also apply these standards, where appropriate, to facilities containing hazardous substances. This is a discretionary application of the standards; however, variations from the standards should be approved by the responsible Director.

B. CONTENTS

C. POLICY

C.1 General
C.2 Bulk Storage Tanks
C.3 Facility Drainage
C.4 Transfer Operations, Pumping and In-Plant/Station Process
C.5 Facility Tank Car and Tank Truck Loading/Unloading Rack

D. PROCEDURE

D.1 Identifying, Containing and Initial Reporting of a discharge or Spill of a Hazardous or Toxic Substance
D.2 Submitting Written Notification of a Discharge or Spill

ATTACHMENT A: Discharge or Spill Containment Procedures and Materials

C. POLICY

C.1 GENERAL

C.1.1 All Company facilities which could discharge or spill, oil or hazardous substances which may affect natural resources or present an imminent and substantial danger to the

public health or welfare including, but not limited to, fish, shellfish, wildlife, shorelines and beaches are subject to the provisions of this document.

C.1.2 Oil, for purpose of this document, means oil of any kind or in any form, including but not limited to petroleum hydrocarbon, fuel oil, Y grade, natural gas liquids, condensate, mixed products, sludge, oil refuse and oil mixed with wastes other than dredged spoil (earth and rock). LPG (propane, butane, ethane) is not considered to be oil.

C.1.3 Hazardous Substance, for purposes of this procedure, is defined as any chemical or material that has or should have a Material Safety Data Sheet (MSDS); however, hazardous substances are further defined by the following environmental statutes:

a. Section 101(N) and Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

b. Section 307(a) and Section 311(b)(2)(A) of the Clean Water Act

c. Section 3001 of the Solid Waste Act (excluding items suspended by Congress)

d. Section 112 of the Clean Air Act

e. Section 7 of the Toxic Substance Control Act

C.1.4 The term hazardous substance does not include petroleum hydrocarbon, including crude oil or any fraction thereof and the term does not include natural gas, natural gas liquids (including condensate), liquefied natural gas or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

C.1.5 Facilities which could discharge or spill, oil or hazardous substances into a watercourse must comply with the applicable federal, state, or local laws and regulations. A discharge includes but is not limited to any spilling, leaking, pumping, pouring, emitting, emptying, or dumping. A watercourse is any perennial or intermittent river, stream, gully, wash, lake, or standing body of water capable of collecting or transporting an oil or hazardous substance.

C.1.6 Facilities which are subject to the requirements stated in this policy are as follows:

a. Non-Transportation Related Facilities

(1) Storage or drip tanks and other aboveground containers (excluding pressurized or inline process vessels) having a capacity in excess of 660 gallons for each single container or an aggregate capacity of 1,321 gallons or more for multiple containers.

(2) Underground storage facilities having a total capacity in excess of 42,000 gallons.

b. Transportation Related Facilities

(1) All vehicles, pipeline facilities, loading/unloading facilities and other mobile facilities which transport oil or hazardous substances.

C.1.7 Each Company location which has facilities subject to paragraph C.1.1 shall have a site specific Spill Prevention Control and Countermeasure Plan (SPCC Plan) which identifies all facilities subject to 40 CFR 112. The plan shall identify all oil and hazardous substance storage vessels (as defined in a.(1) above) at the facility and the spill prevention measures in place to control discharges or spills. This plan shall also identify all regulatory agencies that must be notified in case of a spill.

C.1.8 The facility superintendent is responsible for spill prevention. His/her duties include, but are not limited to, the following:

a. Instructing personnel in the operation and maintenance of equipment to prevent the discharge of oil.

b. Conduct annual briefings for operating personnel at intervals frequent enough to assure adequate understanding of the Spill Plan at that facility.

c. Briefings should highlight and describe known discharges or spills and recently developed precautionary measures.

C.1.9 Each individual facility is checked annually by the superintendent or designee to determine the potential for discharges or spills of oil or hazardous substances in harmful quantities that violate water quality standards or which may cause a film, sheen, or discoloration on the surface of water. All facilities which have the potential for discharging or spilling harmful quantities of oil or hazardous substances into a watercourse are required to have the following preventive measures:

a. Examination of all tanks, valves and fittings, at least annually, to determine any maintenance requirements.

b. All tank batteries should, as far as practicable, have a secondary means of containment for the entire contents of the largest single tank plus sufficient freeboard in the containment facility to allow for precipitation.

c. An annual monitoring and inspection program to prevent accidental spills or discharges into watercourses. This includes annual inspection for faulty systems and monitoring line valves and liquid pipelines for leaks or blowouts.

C.1.10 Any field drainage ditches, road ditches, traps, sumps, or skimmers should be inspected at regular scheduled intervals for accumulation of oil or other hazardous substances which may have escaped from small leaks. Any such accumulations should be removed.

C.2 BULK STORAGE TANKS

C.2.1 A tank should not be used for storage of oil or hazardous substances unless the material and construction of the tank is compatible with the oil or substance stored and conditions of storage such as pressure and temperature. Buried storage tanks must be protected from corrosion by coatings, cathodic protection, or other methods compatible with local soil conditions. Aboveground tanks should be subject to visual inspection for system integrity.

C.2.2 The facility superintendent should evaluate tank level monitoring requirements to prevent tank overflow.

C.2.3 Leaks which result in loss of oil or hazardous substances from tank seams, gaskets, rivets and bolts sufficiently large to cause accumulation of oil or hazardous substances in diked areas should be promptly corrected.

C.2.4 Mobile or portable oil or hazardous substances storage tanks should be positioned or located to prevent the contents from reaching a watercourse. The mobile facilities should be located so their support structure will not be undermined by periodic flooding or washout.

C.3 FACILITY DRAINAGE

C.3.1 Make provisions for drainage from diked storage areas where necessary in areas with high precipitation levels. Drainage from diked areas should be restrained by valves or other means to prevent a discharge or spill. Diked areas should be emptied by pumps or ejectors which are manually activated. Valves used for the drainage of diked areas should be of manual, open-and-closed design.

C.3.2 Rain water may be drained from diked areas providing drainage water does not contain oil or hazardous substances that may cause a harmful discharge. Drain valves must be closed following drainage of diked areas.

C.3.3 When possible, drainage systems from undiked areas should flow into ponds, lagoons, or catchment basins designed to retain oil or hazardous substances or return the substances to the facility. Any drainage system which is not designed to allow flow into ponds, lagoons, or catchment basins should be equipped with a diversion system that could, in the event of a discharge or spill, contain the oil or hazardous substances on the Site.

C.3.4 The principal means of containing discharges or spills is the use of dikes which are constructed wherever regulated quantities of oil or hazardous substances have the potential of reaching a watercourse. The construction of dikes must meet the following requirements:

a. Capacity must be at least equivalent to the storage capacity of the largest tank of the battery plus sufficient freeboard to allow for precipitation, or displacement by foreign materials.
b. Small dikes for temporary containment are constructed at valves where potential leaking of oil or hazardous substances may occur.
c. Any dike three feet or higher should have a minimum cross section of two feet at the top.

C.3.5 Other means of containment or spill control include, but are not limited to:

a. Berms or retaining walls;
b. Curbing;
c. Culverting, gutters, or other drainage systems;
d. Weirs, booms, or other barriers;
e. Spill diversion ponds or retention ponds;
f. Sorbent materials

C.4 TRANSFER OPERATIONS, PUMPING and IN-PLANT/STATION PROCESS

C.4.1 Aboveground valves and pipelines should be examined regularly by operating personnel to determine whether there are any leaks from flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, valve locks and metal surfaces.

C.5 FACILITY TANK CAR AND TANK TRUCK LOADING/UNLOADING RACK

C.5.1 Rack area drainage which does not flow into a catchment basin or treatment facility designed to handle spills should have a quick drainage system for use in tank truck loading and unloading areas. The containment system should have a maximum capacity of any single compartment of a truck loaded or unloaded in the station.

C.5.2 Aboveground piping that has potential for damage by vehicles entering the Site should be protected by logically placed warning signs or by concrete-filled pipe barriers.

C.5.3 Loading and unloading areas should be provided with an interlocked warning light, grounding shutdown, physical barrier system, or warning signs to prevent vehicular departure before complete disconnect of flexible or fixed transfer lines. All drains and

outlets of any truck should be closely examined for leakage prior to filling and departure. All drains and outlets that may allow leakage should be tightened, adjusted, or replaced to prevent liquid leakage while in transit.

NOTE: LPG loading facilities and remote field loading of condensate are exempt from the C.5 requirements of this document.

D. PROCEDURE

D.1 Identifying, Containing and Initial Reporting of a Discharge or Spill of Oil or Hazardous Substance

Any Employee

D.1.1 Upon noticing a discharge or spill of an oil or hazardous substance in any quantity shall immediately contain the release (if safe to do so) and notify the facility superintendent, dispatcher, or other designee. Releases must be reported to gas control in the following three circumstances:

I. The Following Situations Always Require IMMEDIATE Reporting to Gas Control:
1. Release reaches or may reach surface water: (pond, lake, wash or ground water;
2. Release leaves Williams property; or
3. Release is of questionable nature (i.e., unknown product, unknown hazards)
II. Onsite Releases of Certain Common Industrial Materials Above 10 Gallon Threshold Are Reportable.

Releases that do not migrate off-site or reach surface water may require reporting as well. All releases of 10 gallons or greater of the following materials should be contained and promptly reported to Gas Control:

· Ammonia
· Antifreeze
· Amine
· Chromate Mixtures
· Condensate
· Glycol
· Lube Oil
· Methanol
· Sulfuric Acid
· Sodium Hydroxide
· Natural Gas Liquids
· Other Hydrocarbon Products
· Natural Gas (1 MMSCF)

III. Releases of Certain Other Materials Reportable:

Releases of the following materials above the indicated amount should be reported to gas control:

· PCB's (Concentration > 50 ppm) - any amount
· Mercaptan (Ethyl Mercaptan) - 1 lb.
· Mercury - 1 lb.
· Hydrogen Sulfide - 100 lbs.
· Pesticides - 1 lb.
· Other Material Not Listed - 1 lb.

NOTE 1: A release includes material released (intentionally or unintentionally) to air, water,

or soil. When notifying Gas Control of a Release, be prepared to provide information on the type of material spilled, amount released, weather conditions, time and date of release, person discovering release and measures taken to control the release.

NOTE 2: Refer to Attachment A for containment procedures.

Facility Superintendent, Controller or Designee

D.1.2 Contacts Gas Control immediately by telephone and provides the following information:

a. Name of company facility and/or location of facility and nature of discharge or spill
b. Description and quantity of emission or substance discharged
c. Description of the circumstances causing the discharge or spill
d. Name, title and telephone number of person initially reporting the discharge or spill and person reporting to Gas Control
e. Action taken or being taken to mitigate and correct discharge or spill
f. Water bodies or streams involved
g. Time and duration of discharge or spill
h. Outside involvement during discharge or spill (public government agencies, etc. See Emergency Operating Procedure Manuals)

Gas Control Personnel

D.1.3 Advises Environmental Affairs departments immediately by telephone concerning the incident including any incidents reported by persons not employed with the Company.

NOTE: If Gas Control is contacted by a person not employed with the Company, the necessary information is obtained as indicated in D.1.2 and the Superintendent and Environmental Affairs are immediately contacted to begin containment and clean-up of the discharge or spill.

D.1.4 If Environmental Affairs cannot be contacted, notifies Director over Environmental Affairs.

Facility Superintendent

D.1.5 Coordinates containment and clean-up of discharge or spill, keeping the responsible Director Informed.

D.1.6 If the discharge or spill is too large for Company personnel to contain, contacts qualified local contractors for assistance. (See Emergency Operating Procedure Manuals tab #11, contractors with available equipment and services).

D.1.7 Advises Environmental Affairs by telephone if emergency containment or clean-up assistance from a state agency or a response team from the U.S. Coast Guard is required.

Environmental Affairs

D.1.8 Assesses reporting requirements to state and federal agencies (contacts Legal Department and Right-of-Way Department, if appropriate). (See Emergency Operating Procedure Manuals).

D.1.9 Makes appropriate contacts with National Response Center and state and local agencies, when necessary.

D.1.10 If spill is significant, dispatches Environmental Specialist to scene to oversee

cleanup and reporting responsibilities.

D.2 SUBMITTING WRITTEN NOTIFICATION OF A DISCHARGE OR SPILL

Facility Superintendent or Designee

D.2.1 Completes a written description of the incident as soon as possible after initial notification is given, which should include the following:

a. Time and date of discharge or spill
b. Facility name and location
c. Type of material spilled
d. Quantity of material spilled
e. Area affected
f. Cause of spill
g. Special circumstances
h. Corrective measures taken
i. Description of repairs made
j. Preventative measures taken to prevent recurrence.

D.2.2 Forwards the completed written description to Environmental Affairs. Retains a copy for future reference.

NOTE: Environmental Affairs, in coordination with the Legal Department, if necessary, submits written reports to government agencies.

ATTACHMENT A

DISCHARGE OR SPILL CONTAINMENT PROCEDURES AND MATERIALS

TYPE OF FACILITY WHERE THE DISCHARGE OR SPILL OCCURS	CONTAINMENT PROCEDURES	MATERIALS USED FOR CONTAINMENT
A. Oil Pipeline (as defined in C.1.4)	1. Closes appropriate block valves. 2. Contains Discharge or spill by: Ditching covering, applying sorbents, constructing an earthen dam, or burning. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning.	1.Straw 2.Loose Earth 3.Oil Sorbent 3M Brand 4.Plain Wood chips 5.Sorb-Oil Chips Banta Co. 6.Sorb-Oil Swabs Banta Co. 7.Sorb-Oil Mats Banta Co. 8.Or Equivalent Materials
B. Vehicle	1. Contains discharge or spill by: ditching, covering surface with dirt, constructing earthen dams, apply sorbents, or burning. 2. Notifies immediately Environmental Affairs and if there is any imminent danger to local residents; notifies immediately the highway patrol or local police officials.	

	3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning. **Note**: Any vehicle carrying any hazardous or toxic substance will carry a shovel or other ditching device to contain a spill. If the vehicle has sufficient room, sorbent materials should also be carried.	
C. Bulk Storage Tanks or any other Facilities	1. Contains discharge or spill by: ditching, covering, applying sorbents, constructing an earthen dam, or burning. 2. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning.	

Back | Feedback | Index | Search Library

If you have any questions, suggestions, comments, or concerns regarding this new database, please contact Document Control.

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 10-29-99,

or cash received on ______________ in the amount of $ 50.00

from Williams Field Services

for La Maquina Gas Plant GW-169
(Facility Name) (DP No.)

Submitted by: [signature] Date: 11-9-99

Submitted to ASD by: ______________ Date: ______

Received in ASD by: ______________ Date: ______

Filing Fee ✓ New Facility ____ Renewal ✓

Modification ____ Other ______________
(specify)

Organization Code 521.07 Applicable FY 2000

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ____

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM. IT ALSO HAS A REFLECTIVE WATERMARK ON THE BACK.

COMMUNITY NATIONAL BANK
OKARCHE, OK 73762

WILLIAMS FIELD SERVICES COMPANY
1800 South Baltimore Avenue * P.O. Box 645 * Tulsa, OK 74101-0645

86-335
1031

[redacted]

DATE: 10/29/1999

PAY TO THE ORDER OF:

PAY ********$50.00

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 S PACHECO

SANTA FE NM 87504
United States

VOID AFTER 180 DAYS

[signature]
Authorized Signer

MA-1353 (6/97)

[redacted]

AFFIDAVIT OF PUBLICATION

Ad No. 42013

STATE OF NEW MEXICO
County of San Juan:

ALETHIA ROTHLISBERGER, being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Wednesday, November 17, 1999..

And the cost of the publication is: $81.20.

Alethia Rothlisberger

On 12-9-99 ALETHIA ROTHLISBERGER appeared before me, whom I know personally to be the person who signed the above document.

Christine A Duran

My Commission Expires May 3, 2003

COPY OF PUBLICATION

918 Legals

NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-169) - Williams Field Services, Ingrid A. Deklau, (801) 584-6543, P.O. Box 58900, Salt Lake City, Utah 84158-0900, has submitted a discharge plan renewal application for the Williams Field Services La Maquina Gas Plant located in the NW/4 NW/4 of Section 27, Township 31 North, Range 10 West and NE/4 NE/4 of Section 28, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 124 gallons per day of washdown waste water with total dissolved solids concentration in excess of 1000 mg/l is collected and stored in an above ground closed-top steel tank prior to transport off site for disposal in an OCD approved facility. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 30 feet to 70 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 12th day of November 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
/s/Roger Anderson
for Lori Wrotenbery, Director

SEAL

Legal No. 42013, published in The Daily Times, Farmington, New Mexico, Wednesday, November 17, 1999.

Approved 12-14-99
Corrected copy

The Santa Fe New Mexican

Since 1849 We Read You

NOV 2 3 1999

OIL CONSERVATION DIVISION

NM OIL CONSERVATION DIVISION
ATTN: LUPE SHERMAN
2040 S. PACHECO STREET
SANTA FE, NM 87505

AD NUMBER: 119369 ACCOUNT: 56689
LEGAL NO: 66447 P.O.#: 00199000278
183 LINES 1 time(s) at $ 80.57
AFFIDAVITS: 5.25
TAX: 5.36
TOTAL: 91.18

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE
I, B Penner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #66447 a copy of which is hereto attached was published in said newspaper 1 day(s) between 11/18/1999 and 11/18/1999 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 18 day of November, 1999 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ Betsy Penner
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 17 day of November A.D., 1999

Notary Candace R. Dunton

Commission Expires Nov 19, 2003

NOTICE OF PUBLICATION

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

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GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 12th day of November, 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
LORI WROTENBERY,
Director

Legal #66447
Pub. November 18, 1999

AFFIDAVIT OF PUBLICATION

Ad No. 42013

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ALETHIA ROTHLISBERGER, being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Wednesday, November 17, 1999

And the cost of the publication is: $88.20

Alethia Rothlisberger

On 11.30.99 ALETHIA ROTHLISBERGER appeared before me, whom I know personally to be the person who signed the above document.

My Commission Expires May 3, 2003

– 3 1999

COPY OF PUBLICATION

918 Legals

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STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
/s/Roger Anderson
for Lori Wrotenbery, Director

SEAL

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Alethia Rothlisberger

On 11.17.99 ALETHIA ROTHLISBERGER appeared before me, whom I know personally to be the person who signed the above document.

Christine L Duy

My Commission Expires May 3, 2003.

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STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
/s/Roger Anderson
for Lori Wrotenbery, Director

SEAL

Legal No. 42013, published in The Daily Times, Farmington, New Mexico, Wednesday, November 17, 1999.

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PS Form 3800, April 1995

691-M9 OCD - DIV

NOTICE OF PUBLICATION

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations, the following discharge plan application(s) have been submitted to the Director of the Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

(GW-169) - Williams Field Services, Ingrid A. Deklau, (801) 584-6543, P. O. Box 58900, Salt Lake City, Utah 84158-0900, has submitted a discharge plan renewal application for the Williams Field Services La Maquina Gas Plant located in the NW/4 NW/4 of Section 27, Township 31 North, Range 10 West, and NE/4 NE/4 of Section 28, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 124 gallons per day of washdown waste water with total disolved solids concentration in excess of 1000 mg/l is collected and stored in an above ground closed-top steel tank prior to transport off site for disposal in an OCD approved facility. Ground water most likely to be affected in the event of an accidental discharge at the surface is at a depth ranging from 30 feet to 70 feet with estimated total dissolved solids concentration of approximately 2,000 mg/l. The discharge plan addresses how spills, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application(s) may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed discharge plan application(s), the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 12th day of November 1999.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

for LORI WROTENBERY, Director

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 10-29-99,

or cash received on _____ in the amount of $ 50.00

from Williams Field Services

for La Maquina Gas Plant (Facility Name) GW-169 (OCD No.)

Submitted by: _____ Date: 11-9-99

Submitted to ASD by: _____ Date: _____

Received in ASD by: _____ Date: _____

Filing Fee ✓ New Facility ___ Renewal ✓

Modification ___ Other _____ (specify)

Organization Code 521.07 Applicable FY 2000

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

THIS MULTI-TONE AREA OF THE DOCUMENT CHANGES COLOR GRADUALLY AND EVENLY FROM DARK TO LIGHT WITH DARKER AREAS BOTH TOP AND BOTTOM. IT ALSO HAS A REFLECTIVE WATERMARK ON THE BACK.

COMMUNITY NATIONAL BANK
OKARCHE, OK 73762

WILLIAMS FIELD SERVICES COMPANY
1800 South Baltimore Avenue * P.O. Box 645 * Tulsa, OK 74101-0645

86-335
1031

[redacted]

DATE: 10/29/1999

PAY TO THE ORDER OF:

PAY ********$50.00

NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 S PACHECO

SANTA FE NM 87504
United States

VOID AFTER 180 DAYS

Authorized Signer

MA-1353 (6/97)

COPYSAFE ANTI-FRAUD PROTECTION - PATENTS 4,210,346; 4,227,720; 4,610,160; 5,197,780; 5,340,159

[redacted]

INVOICE NUMBER	INVOICE DATE	BATCH NAME	INVOICE DESCRIPTION	NET AMOUNT
LA MAQUINA-10/99	19991026	0022922-SLC109907010	INVOICE #LA MAQUINA-10/99, LA MAQUINA PLAN	50.00

CHECK NUMBER	PAY DATE	SUPPLIER NUMBER	SUPPLIER NAME	TOTAL AMOUNT
[redacted]	10/29/1999	40665	NEW MEXICO OIL CONSERVATION DI	$50.00

MA1353(MAPAP001) (AP - REGULAR)

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

September 14, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-530

Ms. Ingrid A. Deklau
Senior Environmental Specialist
Williams Field Services Company
P.O. Box 58900
Salt Lake City, Utah 84108

RE: Discharge Plan GW-169 Renewal
La Maquina Gas Plant
San Juan County, New Mexico

Dear Ms. Deklau:

On January 4, 1995, the groundwater discharge plan renewal, GW-169, for the Williams Field Services La Maquina Gas Plant located in the NW/4 NW/4 of Section 27 and the NE/4 NE/4 of Section 28, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico, was approved by the Director of the New Mexico Oil Conservation Division (OCD). This discharge plan renewal was required and submitted pursuant to Water Quality Control Commission (WQCC) regulations and was approved for a period of five years. **The approval will expire on January 4, 2000.**

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

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

Please make all checks payable to: **NMED-Water Quality Management** and addressed to the OCD Santa Fe Office. Please submit the original discharge plan renewal application and one copy to the OCD Santa Fe Office and one copy to the OCD Aztec District Office. **Note that the completed and signed application form must be submitted with your discharge plan renewal request.** (Copies of the WQCC regulations and discharge plan application form and guidelines are enclosed to aid you in preparing the renewal application. A complete copy of the regulations is also available on OCD's website at **www.emnrd.state.nm.us/ocd/**).

If the La Maquina Gas Plant no longer has any actual or potential discharges and a discharge plan is not needed, please notify this office. If the Williams Field Services Company has any questions, please do not hesitate to contact me at (505) 827-7152.

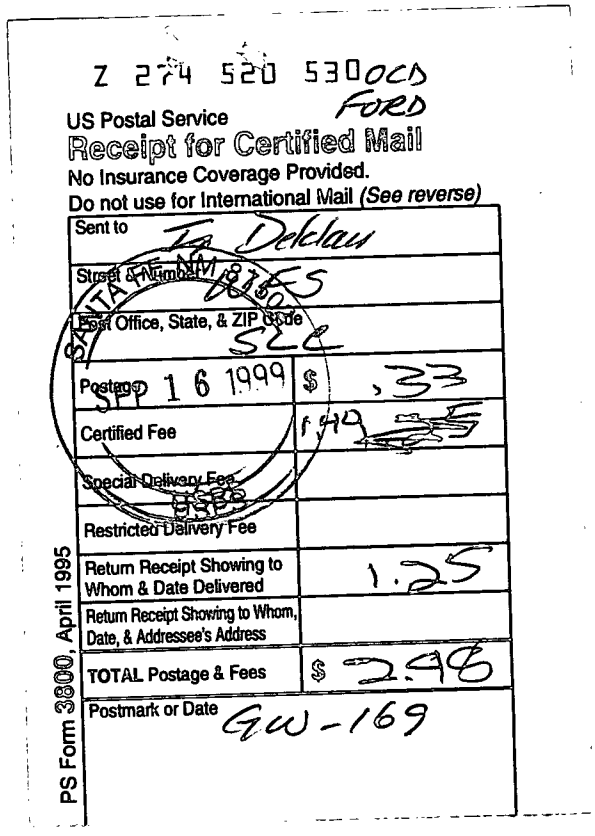
Sincerely,

Roger C. Anderson
Chief, Environmental Bureau
Oil Conservation Division

RCA/wjf

enclosed: Discharge Plan Application form

cc: OCD Aztec District Office


Z 274 520 530 OCD FORD

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

Sent to Ingrid Deklau	
Street & Number 1220 S St Francis	
Post Office, State, & ZIP Code Santa Fe NM 87505	
Postage SEP 16 1999	$ .33
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ 2.98
Postmark or Date GW-169	

PS Form 3800, April 1995

Roger Anderson
Pat Sanchez

DISTRICT I
P.O.Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 2 COPIES TO APPROPRIATE DISTRICT OFFICE IN ACCORDANCE WITH RULE 116 PRINTED ON BACK SIDE OF FORM

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

OPERATOR: Williams Field Services Company						ADDRESS: 295 Chipeta Way Salt Lake City,	TELEPHONE #
REPORT OF	FIRE	BREAK	SPILL: X	LEAK		BLOWOUT	OTHER*
TYPE OF FACILITY	DRLG WELL	PROD WELL	TANK BTRY	PIPE LINE	GASO PLNT	OIL RFY	OTHER*: Amine Plant
FACILITY NAME: La Maquina Plant							
LOCATION OF FACILITY Qtr/Qtr Sec. or Footage: NW/4 NW/4 NE/4 NE/4						SEC.: 28	TWP.: 31N
RGE.: 10W	COUNTY: San Juan						
DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK: 7.5 Miles East of Aztec							
DATE AND HOUR OF OCCURRENCE: 2:15AM 12/19/96						DATE AND HOUR OF DISCOVERY: 0800 12/19/96	
WAS IMMEDIATE NOTICE GIVEN?	YES: X	NO	NOT REQUIRED			IF YES, TO WHOM: Denny Foust, NMOCD	
BY WHOM: Leigh Gooding, WFS						DATE AND HOUR: 0920 12/19/96	
TYPE OF FLUID LOST: 50% Amine, 50% Water						QUANTITY OF LOSS: 5,000 gallo	VOLUME RECOVERED: 3800 gal
DID ANY FLUIDS REACH A WATERCOURSE?	YES	NO: X	QUANTITY				

IF YES, DESCRIBE FULLY**

N/A

RECEIVED
JAN - 3 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
DEC 26 1996
OIL CON. DIV.
DIST. 3

DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN**

A slug (unknown liquid) at the plant inlet caused severe foaming of the amine. The amine and water mixed was released as a mist. Most of the release was contained in the containment skids.

DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN**

The area immediately surrounding the containment skid was saturated with the amine/water release (25 square feet). Approximately 56,000 square feet of gravel area was misted on during the upset. The saturated soil will be dug out, and placed on plastic alongside the evaporation pond. The affected gravel will be raked.

DESCRIPTION OF AREA	FARMING	GRAZING: X	URBAN	OTHER*			
SURFACE CONDITIONS	SANDY	SANDY LOAM: X	CLAY	ROCKY	WET	DRY	SNOW

DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)**

SF 12/30/96
20°F dry, with a light breeze to the Southwest

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

SIGNED: Leigh Gooding

PRINTED NAME AND TITLE: Leigh Gooding, Sr. Environmental Specialist

DATE: 12/19/96

*SPECIFY

**ATTACH ADDITIONAL SHEETS IF NECESSARY

WILLIAMS FIELD SERVICES
ONE OF THE WILLIAMS COMPANIES, INC.

P.O. Box 58900 Salt Lake City, Utah 84158-0900

December 20, 1996

Mr. Denny Foust
New Mexico Oil Conservation Division
District III Office
1000 Rio Brazos Road
Aztec, New Mexico 87410

Dear Mr. Foust:

Enclosed, please find the MSDS for the amine which was released at the La Maquina Plant on December 19, 1996. Plant employees removed the impacted soil and placed it in a 55-gallon steel drum. Because the ground was frozen, they were only able to remove the top soil. Spagsorb (peat moss) was placed on top of the frozen soil to absorb the pooled amine. The Spagsorb was placed in the drum along with the soil. When the drum is full, its contents will be characterized and disposed at an OCD-approved facility.

