

ENVIRONMENTAL PLUS, INC.

Micro-Blaze Micro-Blaze Out

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

June 26, 2003

Mr. Larry Johnson
New Mexico Oil Conservation Division
1625 North French
Hobbs, New Mexico 88240

Subject: Duke Energy Field Services Eunice Plant Produced Water Leak Initial C-141 and Remediation Plan

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Ms. Lynn Ward, Duke Energy Field Services, submits the attached New Mexico Oil Conservation Division Form C-141 for the above referenced leak site located on land owned by Duke Energy Field Services. The release volume is estimated to be 10 bbl of produced water with 5 bbl recovered. The site is located in the SE¼ of the NE¼ (Unit Letter H), Section 5, Township 21 South, and Range 36 East. The geographic location is N32° 30' 57.91"; W103° 16' 58.94". The site is ~1.7 miles northwest (313.6°) from Oil Center, Lea County, New Mexico. According to information obtained from the New Mexico Office of the State Engineer (NMOSE) database, ground water level beneath this site is ~120-feet below ground surface (based on the water depth of the nearest (> 1 mile) water well in an adjacent section). The site matrix ranking for this site is 0 due to the depth to ground water from lower contaminant level being greater than 100-ft.

The remedial action plan for this site is to delineate and characterize the soil contamination (TPH, BTEX and Chlorides) within the affected area of the produced water release, excavate, dispose of and/or blend and attenuate on-site the RCRA exempt contaminated soils, and backfill the excavation with clean soil obtained on-site and/or off-site from private or public sources. Any RCRA exempt contaminated soils excavated and removed from the site will be disposed of in a NMOCD approved surface waste facility.

The Constituents of Concern (CoC's) and associated NMOCD acceptable remedial levels are as follows:

- BTEX⁸⁶²⁰ (Benzene, Toluene, Ethyl Benzene, and Xylenes): 50 mg/kg
- TPH^{8015m} (Total Petroleum Hydrocarbon): 5000 mg/kg
- Benzene⁸⁶²⁰: 10 mg/kg
- Chlorides: 250 mg/kg (NM Water Quality Control Commission Ground Water Standard)

If there are any questions please call Mr. Ben Miller, or myself, at our office or at (505) 390-0288 and (505) 390-9804, respectively or Ms. Lynn Ward at (915) 620-4207. All official written communications should be addressed to:

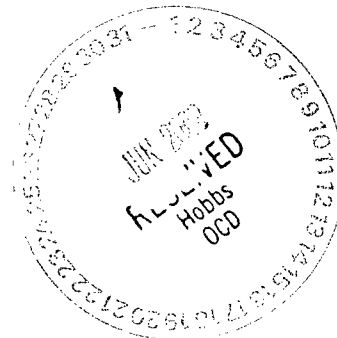
Ms. Lynn Ward
Duke Energy Field Services
3300 North A Street
Midland, Texas 79705

On behalf of Duke Energy Field Services,

John Good

John Good
EPI Environmental Consultant

cc: Kevin Gerber, Duke Energy Field Services - Eunice Plant
Lynn Ward, Duke Energy Field Services - Midland
Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
Pat McCasland, EPI Technical Manager
File



P.O. BOX 1558

2100 AVENUE O

EUNICE, NEW MEXICO 88231

Duke = 229153
facility = FPAC0602035388
incident = NPAC0602035537
application = pPAC0603149933

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

**State of New Mexico
Energy Minerals and Natural Resources**

Form C-141

Revised March 17, 1999

**Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form**Release Notification and Corrective Action****OPERATOR**☒ Initial Report ☐ Final Report

Name of Company DUKE ENERGY FIELD SERVICES	Contact Lynn Ward - DEFS Environmental Specialist
Address 3300 North A Street Midland, TX 79705	Telephone No. 915-620-4207
Facility Name Eunice Plant PW Tanks	Facility Type 2-500 bbl Produced Water Tanks

Surface Owner Duke Energy Field Services	Mineral Owner NA	Lease No. NA
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LOCATION OF RELEASE

Unit Letter H	Section 5	Township 21S	Range 36E	Feet from South Line 5600	Feet from West Line 3980	Longitude W103° 16' 58.94"	Latitude N32° 30' 57.91"	County: Lea
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NATURE OF RELEASE

Type of Release Produced water w/ some petroleum component	Volume of Release 40 bbl	Volume Recovered 32 bbl
Source of Release (2) 500-bbl tanks	Date and Hour of Occurrence 6/22/2003	Date and Hour of Discovery 6/22/03
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson (NMOCD-Hobbs)	
By Whom? John Good - EPI	Date and Hour 6/23/03 9:30 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		


Describe Cause of Problem and Remedial Action Taken.*

Tanks gravity flow into Rice Engineering Produced Water receiving line. Rice line was not flowing (reason under investigation) so the DEFS tanks overflowed into the bermed containment. 32 bbl recovered.

