AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pGRL0928153726

1RP - 2294

ENDEAVOR ENERGY RESOURCES, LP

4/13/2016

SOUTH ENVIRONMENTAL SERVICES, INC.

P.OBOX11064
MIDLAND, TEXAS 79702
OFFICE: (432)682-3547
FAX: (432)682-4182

September 21, 2009

Mr. Geoffrey Leking
Oil Conservation Division, District 1
1625 N. French Dr.
Hobbs, New Mexico 88240

RE: Remediation Work Plan
Peterson "C" Lease, Well No. 1 Leak Site, API: 30-041-20362
Excavation and Remediation of Crude Impacted Soil
Roosevelt County, New Mexico

Mr. Leking,

South Environmental Services, Inc. (SES), on behalf of Endeavor Energy, Inc. (Endeavor Energy), is pleased to submit this Remediation Work Plan to the Oil Conservation Division of New Mexico for the remediation of crude oil impacted soil at the above referenced site.

Scope of Work

SES proposes that the following activities be completed to achieve compliance with Oil Conservation Division of New Mexico (OCD) Statewide Rule for Total Petroleum Hydrocarbons (TPH) (<1,000 mg/kg), Chlorides (<500ppm), and Benzene (<50.0 mg/kg), as set out below:

- Mobilize SES personnel and equipment to the site,
- Excavate approximately 34 cubic yards of impacted soil at a total depth of 24 to 30 inches,
- Blend and treat with bio-enhancement nutrients and surfactants in on-site stockpile,
- Perform excavation bottom hole confirmation sampling event to verify remedial levels, TPH <1,000 mg/kg (ppm), Chlorides <500 mg/kg (ppm), and Benzene <50 mg/kg (ppm),
- Backfill excavation areas with clean caliche, based on verification of remedial goals,

- Perform stockpile Characterization sampling event to verify attainment of remedial levels of TPH (<1,000 ppm), Chlorides (<500 ppm), and Benzene (<50 ppm,

- Preparation of a Site Remediation and Closure Report for submittal to the OCD, as required to resolve the enforcement action regulatory requirements as set out below.

Distribution of Hydrocarbons in Soil

The distribution of hydrocarbons in the unsaturated zone will be determined by utilizing the following techniques:

1. Visual observations of soils during trenching and/or excavation during remediation;
2. Visual observations of soils during the following excavation;
3. Visual observations of soil samples; and,
4. Laboratory analyses of the above samples.

Following excavation of impacted soil, conformation soil samples will be collected from the base of the excavation, based on a minimum of one (1) discrete sample for each 500 square feet of surface area. Following conformation sampling, any area still exhibiting TPH concentrations >1,000 mg/kg will be over-excavated and resample to confirm attainment of remedial goals. All samples will be submitted for laboratory analysis for TPH and/or BTEX, and Chlorides as referenced above.

QA/QC Procedures-Soil Sampling

Samples of subsurface and treated soils will be obtained utilizing proper EPA protocols and/or standards. Representative soil samples will be collected using clean, disposable gloves and clean sampling tools. The soil sample will then be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container will be filled to capacity to limit the amount of head-space present. Each container will be labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling and transportation process.

Soil samples will be delivered to Cardinal Laboratories, New Mexico for TPH, Chlorides, and BTEX analyses using the methods described below. Soil samples will be analyzed for BTEX, Chlorides, and TPH within fourteen days following the collection date.

The soil samples were analyzed as follows:

1. BTEX concentrations in accordance with EPA Method 8021B.
2. TPH concentrations in accordance with modified SW-846.
3. Chloride concentrations in accordance with EPA 300.1

The laboratory will be responsible for proper QA/QC procedures. These procedures will either be transmitted with the laboratory reports or on file at the laboratory.

Regulatory Reporting

Following completion of the remedial actions, in compliance with the criteria set forth in Oil Conservation Division of New Mexico, South Environmental will develop and submit a Site Remediation and Closure Report to the OCD's office in Hobbs, New Mexico.