If you have any questions or require additional information, please do not hesitate to contact me at (801) 584-6543.

Sincerely,

Leigh E. Gooding
Sr. Environmental Specialist

enclosure

295 Chipeta Way Salt Lake City, Utah 84108
(801) 584-7033

La Maquina
El Cedro

DOW

Dow U.S.A.

Material Safety Data Sheet

The Dow Chemical Company
Midland, Michigan 48674
Emergency 517 · 636-4400

Product Code: 13693

Product Name: GAS/SPEC (R) CS-PLUS SOLVENT

Effective Date: 01/21/92 Date Printed: 10/06/92 MSDS:003430

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

Methyldiethanolamine	CAS# 000105-59-9	69-70%
Proprietary Amine Derivative		30%
Water	CAS# 007732-18-5	Max. 1%

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

2. PHYSICAL DATA:

BOILING POINT: 240-280F, 152-162C
VAP. PRESS: 0.5 mmHg @ 20C
VAP. DENSITY: 3.5
SOL. IN WATER: Complete
SP. GRAVITY: 1.05-1.07 @ (25/25C)
FREEZING POINT: -20C
APPEARANCE: Pale straw liquid
ODOR: Amine odor

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 160F, 71C
METHOD USED: PMCC

FLAMMABLE LIMITS
LFL: Not established
UFL: Not established

EXTINGUISHING MEDIA: Water fog, alcohol resistant foam, CO2, dry chemical, and water spray.

(Continued on page 2)

3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE AND EXPLOSION HAZARDS: No special hazards.

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

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Stable, avoid heat, sparks, and open flames.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acids, strong oxidizers, halogenated hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS: Possible nitrogen oxides, carbon dioxide, carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ENVIRONMENTAL DATA: (optional)

ACTION TO TAKE FOR SPILLS: Wash with small amounts of water. Dike to avoid contamination of sewer with large amounts, soak up with absorbent material, scoop into drums.

DISPOSAL METHOD: Dispose by incineration in accordance with all local, state, and federal requirements.

(Continued on page 3)

6. HEALTH HAZARD DATA:

EYE: Due to the pH of the material, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

SKIN CONTACT: Short single exposure may cause severe skin burns. DOT classification: corrosive.

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

INGESTION: Single dose oral toxicity is low. The oral LD50 for rats is >1000 mg/kg. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat. Observations in animals include liver and kidney effects.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

SYSTEMIC AND OTHER EFFECTS: One component did not cause birth defects in laboratory animals.

7. FIRST AID:

EYES: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical consultation is essential.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists.

(Continued on page 4)

7. FIRST AID: (CONTINUED)

Wash clothing before reuse. Destroy contaminated shoes.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

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

NOTE TO PHYSICIAN: May cause tissue destruction leading to stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

(Continued on page 5)

* An Operating Unit of The Dow Chemical Company

8. HANDLING PRECAUTIONS: (CONTINUED)

EYE PROTECTION: Use chemical goggles. Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

9. ADDITIONAL INFORMATION:

MSDS STATUS: Revised regsheet (WHMIS) information.

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numberous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

CANADIAN REGULATOINS

The Workplace Hazardous Materials Information System (W.H.M.I.S.) Classification for this product is:

B3
E

A claim for exemption from ingredient disclosure has been approved under the Hazardous Materials Information Review Act (Canada). The Hazardous

(Continued on page R-2)

* An Operating Unit of The Dow Chemical Company

REGULATORY INFORMATION (CONTINUED)

Materials Information Review Act registry number and the date assigned to this claim are:

REGULATION CLAIM NUMBER: 1068 REGULATION CLAIM DATE: 01/12/89

The Transportation of Dangerous Goods Act (T.D.G.A.) classification for this product is:

Corrosive Liquid, N.O.S. (Alkanolamine),Class 8/UN1760/II

* An Operating Unit of The Dow Chemical Company

Dow Chemical U.S.A. Chemical EMERGENCY PHONE CHEMTREC 800-424-9300

Product Code: 13693
Name: GAS/SPEC (R) CS-PLUS SOLVENT
DOT BULK HAZ CLASS: CORROSIVE MATERIAL , NA1719
Effective date: 09/15/92 Date Printed: 10/09/92 ERTED # 000011

COMPOSITION AND PRODUCT CHARACTERISTICS

COMPOSITION:

PHYSICAL STATE AND APPEARANCE: Liquid

SOLUBILITY IN WATER: Mixes

FLASH PT: >160 F (PMCC)

LOWER FLAM LIMIT: Not established.

UPPER FLAM LIMIT: Not established.

AUTO-IGNITION TEMPERATURE: Not determined

BOILING PT: 240 F to 280 F

FREEZING PT: -30 C

SPECIFIC GRAVITY: 1.05-1.07 @ (25/25)

WEIGHT/GAL @ 77 DEG F: 8.7

VAPOR DENSITY (AIR = 1): 3.5

VAPOR PRESSURE @ 20 DEG F: Not determined

VAPOR PRESSURE @ 100 DEG F: Not determined.

COEFF OF THERMAL EXPANSION: Not determined.

LOADING TEMPERATURE: Ambient

MAXIMUM PRODUCT TEMPERATURE: 200 F

MAXIMUM STEAM PRESSURE: 25 psig

(R) Indicates a Trademark of The Dow Chemical Company

Dow Chemical U.S.A. Chemical EMERGENCY PHONE CHEMTREC 800-424-9300

Product Code: 13693
Name: GAS/SPEC (R) CS-PLUS SOLVENT
DOT BULK HAZ CLASS: CORROSIVE MATERIAL , NA1719
Effective date: 09/15/92 Date Printed: 10/09/92 ERTED # 000011

TRANSPORTATION EQUIPMENT DATA

TANK TRUCK: *MC 303, 304, 306, 307, 311, 312. Stainless steel, carbon steel. *Special requirements in CFR 49, 173249 (a) (6)
(NOTE: DOT 400 series may be substituted for previous MC 300 series equipment.)
TANK CAR: DOT 103W, 111A60W1, 111A100W1, 111A100W6. Carbon steel, stainless steel.
IMO CONTAINER:

INSULATION: Required

STEAM COILS: Required - tank car.
Required in cold weather - tank truck.
PUMP TYPE: Stainless steel, carbon steel. Centrifugal or positive displacement.
HOSE TYPE: Seamless stainless steel, Teflon, cross linked P/E, Neoprene.

GASKETS: Teflon, asbestos.

SPECIAL REQUIREMENTS: Prevent contact with brass, bronze & copper alloys.

PRECAUTIONS: Avoid contact with eyes, skin & clothing.
Avoid breathing vapors.

DRIVER PROTECTIVE EQUIPMENT: Use protective equipment - minimum of chemical workers goggles, hard hat, rubber gloves & boots.
Have respirator ready.

UNLOADING INSTRUCTIONS: Pump or N2 pressure. (Pressure not approved for MC 303 & 306 tanks.)

Submit 4 Copies

Form C-134
Aug. 1, 1989

State of New Mexico
Energy, Minerals and Natural Resources Department

Attn:
Mr. Chris Eustice

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION
RECEIVED
'95 OCT 30 AM 8 52

Permit No. 2873
(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952
FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(I)

Operator Name: Williams Field Services

Operator Address: 295 Chipeta Way P.O. BOX 58900 SLC Utah 84158

Lease or Facility Name La Maquina Plant Location NW/4 NW/4 27 31N 10W
Ut. Ltr. Sec. Twp. Rge

Size of pit or tank: 210' X 210'

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

__X__ The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.

The Pit Will Be Used As A Stormwater Evaporation Pond. The Stormwater Will Be Non-Hazardous.

1) If any oil or hydrocarbons should reach this facility give method and time required for removal:

The Pit Will Be A Zero-Discharge Evaporation Pond. Oil or Hydrocarbons will Be Removed Upon Discovery.

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the appropriate District Office of the OCD with 24 hours.

RECEIVED
OCT - 5 1995
OIL CON. DIV.
DIST. 3

_____ Operator proposes the following alternate protective measures:

CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature [signature] Title Manager Enviro, Hlth & Safety Date 10-2-95

Printed Name Terry Spradlin Telephone No. (801) 584 - 6678

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected 10-20-95

Inspected by Ernest Cardona
pit is lined & netted

Approved by Ernest Cardona

Title Deputy Oil & Gas Inspector

Date 10-20-95

WILLIAMS FIELD SERVICES
ONE OF THE WILLIAMS COMPANIES

P.O. Box 58900
Salt Lake City, UT 84158-0900
(801) 584-7033
FAX: (801) 584-6483

October 2, 1995

Mr. Roger Anderson
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87504

Re: Discharge Plan Update for La Maquina Plant - San Juan County

Dear Mr. Anderson:

Enclosed please find two copies of the Discharge Plan Update and an application for exception to Division Order R-8952 for Williams Field Services' La Maquina Plant located in San Juan County, New Mexico. The update and application address the proposed installation of a stormwater evaporation pond at the subject site.

If you have any questions or require additional information, please do not hesitate to contact me at (801) 584-6543.

Sincerely,

Leigh E. Gooding
Environmental Specialist

enclosure

cc: Denny Foust, OCD District III Office (letter and enclosure)

WILLIAMS FIELD SERVICES
LA MAQUINA DISCHARGE PLAN REVISION
October 1995

I. BACKGROUND INFORMATION

On July 20, 1994, Williams Field Services (WFS) submitted a Discharge Plan for the La Maquina Treating Plant to the New Mexico Oil Conservation Division (OCD) for review and approval. The La Maquina plant is located in the NW/4 NW/4 of Section 27, Township 31 North, Range 10 West, San Juan County, New Mexico. The plan addresses how spills, leaks, and other accidental discharges to the surface will be managed. The plan (GW-169) was subsequently approved by OCD on January 4, 1995.

According to the terms of the Discharge Plan, WFS is required to notify the Director of the OCD of any facility expansion, production increase, or process modification that would result in any change in the discharge of water quality or volume. This revision addresses proposed modifications at the La Maquina plant.

II PROPOSED MODIFICATIONS

Williams Field Services proposes to install an unlined, stormwater evaporation pond at the La Maquina plant. WFS has received right-of-way from the Bureau of Land Management for an additional 210' x 210' area of land immediately west of the current property boundary from the Bureau of Land Management. A map showing the location of the proposed pond is attached.

The stormwater pond will be an unlined evaporation pond used solely for the collection of stormwater runoff. Stormwater will continue to be directed away from plant processes into the existing stormwater collection system; however, the water will no longer drain to the lined, wastewater evaporation pond. Instead, stormwater will gravity-drain to the proposed stormwater evaporation pond. No process wastewater will drain to the stormwater pond. All containment skids and facility floor drains will continue to drain to the existing, lined, wastewater evaporation pond. Stormwater will be piped separately to ensure that it will not come into contact with any process waste streams.

The pond will be contained by four 210' long and 4' high earthen berms. The berms will be 12' wide at the base and 30" wide at the top. The maximum capacity of the pond will be approximately one million gallons of stormwater. The expected maximum level that the pond will reach is 500,000 gallons or one-half the capacity of the pond with two foot of free board. The entire pond will be enclosed by an eight-foot chainlink fence. A schematic drawing of the proposed stormwater pond is attached.

No new liquid wastes are expected to be generated by the proposed modification.

III SUMMARY

No new or additional liquid wastes will be generated by the proposed modification at this facility. All liquid wastes will be handled in accordance with the approved OCD Discharge Plan (GW-169) and this revision.

IV AFFIRMATION

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

Signature

10-2-95
Date

Terry G. Spradlin

Manager, Environment, Health & Safety

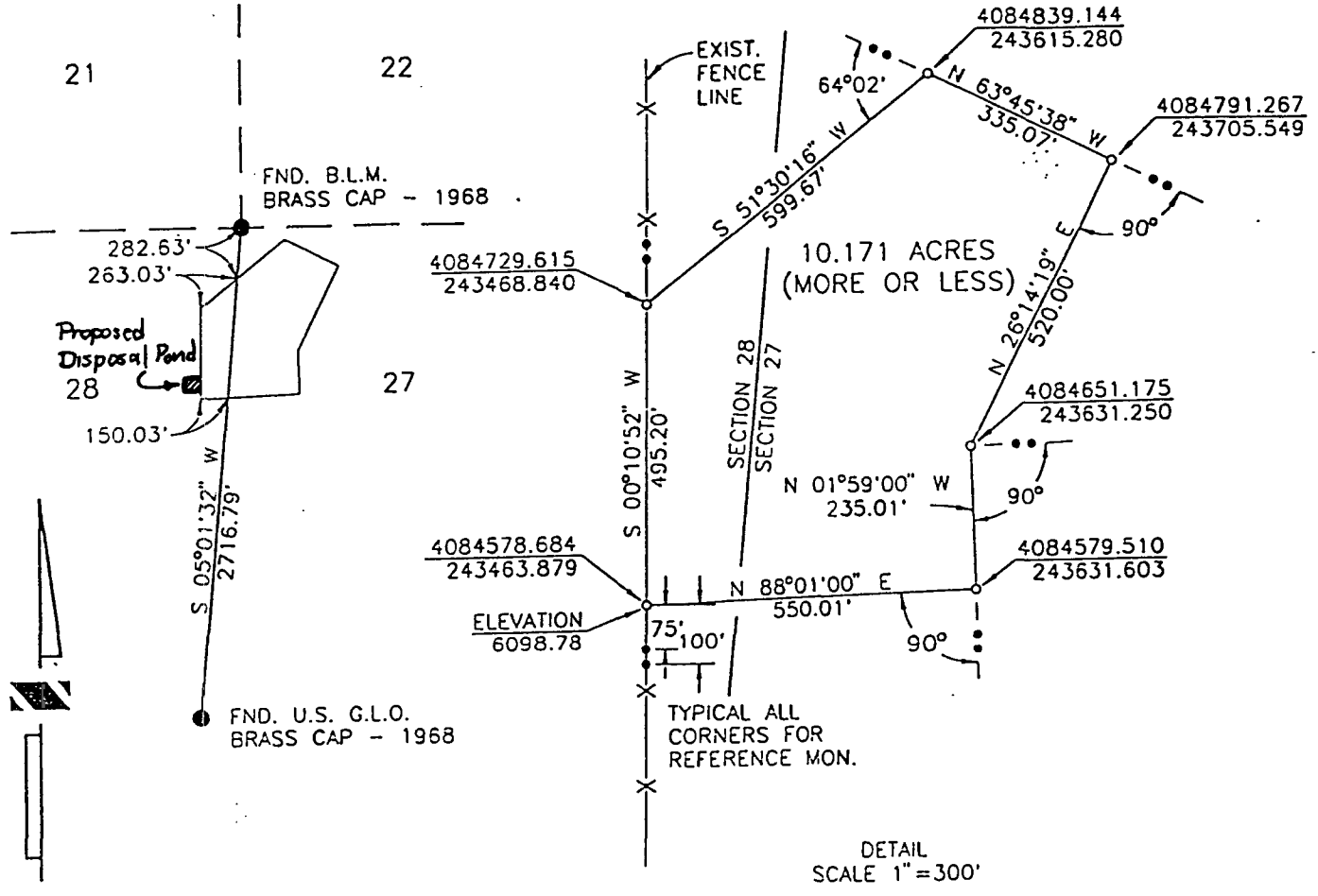
WILLIAMS PRODUCTION COMPANY

NAME MANZANARES GATHERING SYSTEM
LA MAQUINA TREATING PLANT
FROM

COUNTY SAN JUAN STATE NEW MEXICO
SECTION 28 & 27 TOWNSHIP 31-N RANGE 10-W

SCALE: 1" = 1000'
DRAWN BY: JRW
CHECKED BY: LT
APPROVED:
APPROVED:

DWG. NO.
DATE 10/19/93
SURVEYED 10/16/93
W.O. NO.
R/W NO. 01750



DETAIL
SCALE 1"=300'

SCALE: 1"=1000'
0 500 1000

LEGEND

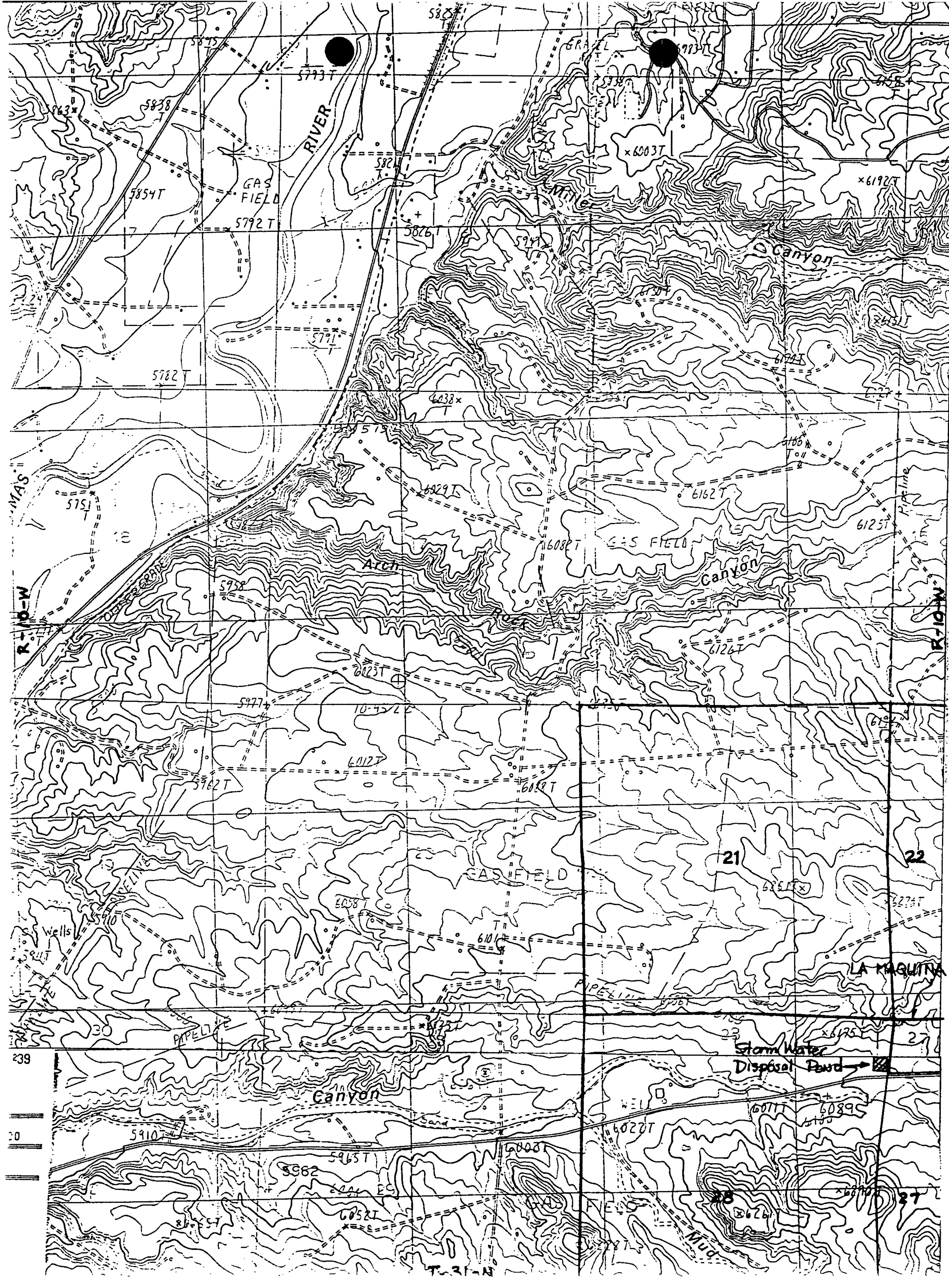
- o SET 1/2" IP W/CAP STAMPED L.S. 6707
- • SET 1/2" IP W/CAP STAMPED L.S. 6707 REF. MON. @ 75' AND 100'
- ● FOUND AS NOTED

1. BASIS OF BEARINGS: ASTRONOMIC DATA
2. BASIS OF ELEVATION: SPOT ELEVATION FROM QUAD SHEET.
3. COORDINATES SHOWN ARE UTM, ZONE 13
4. SURFACE OWNERSHIP: B.L.M.

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE REPRESENTATION OF A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, AND THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

HARVEY D. PETERSON, REGISTERED LAND S. NO. 6707
STATE OF NEW MEXICO

10/22/93
DATE


RIVER
GAS FIELD
Miller
Canyon
Arch
Rock
Canyon
GAS FIELD
GAS FIELD
R-10-W
R-10-W
21
22
28
27
27
LA MAQUINA
Storm Water
Disposal Pond
Canyon
PIPELINE
Wells
Mud
5792 T
5826 T
5854 T
5782 T
5791 T
6003 T
6192 T
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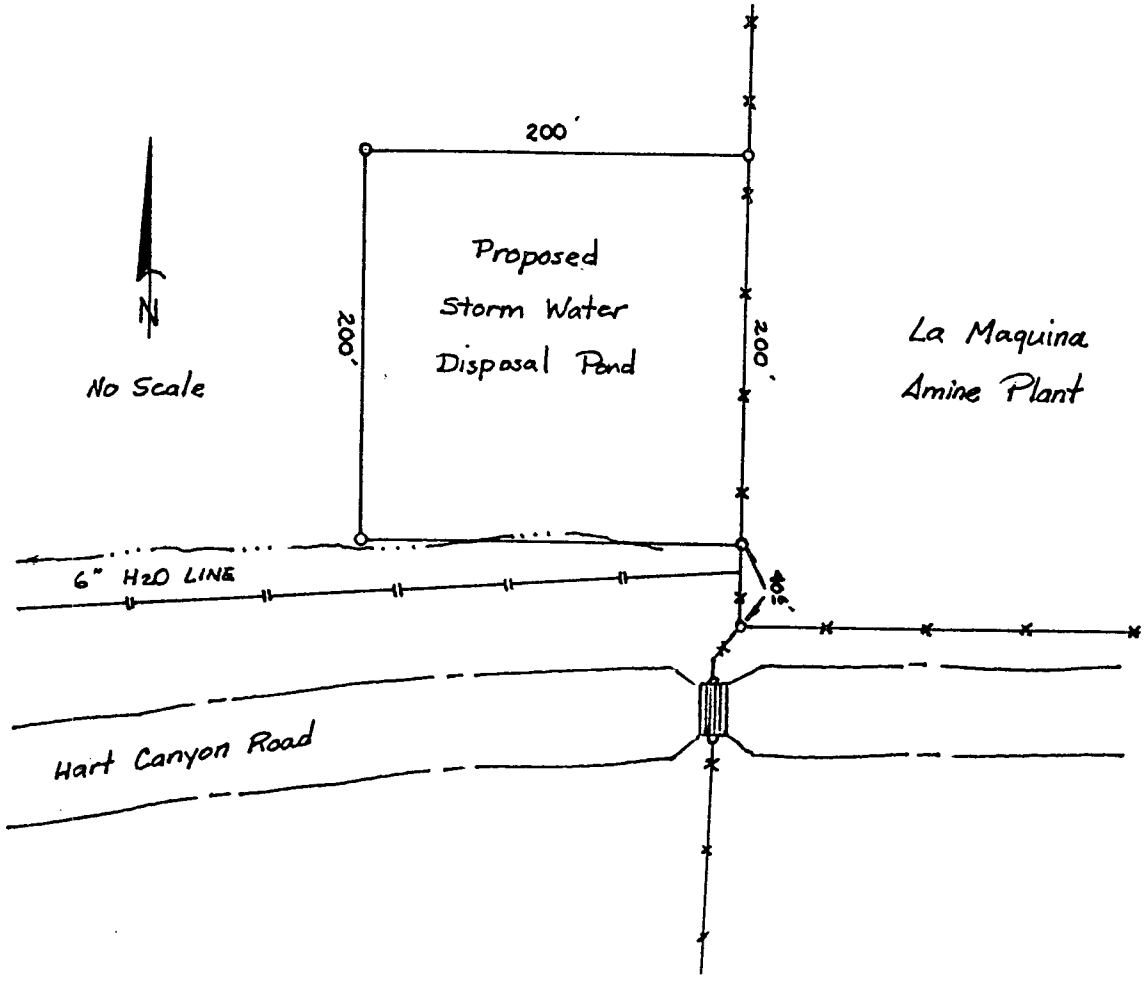
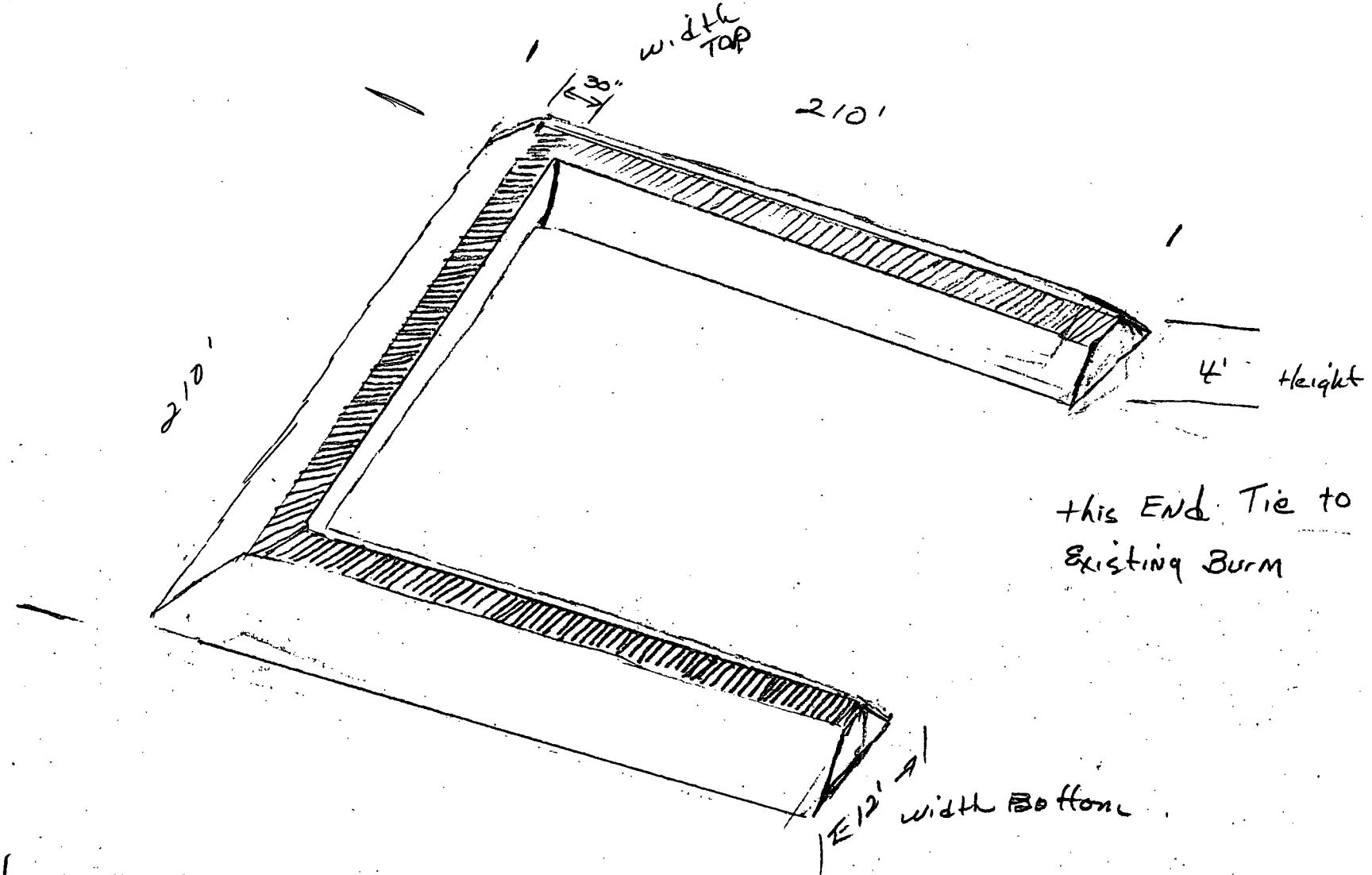


Sec. 28, T-31-N, R-10-W

San Juan Co., New Mexico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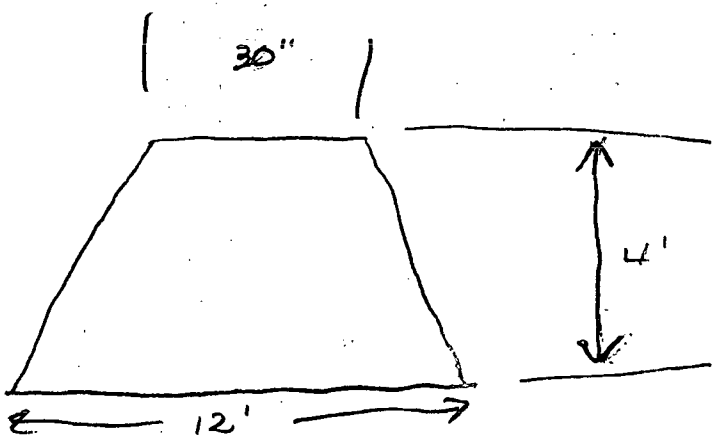
210'
210'
4' Height
this END Tie to Existing Burm
12' width Bottom


30"
4'
12'

mark Ashley

DISTRICT I
P.O.Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION
RECEIVED
95 AUG 28 AM 8 52

SUBMIT 2 COPIES TO APPROPRIATE DISTRICT OFFICE IN ACCORDANCE WITH RULE 116 PRINTED ON BACK SIDE OF FORM

NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

(801) 584-6543

OPERATOR	ADDRESS	TELEPHONE #
Williams Field Services	295 Chipeta Way SLC UT 84158	

REPORT OF	FIRE	BREAK	SPILL	LEAK	BLOWOUT	OTHER*
			X			

TYPE OF FACILITY	DRLG WELL	PROD WELL	TANK BTRY	PIPE LINE	GASO PLNT	OIL RFY	OTHER*
							Amine Plant

FACILITY NAME: La Maquina gas processing plant

LOCATION OF FACILITY Qtr/Qtr Sec. or Footage	SEC.	TWP.	RGE.	COUNTY
NW NW NE NE	27 28	31N	10W	San Juan

DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK 7.5 Miles NE of Aztec, NM

DATE AND HOUR OF OCCURRENCE	DATE AND HOUR OF DISCOVERY
8-21-95 7:55 A.M.	SAME

WAS IMMEDIATE NOTICE GIVEN?	YES	NO	NOT REQUIRED	IF YES, TO WHOM
			X	

BY WHOM	DATE AND HOUR

TYPE OF FLUID LOST	QUANTITY OF LOSS	VOLUME RECOVERED
Amine, Water, Glycol	500 Gal	100 Gal

DID ANY FLUIDS REACH A WATERCOURSE?	YES	NO	QUANTITY
		X	

IF YES, DESCRIBE FULLY**

N/A

RECEIVED
AUG 25 1995
OIL CON. DIV.
DIST. 3

DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN**

Process upset on amine contactor on Train A caused carry-over of amine into the glycol system. Amine, Water, and glycol were released through the relief valve on the glycol flash tank.

DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN**

The Amine/Water and Glycol mist fell on dry gravel and could not be recovered. Plant employees raked the gravel to accelerate the natural breakdown of the contaminants.

DESCRIPTION OF AREA	FARMING	GRAZING	URBAN	OTHER*
		X		

SURFACE CONDITIONS	SANDY	SANDY LOAM	CLAY	ROCKY	WET	DRY	SNOW
		X					

DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC.)**

Overcast 75° F

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

SIGNED Leigh E. Gooding

PRINTED NAME Leigh E. Gooding
AND TITLE Environmental Specialist

DATE 8/21/95

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 2-4-95,

or cash received on _____ in the amount of $ 3335.00

from WILLIAMS FIELD SERVICES

for LA MAQUINA GAS PLANT (GW-169)
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: CHRIS EUSTICE Date: 2-15-95

Received in ASD by: Carlos F. Gutierrez Date: 2/15/95

Filing Fee ___ New Facility ✓ Renewal ___

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 95

To be deposited in the Water Quality Management Fund.

Full Payment ✓ or Annual Increment ___

WILLIAMS FIELD SERVICES COMPANY
ONE OF THE WILLIAMS COMPANIES

P. O. Box 58900
Salt Lake City, Utah 84158-0900

Corestates Bank of Delaware, N.A.
In cooperation with 1st Interstate Bank
62-22
311

DATE	CHECK NO.	NET AMOUNT
02/04/95	[redacted]	3335.00

PAY
THREE THOUSAND THREE HUNDRED THIRTY-FIVE AND 00/100----------

TO THE ORDER OF
NEW MEXICO OIL CONSERVATION DI
NM WATER QUALITY MGMT FUND
2040 SOUTH PACHECO
SANTE FE NM 87504

Williams Field Services Company
VICE PRESIDENT
AUTHORIZED REPRESENTATIVE

[redacted]

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

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

(GW-169)-Williams Field Service, H. Lee Bauerle, Environmental Specialist, P.O. Box 58900, M.S. 10388, Salt Lake City, Utah 84158-0900, has submitted a discharge plan application for their La Maquina Gas Treating Plant located in the NW/4 NW/4, Section 27, Township 31 North, Range 10 West, NMPM, San Juan County, New Mexico. Approximately 124 gallons per day of washdown water with a total dissolved solids concentration of in excess of 1000 mg/l is stored in an above ground; closed-top steel tank prior to transport to an OCD approved off-site disposal facility. Groundwater most likely to be affected by an accidental discharge is at a depth ranging from 30 to 70 feet with a total dissolved solids concentrations of approximately 2000 mg/l. The discharge plan addresses how spill, leaks, and other accidental discharges to the surface will be managed.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The discharge plan application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to any ruling on any proposed discharge plan or its modification, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 8th day of August, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

s/WILLIAM J. LEMAY, Director

Journal: September 19, 1994.

OIL CONSERVATION DIVISION
RECEIVED
'94 OCT 11 AM 8 52

STATE OF NEW MEXICO
County of Bernalillo ss

Bill Tafoya being duly sworn declares and says that he is Classified Advertising Manager of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made or assessed as court costs; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 1 times, the first publication being on the 19th day of Sept., 1994 and the subsequent consecutive publications on ,1994

Bill Tafoya

Sworn and subscribed to before me, a notary Public in and for the County of Bernalillo and State of New Mexico, this 19th day of Sept. 1994.

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

PRICE $31.62

Statement to come at end of month.

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

AFFIDAVIT OF PUBLICATION

No. 33665

STATE OF NEW MEXICO,
County of San Juan:

ROBERT LOVETT being duly sworn, says: "That he is the CLASSIFIED ADVERTISING MANAGER of The Farmington Daily Times, a daily newspaper of general circulation published in English in Farmington, said county and state, and that the hereto attached LEGAL NOTICE

was published in a regular and entire issue of the said Farmington Daily Times, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for one publication(s) on the following day(s):

First Publication Sunday, August 14, 1994

Second Publication

Third Publication

Fourth Publication

and the cost of publication was $ 43.48

Robert Lovett

On 8/16/94 ROBERT LOVETT

appeared before me, whom I know personally to be the person who signed the above document.

Notary Public, San Juan County, New Mexico

My Comm. expires: APRIL 22, 1997

33665

LEGALS

NOTICE OF PUBLICATION

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

COPY

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A hearing will be held if the director determines that there is significant public interest.

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 8th day of August, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION
DIVISION

WILLIAM J. LEMAY,
Director

SEAL

Legal No. 33665 published in The Daily Times, Farmington, New Mexico on Sunday, August 14, 1994.

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

Ecological Services
Suite D, 3530 Pan American Highway, NE
Albuquerque, New Mexico 87107

August 16, 1994

GW94032

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

Dear Mr. Lemay:

This responds to the notice of publication received by the U.S. Fish and Wildlife Service (Service) on August 9, 1994, regarding the Oil Conservation Division (OCD) discharge permit GW-169 effects on fish, shellfish, and wildlife resources in New Mexico.

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

> GW-169 Williams Field Service, La Maquina Gas Treating Plant located in the NW/4, NW/4, Section 27, T31N, R10W and NE/4, NE/4, Section 27, T31N, R10W, San Juan County, New Mexico. Approximately 124 gallons per day of washdown water will be stored in an above ground, closed-top steel tank prior to transport to an OCD approved off-site disposal facility.

It is recommended tank capacities should be able to contain all the water produced during periods of inclement weather when it is not possible to drain the tank on a regular schedule. The tanks should also exhibit strong corrosion resistance to those fluids the tank will store. The tanks should be exposed entirely to visually detect leaks. If leaks are detected surface soil monitoring and runoff prevention measures should be implemented.

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

Sincerely,

Jennifer Fowler-Propst
State Supervisor

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

NOTICE OF PUBLICATION

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

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

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A hearing will be held if the director determines that there is significant public interest.

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GIVEN under the Seal of New Mexico Conservation Commission at Santa Fe, New Mexico, on this 8th day of August, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

SEAL

WILLIAM J. LEMAY, Director

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of check No. [redacted] dated 7-25-94,

~~or cash~~ received on 8-8-94 in the amount of $ 50.00

from Environmental Services, Inc for William Field Services

for La Maquina Gas Plant (GW-169)
(Facility Name) (DP No.)

Submitted by: _____ Date: _____

Submitted to ASD by: Chris Eustice Date: 8-8-94

Received in ASD by: Candace F. Underhill Date: 8/8/94

Filing Fee ✓ New Facility ___ Renewal ___

Modification ___ Other _____
(specify)

Organization Code 521.07 Applicable FY 95

To be deposited in the Water Quality Management Fund.

Full Payment ___ or Annual Increment ___

UNITED NEW MEXICO BANK

United New Mexico Bank
Post Office Box 1081
Albuquerque, New Mexico 87103-1081

CASHIER'S CHECK NEW MEXICO BANK 0244 J. Honeycutt

[redacted] 95-93/1070 Date July 25, 1994

Pay UNITED N.M. BANK 50 DOLS 00 CTS $**50.00**

Enviromental Services, Inc.
Remitter

To Order Of **Oil Conversation Division**

NOTICE TO PURCHASER:
The purchase of an indemnity bond may be required before this check will be replaced or refunded in the event it is lost, misplaced or stolen.

Tina Underhill
Authorized Signature

[redacted]

GW-169

Discharge Plan Application for La Maquina Treating Plant

prepared for

Williams Field Services Company
P.O. Box 58900
Salt Lake City, Utah 84158-0900

ESI
ENVIRONMENTAL
•SERVICES, INC•

5971 Jefferson NE
Suite 104
Albuquerque,
New Mexico 87109
505•345•3900

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR NATURAL GAS PROCESSING PLANTS, OIL REFINERIES AND GAS COMPRESSOR STATIONS

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

I. TYPE: Natural gas treating plant

II. OPERATOR: Williams Field Services, Inc.

ADDRESS: P.O. Box 58900, Salt Lake City, Utah 84158-0900

CONTACT PERSON: H. Lee Bauerle PHONE: (801)584-6999

III. LOCATION: NW1/4 NE1/4 Section 27 Township 31N Range 10W
NW1/4 NE1/4 Section 28 Township 31N Range 10W
Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner(s) of the disposal facility site.

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

VI. Attach a description of sources, quantities and quality of effluent and waste solids.

VII. Attach a description of current liquid and solid waste transfer and storage procedures.

VIII. Attach a description of current liquid and solid waste disposal procedures.

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

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

XI. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. Depth to and quality of ground water must be included.

XII. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XIII. CERTIFICATION

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

Name: H. Lee Bauerle Title: Environmental Specialist

Signature: H Lee Bauerle Date: 2-13-94

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

Submit 4 Copies
to Appropriate
District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-134
Aug. 1, 1989

Permit No. _____
(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952
FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(I)

Operator Name: WILLIAMS FIELD SERVICES COMPANY

Operator Address: P.O. BOX 58900, SALT LAKE CITY, UTAH 84158-0900

Lease or Facility Name LA MAQUINA TREATING PLANT Location _____ 27 & 28 31N 10W
Ut. Ltr. Sec. Twp. Rge

Size of pit or tank: 50 FEET IN DIAMETER

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

X The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.
THE WATER IN THIS EVAPORATION POND IS EXPECTED TO BE STORM WATER FROM THE PLANT AREA.

1) If any oil or hydrocarbons should reach this facility give method and time required for removal:
IF NECESSARY, WATER FROM THE POND WILL BE TRUCKED IMMEDIATELY FROM THE POND FOR DISPOSAL AT AN OCD-APPROVED FACILITY.

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the appropriate District Office of the OCD with 24 hours.

_____ Operator proposes the following alternate protective measures: _____

CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature H. L. Bauerle Title ENVIRONMENTAL SPECIALIST Date 7-22-94

Printed Name H. LEE BAUERLE Telephone No. 801-584-6999

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected _____ Approved by _____

Inspected by _____ Title _____

Date _____

United New Mexico Bank
Post Office Box 1081
Albuquerque, New Mexico 87103-1081

CASHIER'S CHECK NEW MEXICO BANK

0244 J. Honeycutt

[redacted] 95-93/1070

Date July 25, 1994

Pay UNITED N.M. BANK 50 DOLS 00 CTS $**50.00**

Enviromental Services, Inc.
Remitter

To The Order Of **Oil Conversation Division**

NOTICE TO PURCHASER:
The purchase of an indemnity bond may be required before this check will be replaced or refunded in the event it is lost, misplaced, or stolen.

Authorized Signature

902 [redacted]

Discharge Plan Application for La Maquina Treating Plant

prepared for

Williams Field Services Company
P.O. Box 58900
Salt Lake City, Utah 84158-0900

ESI
ENVIRONMENTAL
•SERVICES, INC•

5971 Jefferson NE
Suite 104
Albuquerque,
New Mexico 87109
505•345•3900

List of Contents

List of Appendices

Williams Field Services Company

La Maquina Treating Plant Discharge Plan Application

This Discharge Plan has been prepared in accordance with Oil Conservation Division "Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants, Oil Refineries, and Gas Compressor Stations (revised 05-92)" and the New Mexico Water Quality Control Commission regulations 3-104 and 3-106.

1 General Information

Type of Operation

Williams Field Services Company (WFS) proposes to construct La Maquina natural gas treating plant for the removal of CO_2 from gas gathered in WFS's Manzanares Gas Gathering System. Anticipated date of the start of operation is January 15, 1995. This facility will initially consist of two identical treating trains and supporting auxiliary equipment including dehydrators and power generating equipment. A third treating train and reboiler may be added at a later time. This facility will utilize methanediethanolamine (MDEA), an amine-based solvent, to remove the CO_2 from the gas and triethylene glycol (TEG), to dehydrate the gas. In addition, antifreeze/coolant (ethylene glycol) and industrial lubricant (Mobil Pegagus 485) is expected to be used at the facility.

All spills, leaks, and discharges from this site will be handled in accordance with OCD regulations, customary practices, and common sense.

Operator/Legally Responsible Party

Williams Field Services Company
P.O. Box 58900
Salt Lake City, Utah 84158-0900
Attention: H. Lee Bauerle,
Environmental Specialist
(801) 584-6999

Location of Discharge/Facility

Sections 27 and 28, Township 31 North, Range 10 West
San Juan County, New Mexico
UTM Zone 13; 243.500kmE, 4084.600kmN

Landowner

The landowner of record of the facility site is the United States Department of the Interior, Bureau of Land Management (BLM).

Facility Description

The major equipment WFS proposes to install at the facility includes:

- Amine Contactors
- Amine Process Skids
- Amine Regeneration Skids
- Amine Regeneration Hot Oil Heaters
- Air Coolers
- Glycol Dehydration Contactors
- Glycol Regeneration Heaters
- Evaporation Pond
- Five Storage Tanks: 1 demineralized makeup water, 1 TEG (glycol), 1 slop, 1 dirty water, and 1 MDEA (amine).
- Electrical generators powered by six Caterpillar 3516 low-emission reciprocating engines.
- Instrumentation
- Electric Motor Control Center

These components of the site are discussed separately in Section 2 of this application. A site plan is attached which shows the facility/property boundaries and fences, pits, berms, and tank locations (figure 2). The rough grading and excavation plan for the facility is also included (figure 3).

2 Plant Processes

Effluent Sources, Quantities, and Quality of Effluent and Waste Solids

Sump. A below-grade sump shall be installed on the facility in a double-lined steel tank. The sump shall be tied to the slop tank. The sump shall collect emergency spillage or leakage from the two lined earthen berms where the storage tanks are located. In the event of a spill or leak in the earthen berms, TEG, MDEA, slop, and dirty water would be potential waste collecting in the sump. The sump shall also collect waste from

washdown and engine cooling activities and from the floor drains in the process area via a drainage system.

All waste from the sump shall be pumped to the slop storage tank until removed by an Environmental Protection Agency (EPA) registered waste remover and taken to an OCD-authorized facility. The slop storage tank will be discussed later.

Separators. Inlet filter separators shall filter gas prior to processing. Separators shall be connected to each of the two treating trains. Very little or no process waste shall come from the separators. There is a potential, though, that the waste from the inlet filter separator could contain high Total Dissolved Solids (TDS) water and traces of lube oil and hydrocarbons.

Any waste from the inlet filter separators shall go to the slop storage tank until removed by an Environmental Protection Agency (EPA) registered waste remover and taken to an OCD-authorized facility. The slop storage tank will be discussed later.

Boilers. Three hot oil reboilers are proposed at the facility. The reboilers recirculate hot oil and are not expected to produce any process waste materials.

Glycol Regeneration Heater. Three glycol regeneration heaters (dehydrators) are proposed at the facility to remove water vapor from the gas. The amount of process waste materials from the glycol regeneration heaters is expected to be approximately 9,500 pounds of water per day. This waste is expected to contain distilled water and traces of TEG. The waste from the dehydrators will be steam vented into the atmosphere.

Engine Cooling Waters. Any engine cooling waters used in the process area would be disposed through the facility drainage system and into the sump. From the sump, the cooling waters shall be pumped into the slop storage tank.

Cooling Tower. There are no proposed cooling towers at the facility.

Sewage. A septic system for non-hazardous sewage waste will be designed and installed in accordance with local and state regulations and codes. The septic system will be connected to the MCC building/control room which has two restrooms. Sewage effluent will be completely separate from other effluents with no commingling.

Waste Lubrication and Motor Oils. Waste lubrication and motor oils are expected to be generated by the electric generation equipment. The quantity of used lube oil is expected to be variable. The used lube oil will be collected in a separate oil drain and storage system and trucked from the site by Conoco, the lube oil supplier and an EPA-registered used oil marketer/recycler.

New lube oil will be stored in containers provided by Conoco, the lube oil supplier. A separate concrete containment area with curb walls and a connection to the drain system will be installed in this storage area.

Waste and Slop Oil. Waste and slop oils will be stored in the slop storage tank. The slop storage tank will be installed remote from the process and will be located in a lined earthen berm with sufficient freeboard to prevent overflow. The slop storage tank is discussed in greater detail below.

Used Filters. The quantity of process filters expected to be generated from the facility will vary. Waste from the process filters is expected to include lube oil, TEG, MDEA, and hydrocarbons. The process filters will be stored on the containment slabs prior to being removed by truck to an OCD-authorized facility.

Solids and Sludges. Sludge may periodically collect in the sump and in the evaporation pond. Both shall be visually inspected at annual scheduled intervals for accumulation of solids or sludges. Any such accumulations will be removed by an OCD-authorized waste remover.

Cleaning Operations Using Solvents/Degreasers. It is not expected that solvents or degreasers shall be used in any major cleaning operations at the facility.

Truck, Tank, and Drum Washing. Washdown water is expected to be generated intermittently. The washdown water is expected to contain water, soap, traces of motor oil, TEG, and MDEA. The water will enter the sump via a drain system in a slab containment area. The washdown water will be pumped to the slop storage tank. The slop storage tank is discussed below.

Other Liquid and Solid Wastes. To the extent practical, all process equipment will be placed on concrete slabs with 6-inch curbs for containment and a floor drain system. Floor drains in the generator building shall use the same drainage system.

All process piping is expected to be above-ground and located in pipe racks. In no event will any above-ground piping be closer than 9-inches to the ground. The piping will be inspected at annual scheduled intervals by operating personnel to determine whether there are any leaks.

Paper and other solid waste will be removed from the site by a contract trash hauler.

Tanks. Five storage tanks shall be installed at the facility: one demineralized makeup water tank, one TEG (glycol) tank, one MDEA (amine) tank, one slop tank, and one dirty water tank. All storage tanks will be above-grade and will be installed with spill containment and leak detection equipment complying with the provisions of OCD. An alarm system including high level detection alarms will be installed on all storage tanks to prevent accidental overfilling of the tanks. This alarm system will notify the operator of any process operating conditions which are not normal.

These five tanks shall be installed in two areas on the facility (see figure 2). Each tank is discussed in greater detail below:

Area 1. The demineralized makeup water tank (TK-101 on figure 2), the glycol (TEG) tank, (TK-201) the amine (MDEA) tank (TK-305), and the dirty water tank (TK-304) shall be located remote from the process area and shall be installed in a lined earthen dike with sufficient freeboard to prevent overflow.

The makeup water tank is a standard atmospheric tank which has a fixed roof. The tank has a capacity of 400 barrels. The annual throughput is expected to be 1.825 million gallons per year with approximately 206 turnovers per year.

The TEG tank is a standard atmospheric tank with a fixed roof type. This tank has a capacity of 210 barrels and will measure 10 feet in diameter with 5 feet of vapor space. The annual throughput for this tank is expected to be 100,000 gallons per year with approximately 11 turnovers per year.

The MDEA tank is a standard atmospheric tank with a fixed roof type. This tank has a capacity of 210 barrels and will measure 10 feet in diameter with 5 feet vapor space. The annual throughput for this tank is expected to be 15,000 gallons per year with approximately two turnovers per year.

The dirty water tank is expected to be a 210-barrel, standard atmospheric tank and will

measure 10 feet in diameter with 5 feet of vapor space. The annual throughput is expected to be 100,000 gallons per year with an expected 11 turnovers per year.

Area 2. The slop storage tank shall be located remote from the process area and installed in lined earthen berm with sufficient freeboard to prevent overflow.

The slop tank (TK-303 on figure 2)is expected to be a 210-barrel, standard atmospheric tank which will measure 10 feet in diameter with 5 feet vapor space. The annual throughput is expected to be 45,000 gallons per year with an expected five turnovers per year.

Quality Characteristics

La Maquina Treating Plant does not expect to be fully operational until January 15,1995 so analyses of expected waste from sources described above is not available at this time. The table below lists the expected waste materials, sources of the waste, expected quantities, and the planned disposition of the process waste materials.

Source	Disposition	Quantity	Waste Description
Glycol Regeneration	Steam vent to atmosphere	9,500 lbs/day	Distilled water, trace TEG
Inlet filter separator	Slop storage tank	Variable, typically none	High TSD water and traces of lube oil and hydrocarbons
Washdown water	Slop storage tank	Intermittent	Water, soap, traces motor oil, TEG, MDEA
Process filters	Containment area storage for truck removal	Variable	Lube oil, TEG, amine, and hydrocarbons
Electric generation driver lube oil	Storage containers from lube oil supplier for truck removal	Variable	Lube oil
Sump	Slop storage tank	Variable	Water, TEG, MDEA

Commingled Waste Streams

There is no anticipated commingling of waste streams.

3 Transfer and Storage of Process Fluids and Effluents

Information about on-site collection and storage systems for each source was presented earlier. In summary, fluids and effluents will be stored in five tanks on the facility. These tanks shall be located in two lined earthen berms with sufficient freeboard to

prevent overflow.

Floor drains in the containment slabs of the process area and generator building will be connected to a drainage system. Fluids entering the on-site drainage system will go into the sump. The sump will be installed in its own double-lined steel tank. Water shall be pumped to the slop storage tank.

The amine drain system shall not be connected to individual pieces of equipment but will have access points throughout the process area. Operators shall make the connections between the equipment and the drainage system. The amine drainage system shall be equipped with a pump which will have a high level leak detection alarm.

Approximately 9,500 pounds per day of water vapor from gas is expected to be removed by the dehydration equipment. This water vapor will be vented to the atmosphere from the glycol regenerator.

Tanks on the facility shall be atmospheric and not pressurized. Separators and pipelines will be pressurized with pressure varying between 5 to 1000 pounds.

To prevent both unintentional and inadvertent discharges from reaching the ground surface and polluting surface or ground water all storage tanks for fluids other than fresh water will be bermed with sufficient freeboard to prevent overflow. No tanks are expected to be interconnected. Chemical and drum storage areas will be paved, curbed and drained such that spills or leaks will be contained on the pads or drained. All above-ground tanks shall be installed on gravel pads so that leaks can be identified.

A sump will be installed in it own double lined steel tank. This sump shall pump water and waste into the slop storage tank. The sump will be visually inspected annually for accumulation of solids or sludges. Any such accumulations will be removed by an OCD-authorized waste remover.

It is expected that the facility will have underground pipelines for the drainage system and for the septic system. These underground wastewater pipelines will be installed at the time of the facility construction. When these pipelines are 25 years old, they will be tested to demonstrate their mechanical integrity.

4 Effluent Disposal

All effluent disposal from the facility will be handled in accordance with OCD regulations. The effluent will be removed from the facility by an OCD-approved licensed waste remover or recycler.

There shall be one area of surface impoundment for storm water on the facility. A 50-foot diameter, double lined, evaporation pond shall be located remote from the process area in the southwest corner of the facility. The evaporation pond will be installed in accordance with the OCD regulations.

The pond will be double lined with a leak detection system. An electronic sensor installed between the two liners in the bottom of the pond will sound a plant alarm in the control room when any liquids accumulate between the liners. A low point pumpout connection shall be installed between the liners of the pond. If necessary, water from the pond may be trucked from the site for disposal at an OCD-approved facility.

There will be a septic system on the facility that will be designed and installed in accordance with applicable local and state regulations. Installation of the septic system will be by an authorized company from the area. The leach field and septic tank will be located east of the office building. The septic system will serve the MCC building and will not receive non-sewage or mixed flow from any process units or internal drains.

No injection wells, drying beds, or other pits are expected to be constructed on the facility. No other on-site disposal, other than the methods already described are expected on the facility.

All storage tanks will be above grade and will be installed with spill containment and leak detection facilities complying with the provisions of the BLM and the OCD. An alarm system will include alarms for high levels detected on all the storage tanks to prevent accidental overfilling of the tanks. This alarm system will also notify the operator of any process operating conditions which are not normal.

WFS personnel will be at the facility 8 hours per day, 5 days per week. WFS personnel will also be monitoring plant operations from its Milagro operations 24 hours per day, 365 days per year. The plant operators will monitor and control the operation of the facility and will make routine visual inspections of the plant equipment. The alarm system will also notify the operator of any process operating conditions which are not

normal and will assist in detecting failures of the discharge system. WFS personnel will routinely monitor fluid volumes and test the integrity of the storage tanks for early leak detection.

The project life of this facility is estimated to be 30 years. If operation of this facility does discontinue during the period that this discharge plan is in effect, WFS will develop an abandonment plan in accordance with appropriate agencies. This plan will likely include the removal of all above-ground facilities to be salvaged for use elsewhere. Unsalveagle materials will be disposed of at authorized disposal sites. The plan will include, but not be limited to regrading and revegetation of this facility and post-operational monitoring to prevent ground water contamination after cessation of operation.

Off-site disposal of process waste including slop oil, dirty water, used lube oil, and process filters will be by truck by an OCD-approved licensed shipping agent and removed to an OCD-approved facility.

5 Inspection, Maintenance, and Reporting

The site will be inspected daily by WFS personnel. Leaks, spills, and drips will be handled in accordance with OCD rule 116 as follows:

- Small spills will be absorbed with soil and shoveled into drums for off-site disposal by an OCD-approved disposal contractor.
- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Contaminated soil will be shoveled into drums for off-site disposal by an OCD-approved disposal contractor.
- Verbal and written notification of leaks or spills will be made to OCD in accordance with rule 116.
- All areas that have been identified during operation as susceptible to leaks or spills will be paved, bermed, or otherwise contained to prevent the discharge of any effluents.

Spill containment and leak detection equipment will be installed and operated in accordance with requirements of OCD. The storage tanks will be installed in lined containment area with earthen dikes sufficient to retain all spills on-site.

Storm water from the facility will be retained on site in the evaporation pond located on the southern, downslope portion of the facility. All storm water will be retained in a double lined evaporation pond. Storm water will be allowed to evaporate from the pond. Liquids may also be removed by truck if necessary. Surface erosion on the facility will be controlled with a series of water bars placed over the facility if necessary.

6 Spill/Leak Prevention and Reporting (Contingency Plans)

Williams Field Services has an in-house spill control procedures document in effect at its facilities (appendix 2) that establishes policy and procedures for preventing, controlling, and reporting spills or discharges of oil or hazardous substances into the environment . This policy was developed in accordance with federal, state, and local requirements.

Effect of Discharge Plan on Wildlife Species

Prior to the commencement of construction of the proposed facility, WFS will contract a certified biologist to conduct a Threatened and Endangered Species survey. Also, WFS understands that as part of the public review process, the United States Department of Interior, Fish and Wildlife Services (USFW) will prepare a list of federally listed and candidate species that may be in the project area.