Describe Area Affected and Cleanup Action Taken.*

~1350-ft² surface area affected inside of containment berm. 32-bbl of produced water and oil recovered from 40-bbl release. Surface soil samples collected for TPH, BTEX and Chloride analyses. RCRA Exempt Non-hazardous contaminated soil above remedial goals will be remediated on-site and/or excavated and disposed of at a NMOCD approved surface waste facility.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: John Good	Approved by District Supervisor:	
Title: EPI - Environmental Consultant	Approval Date:	Expiration Date:
Date: 6/26/03	Phone: 505-394-3481	<input type="checkbox"/> Attached



Incident Date and NMOCD Notified?

6/22/03

6/23/03 9:30 AM

SITE: Eunice Plant PW Tanks		Assigned Site Reference #062203	
Company: DUKE ENERGY FIELD SERVICES			
Street Address: 5805 East Highway 80			
Mailing Address: 3300 North A Street			
City, State, Zip: Midland, TX 79705			
Representative: Lynn Ward - DEFS Environmental Specialist			
Representative Telephone: 915-620-4207			
Telephone:			
Fluid volume released (bbls): 40	Recovered (bbls): 32		
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: #062203			
Source of contamination: (2) 500-bbl tanks			
Land Owner, i.e., BLM, ST, Fee, Other: Duke Energy Field Se			
LSP Dimensions: contained in berm (GPS Site Diagram attached)			
LSP Area: 1,350 -ft ²			
Location of Reference Point (RP):			
Location distance and direction from RP:			
Latitude: N32° 30' 57.91"			
Longitude: W103° 16' 58.94"			
Elevation above mean sea level: 3566 -ft amsl			
Feet from South Section Line: 5600			
Feet from West Section Line: 3980			
Location - Unit and 1/4 1/4: UL- H SE 1/4 of NE 1/4			
Location - Section: 5			
Location - Township: 21S			
Location - Range: 36E			
Surface water body within 1000' radius of Site: 0			
Surface water body within 1000' radius of Site: 0			
Domestic water wells within 1000' radius of Site: 0			
Domestic water wells within 1000' radius of Site: 0			
Agricultural water wells within 1000' radius of Site: 0			
Agricultural water wells within 1000' radius of Site: 0			
Public water supply wells within 1000' radius of Site: 0			
Public water supply wells within 1000' radius of Site: 0			
Depth (ft) from land surface to ground water (DG): 120			
Depth (ft) of contamination (DC): 5			
Depth (ft) to ground water (DG - DC = DtGW): 115			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or, <200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points			
If Depth to GW >100 feet: 0 points		If >1000' from water source, or, >200' from private domestic water source: 0 points	
Ground water Score: 0		Wellhead Protection Area Scor 0	
Site Rank (1+2+3) = 0		Surface Water Score: 0	
Total Site Ranking Score and Acceptable Concentrations			
Parameter	20 or >	10	0
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