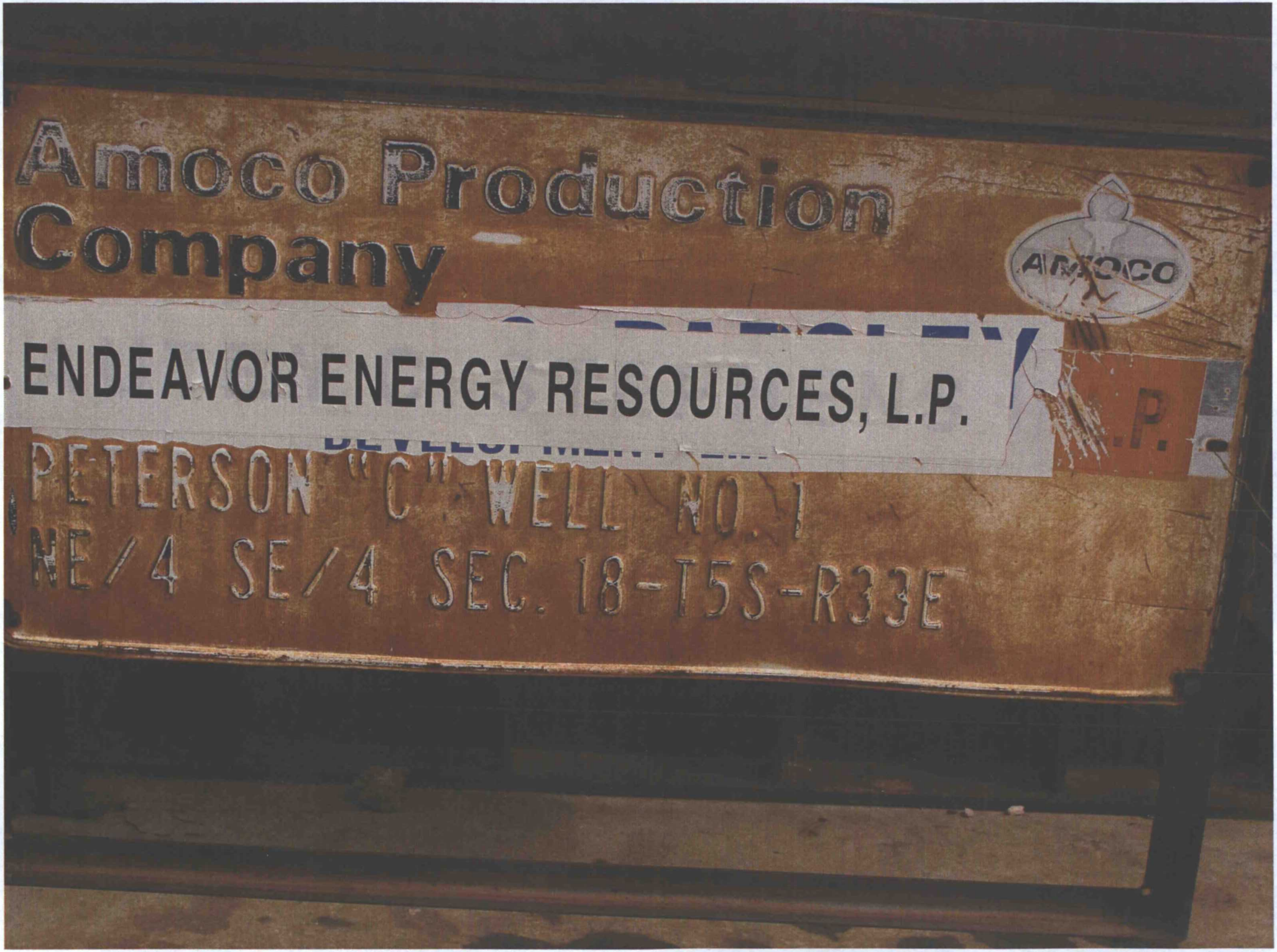
Upon OCD approval, the site will be restored as near as possible to the original site conditions.