WFS will not unnecessarily disturb or destroy wetlands, riparian vegetation, and any identified threatened or endangered species' sensitive habitat on or near the site during construction or operation of the facility. If adverse impacts cannot be avoided, WFS will notify the USFW so that the adverse impacts can be discussed in greater detail. WFS will inform on-site employees of any threatened or endangered species and habitat on or near the site to increase individual awareness of these issues.

WFS is submitting a form C-134 Application for Exception to Division Order R-8952, regarding the protection of migratory birds, to OCD. It is not expected that the evaporation pond at the facility will be hazardous to migratory waterfowl since only storm water is expected to collect in the pond.

7 Site Characteristics

The proposed location of the La Maquina Treating Plant is in Sections 27 and 28, Township 31 North, Range 10 West, in San Juan County. The facility is approximately 12 kilometers northeast of Aztec, New Mexico and approximately 10 kilometers south of the Colorado-New Mexico border. The site is rural in nature. It is located in irregular terrain at an elevation of approximately 6120 to 6160 feet above mean sea level (MSL).

The site is indicated on the attached Cedar Hill and Aztec 7.5 minute topographic maps.

Hydrologic Features

The facility is located approximately 20 feet in elevation above the Hart Canyon drainage, a small intermittent stream and the nearest watercourse. This drainage flows into the Animas River located approximately 7 kilometers west of the facility.

The elevation of the intermittent stream closest to the facility is approximately 6090 feet above MSL. The elevation of the facility is between 6120 and 6160 feet MSL. It is, therefore, estimated that the facility is approximately 30 to 70 feet above the local water table. The closest recorded well (Well Number 14 in appendix 3) with depth to water information is located in the same township, range, and section as the facility. The depth to water at this well is 53 feet. The Aquifer Sensitivity Map for San Juan County, New Mexico which was compiled by Lee Wilson and Associates, Inc. for the New Mexico Environment Department in 1989 locates the facility as within a high aquifer sensitivity zone. This zone is defined as a location in which the depth to ground water is less than 100 feet and the ground water contains 2000 mg/l or less Total Dissolved Solids.

Water supplied to the facility will be provided by a pipeline from the local water company. There will be no water wells at the facility.

Records and well information from "Hydrogeology and Water Resources of San Juan Basin, New Mexico", by W.J. Stone, et. al., NMIMT 1983 were searched for locations of wells within five miles around the facility. Thirty-six wells were recorded within this 5-mile radius around the facility. Appendix 3 includes information on these 36 wells and figure 4 (also in appendix 3) shows the relationship of these wells to the facility. This appears to be the only available information on the Total Dissolved Solids concentration of local water.

The only available Total Dissolved Solid information on area wells is for Well Number 18 located in T31N, R11W in Section 26 approximately 7 kilometers west of the facility. Total Dissolved Solids for this well measures 484 mg/l.

It is suspected that the general flow direction of the ground water would be to the west/southwest following the flow of the Hart Canyon drainage and the Animas River.

Geologic Description of Discharge Site

According to the "Soil Survey of San Juan County, New Mexico, Eastern Part", issued 1980 by the United States Department of Agricultural, Soil Conservation Service, soils in the proposed facility area are part of the Blancot-Fruitland Association. Blancot and Fruitland soils are deep and well drained. These soils are formed in alluvium derived from sandstone and shale. This unit is 45 percent Blancot loam and 25 percent Fruitland sandy loam.

The proposed La Maquina Treating Plant is located within the San Jose Formation. The youngest of the Tertiary bedrock units in the San Juan Basin, the San Jose Formation is characterized by a sequence of interbedded alluvial sandstones and mudstones. The San Jose Formation is approximately less than 200 to 2,700 ft in thickness.

According to "Hydrogeology and Water Resources of San Juan Basin, New Mexico", by W.J. Stone, et. al., NMIMT 1983, the aquifers in the San Jose Formation are largely untested. Although only a few tests have been made, Baltz and West ("Ground water Resources of the Southern Part of the Jicarilla Apache Indian Reservation and Adjacent Areas, New Mexico: U.S. Geological Survey, Water Supply Paper 1576-H, p. 65) conclude that a well open to all sandstone in the formation might yield 1,440 gallons per minute. The San Jose Formation provides water to numerous wells and springs in the area. The specific conductance of water from wells and springs in the area averages about 2,000 µmhos.

According to the "Soil Survey of San Juan County, New Mexico, Eastern Part", issued 1980 by the United States Department of Agricultural, Soil Conservation Service,the Blancot-Fruitland Association soils in the hydrologic group B. Soils in this group have a moderate infiltration rate when thoroughly wet and have a moderate rate of water transmission. Typically, flooding is not probable in this soil type. Typical depth to the high water table is greater than 6 feet and depth to bedrock is greater than 60 feet.

Affirmation

I hereby certify that I am familiar with the information contained in and submitted with this discharge plan for the proposed La Maquina Treating Plant and that such information is true, accurate, and complete to the best of my knowledge and belief.

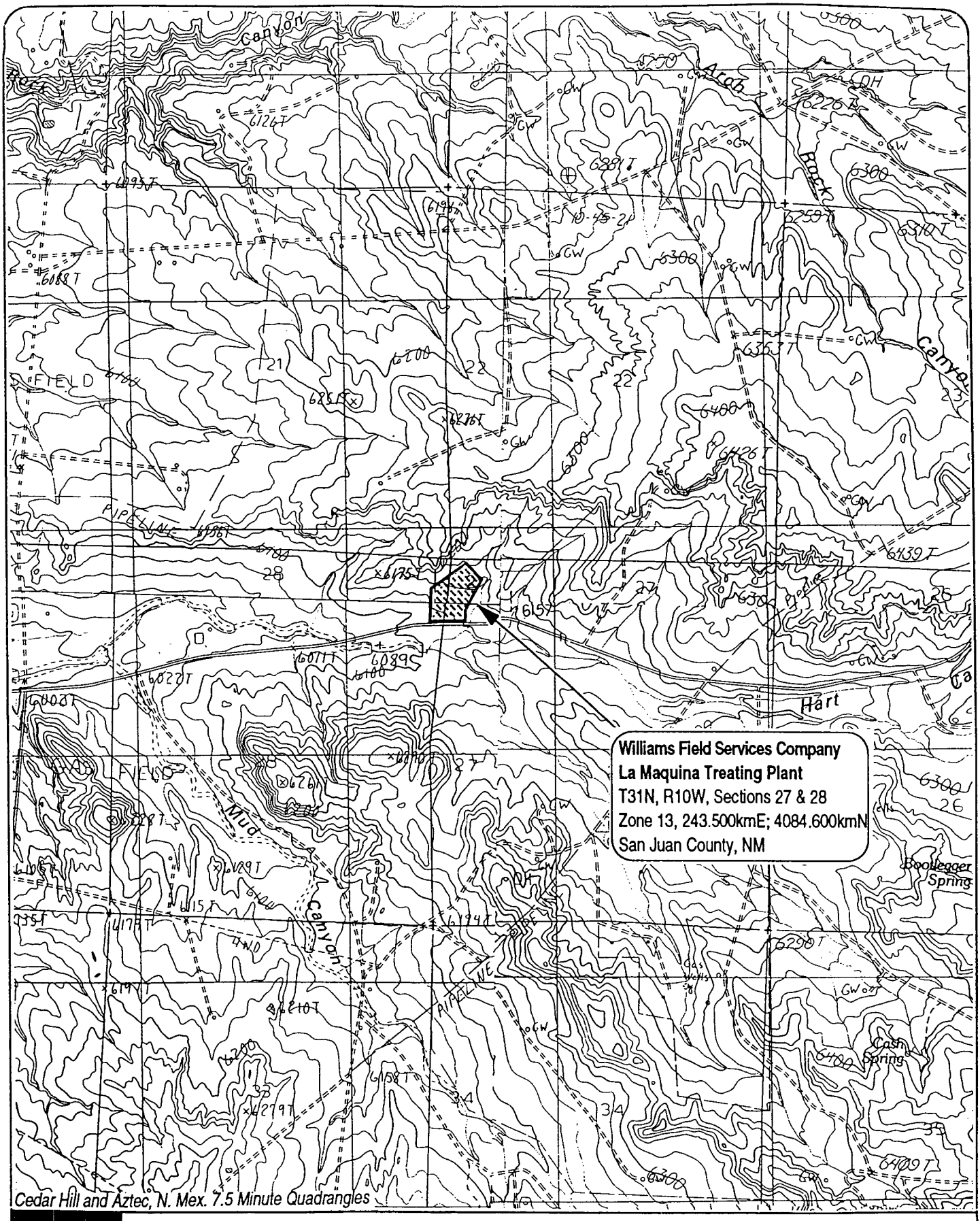
H J Bauerle

Signature

7-22-94

Date

H. Lee Bauerle
Environmental Specialist
Williams Field Services Company



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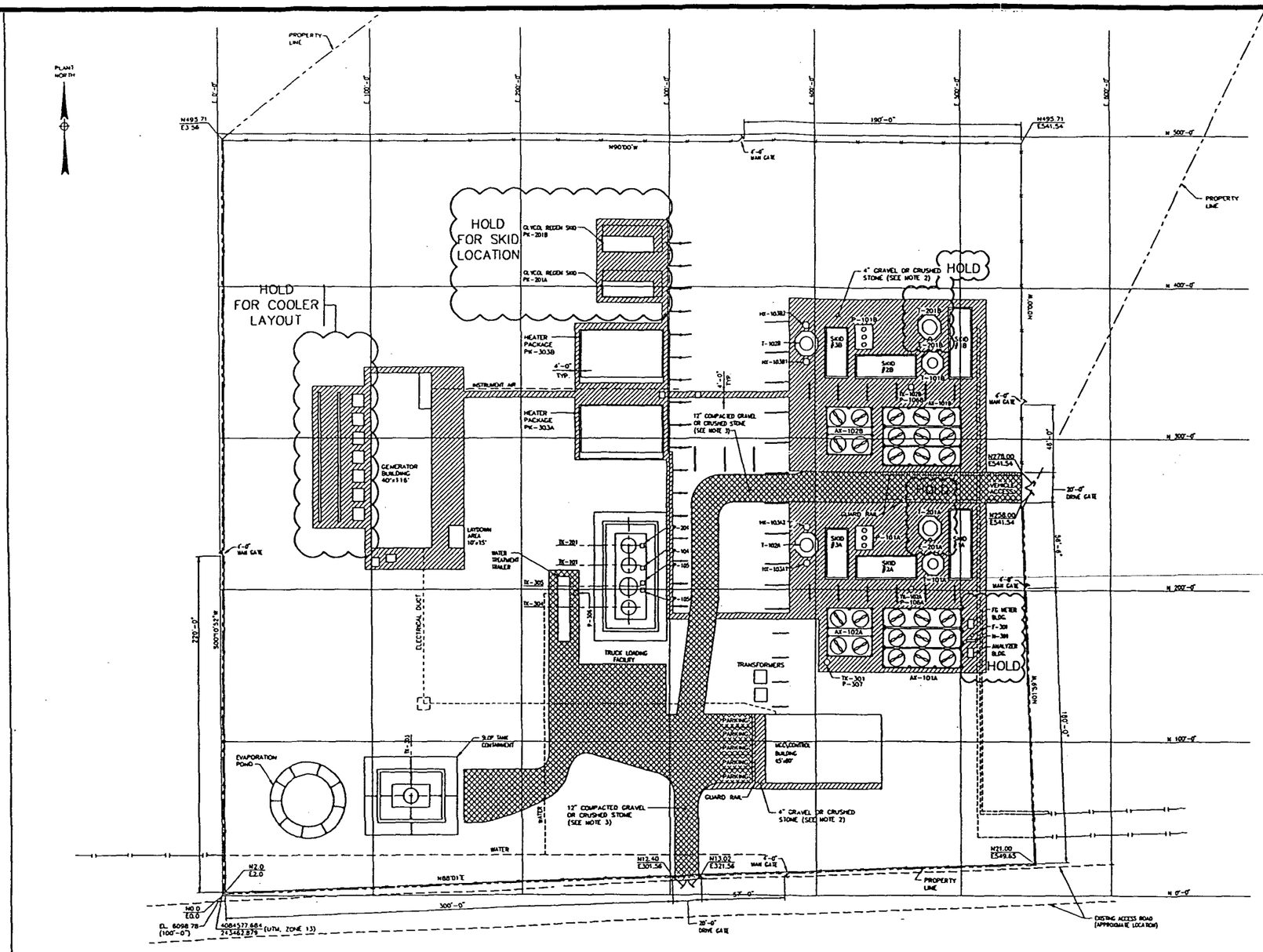
0 1000 2000 3000 ft

0 300 600 900 m

Figure 1
Location of Facility



GENERAL NOTES:

1. PLANT GRID SYSTEM IS ESTABLISHED BY COORDINATE (0,0) MEASURED 1'-0" WEST AND 1'-0" SOUTH OF SW PROPERTY CORNER.
2. GRAVEL OR CRUSHED STONE SHALL CONFORM TO "NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 1984" SECTION 304, CLASS 1-B. SPREAD GRAVEL OR CRUSHED STONE AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D-698.
3. GRAVEL OR CRUSHED STONE SHALL CONFORM TO "NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 1984" SECTION 304, CLASS 1-B. SPREAD GRAVEL OR CRUSHED STONE IN 6" LIFTS AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D-1557.
4. REFER TO DWG. 21-00-003 FOR SECTIONS AND DETAILS.
5. ELEV. 100'-0" EQUALS BENCHMARK ELEVATION 6098.78 ABOVE MEAN SEA LEVEL.

JUN 08 1994

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REFERENCE DRAWINGS

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PRINT ISSUE RECORD

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CUSTOMER	
FIELD	
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DRAWING STATUS	ISSUED	DATE
PRELIMINARY		
FOR COMMENTS AND OR APPROVAL		
APPROVED FOR CONSTRUCTION		
REVISED AND APPROVED FOR CONSTRUCTION	REV. A	

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PIPING		
INSTR.		
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PROCESS		
PROJECT		

PREPARED FOR
WILLIAMS FIELD SERVICES COMPANY
LA MAQUINA GAS TREATING PLANT
SAN JUAN COUNTY, NEW MEXICO

BATEMAN ENGINEERING INC.
NIELSON INC.

TITLE
CIVIL
FENCE/SITE PLAN

CLIENT APPROVAL		SHEET	REVISION
		1 OF 1	A
PROJECT NUMBER	SCALE	DRAWING NUMBER	
7098	1"=30'-0"	21-00-001	

ES01

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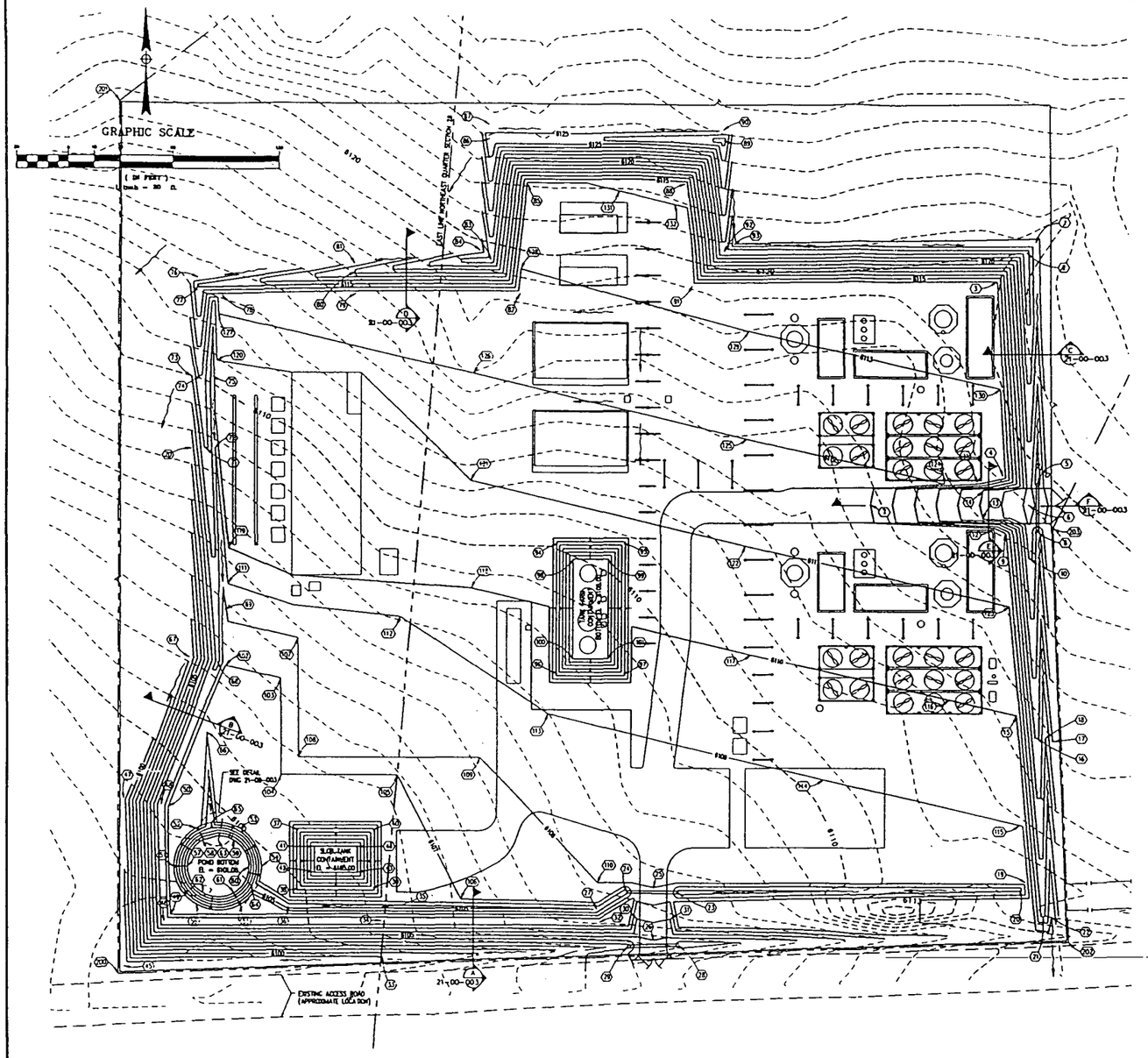
Figure 2
Fence/Site Plan



COORDINATE LISTING:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	417.87	532.70	8120.25	INVERT SWALE
2	412.24	527.14	8122.50	TOP CL OF BERM
3	395.56	510.03	8113.99	TOE OF BERM
4	284.83	513.19	8112.70	TOE OF BERM
5	280.72	533.53	8117.50	INVERT CULVERT
6	268.36	526.47	8119.29	CL OF ROAD
7	268.36	437.53	8112.00	CL OF ROAD
8	252.95	533.53	8116.50	INVERT CULVERT
9	251.72	514.17	8111.60	TOE OF BERM
10	237.72	529.12	8118.00	TOP CL OF BERM
11	281.20	498.80	8112.10	TOE OF BERM
12	254.50	507.73	8111.60	TOE OF BERM
13	260.31	501.52	8117.00	EDGE OF ROAD
14	278.78	501.83	8117.00	EDGE OF ROAD
15	148.05	520.45	8110.00	TOE OF BERM
16	135.40	532.78	8115.00	TOP CL OF BERM
17	133.28	541.89	8115.00	TOE OF BERM
18	135.40	537.88	8113.00	INVERT SWALE
19	53.77	526.00	8108.53	TOE OF BERM
20	49.79	522.22	8108.33	INVERT SWALE
21	34.53	536.06	8112.00	TOP CL OF BERM
22	34.32	541.07	8110.00	INVERT SWALE
23	47.63	325.91	8105.75	INVERT CULVERT
24	47.84	295.38	8105.25	INVERT CULVERT
25	50.22	311.41	8106.00	CL OF ROAD
26	20.22	311.41	8105.00	CL OF ROAD
27	37.78	277.63	8105.05	INVERT SWALE
28	17.76	329.68	8103.00	INVERT CULVERT
29	18.80	298.16	8102.50	INVERT CULVERT
30	32.76	301.41	8106.00	EDGE OF ROAD
31	32.26	321.41	8106.00	EDGE OF ROAD
32	30.41	279.18	8108.75	TOP CL OF BERM
33	10.66	252.42	8099.00	TOE OF BERM
34	30.72	151.85	8106.75	TOP CL OF BERM
35	38.96	151.95	8104.50	INVERT SWALE
36	39.11	86.06	8104.25	INVERT SWALE
37	82.17	103.97	8109.00	TOP CL OF BERM
38	49.17	103.97	8108.00	TOP CL OF BERM
39	49.17	144.92	8108.00	TOP CL OF BERM
40	82.14	144.84	8108.00	TOP CL OF BERM
41	73.17	112.94	8105.00	POND BOTTOM
42	58.17	112.84	8105.00	POND BOTTOM
43	58.17	137.94	8105.00	POND BOTTOM
44	73.17	137.94	8105.00	POND BOTTOM
45	5.48	4.08	8097.00	TOE OF BERM
46	30.71	27.24	8108.75	TOP CL OF BERM
47	99.77	4.62	8098.80	TOE OF BERM
48	86.56	25.83	8108.75	TOP CL OF BERM
49	34.27	30.71	8108.00	TOE OF BERM
50	95.51	29.83	8108.00	TOE OF BERM
51	81.58	32.77	8108.00	TOP EDGE OF POND
52	83.24	45.28	8108.00	TOP EDGE OF POND
53	83.24	70.28	8108.00	TOP EDGE OF POND
54	81.59	82.78	8108.00	TOP EDGE OF POND
55	38.94	70.28	8108.00	TOP EDGE OF POND
56	38.94	45.28	8108.00	TOP EDGE OF POND
57	81.58	46.78	8101.00	POND BOTTOM
58	78.75	68.01	8101.00	POND BOTTOM
59	78.75	86.51	8101.00	POND BOTTOM
60	81.58	75.28	8101.00	POND BOTTOM
61	48.44	86.51	8101.00	POND BOTTOM
62	48.44	68.01	8101.00	POND BOTTOM
63	78.59	57.78	8100.50	POND SUMP
64	50.99	78.96	8104.00	INVERT SWALE
65	86.97	53.75	8104.00	INVERT SWALE
66	137.83	51.20	8106.00	INVERT SWALE
67	180.24	41.90	8102.10	TOE OF BERM
68	178.41	57.38	8108.10	TOP CL OF BERM
69	207.73	81.37	8107.80	INVERT SWALE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
70	300.08	42.84	8107.40	TOE OF BERM
71	293.13	61.09	8111.00	TOP CL OF BERM
72	300.38	56.06	8109.00	INVERT SWALE
73	341.54	43.11	8110.00	TOE OF BERM
74	341.78	67.77	8112.00	TOP CL OF BERM
75	341.73	54.48	8108.80	INVERT SWALE
76	396.87	46.99	8113.10	TOE OF BERM
77	392.24	46.99	8113.10	TOP CL OF BERM
78	367.03	60.36	8112.18	TOE OF BERM
79	368.20	137.05	8112.50	TOP CL OF BERM
80	400.36	136.85	8118.00	TOP CL OF BERM
81	405.00	136.45	8118.30	TOE OF BERM
82	368.27	231.56	8112.80	TOE OF BERM
83	406.87	215.06	8121.50	TOP CL OF BERM
84	412.42	208.83	8119.55	TOE OF BERM
85	450.14	236.20	8113.78	TOE OF BERM
86	475.88	214.41	8125.85	TOP CL OF BERM
87	483.46	214.14	8123.85	TOE OF BERM
88	450.82	329.83	8114.21	TOE OF BERM
89	475.83	352.33	8127.20	TOP CL OF BERM
90	481.36	352.17	8125.20	TOE OF BERM
91	363.58	334.06	8113.28	TOE OF BERM
92	412.80	352.40	8122.80	TOP CL OF BERM
93	418.72	358.47	8120.85	INVERT SWALE
94	246.14	254.00	8112.00	TOP CL OF BERM
95	246.14	283.00	8112.00	TOP CL OF BERM
96	171.14	254.00	8112.00	TOP CL OF BERM
97	171.14	283.00	8112.00	TOP CL OF BERM
98	237.14	283.00	8108.00	POND BOTTOM
99	237.14	284.00	8108.00	POND BOTTOM
100	180.14	283.00	8108.00	POND BOTTOM
101	180.14	254.00	8108.00	POND BOTTOM
102	173.58	82.02	8107.00	GROUND
103	186.37	83.88	8107.00	GROUND
104	113.80	83.88	8107.00	GROUND
105	113.80	160.82	8107.00	GROUND
106	43.11	187.84	8107.00	GROUND
107	191.73	103.88	8108.00	GROUND
108	123.80	103.88	8108.00	GROUND
109	123.80	208.58	8108.00	GROUND
110	52.83	278.14	8108.00	GROUND
111	223.57	83.22	8108.00	GROUND
112	203.98	162.43	8108.00	GROUND
113	148.52	248.15	8108.00	GROUND
114	111.58	410.37	8109.00	GROUND
115	88.10	522.25	8108.00	GROUND
116	154.78	482.13	8110.00	GROUND
117	182.83	368.67	8110.00	GROUND
118	220.19	203.84	8110.00	GROUND
119	343.04	83.67	8110.00	GROUND
120	350.53	57.23	8111.00	GROUND
121	281.77	203.66	8111.00	GROUND
122	244.87	365.17	8111.00	GROUND
123	210.44	518.62	8111.00	GROUND
124	280.41	479.88	8112.00	GROUND
125	306.27	366.22	8112.00	GROUND
126	342.99	295.07	8112.00	GROUND
127	378.48	36.34	8112.00	GROUND
128	402.08	231.88	8113.00	GROUND
129	367.54	367.40	8113.00	GROUND
130	334.65	511.71	8113.00	GROUND
131	446.81	290.44	8114.00	GROUND
132	438.14	323.23	8114.00	GROUND
200	1.03	1.00	8086.78	PROPERTY CORNER
201	486.22	2.57	-	PROPERTY CORNER
202	20.06	550.68	-	PROPERTY CORNER
203	254.83	542.55	-	PROPERTY CORNER

GENERAL NOTES:

1. CULVERT PIPE SHALL BE 12" NOMINAL CORRUGATED GALVANIZED METAL PIPE (CMP) CONFORMING TO ASTM A760 TYPE I PIPE WITH 2-2/3 x 1/2 INCH CORRUGATIONS.
2. BENCHMARK: 1/2" IP WITH CAP STAMPED L.S. 8702 LOCATED AT THE SOUTHWEST PROPERTY CORNER (POINT #200) EL. = 8088.78 PER LA MAQUINA TREATING PLANT SURVEY PLAT, FIGURE 8.1, PREPARED BY HARVEY D. PETERSON, DATED 10/22/93

REFERENCE DRAWINGS

NO	REVISIONS	DATE	BY	CHKD	APV'D
A	PRELIMINARY ISSUE	1/1/94	WRJ		
B	REDUCED SITE TO 5 ACRES	1/8/94	WRJ		
C	MODIFY ENTRANCES, MOVED TANK FARM, AND ADDED PARKING LOT	1/12/94	WRJ		
D	REGRADE TANK CONTAINMENT	1/25/94	WRJ		
E	REGRADE NORTH PERIMETER	3/16/94	WRJ		
F	ADDED STAKE OUT COORDINATES	5/11/94	WRJ		
G	ISSUE FOR APPROVAL	5/23/94	WRJ		

PRINT ISSUE RECORD

DRAWING STATUS

ISSUED	DATE
PRELIMINARY	
FOR COMMENTS AND OR APPROVAL	
APPROVED FOR CONSTRUCTION	
REVISED AND APPROVED FOR CONSTRUCTION	REV.

	BY	DATE
DRAWN	WRJ	1/1/94
CHECKED		
MECH.		
STRUCT.		
ELECT.		
PIPING		
INSTR.		
CIVIL		
PROCESS		
PROJECT		

PREPARED FOR
WILLIAMS FIELD SERVICES COMPANY
LA MAQUINA GAS TREATING PLANT
SAN JUAN COUNTY, NEW MEXICO

BATEMAN ENGINEERING INC.
NIELSON INC.

TITLE
CIVIL
ROUGH GRADING AND EXCAVATION PLAN

CLIENT APPROVAL

SHEET 1 OF 1

PROJECT NUMBER 7098
SCALE 1" = 30'
DRAWING NUMBER 21-00-002
REVISION G

JUN 08 1994

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Figure 3
Civil Rough Grading and Excavation Plan

WILLIAMS FIELD SERVICES COMPANY
ONE OF THE WILLIAMS COMPANIES

OPERATIONS

Manual	Department	
O & M Procedure		
Section	Tab	Document No.
Safety/General	10	21.10.020
Effective Date	Issue No.	Page No.
9-16-93	1	1 of 6

Subject of Title

DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

A. PURPOSE AND SCOPE

A.1 To establish the policy and procedure for preventing, controlling, and reporting of spills or discharges of oil or hazardous substances to the environment in accordance with Company practices and federal, state, and local requirements, including Title 40 of the Code of Federal Regulations - Part 112 (Oil Pollution Prevention).