¹100 ppm field VOC headspace measurement may be substituted for lab analysis

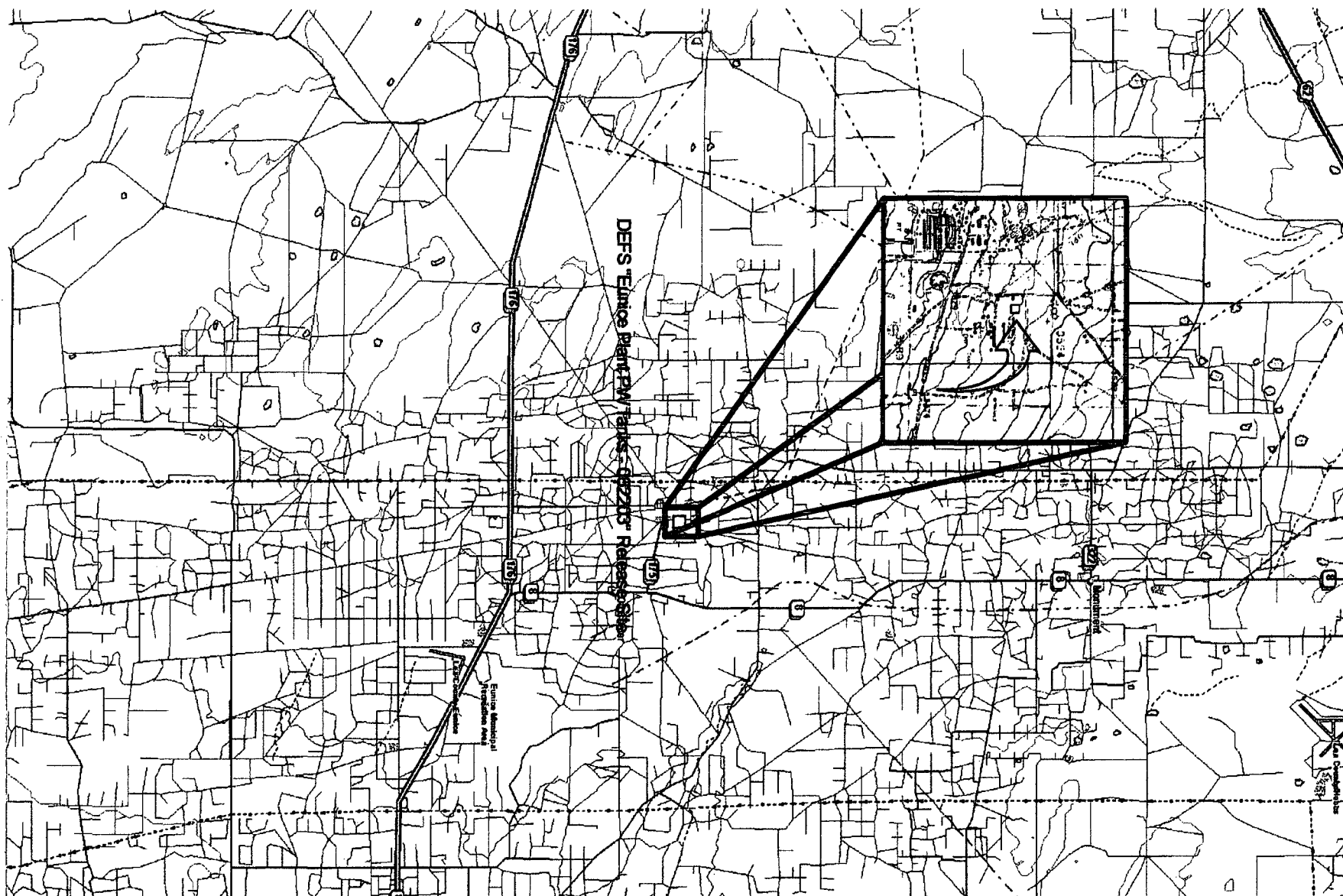


Plate 1
Release Site Location
Duke Energy Field Services
Eunice Plant PW Tanks - 062203

Lea County, New Mexico
UL-H Section 05 T21S R36E
N32° 30' 57.51" W103° 16' 58.94"
Elevation: 3566-ft amsl

DWGBY: John Good

REVISED:

JUNE - 2003

SCALE:

