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**APPROVALS**

**YEAR(S):**

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**

Governor

**Jennifer A. Salisbury**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

June 7, 2001

**CERTIFIED MAIL**

**RETURN RECEIPT NO. 3771-7354**

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

**RE: CASE #3R0027  
PIT CLOSURE REPORT  
JAQUEZ COM E#1 WELL SITES**

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has reviewed BP Amoco's February 5, 2001 "JAQUEZ GC E#1 – ABANDONED PIT – SUBSEQUENT REMEDIATION REPORT, UNIT F, SEC. 6, T29N, R9W, SAN JUAN CO., N.M." which was submitted on behalf of BP Amoco by their consultant Blagg Engineering, Inc. These documents contain the results of BP Amoco's investigation and remediation actions related to BP Amoco's former abandoned production pit at the Jaquez Com E#1 wells site north of Blanco, New Mexico. The documents also requests closure of the investigation and remediation actions.

The pit closure/remediation activities for the site listed below are **approved**.

1. Jaquez GC E#1 (Abandoned pit) Unit F, Sec. 6, T29N, R09W

Please be advised that OCD approval does not relieve BP Amoco of liability if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve BP Amoco of responsibility for compliance with any other federal, state, tribal or local laws and regulations.

If you have any questions or comments, please call me at (505) 476-3491.

Sincerely,

A handwritten signature in black ink, appearing to read "Will Olson". The signature is fluid and cursive, with the first name "Will" and last name "Olson" clearly distinguishable.

William C. Olson  
Hydrologist  
Environmental Bureau

xc:   OCD Aztec District Office  
      Nelson Velez, Blagg Engineering, Inc.  
      John Jaquez



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON  
Governor  
Jennifer A. Salisbury  
Cabinet Secretary

Lori Wrotenbery  
Director  
Oil Conservation Division

December 7, 2000

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 5051-3938**

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

**RE: REMEDIATION WORK PLAN  
JAQUEZ GC E#1 ABANDONED PIT**

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has reviewed BP Amoco's October 4, 2000 "REMEDIATION WORK PLAN - BP AMOCO'S JAQUEZ GC E#1 - ABANDONED PIT, UNIT O, SEC. 6, T29N, R9W, SAN JUAN CO., N.M." which was submitted on behalf of BP Amoco by their consultant Blagg Engineering, Inc. This document contains BP Amoco's plan to conduct additional investigations of the "abandoned pit" at BP Amoco's Jaquez GC E#1 well site.

The above referenced work plan is **approved** with the following conditions:

1. All soil and ground water samples shall be obtained and analyzed using EPA approved methods and quality assurance/quality control (QA/QC).
2. BP Amoco shall submit a report on the investigations to the OCD Santa Fe Office by February 7, 2001 with a copy provided to the OCD Aztec District Office.
3. BP Amoco shall notify the OCD at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit BP Amoco to the proposed work plan should the plan fail to determine the extent of contamination related to BP Amoco's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve BP Amoco of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

A handwritten signature in cursive script, appearing to read "Will Olson".

William C. Olson

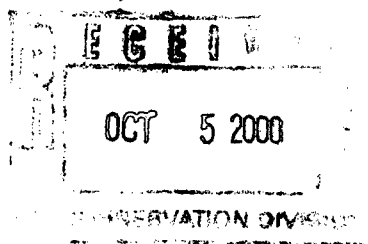
Hydrologist

Environmental Bureau

xc: Denny Foust, OCD Aztec District Office  
Nelson Velez, Blagg Engineering, Inc.  
John Jaquez

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505)632-1199 Fax: (505)632-3903



October 4, 2000

Mr. Bill Olson - Hydrologist  
State of New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

**RE: REMEDIATION WORK PLAN - BP AMOCO'S JAQUEZ GC E #1 - ABANDONED PIT  
UNIT O, SEC. 6, T29N, R9W, SAN JUAN CO., N.M.**

Dear Mr. Olson:

Blagg Engineering, Inc. (BEI), on behalf of BP Amoco, respectfully submits this work plan required by the New Mexico Oil Conservation Division (NMOCD) as addressed in the letter dated August 31, 2000 (attached). The following statements disclose known or possible findings for the pit in question:

According to my conversation with Paul Velasquez of Paul & Sons, Inc. on September 20, 2000, soils from the aforementioned pit had been excavated between December, 1993 and March, 1994. It is estimated that between 60-100 cubic yards of soil were removed and then transported to BP Amoco's Nye GC B # 1E well site (Unit F, Sec. 7, T29N, R9W). However, BEI does not possess any closure verification records to confirm this activity.