A.2 This document pertains to Company personnel and Company and non-company facilities. The spill prevention and control requirements in this Policy and Procedure are Federally mandated guidelines for oil pollution prevention. The Company policy is to also apply these standards, where appropriate, to facilities containing hazardous substances. This is a discretionary applicaton of the standards; however, variations from the standards should be approved by the responsible Director.

B. CONTENTS

C. POLICY

C.1 GENERAL

C.1.1 All Company facilities which could discharge or spill oil or hazardous substances which may affect natural resources or present an imminent and substantial danger to the public health or welfare including, but not limited to fish, shellfish, wildlife, shorelines, and beaches are subject to the provisions of this document.

C.1.2 Hazardous Substance, for purposes of this procedure, is defined as any chemical or material that has or should have a Material Safety Data Sheet (MSDS); however, hazardous substances are further defined by the following environmental statutes:

a. Section 101 (N) and Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

b. Section 307(a) and Section 311 (b)(2)(A) of the Clean Water Act

c. Section 3001 of the Solid Waste Act (excluding items suspended by Congress)

d. Section 112 of the Clean Air Act

e. Section 7 of the Toxic Substance Control Act

Supersedes Policy and Procedure 12.10.020 dated July 7, 1989.

Approval (Page 1 only)	Approval (Page 1 only)	Approval (Page 1 only)

b. All tank batteries should, as far as practicable, have a secondary means of containment for the entire contents of the largest single tank plus sufficient freeboard in the containment facility to allow for precipitation.
c. A annual monitoring and inspection program to prevent accidental spills or discharges into watercourses. This includes annual inspection for faulty systems and monitoring line valves and liquid pipelines for leaks or blowouts.

C.1.10 Any field drainage ditches, road ditches, traps, sumps, or skimmers should be inspected at annual scheduled intervals for accumulation of liquid hydrocarbons or other hazardous substances which may have escaped from small leaks. Any such accumulations should be removed.

C.2 BULK STORAGE TANKS

C.2.1 A tank should not be used for storage of oil or hazardous substances unless the material and construction of the tank is compatible with the material stored and conditions of storage such as pressure and temperature. Buried storage tanks must be protected from corrosion by coatings, cathodic protection, or other methods compatible with local soil conditions. Aboveground tanks should be subject to visual inspection for system integrity.

C.2.2 The facility supervisor should evaluate level monitoring requirements to prevent tank overflow.

C.2.3 Leaks which result in loss of oil or hazardous substances from tank seams, gaskets, rivets and bolts sufficiently large to cause accumulation of oil or hazardous substances in diked areas should be promptly corrected.

C.2.4 Mobile or portable oil or hazardous substances storage tanks should be positioned or located to prevent the contents from reaching a watercourse. The mobile facilities should be located so their support structure will not be undermined by periodic flooding or washout.

C.3 FACILITY DRAINAGE

C.3.1 Make provisions for drainage from diked storage areas where necessary in areas with high precipitation levels. Drainage from dike areas should be restrained by valves or other means to prevent a discharge or spill. Diked areas should be emptied by pumps or ejectors which are manually activated. Valves used for the drainage of diked areas should be of manual, open-and-closed design.

C.3.2 Rain water may be drained from diked areas providing drainage water does not contain oil or hazardous substances that may cause a harmful discharge. Drain valves must be closed following drainage of diked areas.

C.3.3 When possible, drainage systems from undiked areas should flow into ponds, lagoons, or catchment basins designed to retain oil or hazardous substances or return the substances to the facility. Any drainage system which is not designed to allow flow into ponds, lagoons, or catchment basins should be equipped with a diversion system that could, in the event of a discharge or spill, contain the oil or hazardous substances on the Site.

C.3.4 The principal means of containing discharges or spills is the use of dikes which are constructed wherever regulated quantities of oil or hazardous substances have the potential of reaching a watercourse. The construction of dikes must meet the following requirements:

a. Capacity must be at least equivalent to the storage capacity of the largest tank of the battery plus sufficient freeboard to allow for pecipitation, or displacement by foreign materials.
b. Small dikes for temporary containment are constructed at valves where potential leaking of oil or hazardous substances may occur.

c. Any dike three feet or higher should have a minimum cross section of two feet at the top.

C.3.5 Other means of containment or spill control include, but are not limited to:

a. Berms or retaining walls;
b. Curbing;
c. Culverting, gutters, or other drainage systems;
d. Weirs, booms, or other barriers;
e. Spill diversion ponds or retention ponds;
f. Sorbent materials

C.4 TRANSFER OPERATIONS, PUMPING, AND IN-PLANT/STATION PROCESS

C.4.1 Aboveground valves and pipelines should be examined annually by operating personnel to determine whether there are any leaks from flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, valve locks, and metal surfaces.

C.5 FACILITY TANK CAR AND TANK TRUCK LOADING/UNLOADING RACK

C.5.1 Rack area drainage which does not flow into a catchment basin or treatment facility designed to handle spills should have a quick drainage system for use in tank truck loading and unloading areas. The containment system should have a maximum capacity of any single compartment of a truck loaded or unloaded in the station.

C.5.2 Aboveground piping that has potential for damage by vehicles entering the Site should be protected by logically placed warning signs or by concrete-filled pipe barriers.

C.5.3 Loading and unloading areas should be provided with an interlocked warning light, grounding shutdown, physical barrier system, or warning signs to prevent vehicular departure before complete disconnect of flexible or fixed transfer lines. All drains and outlets of any truck should be closely examined for leakage prior to filling and departure. All drains and outlets which may allow leakage should be tightened, adjusted, or replaced to prevent liquid leakage while in transit.

NOTE: LPG loading facilities and remote field loading of condensate are exempt from the C.5 requirements of this document.

D. PROCEDURE

D.1 IDENTIFYING, CONTAINING AND INITIAL REPORTING OF A DISCHARGE OR SPILL OF OIL OR HAZARDOUS SUBSTANCE

Any Employee

D.1.1 Upon noticing a discharge or spill of an oil or hazardous substance in any quantity initiates immediate containment procedures and notifies facility supervisor.

NOTE: Refer to Attachment A for containment procedures.

Facility Supervisor

D.1.2 Contacts Gas Control and responsible Director immediately by telephone and provides the following information:

a. Name of company facility and/or location of facility and nature of discharge or spill
b. Description and quantity of emission or substance discharged
c. Name, title, and telephone number of person initially reporting the discharge or spill and person reporting to Gas Control
d. Action taken or being taken to mitigate and correct discharge or spill
e. Water bodies or streams involved
f. Time and duration of discharge or spill
g. Outside involvement during discharge or spill (public government agencies, etc. See Emergency Operating Procedure Manuals)

Gas Control Personnel

D.1.3 Advises Environmental Services departments immediately by telephone concerning the incident including any incidents reported by persons not employed with the Company.

NOTE: If Gas Control is contacted by a person not employed with the Company, the necessary information is obtained as indicated in D.1.2 and the Supervisor and Environmental Services are immediately contacted to begin containment and clean-up of the discharge or spill.

D.1.4 If Environmental Services cannot be contacted, notifies Director over Environmental Services.

Facility Supervisor

D.1.5 Coordinates containment and clean-up of discharge or spill, keeping the responsible Director Informed.

D.1.6 If the discharge or spill is too large for Company personnel to contain, contacts qualified local contractors for assistance. (See Emergency Operating Procedure Manuals tab #11, contractors with available equipment and services).

D.1.7 Advises Environmental Services by telephone if emergency containment or clean-up assistance from a state agency or a response team from the U.S. Coast Guard is required.

Environmental Services

D.1.8 Contacts Legal Department (and Right-of-Way Department, if appropriate) and assesses reporting requirements to state and federal agencies. (See Emergency Operating Procedure Manuals).

D.1.9 Makes appropriate contacts with U.S. Coast Guard and state agencies when necessary.

D.1.10 If spill is significant, dispatches Environmental Specialist to scene to oversee cleanup and reporting responsibilities.

D.2 SUBMITTING WRITTEN NOTIFICATION OF A DISCHARGE OR SPILL

Facility Supervisor

D.2.1 Completes a written description of the incident as soon as possible after initial notification is given, which should include the following:

a. Time and date of discharge or spill
b. Facility name and location
c. Type of material spilled
d. Quantity of material spilled
e. Area affected
f. Cause of spill
g. Special circumstances
h. Corrective measures taken
i. Description of repairs made
j. Preventative measures taken to prevent recurrence.

D.2.2 Forwards the completed report to Environmental Services and a copy to Legal Department. Retains a copy for future reference.

NOTE: Environmental Services, in coordination with the Legal Department, submits written reports to government agencies.

ATTACHMENT A

Discharge or Spill Containment Procedures and Materials

Type of Facility where the Discharge or Spill occurs	Containment Procedures	Material Used for Containment
A. Oil Pipeline (as defined in C.1.4)	1. Closes appropriate block valves. 2. Contains discharge or spill by: ditching covering, applying sorbents, constructing an earthen dam, or burning. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning.	1. Straw 2. Loose Earth 3. Oil Sorbent - 3M Brand 4. Plain Wood Chips 5. Sorb - Oil Chips Banta Co. 6. Sorb - Oil Swabs - Banta Co. 7. Sorb - Oil Mats - Banta Co. 8. Or Equivalent Materials.
B. Vehicle	1. Contains discharge or spill by: ditching, covering surface with dirt, constructing earthen dams, applying sorbents, or burning. 2. Notifies immediately the Compliance and Safety Department and if there is any imminent danger to local residents; notifies immediately the highway patrol or local police officials. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning. **NOTE:** Any vehicle carrying any hazardous or toxic substance will carry a shovel or other ditching device to contain a spill. If the vehicle has sufficient room, sorbent materials should also be carried.	
C. Bulk Storage Tanks or any other Facilities	1. Contains discharge or spill by: ditching, covering, applying sorbents, constructing an earthen dam, or burning. 2. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning.	

C.1.3 The term hazardous substance does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance in the first sentence of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

C.1.4 Oil, for the purpose of this document, means oil of any kind or in any form, including but not limited to petroleum, fuel oil, Y grade, mixed products, sludge, oil refuse, and oil mixed with wastes other than dredged spoil (earth and rock). LPG (propane, butane, ethane) are not considered to be oil.

C.1.5 Facilities which could discharge or spill oil or hazardous substances into a watercourse must comply with the required federal, state, or local laws and regulations. A discharge includes but is not limited to any spilling, leaking, pumping, pouring, emitting, emptying, or dumping. A watercourse is any perennial or intermittent river, stream, gully, wash, lake, or standing body of water capable of collecting or transporting an oil or hazardous substance.

C.1.6 Facilities which are subject to the requirements stated in this policy are as follows:

a. Non-Transportation Related Facilities

(1) Storage or drip tanks and other aboveground containers (excluding pressurized or inline process vessels) having a capacity in excess of 660 gallons for each single container or an aggregate capacity of 1,321 gallons or more for multiple containers.

(2) Underground storage facilities having a total capacity in excess of 42,000 gallons.

b. Transportation Related Facilities

(1) All vehicles, pipeline facilities, loading/unloading facilities, and other mobile facilities which transport oil or hazardous substances.

C.1.7 Each Company location which has facilities subject to paragraph C.1.1 shall have a site specific Spill Prevention Control and Countermeasure Plan (SPCC Plan) which identifies all facilities subject to 40 CFR 112. The plan shall identify all hazardous substance storage vessels at the facility and the spill prevention measures in place to control discharges or spills. This plan shall also identify all regulatory agencys that must be notified in case of a spill.

C.1.8 The facility supervisor is responsible for spill prevention. His/her duties include, but are not limited to, the following:

a. Instructing personnel in the operation and maintenance of equipment to prevent the discharge of oil.
b. Conduct briefings for operating personnel at intervals frequent enough to assure adequate understanding of the Spill Plan at that facility.
c. Briefings should highlight and describe known discharges or spills, and recently developed precautionary measures.

C.1.9 Each individual facility is checked by the supervisor or designee to determine the potential for discharges or spills of oil or hazardous substances in harmful quantities that violate water quality standards or which may cause a film, sheen, or discoloration on the surface of water. All facilities which have the potential for discharging or spilling harmful quantities of oil or hazardous substances into a watercourse are required to have the following preventive measures:

a. Examination of all tanks, valves and fittings, at least annually, to determine any maintenance requirements.

Appendix 3
Available Information on Wells in the Area

Well No	Date Drilled	T	R	Sec	Location	Elevation (ft)	Depth to Water (ft)	Micromho	TDS mg/l
1	9/24/74	31N	10W	4	NE1/4NW1/4SW1/4SW1/4	5760	14	n/a	n/a
2	4/30/59	31N	10W	5	n/a	5810	n/a	n/a	1100
3	9/24/74	31 N	10W	5	NE1/4SE1/4NE1/4SW1/4	5834	n/a	n/a	n/a
4	8/1/75	31N	10W	6	SE1/4	5795	n/a	n/a	n/a
5	9/24/74	31N	10W	8	NW1/4SW1/4NE1/4NW1/4	5790	4.9	n/a	n/a
6	0/0/75	31N	10W	10	NE1/4	6120	n/a	n/a	n/a
7	0/0/75	31 N	10W	14	NE1/4	6280	n/a	n/a	n/a
8	0/0/75	31 N	10W	14	SW1/4	6250	n/a	n/a	n/a
9	9/25/74	31 N	10W	18	NW1/4NW1/4SE1/4NE1/4	5780	15.5	n/a	n/a
10	9/24/74	31N	10W	18	NE1/4SE1/4NE1/4NE1/4	5760	12.4	n/a	n/a
11	6/17/75	31N	10W	24	SW1/4	6500	n/a	n/a	n/a
12	6/0/75	31N	10W	24	SW1/4	6450	n/a	n/a	n/a
13	6/0/75	31N	10W	26	SE1/4	6350	n/a	n/a	n/a
14	9/0/75	31N	10W	27	NW1/4	6180	53	n/a	n/a
15	6/0/75	31N	10W	31	NW1/4	5950	n/a	n/a	n/a
16	9/25/74	31N	11W	24	SW1/4SW1/4SE1/4SE1/4	5700	7.6	n/a	n/a
17	9/25/74	31N	11W	24	SE1/4NW1/4NW1/4SE1/4	5750	7.9	n/a	n/a
18	8/20/59	31N	11W	26	NW1/4	5680	n/a	777	484
19	8/26/75	31N	11W	26	SE1/4	5720	23	n/a	n/a
20	9/25/74	31N	11W	26	SE1/4NE1/4SW1/4SE1/4	5770	n/a	n/a	n/a
21	0/0/75	31N	11W	34	SW1/4	5670	7	n/a	n/a
22	9/26/74	31N	11W	34	SW1/4NW1/4SW1/4NW1/4	5720	77.3	n/a	n/a
23	8/26/75	31N	11W	34	SE1/4SE1/4SW1/4SE1/4	5680	20	n/a	n/a
24	9/25/74	31N	11W	35	SW1/4NW1/4SW1/4NW1/4	5720	8	n/a	n/a
25	6/0/75	31N	9W	31	SE1/4NE1/4	6430	n/a	n/a	n/a
26	2/0/76	31N	9W	28	NW1/4	6180	51	n/a	n/a
27	0/0/75	31N	9W	20	SW1/4	6520	n/a	n/a	n/a
28	0/0/75	31N	9W	20	NE1/4	6260	n/a	n/a	n/a
29	0/0/75	31N	9W	19	n/a	6560	n/a	n/a	n/a
30	0/0/75	31N	9W	17	SW1/4	6490	n/a	n/a	n/a
31	6/0/75	31N	9W	6	NE1/4	6750	n/a	n/a	n/a
32	6/0/75	31N	9W	5	SW1/4	6750	n/a	n/a	n/a
33	n/a	30N	10W	20	SW1/4	6190	91	n/a	n/a
34	n/a	30N	10W	23	NE1/4	6280	n/a	n/a	n/a
35	n/a	30N	10W	23	SE1/4NE1/4NW1/4NE1/4	6219	n/a	n/a	n/a
36	n/a	30N	10W	24	NE1/4	6280	n/a	n/a	n/a

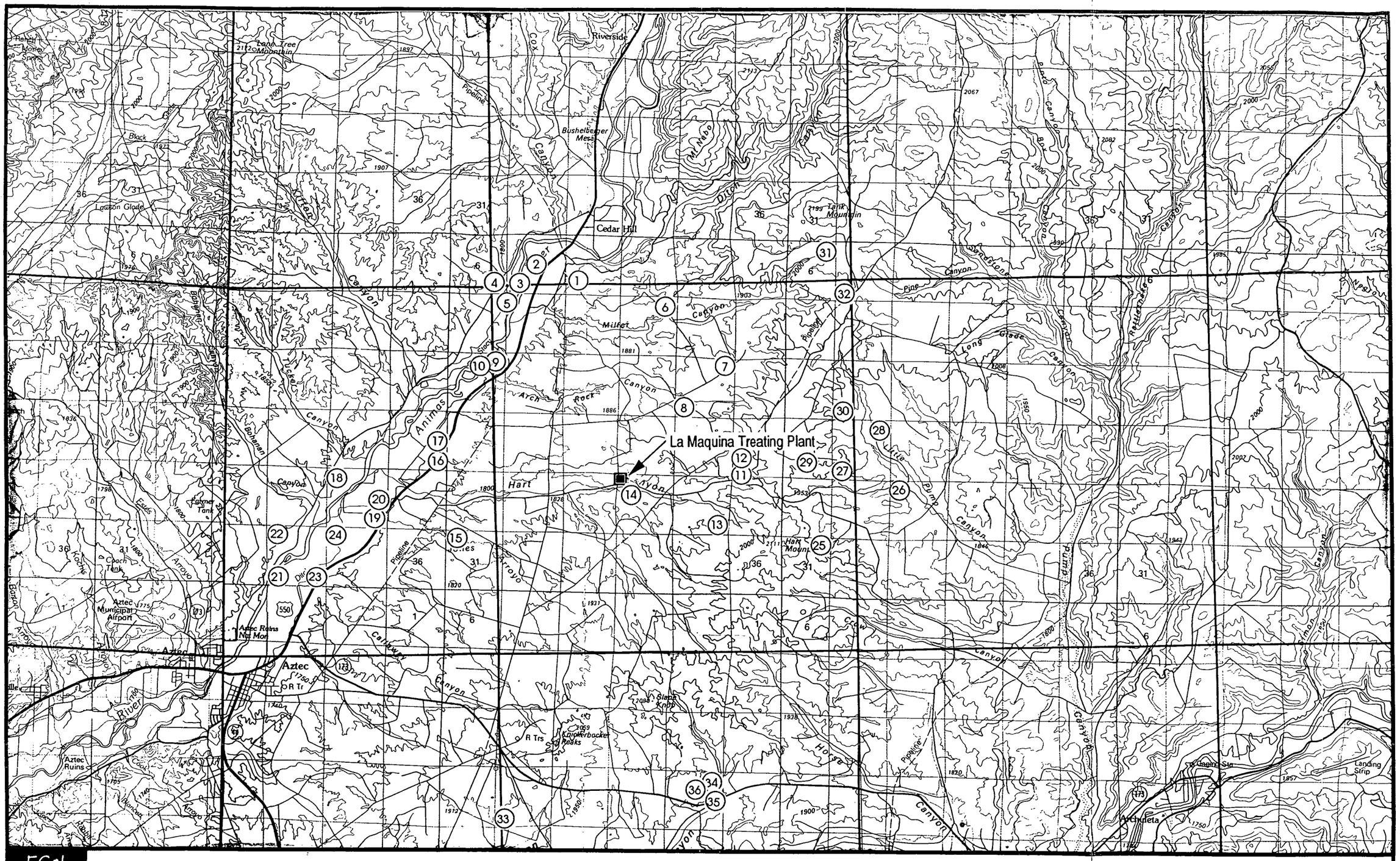

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Figure 4
Map of Nearby Recorded Wells

Location	Latitude-Longitude	Number or name	Depth (feet)	Altitude (feet)	Depth to water (feet)	Date	Producing interval (feet)	Principal water-bearing unit(s)	Specific conductance (umhos at 25 C)	Date	Logs available	Reference	Drawdown (feet)	Discharge (gal/min)	Duration (hours)	Remarks
(33) 30.10.20.3	-	Hartman	-	6,190	91	-	-	Tn	-	-	-	c*	-	-	-	-
(34) 30.10.23.2	-	EPNG Riddle #1	311	6,280	-	-	285-305	Tn	-	-	-	c*	-	20E	-	-
(35) 30.10.23.4212	364748 1075052	EPNG Knickerbocker #1	975	6,219	-	-	246-266 330-484 596-680 832-946	Tn	4,170 8,330	05-29-73 06-18-75	-	c*	-	-	-	-
(36) 30.10.24.2	-	EPNG Florance #1	293	6,280	-	-	-	Tn	-	-	-	c*	-	20	-	-
30.11.04.4124	365025 1075929	Jody Boston	50	5,640	35	09-26-74	-	Qal	890	09-26-74	-	c*	-	-	-	-
30.11.09	-	Clyde Van Dusen	-	-	-	-	-	Qal	4,320 *	07-26-54	-	c*m	-	-	-	-
30.11.09	-	Peach Spring	-	-	-	-	-	-	- *	11-25-33	-	m	-	-	-	-
30.11.10	-	A. W. Moore	32	-	-	-	-	Qal	-	-	-	c*	-	-	-	-
30.11.17.2432	364850 1080026	John Howlett	-	5,622	39.5	09-30-74	-	Qal	1,500	09-30-74	-	-	-	-	-	-
30.11.17.3211	364843 1080102	Coy Stocking	-	5,588	10.1	09-26-74	-	Qal	910	09-26-74	-	-	-	-	-	-
30.11.19.1134	364807 1080220	Kenneth McCament	143	5,575	24.2	09-26-74	-	Tn	1,240	09-26-74	-	c*	-	-	-	-
30.12.04.1414	365038 1080620	Hickman	-	5,856	67.4	10-22-74	-	Tn	-	-	-	-	-	-	-	Windmill; abandoned.
30.12.22	-	Bill Ryan	-	-	-	-	-	-	- *	07-11-56	-	m	-	-	-	-
30.12.22Q	- -	Dorman	50	-	-	07-26-57	-	TKon?	-	-	-	-	-	-	-	Well located "five miles west of Aztec".
30.12.23.4343	364727 1080353	Ernest Tolly	29	5,520	11.8	09-26-74	-	Qal	1,450	09-26-74	-	-	-	-	-	Well in home.
30.12.26.3221	364750 1080304	Emilio Garcia	31	5,538	14.9	09-26-74	-	Qal	-	-	-	-	-	-	-	-
30.12.25.4412	364643 1080236	-	1,895	5,650	-	-	-	Kpc	-	-	-	-	-	-	-	Converted to H_2O.
30.12.27.4221	364658 1080440	Earl Ritter	59	5,590	9.4	09-26-74	-	Qal	-	-	-	-	-	-	-	-
30.12.28.4422	364648 1080538	Jess Deau	22	5,465	7.0	09-26-74	-	Qal	-	-	-	-	-	-	-	SPC of nearby domestic well is 2,100 umhos.
30.12.29.12	364722 1080722	Floyd Gordanier	200	5,640	100	02-22-59	194-200	TKoa	2,250 *	02-21-59	-	m	-	-	-	-
30.12.30.1233	364718 1080830	-	-	5,763	-	-	-	-	-	-	-	-	-	-	-	Converted to H_2O.
30.12.31.34	364550 1080830	E. Evans Spring	-	5,430	-	-	-	TKoa	1,890 *	09-27-46	-	m	-	-	-	In bed of wash.
30.12.32.2331	364614 1080708	McMahon #1, dug well	20	5,410	4.8	03-09-77		Qal	1,180	03-10-77	-	u	7.35 *	450	8.3	-
30.12.32.2333	364612 1080712	McMahon #2, dug well	20	5,410	5	03-09-77	-	Qal	-	-	-	u	-	-	-	-

Table 1--page 114 of 153

Location	Latitude-Longitude	Number or name	Depth (feet)	Altitude (feet)	Depth to water (feet)	Date	Producing interval (feet)	Principal water-bearing unit(s)	Specific conductance (umhos at 25 C)	Date	Logs available	Reference	Drawdown (feet)	Discharge (gal/min)	Duration (hours)	Remarks
31.08.32.344	365052 1074151	EPNG Pump Mesa Water #1	1,992	6,272	-	08-13-75	938-1,650	Tu	14,000 13,000	04-28-75 08-13-75	DLR,DEN	-	-	-	-	-
32 31.09.05.3	-	Last Chance Spring	-	6,750	-	06- -75	-	Tmj	181	06- -75	-	c*	-	-	-	Once supported cave dwellers and homesteaders.
31 31.09.06.2	-	Hidden Spring	-	6,750	-	06- -75	-	Tmj	1,800	06- -75	-	c*	-	-	-	Much alkali precipitation.
31.09.10.3	-	EPNG Schwertfeger #4	462	6,520	-	- -75	198-218, 398-415	Tmj, Tu	-	-	-	c*	-	-	-	Plugged and abandoned.
30 31.09.17.3	-	EPNG Riddle #1-D	550	6,490	-	- -75	212-252	Tmj, Tu	-	-	-	c*	-	6	-	Plugged and abandoned.
29 31.09.19	-	EPNG Barrett #1	519	6,560E	-	- -75	220-275	Tmj, Tu	-	-	-	c*	-	20	-	Plugged and abandoned.
28 31.09.20.2	-	EPNG Barrett #2	202	6,260	-	- -75	140-170	Tmj, Tu	-	-	-	c*	-	20	-	Plugged and abandoned.
27 31.09.20.3	-	EPNG Riddle #2-C	510	6,520	-	- -75	355-505	Tu	-	-	-	c*	-	30	-	-
31.09.27.3	-	EPNG Schwertfeger #1	120	6,080	-	- -75	75-100	Tmj	-	-	-	c*	-	40	-	-
31.09.27.4	-	EPNG Schwertfeger #2	118	6,080	-	- -75	84-118	Tmj	-	-	-	c*	-	20	-	-
26 31.09.28.1	-	Little Pump	100	6,180	51	02- -76	-	Qal,Tmj	1,205	02- -76	-	c*	-	-	-	Unused.
25 31.09.31.42	365112 1074851	Cottonwood Spring	-	6,430	-	06- -75	-	Tmj	450	06- -75	-	c*	-	-	-	Occurs in Alamo Canyon.
1 31.10.04.2133	365550 1075307	Albert Karlan, dug well	-	5,760	14.0	09-24-74	-	Qal	780	09-24-74	-	c*	-	-	-	-
2 31.10.0	-	Pan Amer Petro	27 D	5,810	-	-	-	Qal	-	04-30-59	-	c*,m	-	-	-	Cased to 27 feet; TDS = 1,104 mg/L (4-59).
3 31.10.05.2423	365547 1075352	J. Mallor, dug well	-	5,834	-	09-24-74	-	Qal	1,100	09-24-74	-	c*	-	-	-	-
4 31.10.06.4	-	J. Mallor	30	5,795	-	08- -75?	-	Qal	1,196 820	08- -75 11-05-75	-	c*	-	-	-	Sulfur smell; iron stain.
5 31.10.08.1321	365457 1075440	O. V. Smith, dug well	-	5,790	4.9	09-24-74	-	Qal	760	09-24-74	-	c*	-	-	-	-
6 31.10.10.2	-	EPNG Lucerne #1	455	6,120	-	- -75	76-96, 289-336	Tu	-	-	-	c*	-	25	-	-
7 31.10.14.2	-	Garrison Spring	-	6,280	-	- -75	-	Tu(?)	450	06-19-75	-	c*	-	-	-	Once supported a homestead.
8 31.10.14.3	-	EPNG Kelly	555	6,250	-	- -75	527-555	Tu	-	-	-	c*	-	-	-	Plugged and abandoned.