0 Miles 5

SHEET

1 of 1



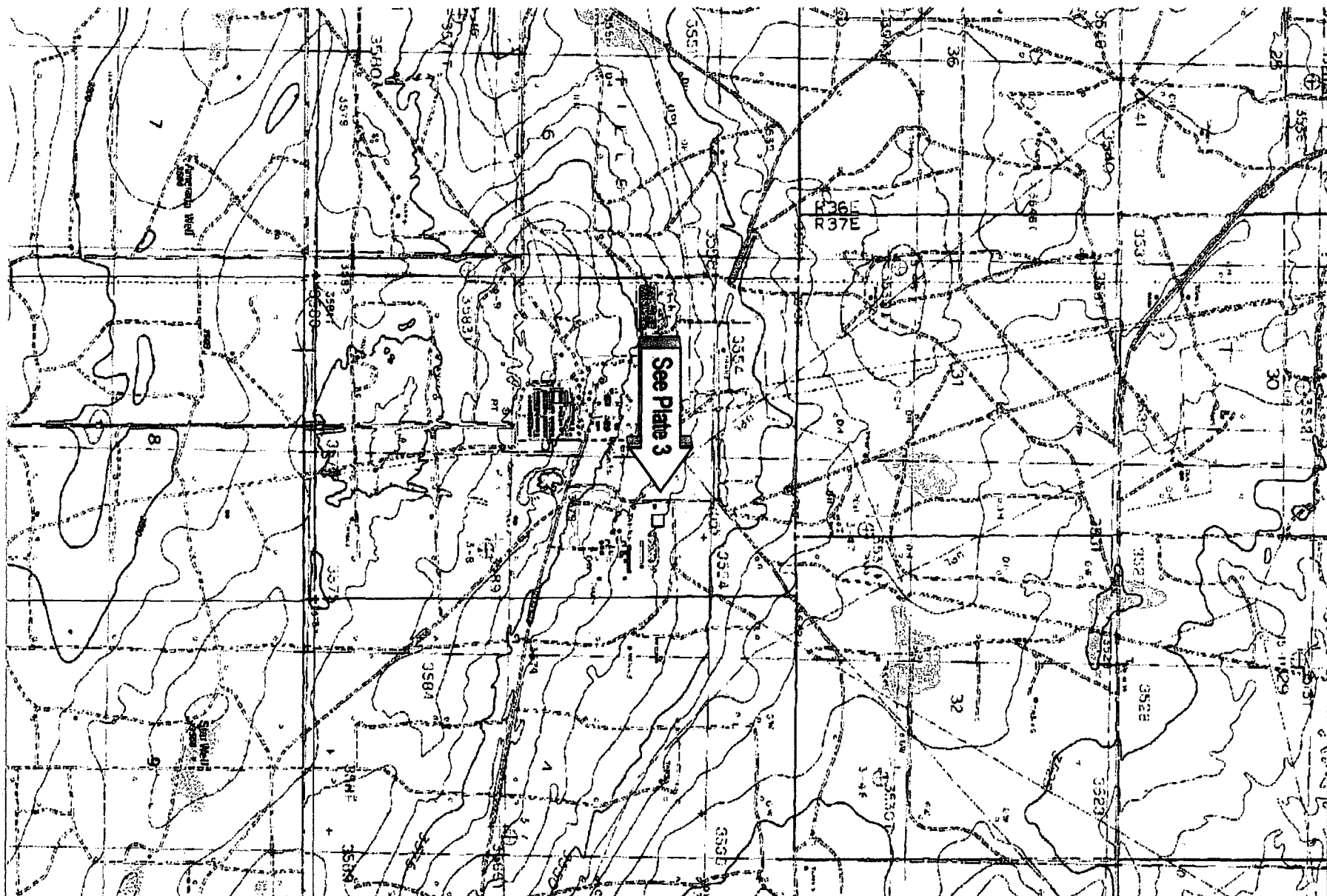


Plate 2
Release Site Topography
Duke Energy Field Services
Eunice Plant PW Tanks - 062203