Thank you for your assistance in this matter. If you have any questions or require additional information, please contact me at 575-420-1942.

Sincerely,
SOUTH ENVIRONMENTAL SERVICES, INC

Mike Nickell
Sr. Project Manager

Cc: Endeavor Energy, Inc., Midland, Texas


Amoco Production
Company
AMOCO
ENDEAVOR ENERGY RESOURCES, L.P.
PETERSON "C" WELL NO. 1
NE/4 SE/4 SEC. 18-T5S-R33E

September 1, 2010

Mr. Geoffrey Leking
Oil Conservations Division, District 1
1625 N. French Dr.
Hobbs, New Mexico 88240

Re: Remediation Work Plan
Peterson "C" Lease, Well No. 1 Leak Site, AIP: 30-041-20362
Excavation and Remediation of Crude Impacted Soil
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South Environmental Services, Inc. (SES), on behalf of Endeavor Energy, Inc. (Endeavor Energy), is please to submit this Remediation Work Plan to the Oil Conservation Division of New Mexico (OCD) for the remediation of crude oil impacted soil at the above reference site.

Scope of Work

SES proposes that the following activities be completed to achieve compliance with Oil Conservation Division of New Mexico Statewide Rule for Total Petroleum Hydrocarbons (TPH) (<1,000 mg/kg), Chlorides (<500ppm), and Benzene (<50.0 mg/kg), as set out below:

- Mobilized SES personnel and equipment to the site,
- Excavate approximately 1,462 cubic yards of impacted soil at a total depth of 36 inches,
- Blend and treat with bio-enhancement nutrients and surfactants in onsite stockpile,
- Perform excavation bottom hole confirmation sampling event to verify remedial levels, TOH <1,000 mg/kg (ppm), Chlorides <500 mg/kg (ppm), and ~~Benzene < 50 mg/kg~~ <10mg/kg (ppm), BTEX < 50mg/kg
- Backfill excavation areas with clean caliche, based on verification of remedial goals,
- Perform stockpile Characterization sampling event to verify attainment of remedial levels of TPH (<1,000 ppm), Chlorides (<500 ppm), and Benzene (<50 ppm),
- Preparation of a Site Remediation and Closure Report for submittal to the OCD, as required to resolve the enforcement action regulatory requirements as set out below.

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1. Visual observations of soil during trenching and/or excavation during remediation;
2. Visual observations of soil during the following excavation;
3. Visual observations of soil samples; and
4. Laboratory analyses of the above samples.

Following excavation of impacted soil, conformation soil samples will be collected from the base of the excavation, based on a minimum of one (1) discrete sample for each 500 square feet of surface feet of surface area. Following conformation sampling, any area still exhibiting TPH concentrations >1,000 mg/kg will be over-excavated and resample to confirm attainment of remedial goals. All samples will be submitted for laboratory analysis for TPH and/or BTEX, and Chlorides as referenced above.

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Soil samples will be delivered to Xenco Laboratories, The Environmental Lab of Odessa, Texas for TPH, Chlorides, and BTEX analysis using the methods described below. Soil samples will be analyzed for BTEX, TPH, and Chlorides within fourteen days following the collection date.

The soil samples were analyzed as follows:

1. BTEX concentrations in accordance with EPA Method 8021B.
2. TPH concentrations in accordance with modified ~~SW-846.~~ 8015
3. Chlorides concentrations in accordance with EPA 300.1

The laboratory will be responsible for proper QA/QC procedures. These procedures will either be transmitted with the laboratory reports or on file at the laboratory.

Regulatory Reporting

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Upon OCD approval, the sire will be restored as near as possible to the original site conditions.

Thank you for your assistance in this matter. If you have any questions or require additional information, please contact me at 432-425-8454.

Sincerely,
SOUTH ENVIRONMENTAL SERVICES, INC

Ronnie W. Nickell
Sr. Project Manager

Cc: Endeavor Energy, Inc., Midland, Texas