	Location	Latitude-Longitude	Number or name	Depth (feet)	Altitude (feet)	Depth to water (feet)	Date	Producing interval (feet)	Principal water-bearing unit(s)	Specific conductance (umhos at 25 C)	Date	Logs available	Reference	Drawdown (feet)	Discharge (gal/min)	Duration (hours)	Remarks
9	31.10.18.1142	365412 1075540	Gene Flaherty	28	5,780	15.5	09-25-74	-	Qal	800 780	09-25-74 09-06-75	-	c*	-	-	-	Drilled into flowing spring.
10	31.10.18.2422	365404 1075453	Pat Ryan	23	5,760	12.4	09-24-74	-	Qal	-	-	-	-	-	-	-	Smells of gas; abandoned; unfit for human consumption.
11	31.10.24.3	-	Arch Rock Spring	-	6,500	-	06-17-75	-	Tsl	390	06-17-75	-	c*	-	-	-	-
12	31.10.25.3	-	Hart Spring #1	-	6,450	-	06- -75	-	Tsl	295	06-17-75	-	c*	-	-	-	Developed.
13	31.10.26.4	-	Hart Spring #2	-	6,350E	-	06- -75	-	Tsl	700	06-17-75	-	-	-	-	-	-
14	31.10.27.1	-	Slane Canyon	-	6,180	53	09- -75	-	Tn	-	-	-	c*	-	-	-	-
15	31.10.31.1	-	Thurston Spring	-	5,950	-	06- -75	-	Tn	2,900	06-17-75	-	c*	-	-	-	In Jones Arroyo.
16	31.11.24.3344	365237 1075645	I. L. Randalman	173	5,700	7.6	09-25-74	-	Tn	-	-	-	c*	-	-	-	Unfit for human consumption; reported sulfur; unused.
17	31.11.24.4114	365259 1075623	Marvin Bishop, dug well	40	5,750	7.9	09-25-74	-	Qal	780 650	09-24-74 08- -75	-	c*	-	-	-	Water softener used.
18	31.11.26.1	-	F. Randalman	57	5,680	-	08-20-59	-	Qal	777 *	08-20-59	-	c*	-	-	-	-
19	31.11.26.4	-	A. Hill	39	5,720	23	08-26-75	-	Qal	950	08-26-75	-	c*	-	-	-	-
20	31.11.26.4234	365158 1075711	Larry Long	70	5,770	-	09-25-74	-	Qal	1,120	09-25-74	-	c*	-	-	-	Slaughter house.
21	31.11.34.3	-	G. Foster	60	5,670	7	- -75	-	Qal	828 610	- -75 08-24-75	-	c*	-	-	-	Dug 20 feet; drilled 40 feet; not potable since drilling.
22	31.11.34.3131	365110 1075909	Raymon Pettijohn	95	5,720	77.3	09-26-74	-	Tn,	2,240	09-26-74	-	c*	-	-	-	Water softener used.
23	31.11.34.4434	365057 1075820	L. Likes	47	5,680	20	08-26-75	-	Qal	1,380 1,320	08-26-75 11-05-75	-	-	-	-	-	-
24	31.11.35.3131	365110 1075805	Glen Saline	-	5,720	8	09-25-74	-	Tn	1,575	09-25-74	-	c*	-	-	-	-
	31.12.01.1211	365600 1080300	-	-	6,284	51.3	10-22-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.10.3442	365426 1080500	-	-	6,137	57.5	10-22-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.20.2	-	Govt. 120, Ohio Oil	5,034	5,900E	-	07-08-57	4,805-5,034 ✓	Kpl	7,690	07-08-57 ✓	-	-	-	-	-	-
	31.12.21.2331	365308 1080603	-	-	6,072	101.8	10-23-74	-	Tn	-	-	-	-	-	-	-	Unused.
	31.12.25.2222	365238 1080228	-	-	5,940	79.4	10-22-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.29.3214	365208 1080725	-	-	5,970	98.1	10-23-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.31.342	365106 1080817	-	110 E	5,900E	94	10-03-74	-	Tn	-	-	-	-	-	-	-	-

Lovington Field

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR NATURAL GAS PROCESSING PLANTS, OIL REFINERIES AND GAS COMPRESSOR STATIONS

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

I. TYPE: Natural gas treating plant

II. OPERATOR: Williams Field Services, Inc.

ADDRESS: P.O. Box 58900, Salt Lake City, Utah 84158-0900

CONTACT PERSON: H. Lee Bauerle PHONE: (801)584-6999

III. LOCATION: NW1/4 NW1/4 NE1/4 NE1/4 Section 27 28 Township 31N 31N Range 10W 10W
Submit large scale topographic map showing exact location.

IV. Attach the name and address of the landowner(s) of the disposal facility site.

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

VI. Attach a description of sources, quantities and quality of effluent and waste solids.

VII. Attach a description of current liquid and solid waste transfer and storage procedures.

VIII. Attach a description of current liquid and solid waste disposal procedures.

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

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

XI. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. Depth to and quality of ground water must be included.

XII. Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

XIII. CERTIFICATION

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

Name: H. Lee Bauerle Title: Environmental Specialist

Signature: H Bauerle Date: 6-13-94

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

ESI

ENVIRONMENTAL
•SERVICES, INC•

July 25, 1994

Mr. Chris Eustice
Oil Conservation Division
Energy, Minerals, and Natural Resources Department
State of New Mexico
301 Old Santa Fe Trail
State Land Office Building, Room #215
Santa Fe, New Mexico 87501

Dear Mr. Eustice

On behalf of Williams Field Services, Environmental Services, Inc. (ESI) is submitting a copy of a discharge plan application for the proposed La Maquina Treating Plant. The plan has been prepared in accordance with the "Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants, Oil Refineries, and Gas Compressor Stations (revised 5-92) and with the Water Quality Control Commission (WQCC) Regulations 3-104 and 3-106. We are also submitting an application for exception to Division Order R-8952 for protection of migratory birds.

We are enclosing a total of $50.00 in filing fees, as specified in WQCC 3-114. Please advise H. Lee Bauerle, Williams Field Service, or myself of any required changes or additions to the discharge plan.

Sincerely

Robin

Robin K. DeLapp
Senior Environmental Technician

5971 Jefferson NE
• Suite 104 •
• Albuquerque •
New Mexico 87109
505 345 3900

ESOI

ENVIRONMENTAL
•SERVICES, INC•

July 25, 1994

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Sincerely

Robin

Robin K. DeLapp
Senior Environmental Technician

5971 Jefferson NE
• Suite 104 •
• Albuquerque •
New Mexico 87109
505 • 345 • 3900

Submit 4 Copies
to Appropriate
District Office

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-134
Aug. 1, 1989

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Permit No. _____
(For Division Use Only)

APPLICATION FOR EXCEPTION TO DIVISION ORDER R-8952
FOR PROTECTION OF MIGRATORY BIRDS Rule 8(b), Rule 105(b), Rule 312(h), Rule 313, or Rule711(I)

Operator Name: WILLIAMS FIELD SERVICES COMPANY

Operator Address: P.O. BOX 58900, SALT LAKE CITY, UTAH 84158-0900

Lease or Facility Name LA MAQUINA TREATING PLANT Location _____ 27 & 28 31N 10W
Ut. Ltr. Sec. Twp. Rge

Size of pit or tank: 50 FEET IN DIAMETER

Operator requests exception from the requirement to screen, net or cover the pit or tank at the above-described facility.

X The pit or tank is not hazardous to migratory waterfowl. Describe completely the reason pit is non-hazardous.
THE WATER IN THIS EVAPORATION POND IS EXPECTED TO BE STORM WATER FROM THE PLANT AREA.

1) If any oil or hydrocarbons should reach this facility give method and time required for removal:
IF NECESSARY, WATER FROM THE POND WILL BE TRUCKED IMMEDIATELY FROM THE POND FOR DISPOSAL AT AN OCD-APPROVED FACILITY.

2) If any oil or hydrocarbons reach the above-described facility the operator is required to notify the appropriate District Office of the OCD with 24 hours.

_____ Operator proposes the following alternate protective measures: _____

CERTIFICATION BY OPERATOR: I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature H. Bauerle Title ENVIRONMENTAL SPECIALIST Date 7-22-94

Printed Name H. LEE BAUERLE Telephone No. 801-584-6999

FOR OIL CONSERVATION DIVISION USE

Date Facility Inspected _____ Approved by _____

Inspected by _____ Title _____

Date _____

GW-169

Discharge Plan Application for La Maquina Treating Plant

prepared for

Williams Field Services Company
P.O. Box 58900
Salt Lake City, Utah 84158-0900

ESI
ENVIRONMENTAL
•SERVICES, INC•

5971 Jefferson NE
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505•345•3900

Discharge Plan Application for La Maquina Treating Plant

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List of Contents

List of Appendices

Appendix 1	maps, figures
Appendix 2	Williams Field Services: O & M Procedures: Preventing, Controlling, and Reporting of Discharges or Spills of Oil or Hazardous Substances
Appendix 3	available information on wells in the area

Williams Field Services Company

La Maquina Treating Plant Discharge Plan Application

This Discharge Plan has been prepared in accordance with Oil Conservation Division "Guidelines for the Preparation of Ground Water Discharge Plans at Natural Gas Processing Plants, Oil Refineries, and Gas Compressor Stations (revised 05-92)" and the New Mexico Water Quality Control Commission regulations 3-104 and 3-106.

1 General Information

Type of Operation

Williams Field Services Company (WFS) proposes to construct La Maquina natural gas treating plant for the removal of CO_2 from gas gathered in WFS's Manzanares Gas Gathering System. Anticipated date of the start of operation is January 15, 1995. This facility will initially consist of two identical treating trains and supporting auxiliary equipment including dehydrators and power generating equipment. A third treating train and reboiler may be added at a later time. This facility will utilize methanediethanolamine (MDEA), an amine-based solvent, to remove the CO_2 from the gas and triethylene glycol (TEG), to dehydrate the gas. In addition, antifreeze/coolant (ethylene glycol) and industrial lubricant (Mobil Pegagus 485) is expected to be used at the facility.

All spills, leaks, and discharges from this site will be handled in accordance with OCD regulations, customary practices, and common sense.

Operator/Legally Responsible Party

Williams Field Services Company
P.O. Box 58900
Salt Lake City, Utah 84158-0900
Attention: H. Lee Bauerle,
Environmental Specialist
(801) 584-6999

Location of Discharge/Facility

Sections 27 and 28, Township 31 North, Range 10 West
San Juan County, New Mexico
UTM Zone 13; 243.500kmE, 4084.600kmN

Landowner

The landowner of record of the facility site is the United States Department of the Interior, Bureau of Land Management (BLM).

Facility Description

The major equipment WFS proposes to install at the facility includes:

- Amine Contactors
- Amine Process Skids
- Amine Regeneration Skids
- Amine Regeneration Hot Oil Heaters
- Air Coolers
- Glycol Dehydration Contactors
- Glycol Regeneration Heaters
- Evaporation Pond
- Five Storage Tanks: 1 demineralized makeup water, 1 TEG (glycol), 1 slop, 1 dirty water, and 1 MDEA (amine).
- Electrical generators powered by six Caterpillar 3516 low-emission reciprocating engines.
- Instrumentation
- Electric Motor Control Center

These components of the site are discussed separately in Section 2 of this application. A site plan is attached which shows the facility/property boundaries and fences, pits, berms, and tank locations (figure 2). The rough grading and excavation plan for the facility is also included (figure 3).

2 Plant Processes

Effluent Sources, Quantities, and Quality of Effluent and Waste Solids

Sump. A below-grade sump shall be installed on the facility in a double-lined steel tank. The sump shall be tied to the slop tank. The sump shall collect emergency spillage or leakage from the two lined earthen berms where the storage tanks are located. In the event of a spill or leak in the earthen berms, TEG, MDEA, slop, and dirty water would be potential waste collecting in the sump. The sump shall also collect waste from

washdown and engine cooling activities and from the floor drains in the process area via a drainage system.

All waste from the sump shall be pumped to the slop storage tank until removed by an Environmental Protection Agency (EPA) registered waste remover and taken to an OCD-authorized facility. The slop storage tank will be discussed later.

Separators. Inlet filter separators shall filter gas prior to processing. Separators shall be connected to each of the two treating trains. Very little or no process waste shall come from the separators. There is a potential, though, that the waste from the inlet filter separator could contain high Total Dissolved Solids (TDS) water and traces of lube oil and hydrocarbons.

Any waste from the inlet filter separators shall go to the slop storage tank until removed by an Environmental Protection Agency (EPA) registered waste remover and taken to an OCD-authorized facility. The slop storage tank will be discussed later.

Boilers. Three hot oil reboilers are proposed at the facility. The reboilers recirculate hot oil and are not expected to produce any process waste materials.

Glycol Regeneration Heater. Three glycol regeneration heaters (dehydrators) are proposed at the facility to remove water vapor from the gas. The amount of process waste materials from the glycol regeneration heaters is expected to be approximately 9,500 pounds of water per day. This waste is expected to contain distilled water and traces of TEG. The waste from the dehydrators will be steam vented into the atmosphere.

where does H2O go? air

Engine Cooling Waters. Any engine cooling waters used in the process area would be disposed through the facility drainage system and into the sump. From the sump, the cooling waters shall be pumped into the slop storage tank.

Cooling Tower. There are no proposed cooling towers at the facility.

Sewage. A septic system for non-hazardous sewage waste will be designed and installed in accordance with local and state regulations and codes. The septic system will be connected to the MCC building/control room which has two restrooms. Sewage effluent will be completely separate from other effluents with no commingling.

Waste Lubrication and Motor Oils. Waste lubrication and motor oils are expected to be generated by the electric generation equipment. The quantity of used lube oil is expected to be variable. The used lube oil will be collected in a separate oil drain and storage system and trucked from the site by Conoco, the lube oil supplier and an EPA-registered used oil marketer/recycler.

New lube oil will be stored in containers provided by Conoco, the lube oil supplier. A separate concrete containment area with curb walls and a connection to the drain system will be installed in this storage area.

Waste and Slop Oil. Waste and slop oils will be stored in the slop storage tank. The slop storage tank will be installed remote from the process and will be located in a lined earthen berm with sufficient freeboard to prevent overflow. The slop storage tank is discussed in greater detail below.

Used Filters. The quantity of process filters expected to be generated from the facility will vary. Waste from the process filters is expected to include lube oil, TEG, MDEA, and hydrocarbons. The process filters will be stored on the containment slabs prior to being removed by truck to an OCD-authorized facility.

Solids and Sludges. Sludge may periodically collect in the sump and in the evaporation pond. Both shall be visually inspected at annual scheduled intervals for accumulation of solids or sludges. Any such accumulations will be removed by an OCD-authorized waste remover.

Cleaning Operations Using Solvents/Degreasers. It is not expected that solvents or degreasers shall be used in any major cleaning operations at the facility.

Truck, Tank, and Drum Washing. Washdown water is expected to be generated intermittently. The washdown water is expected to contain water, soap, traces of motor oil, TEG, and MDEA. The water will enter the sump via a drain system in a slab containment area. The washdown water will be pumped to the slop storage tank. The slop storage tank is discussed below.

Other Liquid and Solid Wastes. To the extent practical, all process equipment will be placed on concrete slabs with 6-inch curbs for containment and a floor drain system. Floor drains in the generator building shall use the same drainage system.

All process piping is expected to be above-ground and located in pipe racks. In no event will any above-ground piping be closer than 9-inches to the ground. The piping will be inspected at annual scheduled intervals by operating personnel to determine whether there are any leaks.

Paper and other solid waste will be removed from the site by a contract trash hauler.

Tanks. Five storage tanks shall be installed at the facility: one demineralized makeup water tank, one TEG (glycol) tank, one MDEA (amine) tank, one slop tank, and one dirty water tank. All storage tanks will be above-grade and will be installed with spill containment and leak detection equipment complying with the provisions of OCD. An alarm system including high level detection alarms will be installed on all storage tanks to prevent accidental overfilling of the tanks. This alarm system will notify the operator of any process operating conditions which are not normal.

These five tanks shall be installed in two areas on the facility (see figure 2). Each tank is discussed in greater detail below:

Area 1. The demineralized makeup water tank (TK-101 on figure 2), the glycol (TEG) tank, (TK-201) the amine (MDEA) tank (TK-305), and the dirty water tank (TK-304) shall be located remote from the process area and shall be installed in a lined earthen dike with sufficient freeboard to prevent overflow.

The makeup water tank is a standard atmospheric tank which has a fixed roof. The tank has a capacity of 400 barrels. The annual throughput is expected to be 1.825 million gallons per year with approximately 206 turnovers per year.

The TEG tank is a standard atmospheric tank with a fixed roof type. This tank has a capacity of 210 barrels and will measure 10 feet in diameter with 5 feet of vapor space. The annual throughput for this tank is expected to be 100,000 gallons per year with approximately 11 turnovers per year.

The MDEA tank is a standard atmospheric tank with a fixed roof type. This tank has a capacity of 210 barrels and will measure 10 feet in diameter with 5 feet vapor space. The annual throughput for this tank is expected to be 15,000 gallons per year with approximately two turnovers per year.

The dirty water tank is expected to be a 210-barrel, standard atmospheric tank and will

measure 10 feet in diameter with 5 feet of vapor space. The annual throughput is expected to be 100,000 gallons per year with an expected 11 turnovers per year.

Area 2. The slop storage tank shall be located remote from the process area and installed in lined earthen berm with sufficient freeboard to prevent overflow.

The slop tank (TK-303 on figure 2)is expected to be a 210-barrel, standard atmospheric tank which will measure 10 feet in diameter with 5 feet vapor space. The annual throughput is expected to be 45,000 gallons per year with an expected five turnovers per year.

Quality Characteristics

La Maquina Treating Plant does not expect to be fully operational until January 15,1995 so analyses of expected waste from sources described above is not available at this time. The table below lists the expected waste materials, sources of the waste, expected quantities, and the planned disposition of the process waste materials.

Source	Disposition	Quantity	Waste Description
Glycol Regeneration	Steam vent to atmosphere	9,500 lbs/day	Distilled water, trace TEG
Inlet filter separator	Slop storage tank	Variable, typically none	High TSD water and traces of lube oil and hydrocarbons
Washdown water	Slop storage tank	Intermittent	Water, soap, traces motor oil, TEG, MDEA
Process filters	Containment area storage for truck removal	Variable	Lube oil, TEG, amine, and hydrocarbons
Electric generation driver lube oil	Storage containers from lube oil supplier for truck removal	Variable	Lube oil
Sump	Slop storage tank	Variable	Water, TEG, MDEA

Commingled Waste Streams

There is no anticipated commingling of waste streams.

3 Transfer and Storage of Process Fluids and Effluents

Information about on-site collection and storage systems for each source was presented earlier. In summary, fluids and effluents will be stored in five tanks on the facility. These tanks shall be located in two lined earthen berms with sufficient freeboard to

prevent overflow.

Floor drains in the containment slabs of the process area and generator building will be connected to a drainage system. Fluids entering the on-site drainage system will go into the sump. The sump will be installed in its own double-lined steel tank. Water shall be pumped to the slop storage tank.

The amine drain system shall not be connected to individual pieces of equipment but will have access points throughout the process area. Operators shall make the connections between the equipment and the drainage system. The amine drainage system shall be equipped with a pump which will have a high level leak detection alarm.

Approximately 9,500 pounds per day of water vapor from gas is expected to be removed by the dehydration equipment. This water vapor will be vented to the atmosphere from the glycol regenerator.

Tanks on the facility shall be atmospheric and not pressurized. Separators and pipelines will be pressurized with pressure varying between 5 to 1000 pounds.

To prevent both unintentional and inadvertent discharges from reaching the ground surface and polluting surface or ground water all storage tanks for fluids other than fresh water will be bermed with sufficient freeboard to prevent overflow. No tanks are expected to be interconnected. Chemical and drum storage areas will be paved, curbed and drained such that spills or leaks will be contained on the pads or drained. All above-ground tanks shall be installed on gravel pads so that leaks can be identified.

A sump will be installed in it own double lined steel tank. This sump shall pump water and waste into the slop storage tank. The sump will be visually inspected annually for accumulation of solids or sludges. Any such accumulations will be removed by an OCD-authorized waste remover.

It is expected that the facility will have underground pipelines for the drainage system and for the septic system. These underground wastewater pipelines will be installed at the time of the facility construction. When these pipelines are 25 years old, they will be tested to demonstrate their mechanical integrity.

4 Effluent Disposal

All effluent disposal from the facility will be handled in accordance with OCD regulations. The effluent will be removed from the facility by an OCD-approved licensed waste remover or recycler.

There shall be one area of surface impoundment for storm water on the facility. A 50-foot diameter, double lined, evaporation pond shall be located remote from the process area in the southwest corner of the facility. The evaporation pond will be installed in accordance with the OCD regulations.

The pond will be double lined with a leak detection system. An electronic sensor installed between the two liners in the bottom of the pond will sound a plant alarm in the control room when any liquids accumulate between the liners. A low point pumpout connection shall be installed between the liners of the pond. If necessary, water from the pond may be trucked from the site for disposal at an OCD-approved facility.

There will be a septic system on the facility that will be designed and installed in accordance with applicable local and state regulations. Installation of the septic system will be by an authorized company from the area. The leach field and septic tank will be located east of the office building. The septic system will serve the MCC building and will not receive non-sewage or mixed flow from any process units or internal drains.

No injection wells, drying beds, or other pits are expected to be constructed on the facility. No other on-site disposal, other than the methods already described are expected on the facility.

All storage tanks will be above grade and will be installed with spill containment and leak detection facilities complying with the provisions of the BLM and the OCD. An alarm system will include alarms for high levels detected on all the storage tanks to prevent accidental overfilling of the tanks. This alarm system will also notify the operator of any process operating conditions which are not normal.

WFS personnel will be at the facility 8 hours per day, 5 days per week. WFS personnel will also be monitoring plant operations from its Milagro operations 24 hours per day, 365 days per year. The plant operators will monitor and control the operation of the facility and will make routine visual inspections of the plant equipment. The alarm system will also notify the operator of any process operating conditions which are not

normal and will assist in detecting failures of the discharge system. WFS personnel will routinely monitor fluid volumes and test the integrity of the storage tanks for early leak detection.

The project life of this facility is estimated to be 30 years. If operation of this facility does discontinue during the period that this discharge plan is in effect, WFS will develop an abandonment plan in accordance with appropriate agencies. This plan will likely include the removal of all above-ground facilities to be salvaged for use elsewhere. Unsalveagle materials will be disposed of at authorized disposal sites. The plan will include, but not be limited to regrading and revegetation of this facility and post-operational monitoring to prevent ground water contamination after cessation of operation.

Off-site disposal of process waste including slop oil, dirty water, used lube oil, and process filters will be by truck by an OCD-approved licensed shipping agent and removed to an OCD-approved facility.

5 Inspection, Maintenance, and Reporting

The site will be inspected daily by WFS personnel. Leaks, spills, and drips will be handled in accordance with OCD rule 116 as follows:

- Small spills will be absorbed with soil and shoveled into drums for off-site disposal by an OCD-approved disposal contractor.

- Large spills will be contained with temporary berms. Free liquids will be pumped into drums. Contaminated soil will be shoveled into drums for off-site disposal by an OCD-approved disposal contractor.

- Verbal and written notification of leaks or spills will be made to OCD in accordance with rule 116.

- All areas that have been identified during operation as susceptible to leaks or spills will be paved, bermed, or otherwise contained to prevent the discharge of any effluents.

Spill containment and leak detection equipment will be installed and operated in accordance with requirements of OCD. The storage tanks will be installed in lined containment area with earthen dikes sufficient to retain all spills on-site.

Storm water from the facility will be retained on site in the evaporation pond located on the southern, downslope portion of the facility. All storm water will be retained in a double lined evaporation pond. Storm water will be allowed to evaporate from the pond. Liquids may also be removed by truck if necessary. Surface erosion on the facility will be controlled with a series of water bars placed over the facility if necessary.

6 Spill/Leak Prevention and Reporting (Contingency Plans)

Williams Field Services has an in-house spill control procedures document in effect at its facilities (appendix 2) that establishes policy and procedures for preventing, controlling, and reporting spills or discharges of oil or hazardous substances into the environment . This policy was developed in accordance with federal, state, and local requirements.

Effect of Discharge Plan on Wildlife Species

Prior to the commencement of construction of the proposed facility, WFS will contract a certified biologist to conduct a Threatened and Endangered Species survey. Also, WFS understands that as part of the public review process, the United States Department of Interior, Fish and Wildlife Services (USFW) will prepare a list of federally listed and candidate species that may be in the project area.

WFS will not unnecessarily disturb or destroy wetlands, riparian vegetation, and any identified threatened or endangered species' sensitive habitat on or near the site during construction or operation of the facility. If adverse impacts cannot be avoided, WFS will notify the USFW so that the adverse impacts can be discussed in greater detail. WFS will inform on-site employees of any threatened or endangered species and habitat on or near the site to increase individual awareness of these issues.

WFS is submitting a form C-134 Application for Exception to Division Order R-8952, regarding the protection of migratory birds, to OCD. It is not expected that the evaporation pond at the facility will be hazardous to migratory waterfowl since only storm water is expected to collect in the pond.

7 Site Characteristics

The proposed location of the La Maquina Treating Plant is in Sections 27 and 28, Township 31 North, Range 10 West, in San Juan County. The facility is approximately 12 kilometers northeast of Aztec, New Mexico and approximately 10 kilometers south of the Colorado-New Mexico border. The site is rural in nature. It is located in irregular terrain at an elevation of approximately 6120 to 6160 feet above mean sea level (MSL).

The site is indicated on the attached Cedar Hill and Aztec 7.5 minute topographic maps.

Hydrologic Features

The facility is located approximately 20 feet in elevation above the Hart Canyon drainage, a small intermittent stream and the nearest watercourse. This drainage flows into the Animas River located approximately 7 kilometers west of the facility.

The elevation of the intermittent stream closest to the facility is approximately 6090 feet above MSL. The elevation of the facility is between 6120 and 6160 feet MSL. It is, therefore, estimated that the facility is approximately 30 to 70 feet above the local water table. The closest recorded well (Well Number 14 in appendix 3) with depth to water information is located in the same township, range, and section as the facility. The depth to water at this well is 53 feet. The Aquifer Sensitivity Map for San Juan County, New Mexico which was compiled by Lee Wilson and Associates, Inc. for the New Mexico Environment Department in 1989 locates the facility as within a high aquifer sensitivity zone. This zone is defined as a location in which the depth to ground water is less than 100 feet and the ground water contains 2000 mg/l or less Total Dissolved Solids.

Water supplied to the facility will be provided by a pipeline from the local water company. There will be no water wells at the facility.

Records and well information from "Hydrogeology and Water Resources of San Juan Basin, New Mexico", by W.J. Stone, et. al., NMIMT 1983 were searched for locations of wells within five miles around the facility. Thirty-six wells were recorded within this 5-mile radius around the facility. Appendix 3 includes information on these 36 wells and figure 4 (also in appendix 3) shows the relationship of these wells to the facility. This appears to be the only available information on the Total Dissolved Solids concentration of local water.

The only available Total Dissolved Solid information on area wells is for Well Number 18 located in T31N, R11W in Section 26 approximately 7 kilometers west of the facility. Total Dissolved Solids for this well measures 484 mg/l.

It is suspected that the general flow direction of the ground water would be to the west/southwest following the flow of the Hart Canyon drainage and the Animas River.

Geologic Description of Discharge Site

According to the "Soil Survey of San Juan County, New Mexico, Eastern Part", issued 1980 by the United States Department of Agricultural, Soil Conservation Service, soils in the proposed facility area are part of the Blancot-Fruitland Association. Blancot and Fruitland soils are deep and well drained. These soils are formed in alluvium derived from sandstone and shale. This unit is 45 percent Blancot loam and 25 percent Fruitland sandy loam.

The proposed La Maquina Treating Plant is located within the San Jose Formation. The youngest of the Tertiary bedrock units in the San Juan Basin, the San Jose Formation is characterized by a sequence of interbedded alluvial sandstones and mudstones. The San Jose Formation is approximately less than 200 to 2,700 ft in thickness.

According to "Hydrogeology and Water Resources of San Juan Basin, New Mexico", by W.J. Stone, et. al., NMIMT 1983, the aquifers in the San Jose Formation are largely untested. Although only a few tests have been made, Baltz and West ("Ground water Resources of the Southern Part of the Jicarilla Apache Indian Reservation and Adjacent Areas, New Mexico: U.S. Geological Survey, Water Supply Paper 1576-H, p. 65) conclude that a well open to all sandstone in the formation might yield 1,440 gallons per minute. The San Jose Formation provides water to numerous wells and springs in the area. The specific conductance of water from wells and springs in the area averages about 2,000 μmhos.

According to the "Soil Survey of San Juan County, New Mexico, Eastern Part", issued 1980 by the United States Department of Agricultural, Soil Conservation Service,the Blancot-Fruitland Association soils in the hydrologic group B. Soils in this group have a moderate infiltration rate when thoroughly wet and have a moderate rate of water transmission. Typically, flooding is not probable in this soil type. Typical depth to the high water table is greater than 6 feet and depth to bedrock is greater than 60 feet.