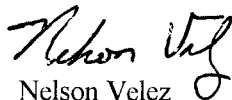
Based on the information mentioned above, the following steps are suggested to address closure of the named pit. It should be noted that any future activity at the site will necessitate landowner permission.

1. Utilize either a mobile drill rig (i.e. BEI's Earthprobe 200) or a backhoe to collect soil and groundwater samples at or in close proximity to the TH-1 test hole documented on the attached site assessment conducted on March 17, 1993.
2. Field screen soil sample(s) with a calibrated organic vapor meter (OVM).
3. Collect and submit soil sample(s) to a qualified laboratory for testing of at least total petroleum hydrocarbon (TPH) analysis and possibly for benzene, toluene, ethylbenzene, and total xylenes (BTEX).
4. Collect and submit a groundwater sample to a qualified laboratory for testing of BTEX analysis.

Since groundwater flow movement had been previously established and documented at the site to be in the south to southeast direction (refer to initial report dated January 26, 2000), BEI is confident that the information collected during the March 17, 1993 site assessment investigation is adequate for the down gradient delineation of the contaminants encountered at TH-1 test hole.

If you have questions, please contact either myself or Jeffrey C. Blagg. Thank you for your cooperation and assistance.

Sincerely,  
**BLAGG ENGINEERING, INC.**

  
Nelson Velez  
Staff Geologist

cc: Denny Foust, Environmental Geologist, New Mexico Oil Conservation Division, Aztec, NM  
Buddy Shaw, Environmental Coordinator, BP Amoco, Farmington, NM

NV/inv

JAQ-EI-4.LTR

# ENVIROTECH Inc.

5798 US HWY. 84, FARMINGTON, NM 87401  
(505) 832-0815

94805

## FIELD REPORT: SITE ASSESSMENT

JOB No: 92140  
PAGE No: 1 of 2

PROJECT: PIT ASSESSMENTS & CLOSURE  
CLIENT: AMOCO PRODUCTION COMPANY  
CONTRACTOR: ENVIROTECH INC.  
EQUIPMENT USED: EXTEND-A-HOE # 538

DATE STARTED: 3/16/93  
DATE FINISHED: 3/17/93  
ENVIRO. SPCLT: NV  
OPERATOR: BW  
ASSISTANT: JC

LOCATION: LSE: JACQUEZ WELL: GC E1 QD: (0) SW 1/4 SE 1/4  
SEC: 6 TWP: 29N RNG: 9W PM: NM CNTY: SAG TWA ST: NM PIT: ABANDONED

LAND USE: RANGE/RESIDENTIAL

SURFACE CONDITIONS: CLEARED OUT, NO VEGETATION, LEACHED (WHITE)

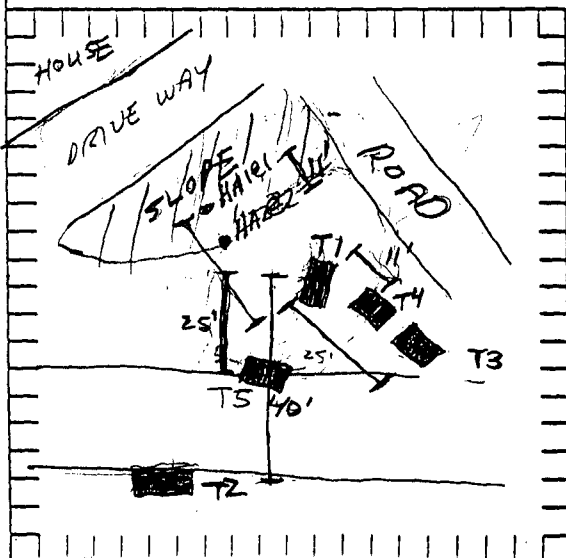
FIELD NOTES & REMARKS: SOIL CONSISTS OF BLACK MOIST SAND @ T1 FROM 1' TO APPROX. 4 1/2' INTERVAL. STRONG PETROLEUM ODOR. DUE TO TEST HOLE BEING DUG TOO DEEP INITIALLY, CRAVING IN OCCURRED. UNABLE TO COLLECT GROUNDWATER SAMPLE @ T1. PLUME AREA APPEARS TO BE ISOLATED TO THE ORIGINAL PIT LOCATION. APPROXIMATE VOLUME OF CONTAMINATION EQUALS 25' X 30' X 4' (111 CUBIC YARDS).  
HAZ-1 = 0.00 PPM HAZ-2 = 0.6 PPM  
SEE SITE DIAGRAM FOR PIT LOCATION APPROXIMATED FROM THE JACQUEZ HOUSE.

