DISTRICT II P.O. Drawer DD, Anesia, NM 88210

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

REQUEST FOR ALLOWABLE AND AUTHORIZATION

|  | TO T                | RANSPO                   | RT OIL                | AND NA                 | rural G                        | AS               | N. S                      |                  |            |
|--|---------------------|--------------------------|-----------------------|------------------------|--------------------------------|------------------|---------------------------|------------------|------------|
| Operator AMOCO PRODUCTION COMPAN   | ΙΥ                  |                          |                       |                        |                                | Well A<br>3004   | PI No.<br>15265590        | 0                |            |
| Address<br>P.O. BOX 800, DENVER, C   | COLORADO 80         | 201                      |                       |                        |                                |                  |                           |                  |            |
| Cason(s) for Filing (Check proper box)  Rew Well  Recompletion  Change in Operator   | Chang               | e in Transporte          |                       | Odh                    | n (Please expi                 | lain)            |                           |                  |            |
| change of operator give name   |                     |                          |                       |                        |                                |                  |                           |                  |            |
| nd address of previous operator  | ND I FACE           |                          |                       |                        |                                |                  |                           |                  |            |
| I. DESCRIPTION OF WELL A<br>Lease Name<br>SCHWERDTFEGER A LS   |                     | No. Pool Nam<br>A BLANC  | e, Includia<br>O MESA | g Formation<br>VERDE ( | PROŘATEI                       | Kind o           | ( Lease<br>Federal or Fee |                  | ase No.    |
| Location D Unit Letter   | 820                 | Feet From                | The                   | FNL Line               | and81                          | 10 Fee           | et From The               | FWL              | Line       |
| Section 31 Township  | 28N                 | Range                    | 8W                    | , NI                   | ирм,                           | SAN              | JUAN                      |                  | County     |
| II. DESIGNATION OF TRANS   | SPORTER OF          | OIL AND                  | NATUI                 | RAL GAS                | e address to w                 | hich approved    | copy of this f            | orm is to be see | nd)        |
| Name of Authorized Transporter of Oil  MERIDIAN OIL INC  |                     | or Dry G                 |                       |                        |                                | STREET .         |                           |                  |            |
| EL PASO NATURAL GAS COM  If well produces oil or liquids,  jve location of tanks.  | Unit Sec.           | Twp.                     | Rge.                  |                        |                                | EL PASO;<br>Whee | 7 <sup>-TX - 79</sup>     | 978              |            |
| f this production is commingted with that for<br>V. COMPLETION DATA  | rom any other least | or pool, give            | commingli             | ng order sum           | ber:                           |                  |                           |                  |            |
|  | (X) Joil 1          | Well Ga                  | s Well                | New Well               | Workover                       | Deepen           | Plug Back                 | Same Res'v       | Diff Res'v |
| Designate Type of Completion -<br>Date Spudded   | Date Compl. Reac    | ly to Prod.              |                       | Total Depth            | l                              | .1               | P.B.T.D.                  | l                | . t        |
| Elevations (DF, RKB, RT, GR, etc.)   | Name of Producin    | g Formation              |                       | Top Oil/Get            | Pay                            |                  | Tubing Dep                | th               |            |
| Perforations   | <u> </u>            |                          |                       |                        |                                |                  | Depth Casin               | ig Slice         |            |
| HOLE SIZE  |                     | NG, CASING<br>TUBING SIZ |                       | CEMEN                  | EB                             | EIA              |                           | SACKS CEMI       | ENT        |
|  |                     | ····                     |                       | <b>U</b>               | VIII                           | 2 3 1990         | رض ا                      |                  |            |
|  |                     |                          |                       |                        | ,,,,,,                         | ON. D            | <b>V</b> .                |                  |            |
| V. TEST DATA AND REQUES OIL WELL (Test must be after re  | T FOR ALLC          | WABLE                    |                       |                        | L                              | IST. 3           | a damil or be             | for full 24 hou  | ee 1       |
| OIL WELL (Test must be after re<br>Date First New Oil Run To Tank  | Date of Test        | ume of load oil          | and musi              | Producing M            | exceed top a<br>ethod (Flow, j | pump, gas lýt, e | ic.)                      | jor jun 14 nom   |            |
| Length of Test   | Tubing Pressure     |                          |                       | Casing Press           | ure                            |                  | Choke Size                |                  |            |
| Actual Prod. During Test   | Oil - Bbls.         |                          |                       | Water - Bbls           |                                |                  | Gas- MCF                  |                  |            |
| GAS WELL Actual Prod. Test - MCT/D   | Leagth of Test      |                          |                       | Bbls. Conde            | neate/MMCF                     |                  | Gravity of                | Condensate       | ·          |
| Essting Method (pitot, back pr.)   | Tubing Pressure     | (Shut-in)                |                       | Casing Press           | ure (Shut-in)                  |                  | Choke Size                |                  |            |
| VI. OPERATOR CERTIFICATE OF COMPLIANCE  I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.  Signature HOUR W. Whaley, Staff Admin. Supervisor Pinited Name  July 5, 1990  303-830-4280 Telephone No. |                     |                          | a Approv              | red                    | AUG 2 0<br>L.>. &              | DIVISIO<br>1990  |                           |                  |            |

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleted wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
4) Separate Form C-104 must be filed for each pool in multiply completed wells.