Affirmation

I hereby certify that I am familiar with the information contained in and submitted with this discharge plan for the proposed La Maquina Treating Plant and that such information is true, accurate, and complete to the best of my knowledge and belief.

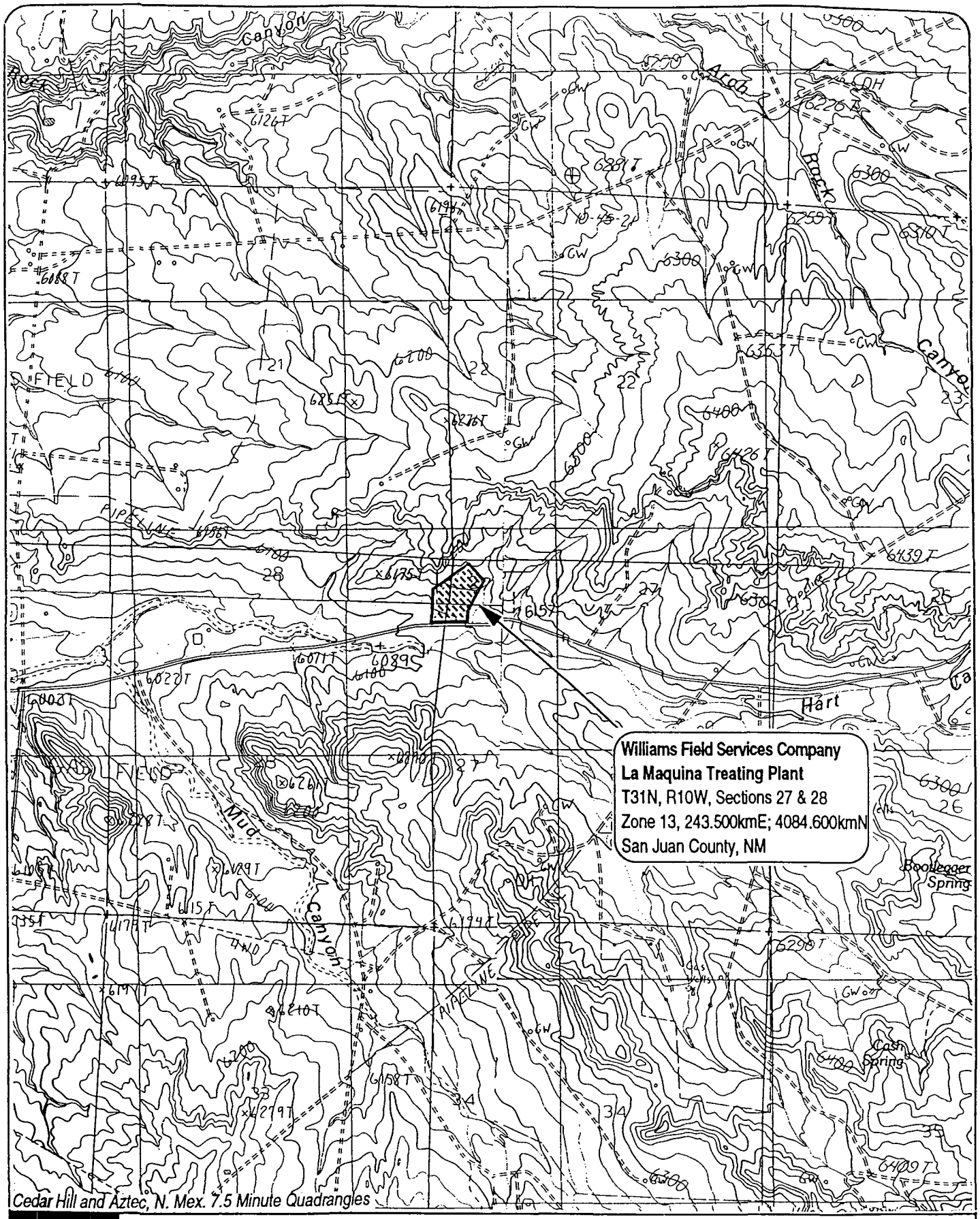
H J Bauerle

Signature

7-22-94

Date

H. Lee Bauerle
Environmental Specialist
Williams Field Services Company



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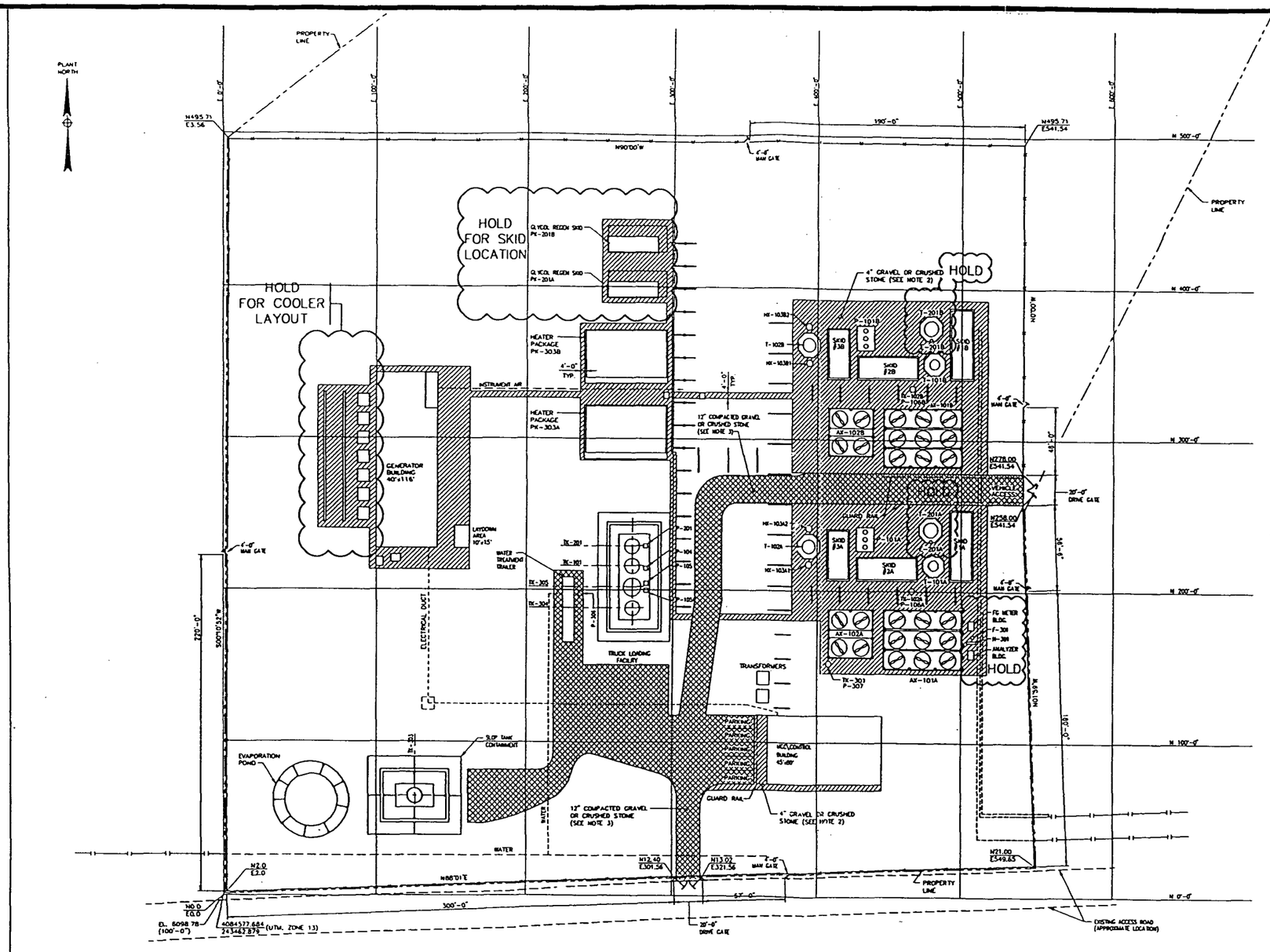
0 1000 2000 3000 ft

0 300 600 900 m

Figure 1
Location of Facility



GENERAL NOTES:

1. PLANT GRID SYSTEM IS ESTABLISHED BY COORDINATE (0,0) MEASURED 1'-0" WEST AND 1'-0" SOUTH OF SW PROPERTY CORNER.
2. GRAVEL OR CRUSHED STONE SHALL CONFORM TO NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 1984 SECTION 304, CLASS B-B. SPREAD GRAVEL OR CRUSHED STONE AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D-698.
3. GRAVEL OR CRUSHED STONE SHALL CONFORM TO NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 1984 SECTION 304, CLASS I-B. SPREAD GRAVEL OR CRUSHED STONE IN 6" LIFTS AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D-1557.
4. REFER TO DWG. 21-00-003 FOR SECTIONS AND DETAILS.
5. ELEV. 100'-0" EQUALS BENCHMARK ELEVATION 6098.78 ABOVE MEAN SEA LEVEL.

JUN 08 1994

THIS DRAWING HAS NOT BEEN PUBLISHED BUT IS/HAS BEEN PREPARED BY BATEMAN ENGINEERING INC. FOR USE BY THE CLIENT NAMED IN THE TITLE BLOCK SOLELY IN CONNECT. OF THE CONSTRUCTION, OPERATION AND MAINTENANCE OF THE FACILITY NAMED IN THE TITLE BLOCK AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OR FURNISHED TO ANY OTHER PARTY WITHOUT THE EXPRESS CONSENT OF BATEMAN ENGINEERING INC.

REFERENCE DRAWINGS	NO	REVISIONS	DATE	BY	CHKD	APVD
	A	ISSUE FOR APPROVAL				

PRINT ISSUE RECORD

	DATE	FOR	REVISED	CUSTOMER	FIELD	INTRA.CO

DRAWING STATUS	DATE
PRELIMINARY	
FOR COMMENTS AND OR APPROVAL	
APPROVED FOR CONSTRUCTION	
REVISED AND REAPPROVED FOR CONSTRUCTION △	

	BY	DATE
DRAWN	DAP	1/28/94
CHECKED		
MECH.		
STRUCT.		
ELECT.		
PIPING		
INSTR.		
CIVIL		
PROCESS		
PROJECT		

PREPARED FOR
WILLIAMS FIELD SERVICES COMPANY
LA MAQUINA GAS TREATING PLANT
SAN JUAN COUNTY, NEW MEXICO

BATEMAN
BATEMAN ENGINEERING INC.

NIELSON

TITLE
CIVIL
FENCE/SITE PLAN

CLIENT APPROVAL		SHEET 1 OF 1	REVISION
PROJECT NUMBER 7098	SCALE 1"=30'-0"	DRAWING NUMBER 21-00-001	A

ES01

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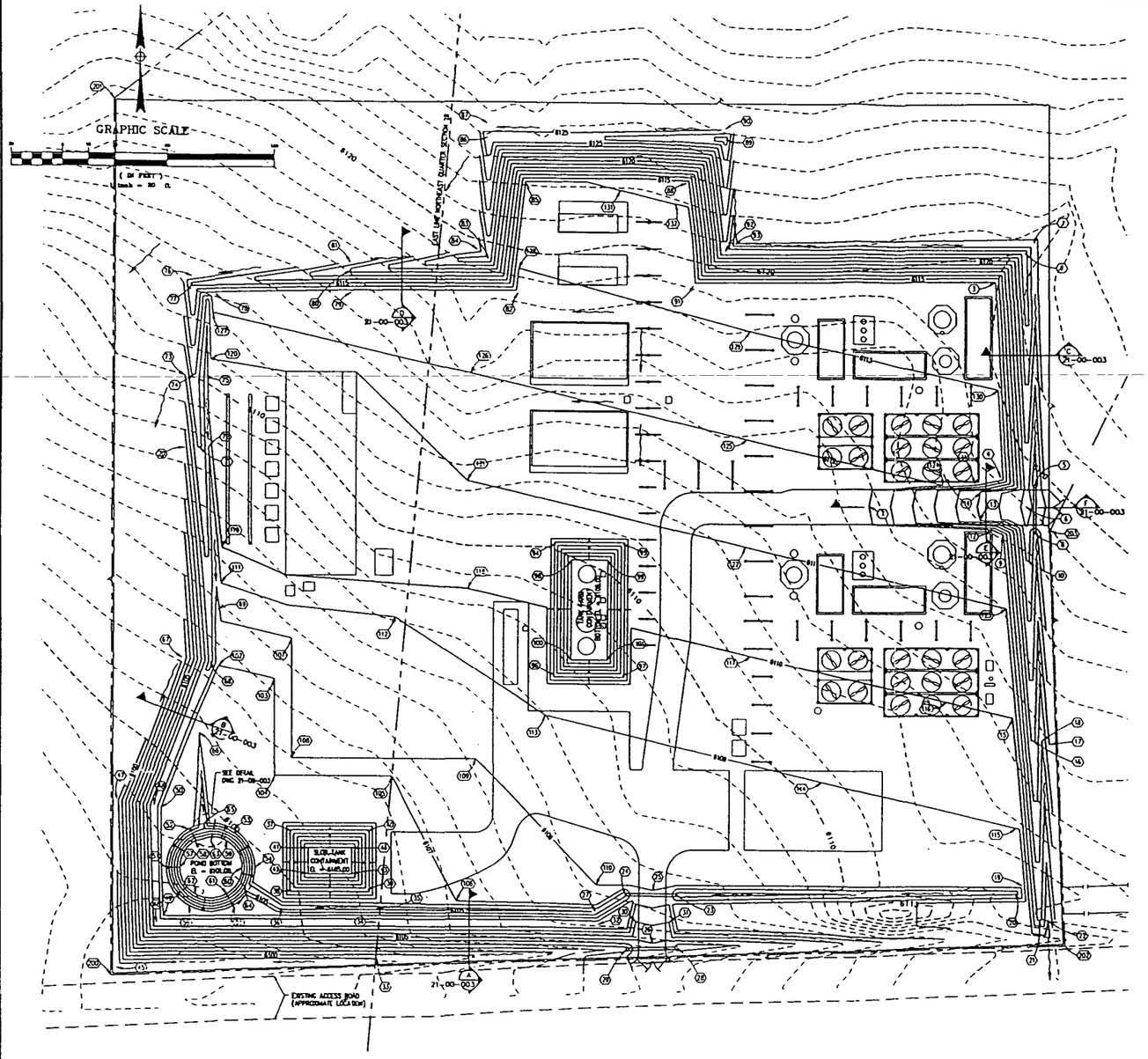
Figure 2
Fence/Site Plan



COORDINATE LISTING:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	417.87	532.70	6120.25	INVERT SWALE
2	412.24	527.14	6122.50	TOP CL OF BERM
3	395.56	510.03	6113.99	TOE OF BERM
4	264.83	513.19	6112.20	TOE OF BERM
5	260.72	533.53	6117.50	INVERT CULVERT
6	268.36	528.47	6118.29	CL OF ROAD
7	268.36	437.53	6112.00	CL OF ROAD
8	252.95	533.53	6118.50	INVERT CULVERT
9	251.72	514.17	6111.60	TOE OF BERM
10	237.72	529.12	6118.00	TOP CL OF BERM
11	281.20	498.80	6112.10	TOE OF BERM
12	254.50	507.73	6111.60	TOE OF BERM
13	260.31	501.52	6117.00	EDGE OF ROAD
14	278.78	501.83	6117.00	EDGE OF ROAD
15	148.05	520.45	6110.00	TOE OF BERM
16	135.40	532.78	6115.00	TOP CL OF BERM
17	133.28	541.89	6115.00	TOE OF BERM
18	135.40	537.68	6113.00	INVERT SWALE
19	53.77	526.00	6106.53	TOE OF BERM
20	49.79	522.22	6108.53	INVERT SWALE
21	34.53	536.06	6112.00	TOP CL OF BERM
22	34.32	541.07	6110.00	INVERT SWALE
23	47.63	325.91	6105.75	INVERT CULVERT
24	47.84	295.36	6105.25	INVERT CULVERT
25	50.22	311.41	6108.00	CL OF ROAD
26	20.22	311.41	6105.00	CL OF ROAD
27	37.78	277.83	6105.05	INVERT SWALE
28	17.76	328.68	6103.00	INVERT CULVERT
29	18.80	296.18	6102.50	INVERT CULVERT
30	32.26	301.41	6106.00	EDGE OF ROAD
31	32.26	321.41	6108.00	EDGE OF ROAD
32	30.41	279.18	6106.75	TOP CL OF BERM
33	10.66	152.42	6099.00	TOE OF BERM
34	30.72	151.95	6108.75	TOP CL OF BERM
35	36.96	151.95	6104.50	INVERT SWALE
36	36.11	94.08	6104.25	INVERT SWALE
37	82.17	103.87	6108.00	TOP CL OF BERM
38	48.17	103.87	6108.00	TOP CL OF BERM
39	48.17	146.92	6108.00	TOP CL OF BERM
40	82.14	146.84	6108.00	TOP CL OF BERM
41	73.17	112.84	6105.00	POND BOTTOM
42	58.17	112.84	6105.00	POND BOTTOM
43	58.17	137.84	6105.00	POND BOTTOM
44	73.17	137.84	6105.00	POND BOTTOM
45	5.48	4.08	6097.00	TOE OF BERM
46	30.21	27.24	6108.75	TOP CL OF BERM
47	89.77	4.62	6098.80	TOE OF BERM
48	96.56	25.83	6108.75	TOP CL OF BERM
49	34.27	30.71	6106.00	TOE OF BERM
50	95.51	29.83	6105.00	TOE OF BERM
51	61.58	32.77	6108.00	TOP EDGE OF POND
52	83.24	45.28	6108.00	TOP EDGE OF POND
53	83.24	70.28	6108.00	TOP EDGE OF POND
54	61.58	82.78	6108.00	TOP EDGE OF POND
55	38.84	70.28	6108.00	TOP EDGE OF POND
56	38.84	45.28	6108.00	TOP EDGE OF POND
57	61.58	45.28	6101.00	POND BOTTOM
58	78.75	48.01	6101.00	POND BOTTOM
59	78.75	86.51	6101.00	POND BOTTOM
60	61.58	75.28	6101.00	POND BOTTOM
61	46.44	94.51	6101.00	POND BOTTOM
62	46.44	48.01	6101.00	POND BOTTOM
63	78.58	57.78	6100.50	POND SUMP
64	50.99	78.94	6104.00	INVERT SWALE
65	86.97	53.75	6104.00	INVERT SWALE
66	137.83	51.20	6106.00	INVERT SWALE
67	180.24	41.90	6102.10	TOE OF BERM
68	176.41	57.36	6109.10	TOP CL OF BERM
69	207.73	61.37	6107.80	INVERT SWALE
70	300.08	42.84	6107.40	TOE OF BERM
71	295.12	61.09	6111.00	TOP CL OF BERM
72	300.38	56.06	6109.00	INVERT SWALE
73	341.54	43.11	6110.00	TOE OF BERM
74	341.78	47.77	6112.00	TOP CL OF BERM
75	341.73	54.48	6108.60	INVERT SWALE
76	396.87	46.99	6113.10	TOE OF BERM
77	392.24	46.99	6115.10	TOP CL OF BERM
78	367.03	60.38	6112.18	TOE OF BERM
79	368.20	137.05	6112.50	TOE OF BERM
80	400.38	136.65	6118.00	TOP CL OF BERM
81	405.00	136.45	6116.30	TOE OF BERM
82	368.27	231.56	6112.80	TOE OF BERM
83	406.87	215.06	6121.50	TOP CL OF BERM
84	412.42	208.83	6119.55	TOE OF BERM
85	450.14	236.20	6113.78	TOE OF BERM
86	475.88	214.41	6125.85	TOP CL OF BERM
87	463.46	214.14	6113.85	TOE OF BERM
88	450.62	329.83	6114.21	TOE OF BERM
89	475.83	352.33	6127.20	TOP CL OF BERM
90	481.38	352.17	6125.20	TOE OF BERM
91	383.56	334.06	6113.28	TOE OF BERM
92	412.80	352.40	6122.80	TOP CL OF BERM
93	418.72	358.47	6120.85	INVERT SWALE
94	246.14	254.00	6112.00	TOP CL OF BERM
95	246.14	283.00	6112.00	TOP CL OF BERM
96	171.14	254.00	6112.00	TOP CL OF BERM
97	171.14	283.00	6112.00	TOP CL OF BERM
98	237.14	283.00	6108.00	POND BOTTOM
99	237.14	284.00	6108.00	POND BOTTOM
100	180.14	283.00	6108.00	POND BOTTOM
101	180.14	284.00	6108.00	POND BOTTOM
102	175.58	82.02	6107.00	GROUND
103	166.37	83.68	6107.00	GROUND
104	113.60	83.69	6107.00	GROUND
105	113.60	160.82	6107.00	GROUND
106	43.11	187.84	6107.00	GROUND
107	191.73	103.69	6108.00	GROUND
108	123.60	103.69	6108.00	GROUND
109	123.60	208.58	6108.00	GROUND
110	52.83	278.14	6108.00	GROUND
111	222.57	83.22	6108.00	GROUND
112	203.99	182.43	6108.00	GROUND
113	148.52	248.15	6108.00	GROUND
114	111.58	410.37	6108.00	GROUND
115	86.10	522.25	6105.00	GROUND
116	134.78	482.13	6110.00	GROUND
117	182.83	368.67	6110.00	GROUND
118	220.19	203.84	6110.00	GROUND
119	243.04	83.97	6110.00	GROUND
120	350.53	57.23	6111.00	GROUND
121	281.77	203.66	6111.00	GROUND
122	244.87	365.17	6111.00	GROUND
123	210.44	516.82	6111.00	GROUND
124	280.41	478.68	6112.00	GROUND
125	308.27	366.22	6112.00	GROUND
126	342.99	205.07	6112.00	GROUND
127	378.48	58.34	6112.00	GROUND
128	402.08	231.68	6113.00	GROUND
129	367.34	367.40	6113.00	GROUND
130	334.85	511.71	6113.00	GROUND
131	446.81	290.44	6114.00	GROUND
132	439.14	323.73	6114.00	GROUND
200	1.03	1.00	6098.78	PROPERTY CORNER
201	486.22	2.57	-	PROPERTY CORNER
202	20.08	550.68	-	PROPERTY CORNER
203	254.83	542.55	-	PROPERTY CORNER

GENERAL NOTES:

1. CULVERT PIPE SHALL BE 12" NOMINAL CORRUGATED GALVANIZED METAL PIPE (CMP) CONFORMING TO ASTM A760 TYPE I PIPE WITH 2-2/3 x 1/2 INCH CORRUGATIONS.
2. BENCHMARK: 1/2" IP WITH CAP STAMPED L.S. 6707 LOCATED AT THE SOUTHWEST PROPERTY CORNER (POINT #200) EL. = 6098.78 PER LA MAQUINA TREATING PLANT SURVEY PLAT, FIGURE 8.1, PREPARED BY HARVEY D. PETERSON, DATED 10/22/93

REFERENCE DRAWINGS

NO	REVISIONS	DATE	BY	CHKD	APV'D
1	PRELIMINARY ESDLE	1/1/94	WRJ		
2	REDUCED SITE TO 3 ACRES	1/18/94	WRJ		
3	MODIFY ENTRANCES, MOVED TANK FARM, AND ADDED PARKING LOT	1/22/94	WRJ		
4	REGRADE TANK CONTAINMENT	1/25/94	WRJ		
5	REGRADE NORTH PERIMETER	3/16/94	WRJ		
6	ADDED STAKE OUT COORDINATES	3/17/94	WRJ		
7	ESDLE FOR APPROVAL	3/3/94	WRJ		

PRINT ISSUE RECORD

DRAWING STATUS	DATE
ISSUED	
PRELIMINARY	
FOR COMMENTS AND OR APPROVAL	
APPROVED FOR CONSTRUCTION	
REVISED AND APPROVED FOR CONSTRUCTION	REV. 1

	BY	DATE
DRAWN	WRJ	3/3/94
CHECKED		
MECH.		
STRUCT.		
ELECT.		
PIPING		
INSTR.		
CIVIL		
PROCESS		
PROJECT		

PREPARED FOR
WILLIAMS FIELD SERVICES COMPANY
LA MAQUINA GAS TREATING PLANT
SAN JUAN COUNTY, NEW MEXICO

BATEMAN ENGINEERING INC.
NIELSON INC.

TITLE
CIVIL
ROUGH GRADING AND EXCAVATION PLAN

CLIENT APPROVAL

SHEET 1 OF 1

PROJECT NUMBER 7098 | SCALE 1" = 30' | DRAWING NUMBER 21-00-002 | REVISION 6

JUN 08 1994

ES01

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Figure 3
Civil Rough Grading and Excavation Plan

WILLIAMS FIELD SERVICES COMPANY
ONE OF THE WILLIAMS COMPANIES

OPERATIONS

Manual	Department	
O & M Procedure		
Section	Tab	Document No.
Safety/General	10	21.10.020
Effective Date	Issue No.	Page No.
9-16-93	1	1 of 6

Subject of Title

DISCHARGES OR SPILLS OF OIL OR HAZARDOUS SUBSTANCES; Preventing, Controlling and Reporting of

A. PURPOSE AND SCOPE

A.1 To establish the policy and procedure for preventing, controlling, and reporting of spills or discharges of oil or hazardous substances to the environment in accordance with Company practices and federal, state, and local requirements, including Title 40 of the Code of Federal Regulations - Part 112 (Oil Pollution Prevention).

A.2 This document pertains to Company personnel and Company and non-company facilities. The spill prevention and control requirements in this Policy and Procedure are Federally mandated guidelines for oil pollution prevention. The Company policy is to also apply these standards, where appropriate, to facilities containing hazardous substances. This is a discretionary applicaton of the standards; however, variations from the standards should be approved by the responsible Director.

B. CONTENTS

C. POLICY

C.1 GENERAL

C.1.1 All Company facilities which could discharge or spill oil or hazardous substances which may affect natural resources or present an imminent and substantial danger to the public health or welfare including, but not limited to fish, shellfish, wildlife, shorelines, and beaches are subject to the provisions of this document.

C.1.2 Hazardous Substance, for purposes of this procedure, is defined as any chemical or material that has or should have a Material Safety Data Sheet (MSDS); however, hazardous substances are further defined by the following environmental statutes:

a. Section 101 (N) and Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

b. Section 307(a) and Section 311 (b)(2)(A) of the Clean Water Act

c. Section 3001 of the Solid Waste Act (excluding items suspended by Congress)

d. Section 112 of the Clean Air Act

e. Section 7 of the Toxic Substance Control Act

Supersedes Policy and Procedure 12.10.020 dated July 7, 1989.

Approval (Page 1 Only) | Approval (Page 1 Only) | Approval (Page 1 Only)

b. All tank batteries should, as far as practicable, have a secondary means of containment for the entire contents of the largest single tank plus sufficient freeboard in the containment facility to allow for precipitation.

c. A annual monitoring and inspection program to prevent accidental spills or discharges into watercourses. This includes annual inspection for faulty systems and monitoring line valves and liquid pipelines for leaks or blowouts.

C.1.10 Any field drainage ditches, road ditches, traps, sumps, or skimmers should be inspected at annual scheduled intervals for accumulation of liquid hydrocarbons or other hazardous substances which may have escaped from small leaks. Any such accumulations should be removed.

C.2 BULK STORAGE TANKS

C.2.1 A tank should not be used for storage of oil or hazardous substances unless the material and construction of the tank is compatible with the material stored and conditions of storage such as pressure and temperature. Buried storage tanks must be protected from corrosion by coatings, cathodic protection, or other methods compatible with local soil conditions. Aboveground tanks should be subject to visual inspection for system integrity.

C.2.2 The facility supervisor should evaluate level monitoring requirements to prevent tank overflow.

C.2.3 Leaks which result in loss of oil or hazardous substances from tank seams, gaskets, rivets and bolts sufficiently large to cause accumulation of oil or hazardous substances in diked areas should be promptly corrected.

C.2.4 Mobile or portable oil or hazardous substances storage tanks should be positioned or located to prevent the contents from reaching a watercourse. The mobile facilities should be located so their support structure will not be undermined by periodic flooding or washout.

C.3 FACILITY DRAINAGE

C.3.1 Make provisions for drainage from diked storage areas where necessary in areas with high precipitation levels. Drainage from dike areas should be restrained by valves or other means to prevent a discharge or spill. Diked areas should be emptied by pumps or ejectors which are manually activated. Valves used for the drainage of diked areas should be of manual, open-and-closed design.

C.3.2 Rain water may be drained from diked areas providing drainage water does not contain oil or hazardous substances that may cause a harmful discharge. Drain valves must be closed following drainage of diked areas.

