Southwest Arkansas
Environmental Improvement Project

Project Overview
April 6, 2004
Fresh Water Spill Symposium
• Approximately 1.6 million wells drilled in Region Six since early days of production.
• Of this number, 600,000 are currently active.
• Some 220,000 of these are marginal wells.

Marginal wells produce less than 10 barrels of oil per day

5/13/2004
Background
Project Goals

- Protect public health and the environment through the use of innovative strategies and partnerships,
  1) To effect positive changes both in issues of environmental concern and spill prevention practices.
  2) To address waste management practices regarding oil pits.
  3) To clean up past and present spills.
  4) To attempt to reduce the likelihood of future reoccurrences of such incidences and finally,
  5) To increase the overall level of compliance awareness in the oil and gas community.
South West Arkansas Environmental Improvement Project

Project Partners

- **Federal Partners**
  - United States Environmental Protection Agency (USEPA)
  - United States Fish & Wildlife Service (USFWS)

- **State Partners**
  - Arkansas Department of Environmental Quality (ADEQ)
  - Arkansas Oil & Gas Commission (AOGC)
  - Arkansas Game & Fish
  - Oil Producers Association of Arkansas (OPAA)
Geographical Considerations

- Six hundred square miles
- Twenty nine identified recon areas
- Nine counties covered in Southwest Arkansas
  - Bradley - Lafayette
  - Calhoun - Miller
  - Columbia - Nevada
  - Hempstead - Union
Implementation Breakout

- Project Management
  - Site Assessment Database
  - Scheduling & Logistics Calendar
  - Geographical Mapping
  - Communications
    (E-mail/Phone Conferencing)

- Voluntary Compliance Initiatives
  - Workshops
  - Self Inspection Checklists
  - Compliance Assistance Guides
  - Internet Information Access

- Implementation Toolbox
  - Promote Voluntary Compliance
  - Announced Inspections
  - Enforcements Referrals
  - Spill Monitoring
  - Federal/State Lead Removal Actions
Operational Parameters

• Phase I – Data Gathering
  – Photographic Analysis
  – Site Assessment/Characterization
  – Responsible Party Identification
  – Site Prioritization

• Phase II – Implementation Strategies
  – Voluntary Compliance Initiatives (VCI)
  – Compliance Inspections
  – Enforcement Referrals
  – Spill Response
  – Site Cleanups
SARTS – PDA Application

Mobile Data Collection Applications

Mobile GIS
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Project Status Report

- **Reconn**
  - Sites Identified 1,901
  - Site Assessments 600+
  - Completed

- **Implementation Activities**
  - Recon of Union & Nevada, Ouachita Counties
  - Conducted 3 Compliance Inspections
  - Completed 26 Sites Restored (VCIs)
  - Federal Lead Removals (Morobay/Waterloo Refinery)
North Pit Before

South Pit Before

Both pits removed and site cleaned up. (see next slide)
Pit removed and replaced with tanks.
Before

After
Before

After

Reclaimed Oil Pit

Area 23 Union

N32° 1.989' W89° 24.189'

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