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APPROVALS

YEAR(S):

1993-1992



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

November 16, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

ANITA LOCKWOOD
CABINET SECRETARY

CERTIFIED MAIL

RETURN RECEIPT NO. P-667-242-409

Mr. B.D. Shaw
Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

**RE: PROPOSED ADDITION OF RECOVERY WELL
AMOCO SAN JUAN GRAVEL A-1E WELL SITE
FARMINGTON, NEW MEXICO**

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco's November 11, 1993 "SAN JUAN GRAVEL A-1E WELL SITE LABORATORY REPORT - INJECTION SIDE" which was submitted to OCD on November 15, 1993 by Amoco's consultant Envirotech, Inc. This document contains Amoco's recommendation to install an additional ground water recovery well for the remediation of ground water contaminants related to Amoco's disposal practices at the San Juan Gravel A-1E well site.

The recommendations contained in the above referenced document **are hereby approved with the following condition:**

1. Amoco will notify OCD at least 72 hours in advance of installation of the recovery well such that OCD may have the opportunity to witness the activity.

Please be advised that OCD approval will not limit Amoco to the proposed work plan should the remediation system fail to adequately contain and remediate petroleum contaminated ground water related to Amoco activities. In addition, OCD approval does not relieve Amoco of liability for compliance with any other federal, state, city and county laws and/or regulations.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec Office



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

May 24, 1993

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-344

Mr. B.D. Shaw
Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

**RE: GROUND WATER MONITORING PLAN
AMOCO SAN JUAN GRAVEL A-1E WELL SITE
FARMINGTON, NEW MEXICO**

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco's March 1993 "GROUNDWATER PLAN, AMOCO PRODUCTION COMPANY, SAN JUAN GRAVEL A-1E PRODUCTION TANK PIT AREA, SE/4, NE/4 (H) SECTION 21, T29N, R13W, NMPM, FARMINGTON, SAN JUAN COUNTY, NEW MEXICO" which was submitted to OCD on April 6, 1993 by Amoco's consultant Envirotech, Inc. The plan contains the results of Amoco's investigation of the extent of ground water contamination related to the San Juan Gravel A-1E well site and monitoring of effluent from the ground water remediation system.

The recommendations contained in the above referenced document are hereby approved with the following conditions:

1. Effluent from the air stripper will be sampled for polynuclear aromatic hydrocarbons on a semiannual basis.
2. Ground water from the recovery well will be sampled and analyzed:
 - a. Quarterly for concentrations of benzene, toluene, ethylbenzene and xylenes, and;
 - b. Semiannually for polynuclear aromatic hydrocarbons.


Mr. B.D. Shaw
May 25, 1993
Page 2

3. The quarterly reports will include:
 - a. A potentiometric map showing the hydraulic gradient of the ground water.
 - b. Tables listing the results of all past and present sampling events for each well and the air stripper effluent .
4. Quarterly reports containing all monitoring results obtained during the quarter will be submitted to OCD on January 1, April 1, July 1 and October 1 of the respective year.
5. Amoco will notify OCD at least 72 hours in advance of sampling events such that OCD may have the opportunity to witness the activities and/or split samples

Please be advised that OCD approval will not limit Amoco to the proposed work plan should the remediation system fail to adequately contain and remediate petroleum contaminated ground water related to Amoco activities. In addition, OCD approval does not relieve Amoco of liability for compliance with any other federal, state, city and county laws and/or regulations.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec Office



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

June 29, 1992

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-690-155-070

Mr. B.D. Shaw
Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

**RE: REMEDIATION PLAN
SAN JUAN GRAVEL A-1E LEASE SITE**

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco's June 1992 "PROPOSED REMEDIAL ACTION PLAN, AMOCO PRODUCTION CORPORATION, SAN JUAN GRAVEL A-1E PRODUCTION TANK PIT AREA, SE/4, NE/4 (H) SECTION 21, T29N, R13W, NMPM, FARMINGTON, SAN JUAN COUNTY, NEW MEXICO". The plan details Amoco's proposal for remediating petroleum contaminated ground water at Amoco's San Juan Gravel A-1E lease site.

The OCD approves of the above referenced remediation plan with the following conditions:

1. Amoco will sample the effluent from the air stripper on a monthly basis and analyze the effluent for volatile aromatic hydrocarbons, polynuclear aromatic hydrocarbons and major cations and anions using appropriate EPA analytical methods. Amoco will submit the analytical results to OCD on a quarterly basis.
2. Amoco will submit the analytical results of all ground water sampling from the monitor wells to date and a ground water monitoring plan within 60 days of receipt of this letter.

The OCD commends Amoco for their initiative in addressing remediation of contaminated ground water and soils that resulted

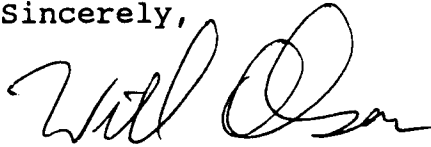
Mr. B.D. Shaw
June 29, 1992
Page 2

from past disposal practices at the Amoco San Juan Gravel A-1E lease site.

Please be advised that OCD approval will not limit Amoco to the proposed work plan should the remediation system fail to adequately contain and remediate petroleum contaminated ground water related to Amoco activities. In addition, OCD approval does not relieve Amoco of liability for compliance with any other federal, state, city and county laws and/or regulations.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,

A handwritten signature in black ink, appearing to read "Will Olson", written over a horizontal line.

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec Office