C.3.3 When possible, drainage systems from undiked areas should flow into ponds, lagoons, or catchment basins designed to retain oil or hazardous substances or return the substances to the facility. Any drainage system which is not designed to allow flow into ponds, lagoons, or catchment basins should be equipped with a diversion system that could, in the event of a discharge or spill, contain the oil or hazardous substances on the Site.

C.3.4 The principal means of containing discharges or spills is the use of dikes which are constructed wherever regulated quantities of oil or hazardous substances have the potential of reaching a watercourse. The construction of dikes must meet the following requirements:

a. Capacity must be at least equivalent to the storage capacity of the largest tank of the battery plus sufficient freeboard to allow for pecipitation, or displacement by foreign materials.

b. Small dikes for temporary containment are constructed at valves where potential leaking of oil or hazardous substances may occur.

c. Any dike three feet or higher should have a minimum cross section of two feet at the top.

C.3.5 Other means of containment or spill control include, but are not limited to:

a. Berms or retaining walls;
b. Curbing;
c. Culverting, gutters, or other drainage systems;
d. Weirs, booms, or other barriers;
e. Spill diversion ponds or retention ponds;
f. Sorbent materials

C.4 TRANSFER OPERATIONS, PUMPING, AND IN-PLANT/STATION PROCESS

C.4.1 Aboveground valves and pipelines should be examined annually by operating personnel to determine whether there are any leaks from flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, valve locks, and metal surfaces.

C.5 FACILITY TANK CAR AND TANK TRUCK LOADING/UNLOADING RACK

C.5.1 Rack area drainage which does not flow into a catchment basin or treatment facility designed to handle spills should have a quick drainage system for use in tank truck loading and unloading areas. The containment system should have a maximum capacity of any single compartment of a truck loaded or unloaded in the station.

C.5.2 Aboveground piping that has potential for damage by vehicles entering the Site should be protected by logically placed warning signs or by concrete-filled pipe barriers.

C.5.3 Loading and unloading areas should be provided with an interlocked warning light, grounding shutdown, physical barrier system, or warning signs to prevent vehicular departure before complete disconnect of flexible or fixed transfer lines. All drains and outlets of any truck should be closely examined for leakage prior to filling and departure. All drains and outlets which may allow leakage should be tightened, adjusted, or replaced to prevent liquid leakage while in transit.

NOTE: LPG loading facilities and remote field loading of condensate are exempt from the C.5 requirements of this document.

D. PROCEDURE

D.1 IDENTIFYING, CONTAINING AND INITIAL REPORTING OF A DISCHARGE OR SPILL OF OIL OR HAZARDOUS SUBSTANCE

Any Employee

D.1.1 Upon noticing a discharge or spill of an oil or hazardous substance in any quantity initiates immediate containment procedures and notifies facility supervisor.

NOTE: Refer to Attachment A for containment procedures.

Facility Supervisor

D.1.2 Contacts Gas Control and responsible Director immediately by telephone and provides the following information:

a. Name of company facility and/or location of facility and nature of discharge or spill
b. Description and quantity of emission or substance discharged
c. Name, title, and telephone number of person initially reporting the discharge or spill and person reporting to Gas Control
d. Action taken or being taken to mitigate and correct discharge or spill
e. Water bodies or streams involved
f. Time and duration of discharge or spill
g. Outside involvement during discharge or spill (public government agencies, etc. See Emergency Operating Procedure Manuals)

Gas Control Personnel

D.1.3 Advises Environmental Services departments immediately by telephone concerning the incident including any incidents reported by persons not employed with the Company.

NOTE: If Gas Control is contacted by a person not employed with the Company, the necessary information is obtained as indicated in D.1.2 and the Supervisor and Environmental Services are immediately contacted to begin containment and clean-up of the discharge or spill.

D.1.4 If Environmental Services cannot be contacted, notifies Director over Environmental Services.

Facility Supervisor

D.1.5 Coordinates containment and clean-up of discharge or spill, keeping the responsible Director Informed.

D.1.6 If the discharge or spill is too large for Company personnel to contain, contacts qualified local contractors for assistance. (See Emergency Operating Procedure Manuals tab #11, contractors with available equipment and services).

D.1.7 Advises Environmental Services by telephone if emergency containment or clean-up assistance from a state agency or a response team from the U.S. Coast Guard is required.

Environmental Services

D.1.8 Contacts Legal Department (and Right-of-Way Department, if appropriate) and assesses reporting requirements to state and federal agencies. (See Emergency Operating Procedure Manuals).

D.1.9 Makes appropriate contacts with U.S. Coast Guard and state agencies when necessary.

D.1.10 If spill is significant, dispatches Environmental Specialist to scene to oversee cleanup and reporting responsibilities.

D.2 SUBMITTING WRITTEN NOTIFICATION OF A DISCHARGE OR SPILL

Facility Supervisor

D.2.1 Completes a written description of the incident as soon as possible after initial notification is given, which should include the following:

a. Time and date of discharge or spill
b. Facility name and location
c. Type of material spilled
d. Quantity of material spilled
e. Area affected
f. Cause of spill
g. Special circumstances
h. Corrective measures taken
i. Description of repairs made
j. Preventative measures taken to prevent recurrence.

D.2.2 Forwards the completed report to Environmental Services and a copy to Legal Department. Retains a copy for future reference.

NOTE: Environmental Services, in coordination with the Legal Department, submits written reports to government agencies.

ATTACHMENT A

Discharge or Spill Containment Procedures and Materials

Type of Facility where the Discharge or Spill occurs	Containment Procedures	Material Used for Containment
A. Oil Pipeline (as defined in C.1.4)	1. Closes appropriate block valves. 2. Contains discharge or spill by: ditching covering, applying sorbents, constructing an earthen dam, or burning. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning.	1. Straw 2. Loose Earth 3. Oil Sorbent - 3M Brand 4. Plain Wood Chips 5. Sorb - Oil Chips Banta Co. 6. Sorb - Oil Swabs - Banta Co. 7. Sorb - Oil Mats - Banta Co. 8. Or Equivalent Materials.
B. Vehicle	1. Contains discharge or spill by: ditching, covering surface with dirt, constructing earthen dams, applying sorbents, or burning. 2. Notifies immediately the Compliance and Safety Department and if there is any imminent danger to local residents; notifies immediately the highway patrol or local police officials. 3. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning. **NOTE:** Any vehicle carrying any hazardous or toxic substance will carry a shovel or other ditching device to contain a spill. If the vehicle has sufficient room, sorbent materials should also be carried.	
C. Bulk Storage Tanks or any other Facilities	1. Contains discharge or spill by: ditching, covering, applying sorbents, constructing an earthen dam, or burning. 2. If burning is required, obtains approval from the appropriate state air quality control government agencies before burning.	

C.1.3 The term hazardous substance does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance in the first sentence of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

C.1.4 Oil, for the purpose of this document, means oil of any kind or in any form, including but not limited to petroleum, fuel oil, Y grade, mixed products, sludge, oil refuse, and oil mixed with wastes other than dredged spoil (earth and rock). LPG (propane, butane, ethane) are not considered to be oil.

C.1.5 Facilities which could discharge or spill oil or hazardous substances into a watercourse must comply with the required federal, state, or local laws and regulations. A discharge includes but is not limited to any spilling, leaking, pumping, pouring, emitting, emptying, or dumping. A watercourse is any perennial or intermittent river, stream, gully, wash, lake, or standing body of water capable of collecting or transporting an oil or hazardous substance.

C.1.6 Facilities which are subject to the requirements stated in this policy are as follows:

a. Non-Transportation Related Facilities

(1) Storage or drip tanks and other aboveground containers (excluding pressurized or inline process vessels) having a capacity in excess of 660 gallons for each single container or an aggregate capacity of 1,321 gallons or more for multiple containers.

(2) Underground storage facilities having a total capacity in excess of 42,000 gallons.

b. Transportation Related Facilities

(1) All vehicles, pipeline facilities, loading/unloading facilities, and other mobile facilities which transport oil or hazardous substances.

C.1.7 Each Company location which has facilities subject to paragraph C.1.1 shall have a site specific Spill Prevention Control and Countermeasure Plan (SPCC Plan) which identifies all facilities subject to 40 CFR 112. The plan shall identify all hazardous substance storage vessels at the facility and the spill prevention measures in place to control discharges or spills. This plan shall also identify all regulatory agencys that must be notified in case of a spill.

C.1.8 The facility supervisor is responsible for spill prevention. His/her duties include, but are not limited to, the following:

a. Instructing personnel in the operation and maintenance of equipment to prevent the discharge of oil.
b. Conduct briefings for operating personnel at intervals frequent enough to assure adequate understanding of the Spill Plan at that facility.
c. Briefings should highlight and describe known discharges or spills, and recently developed precautionary measures.

C.1.9 Each individual facility is checked by the supervisor or designee to determine the potential for discharges or spills of oil or hazardous substances in harmful quantities that violate water quality standards or which may cause a film, sheen, or discoloration on the surface of water. All facilities which have the potential for discharging or spilling harmful quantities of oil or hazardous substances into a watercourse are required to have the following preventive measures:

a. Examination of all tanks, valves and fittings, at least annually, to determine any maintenance requirements.

Appendix 3
Available Information on Wells in the Area

Well No	Date Drilled	T	R	Sec	Location	Elevation (ft)	Depth to Water (ft)	Micromho	TDS mg/l
1	9/24/74	31N	10W	4	NE1/4NW1/4SW1/4SW1/4	5760	14	n/a	n/a
2	4/30/59	31N	10W	5	n/a	5810	n/a	n/a	1100
3	9/24/74	31 N	10W	5	NE1/4SE1/4NE1/4SW1/4	5834	n/a	n/a	n/a
4	8/1/75	31N	10W	6	SE1/4	5795	n/a	n/a	n/a
5	9/24/74	31N	10W	8	NW1/4SW1/4NE1/4NW1/4	5790	4.9	n/a	n/a
6	0/0/75	31N	10W	10	NE1/4	6120	n/a	n/a	n/a
7	0/0/75	31 N	10W	14	NE1/4	6280	n/a	n/a	n/a
8	0/0/75	31 N	10W	14	SW1/4	6250	n/a	n/a	n/a
9	9/25/74	31 N	10W	18	NW1/4NW1/4SE1/4NE1/4	5780	15.5	n/a	n/a
10	9/24/74	31N	10W	18	NE1/4SE1/4NE1/4NE1/4	5760	12.4	n/a	n/a
11	6/17/75	31N	10W	24	SW1/4	6500	n/a	n/a	n/a
12	6/0/75	31N	10W	24	SW1/4	6450	n/a	n/a	n/a
13	6/0/75	31N	10W	26	SE1/4	6350	n/a	n/a	n/a
14	9/0/75	31N	10W	27	NW1/4	6180	53	n/a	n/a
15	6/0/75	31N	10W	31	NW1/4	5950	n/a	n/a	n/a
16	9/25/74	31N	11W	24	SW1/4SW1/4SE1/4SE1/4	5700	7.6	n/a	n/a
17	9/25/74	31N	11W	24	SE1/4NW1/4NW1/4SE1/4	5750	7.9	n/a	n/a
18	8/20/59	31N	11W	26	NW1/4	5680	n/a	777	484
19	8/26/75	31N	11W	26	SE1/4	5720	23	n/a	n/a
20	9/25/74	31N	11W	26	SE1/4NE1/4SW1/4SE1/4	5770	n/a	n/a	n/a
21	0/0/75	31N	11W	34	SW1/4	5670	7	n/a	n/a
22	9/26/74	31N	11W	34	SW1/4NW1/4SW1/4NW1/4	5720	77.3	n/a	n/a
23	8/26/75	31N	11W	34	SE1/4SE1/4SW1/4SE1/4	5680	20	n/a	n/a
24	9/25/74	31N	11W	35	SW1/4NW1/4SW1/4NW1/4	5720	8	n/a	n/a
25	6/0/75	31N	9W	31	SE1/4NE1/4	6430	n/a	n/a	n/a
26	2/0/76	31N	9W	28	NW1/4	6180	51	n/a	n/a
27	0/0/75	31N	9W	20	SW1/4	6520	n/a	n/a	n/a
28	0/0/75	31N	9W	20	NE1/4	6260	n/a	n/a	n/a
29	0/0/75	31N	9W	19	n/a	6560	n/a	n/a	n/a
30	0/0/75	31N	9W	17	SW1/4	6490	n/a	n/a	n/a
31	6/0/75	31N	9W	6	NE1/4	6750	n/a	n/a	n/a
32	6/0/75	31N	9W	5	SW1/4	6750	n/a	n/a	n/a
33	n/a	30N	10W	20	SW1/4	6190	91	n/a	n/a
34	n/a	30N	10W	23	NE1/4	6280	n/a	n/a	n/a
35	n/a	30N	10W	23	SE1/4NE1/4NW1/4NE1/4	6219	n/a	n/a	n/a
36	n/a	30N	10W	24	NE1/4	6280	n/a	n/a	n/a

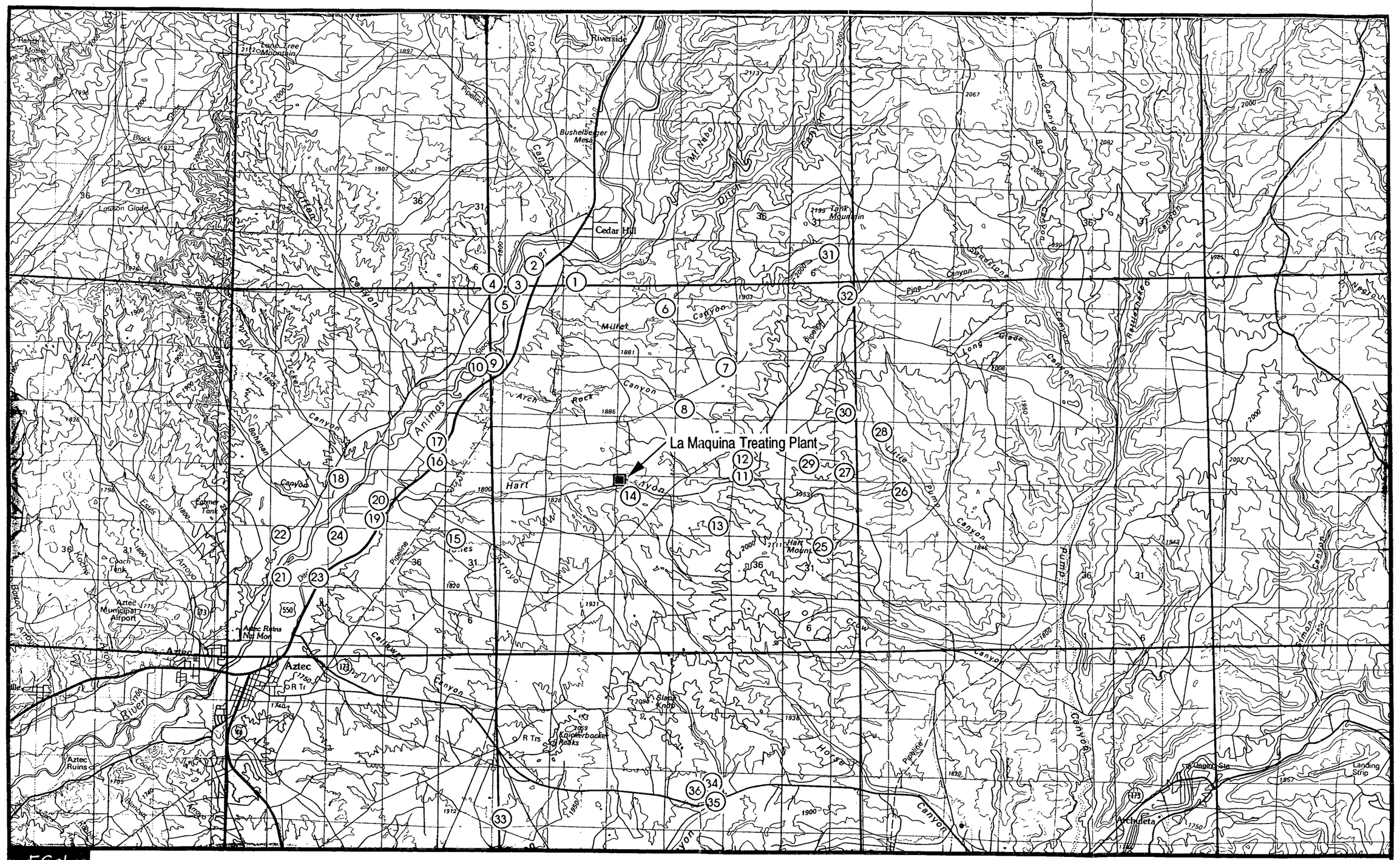

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Figure 4
Map of Nearby Recorded Wells

Location	Latitude-Longitude	Number or name	Depth (feet)	Altitude (feet)	Depth to water (feet)	Date	Producing interval (feet)	Principal water-bearing unit(s)	Specific conductance (umhos at 25 C)	Date	Logs available	Reference	Drawdown (feet)	Discharge (gal/min)	Duration (hours)	Remarks
(33) 30.10.20.3	-	Hartman	-	6,190	91	-	-	Tn	-	-	-	c*	-	-	-	-
(34) 30.10.23.2	-	EPNG Riddle #1	311	6,280	-	-	285-305	Tn	-	-	-	c*	-	20E	-	-
(35) 30.10.23.4212	364748 1075052	EPNG Knickerbocker #1	975	6,219	-	-	246-266 330-484 596-680 832-946	Tn	4,170 8,330	05-29-73 06-18-75	-	c*	-	-	-	-
(36) 30.10.24.2	-	EPNG Florance #1	293	6,280	-	-	-	Tn?	-	-	-	c*	-	20	-	-
30.11.04.4124	365025 1075929	Jody Boston	50	5,640	35	09-26-74	-	Qal	890	09-26-74	-	c*	-	-	-	-
30.11.09	-	Clyde Van Dusen	-	-	-	-	-	Qal	4,320 *	07-26-54	-	c*m	-	-	-	-
30.11.09	-	Peach Spring	-	-	-	-	-	-	- *	11-25-33	-	m	-	-	-	-
30.11.10	-	A. W. Moore	32	-	-	-	-	Qal	-	-	-	c*	-	-	-	-
30.11.17.2432	364850 1080026	John Howlett	-	5,622	39.5	09-30-74	-	Qal	1,500	09-30-74	-	-	-	-	-	-
30.11.17.3211	364843 1080102	Coy Stocking	-	5,588	10.1	09-26-74	-	Qal	910	09-26-74	-	-	-	-	-	-
30.11.19.1134	364807 1080220	Kenneth McCament	143	5,575	24.2	09-26-74	-	Tn	1,240	09-26-74	-	c*	-	-	-	-
30.12.04.1414	365038 1080620	Hickman	-	5,856	67.4	10-22-74	-	Tn	-	-	-	-	-	-	-	Windmill; abandoned.
30.12.22	-	Bill Ryan	-	-	-	-	-	-	- *	07-11-56	-	m	-	-	-	-
30.12.22Q	- -	Dorman	50	-	-	07-26-57	-	TKon?	-	-	-	-	-	-	-	Well located "five miles west of Aztec".
30.12.23.4343	364727 1080353	Ernest Tolly	29	5,520	11.8	09-26-74	-	Qal	1,450	09-26-74	-	-	-	-	-	Well in home.
30.12.24.3221	364750 1080304	Emilio Garcia	31	5,538	14.9	09-26-74	-	Qal	-	-	-	-	-	-	-	-
30.12.25.4412	364643 1080236	-	1,895	5,650	-	-	-	Kpc	-	-	-	-	-	-	-	Converted to H_2O.
30.12.27.4221	364658 1080440	Earl Ritter	59	5,590	9.4	09-26-74	-	Qal	-	-	-	-	-	-	-	-
30.12.28.4422	364648 1080538	Jess Deau	22	5,465	7.0	09-26-74	-	Qal	-	-	-	-	-	-	-	SPC of nearby domestic well is 2,100 umhos.
30.12.29.12	364722 1080722	Floyd Gordanier	200	5,640	100	02-22-59	194-200	TKoa	2,250 *	02-21-59	-	m	-	-	-	-
30.12.30.1233	364718 1080830	-	-	5,763	-	-	-	-	-	-	-	-	-	-	-	Converted to H_2O.
30.12.31.34	364550 1080830	E. Evans Spring	-	5,430	-	-	-	TKoa	1,890 *	09-27-46	-	m	-	-	-	In bed of wash.
30.12.32.2331	364614 1080708	McMahon #1, dug well	20	5,410	4.8	03-09-77		Qal	1,180	03-10-77	-	u		7.35 * 450	8.3	-
30.12.32.2333	364612 1080712	McMahon #2, dug well	20	5,410	5	03-09-77	-	Qal	-	-	-	u	-	-	-	-

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Location	Latitude-Longitude	Number or name	Depth (feet)	Altitude (feet)	Depth to Water (feet)	Date	Producing interval (feet)	Principal water-bearing unit(s)	Specific conductance (umhos at 25 C)	Date	Logs available	Reference	Drawdown (feet)	Discharge (gal/min)	Duration (hours)	Remarks
31.08.32.344	365052 1074151	EPNG Pump Mesa Water #1	1,992	6,272	-	08-13-75	938-1,650	Tn	14,400 13,000	04-28-75 08-13-75	DLR,DEN	-	-	-	-	-
32 31.09.05.3	-	Last Chance Spring	-	6,750	-	06- -75	-	Tal	183	06- -75	-	c*	-	-	-	Once supported cave dwellers and homesteaders.
31 31.09.06.2	-	Hidden Spring	-	6,750	-	06- -75	-	Tal	1,800	06- -75	-	c*	-	-	-	Such alkali precipitation.
31.09.10.3	-	EPNG Schwertfeger #4	462	6,520	-	- -75	198-218, 398-415	Tal, Tn	-	-	-	c*	-	-	-	Plugged and abandoned.
30 31.09.17.3	-	EPNG Riddle #1-D	530	6,490	-	- -75	212-252	Tal, Tn	-	-	-	c*	-	6	-	Plugged and abandoned.
29 31.09.19	-	EPNG Barrett #1	519	6,560E	-	- -75	220-275	Tal, Tn	-	-	-	c*	-	20	-	Plugged and abandoned.
28 31.09.20.2	-	EPNG Barrett #2	202	6,260	-	- -75	140-170	Tal, Tn	-	-	-	c*	-	20	-	Plugged and abandoned.
27 31.09.20.3	-	EPNG Riddle #2-C	510	6,520	-	- -75	355-505	Tn	-	-	-	c*	-	50	-	-
31.09.27.3	-	EPNG Schwertfeger #1	120	6,080	-	- -75	75-100	Tal	-	-	-	c*	-	40	-	-
31.09.27.4	-	EPNG Schwertfeger #2	118	6,080	-	- -75	84-118	Tal	-	-	-	c*	-	20	-	-
26 31.09.28.1	-	Little Pump	100	6,180	51	02- -76	-	Qal,Tal	1,205	02- -76	-	c*	-	-	-	Unused.
25 31.09.31.42	365112 1074851	Cottonwood Spring	-	6,430	-	06- -75	-	Tal	450	06- -75	-	c*	-	-	-	Occurs in Alamo Canyon.
1 31.10.04.2133	365550 1075307	Albert Karlan, dug well	-	5,760	14.0	09-24-74	-	Qal	780	09-24-74	-	c*	-	-	-	-
2 31.10.0?	-	Pan Amer Petro	27 Q	5,810	-	-	-	Qal	- *	04-30-59	-	c*,m	-	-	-	Cased to 27 feet; TDS = 1,104 mg/L (4-59).
3 31.10.05.2423	365547 1075352	J. Mallor, dug well	-	5,834	-	09-24-74	-	Qal	1,100	09-24-74	-	c*	-	-	-	-
4 31.10.06.4	-	J. Mallor	30	5,795	-	08- -75?	-	Qal	1,196 820	08- -75 11-05-75	-	c*	-	-	-	Sulfur smell; iron stain.
5 31.10.08.1321	365457 1075440	O. V. Smith, dug well	-	5,790	4.9	09-24-74	-	Qal	760	09-24-74	-	c*	-	-	-	-
6 31.10.10.2	-	EPNG Lucerne #1	455	6,120	-	- -75	76-96, 289-336	Tn	-	-	-	c*	-	25	-	-
7 31.10.14.2	-	Garrison Spring	-	6,280	-	- -75	-	To(?)	450	06-19-75	-	c*	-	-	-	Once supported a homestead.
8 31.10.14.3	-	EPNG Kelly	555	6,250	-	- -75	527-555	Tn	-	-	-	c*	-	-	-	Plugged and abandoned.

	Location	Latitude-Longitude	Number or name	Depth (feet)	Altitude (feet)	Depth to Water (feet)	Date	Producing interval (feet)	Principal water-bearing unit(s)	Specific conductance (umhos at 25 C)	Date	Logs available	Reference	Drawdown (feet)	Discharge (gal/min)	Duration (hours)	Remarks
(9)	31.10.18.1142	365412 1075540	Gene Flaherty	28	5,780	15.5	09-25-74	-	Qal	800 780	09-25-74 09-06-75	-	c*	-	-	-	Drilled into flowing spring.
(10)	31.10.18.2422	365404 1075453	Pat Ryan	23	5,760	12.4	09-24-74	-	Qal	-	-	-	-	-	-	-	Smells of gas; abandoned; unfit for human consumption.
(11)	31.10.24.3	-	Arch Rock Spring	-	6,500	-	06-17-75	-	Tsl	390	06-17-75	-	c*	-	-	-	-
(12)	31.10.25.3	-	Hart Spring #1	-	6,450	-	06- -75	-	Tsl	295	06-17-75	-	c*	-	-	-	Developed.
(13)	31.10.26.4	-	Hart Spring #2	-	6,350E	-	06- -75	-	Tsl	700	06-17-75	-	-	-	-	-	-
(14)	31.10.27.1	-	Slane Canyon	-	6,180	51	09- -75	-	Tn	-	-	-	c*	-	-	-	-
(15)	31.10.31.1	-	Thurston Spring	-	5,950	-	06- -75	-	Tn	2,900	06-17-75	-	c*	-	-	-	In Jones Arroyo.
(16)	31.11.24.3344	365237 1075645	I. L. Randalman	173	5,700	7.6	09-25-74	-	Tn	-	-	-	c*	-	-	-	Unfit for human consumption; reported sulfur; unused.
(17)	31.11.24.4114	365259 1075623	Marvin Bishop, dug well	40	5,750	7.9	09-25-74	-	Qal	780 650	09-24-74 08- -75	-	c*	-	-	-	Water softener used.
(18)	31.11.26.1	-	F. Randalman	57	5,680	-	08-20-59	-	Qal	777 e	08-20-59	-	c*	-	-	-	-
(19)	31.11.26.4	-	A. Hill	39	5,720	23	08-26-75	-	Qal	950	08-26-75	-	c*	-	-	-	-
(20)	31.11.26.4234	365158 1075711	Larry Long	70	5,770	-	09-25-74	-	Qal	1,120	09-25-74	-	c*	-	-	-	Slaughter house.
(21)	31.11.34.3	-	G. Foster	60	5,670	7	- -75	-	Qal	828 610	- -75 08-24-75	-	c*	-	-	-	Dug 20 feet; drilled 40 feet; not potable since drilling.
(22)	31.11.34.3131	365110 1075909	Raymon Pettijohn	95	5,720	77.3	09-26-74	-	Tn,	2,240	09-26-74	-	c*	-	-	-	Water softener used.
(23)	31.11.34.4434	365057 1075820	L. Likes	47	5,680	20	08-26-75	-	Qal	1,380 1,320	08-26-75 11-05-75	-	-	-	-	-	-
(24)	31.11.35.3131	365110 1075805	Glen Saline	-	5,720	8	09-25-74	-	Tn	1,575	09-25-74	-	c*	-	-	-	-
	31.12.01.1211	365600 1080300	-	-	6,284	51.3	10-22-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.10.3442	365426 1080500	-	-	6,137	57.5	10-22-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.20.2	-	Govt. 120, Ohio Oil	5,034	5,900E	-	07-08-57	4,805-5,034 ✓	Kpl	7,690	07-08-57 ✓	-	-	-	-	-	-
	31.12.21.2331	365308 1080603	-	-	6,072	101.8	10-23-74	-	Tn	-	-	-	-	-	-	-	Unused.
	31.12.25.2222	365238 1080228	-	-	5,940	79.4	10-22-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.29.3214	365208 1080725	-	-	5,970	98.1	10-23-74	-	Tn	-	-	-	-	-	-	-	Abandoned.
	31.12.31.342	365106 1080817	-	110 E	5,900E	94	10-03-74	-	Tn	-	-	-	-	-	-	-	-

Lorraine Field