SAMPLE INVENTORY:		
SAMPL ID:	SAMPL TYPE:	LABORATORY ANALYSIS:
T1@1.5	SOIL	BTEX/TPH
T1@GW	WATER	ACETALDEHYDE/FORMAL
T2@3'	SOIL	TPH
T2@GW	WATER	TPH
T2@GW	WATER	BTEX
T3@3'	SOIL	TPH/BTEX
T3@GW	WATER	TPH
T3@GW	WATER	BTEX

SCALE



FEET  
SITE DIAGRAM



### TEST HOLE LOGS:

TH#:	1	2	3	4			
SOIL TYPE:	SMPL OVM/ TYPE: TPH	SOIL TYPE:	SMPL OVM/ TYPE: TPH	SOIL TYPE:	SMPL OVM/ TYPE: TPH	SOIL TYPE:	SMPL OVM/ TYPE: TPH
1	BLACK MOIST	MOIST BROWN	BROWN MOIST	GRAY MOIST			
2	SP █ 666			SP █ 20.6			
3		SP █ 0.6	SP █ 0.9				
4	GW 0.0	TD - 4'	TD - 4'	TD - 3 1/2'			
5	BROWN - GLO SATURATED	GW - 3 1/2'	GW - 3 1/2'	GW - 3 1/2'			
6	GW █ 0.6						
7							
8							
9	TD - 4'						
	GW - 5'						



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Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

August 31, 2000

**CERTIFIED MAIL**

**RETURN RECEIPT NO. 5051-3525**

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

**RE: PIT CLOSURE REPORTS  
JAQUEZ COM C#1 AND E#1 WELL SITES**

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has completed a review of BPAmoco's June 16, 2000 "JAQUEZ GC C#1/E#1 - SUBSEQUENT REMEDIATION REPORT, UNIT F, SEC. 6, T29N, R9W, SAN JUAN CO., N.M." and January 26, 2000 "JAQUEZ GC C#1/E#1 - SOIL AND GROUNDWATER REMEDIATION REPORT, UNIT F, SEC. 6, T29N, R9W, SAN JUAN CO., N.M." which were submitted on behalf of BPAmoco by their consultant Blagg Engineering, Inc. These documents contain the results of BPAmoco's investigation, remediation and monitoring actions related to BPAmoco's former production pits at the Jaquez Com C#1 & E#1 wells sites north of Blanco, New Mexico. The documents also requests closure of the investigation and remediation actions for each pit site except the Jaquez GC E#1 abandoned pit.

The pit closure/remediation activities for the sites listed below are **approved**.

- |   |                            |
|---|----------------------------|
| 1. Jaquez GC C#1 (Abandoned pit)            | Unit O, Sec. 6, T29N, R09W |
| 2. Jaquez GC C#1 (Tank drain pit)           | Unit O, Sec. 6, T29N, R09W |
| 3. Jaquez GC C#1 (Separator pit)            | Unit O, Sec. 6, T29N, R09W |
| 4. Jaquez GC C#1 (Blow pit)                 | Unit O, Sec. 6, T29N, R09W |
| 5. Jaquez GC E#1 (Blow pit)                 | Unit O, Sec. 6, T29N, R09W |
| 6. Jaquez GC E#1 (Abandoned compressor pit) | Unit O, Sec. 6, T29N, R09W |

Please be advised that OCD approval does not relieve BPAmoco of liability if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve BPAmoco of responsibility for compliance with any other federal, state, tribal or local laws and regulations.



A review of the site assessment information for the Jaquez GC E#1 abandoned pit shows that contaminants are present at concentrations in excess of the OCD's recommended remediation levels. The OCD requires that BPAmoco provide a work plan to address remaining contamination in this pit. The work plan shall be submitted to the OCD Santa Fe Office by October 6, 2000 with a copy provided to the OCD Aztec District Office.

If you have any questions or comments, please call me at (505) 827-7154.

Sincerely,

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William C. Olson  
Hydrologist  
Environmental Bureau

xc:   OCD Aztec District Office  
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| 3. Jaquez GC C#1 (Separator pit)            | Unit O, Sec. 6, T29N, R09W |
| 4. Jaquez GC C#1 (Blow pit)                 | Unit O, Sec. 6, T29N, R09W |
| 5. Jaquez GC E#1 (Blow pit)                 | Unit O, Sec. 6, T29N, R09W |
| 6. Jaquez GC E#1 (Abandoned compressor pit) | Unit O, Sec. 6, T29N, R09W |

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