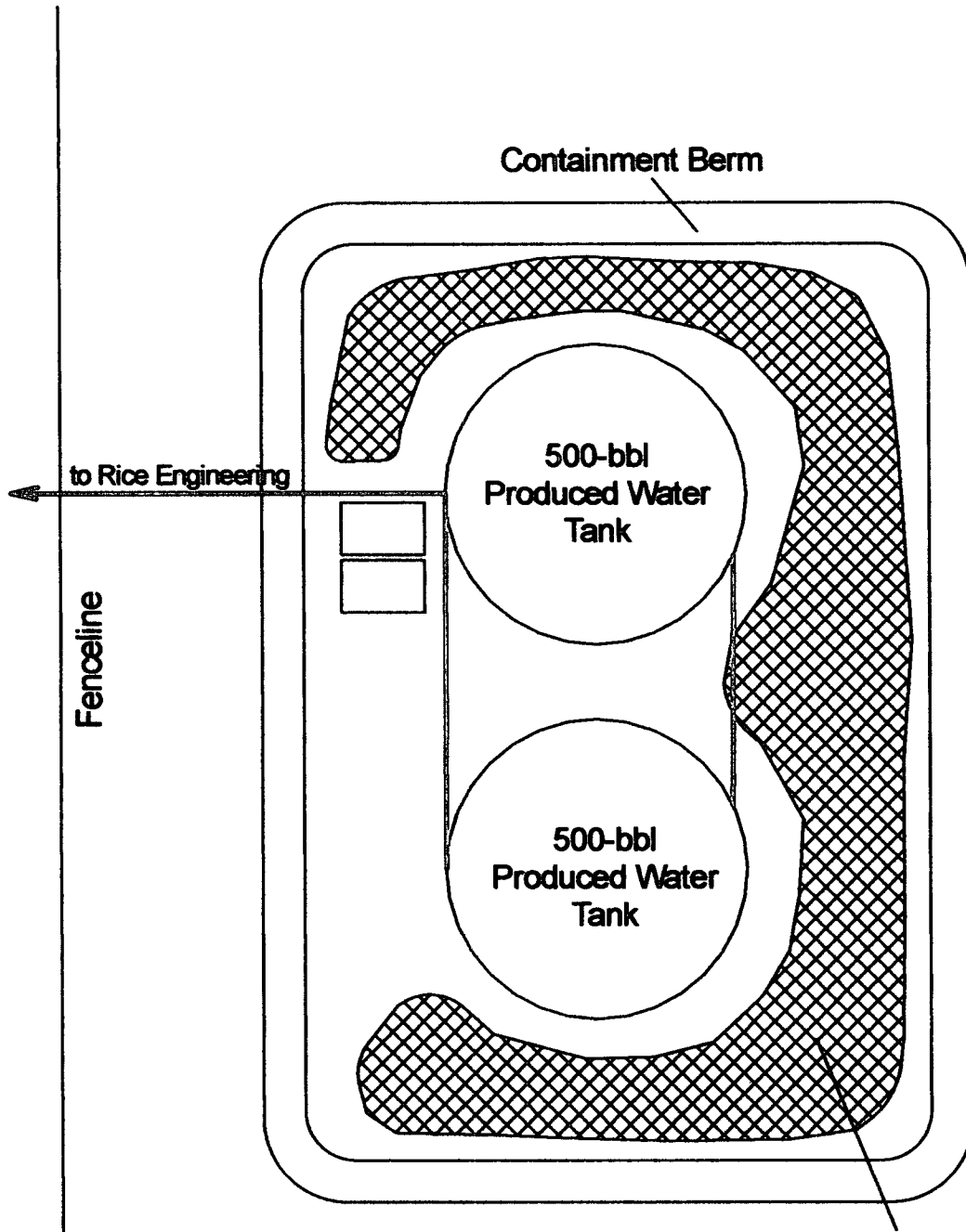
Lea County, New Mexico
UL-H Section 05 T21S R36E
N32° 30' 57.51" W103° 16' 58.94"
Elevation: 3566-ft ams

DWG BY: John Good
June - 2003

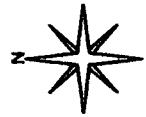
REVISED:

SCALE:





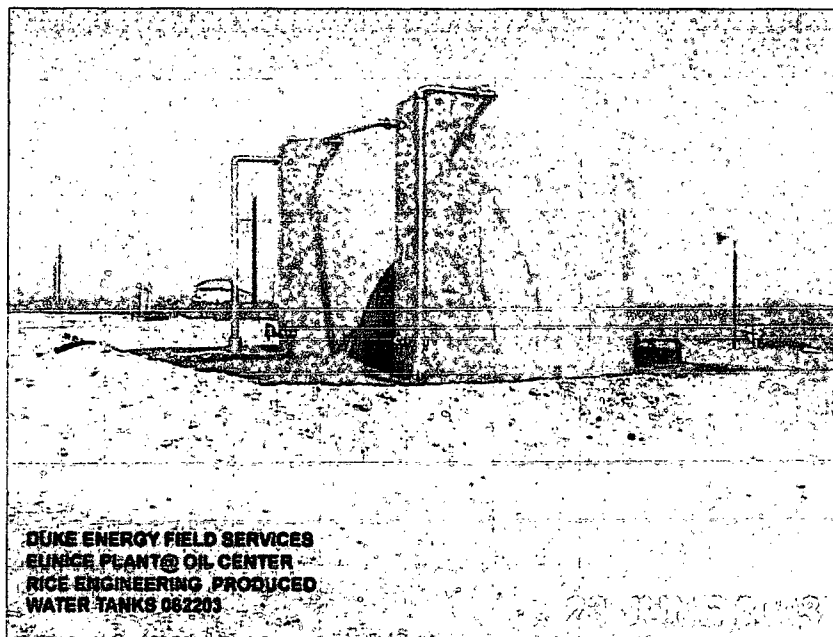
Release Affected Area = ~1,350ft²



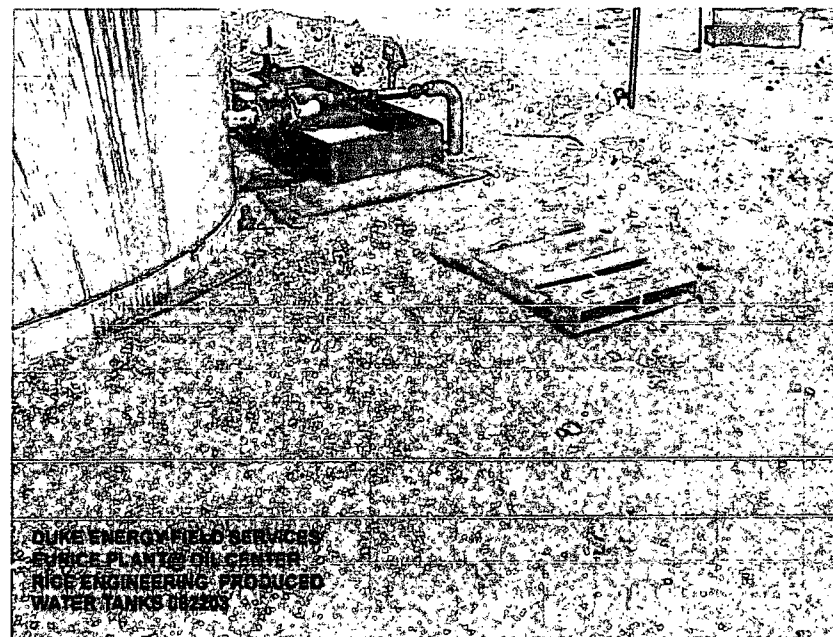
DWG BY: John Good	REVISED: June - 2003	PAGE 1 of 1
		SCALE: 0 25 Feet

Lea County, New Mexico
 UL-H Section 05 T21S R36EN
 32° 30' 57.51" W 103° 16' 58.94"
 "Elevation: 3566-ft ams"

Plate 3
 Release Site GPS Demarcations
 Duke Energy Field Services
 Eunice Plant PW Tanks - 062203



DUKE ENERGY FIELD SERVICES
EUNICE PLANT@ OIL CENTER
RICE ENGINEERING PRODUCED
WATER TANKS 062203

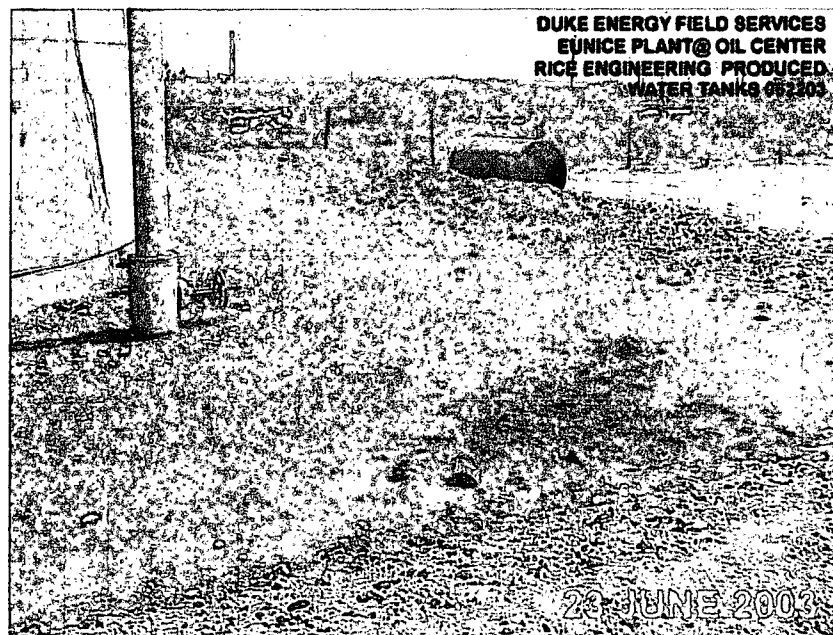


DUKE ENERGY FIELD SERVICES
EUNICE PLANT@ OIL CENTER
RICE ENGINEERING PRODUCED
WATER TANKS 062203



DUKE ENERGY FIELD SERVICES
EUNICE PLANT@ OIL CENTER
RICE ENGINEERING PRODUCED
WATER TANKS 062203

23 JUNE 2003



DUKE ENERGY FIELD SERVICES
EUNICE PLANT@ OIL CENTER
RICE ENGINEERING PRODUCED
WATER TANKS 062203

23 JUNE 2003