SUBMIT 1 COPY TO APPROPRIATE

DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

| District I                         |
|------------------------------------|
| P.O. Box 1980, Hobbs, NM           |
| District II                        |
| P.O. Drawer DD, Artesia, NM \$8211 |
| istrict III                        |

000 Rio Brazos Rd, Aztec, NM \$7410

Blow - OK - 12/13/01 Phy - OK - state of New Mexico Energy, Minerals and Natural Resources Department

Prod-OK Sep-OK OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-20

PIT REMEDIATION AND CLOSURE

|   |   |              | (E) 22                |  |             |
|---|---|--------------|-----------------------|--|-------------|
|   |   |              |                       |  |             |
| Operator:   | Amoco Production Company  |              | Telephone:            | (505) - 326-92                             | 200         |
| Address:  | 200 Amoco Court, Farmington   | , New Mexico | 87401                 |  |             |
| Facility Or:  | SCHWERDTFEGER A L   | s # 10A      | •                     | · · · · · · · · · · · · · · · · · · ·      |             |
|   | or Qtr/Qtr Sec D Se   | c 31 T28 N R | 8 W County_           | SAN JUAN                                   | <del></del> |
| Pit Type: Sepa  | rator Dehydrator O  | ther BW      | $\omega$              | ·····                                      |             |
| Land Type: BL   | $M \times X$ , State, Fee   | , Other      |                       |  |             |
| Pit Location:<br>(Attach diagram)   | Pit dimensions: length Reference: wellhead X Footage from reference: Direction from reference | , other      | <br>grees <u>X</u> Ea |  | <br>Ł       |
| Depth To Groun (Vertical distance contaminants to some high water elevate ground water) | e from  | 50 feet to   | 99 feet               | (20 points)<br>(10 points)<br>(0 Points)   |             |
| domestic water so   | ction Area:<br>et from a private<br>ource, or; less than<br>.1 other water sources)           |              |                       | (20 points)<br>(0 points)                  |             |
|   | nce to perennial<br>vers, streams, creeks,  |              | 1000 feet             | (20 points)<br>(10 points)<br>t (0 points) | 0           |
|   |   | RANKING SC   | ORE (TOTAL )          | POINTS):                                   | 10          |

| Date Remediation St   | arted:             | Date Completed:                       | 8-2-94         |
|---|--------------------|---------------------------------------|----------------|
| Remediation Method:   | Excavation X       | <del></del>                           |                |
| (Check all appropriate sections)  | Landfarmed X       |                                       |                |
|   | Other              |                                       | <del></del>    |
|   | <del></del>        |                                       |                |
| Remediation Locatio<br>(ie. landfarmed onsite,<br>name and location of<br>offsite facility) | n: Onsite X Off    | site                                  | -              |
| General Description   | Of Remedial Action | 1:                                    |                |
| Excavation  | on                 | ··· , · ·                             |                |
|   |                    |                                       | <del></del>    |
|   |                    | · · · · · · · · · · · · · · · · · · · |                |
|   |                    |                                       |                |
| nmoch letter  | correspondence     | 1                                     | 2-13-96        |
| Ground Water Encoun   | tered: No X        | Yes Depth                             |                |
|   |                    |                                       |                |
| Final Pit: Closure Sampling: (if multiple samples,  | Sample location    | see Attached Documents                |                |
| attach sample results and diagram of sample   | Sample depth       | 9'                                    |                |
| locations and depths)   | Sample date8       | -2-99 Sample time                     |                |
|   | Sample Results     |                                       | -              |
|   | Benzene(ppm)       |                                       |                |
|   | Total BTEX(pr      | om)                                   |                |
|   | Field headspa      | ace(ppm) <u>8</u>                     |                |
|   | трн 570            |                                       |                |
|   |                    | •                                     |                |
| Ground Water Sample   | : Yes No           | (If yes, attach sample                | results)       |
| I HEREBY CERTIFY TH<br>OF MY KNOWLEDGE AND  |                    | ABOVE IS TRUE AND COMPLET             | TE TO THE BEST |
| DATE 8/5/44   | 1                  | RIIN SI                               |                |
| SIGNATURE SSS   | au AND TITI        | NAME Buddy D. S.                      | pordinator     |

INITIAL RESULTS TO BOB MICCOY 8-3-99 REO BLAGG ENGINEERING, INC. LOCATION NO: 80038 CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: 1630 (505) 632-1199FIELD REPORT: PIT CLOSURE VERIFICATION LOCATION: NAME: SCAWERS TFEBER A LS WELL #: LOA PIT: BLOW DATE STARTED: DATE FINISHED: 8-2-94 QUAD/UNIT: D SEC: 31 TWP: 28N RNG: 8W BM: NM CNTY: SJ ST: NM ENVIRONMENTAL RES QTR/FOOTAGE: 820 FNL 810 FULCONTRACTOR: PAUL + SONS SPECIALIST: SOIL REMEDIATION: EXCAVATION APPROX. \_ 15 FT. x \_ 15 FT. x \_ 8 FT. DEEP. DISPOSAL FACILITY: ON SITE CUBIC YARDAGE: 65 FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 15 FEET N65'E FROM WELLHEAD. DEPTH TO GROUNDWATER: 750 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: > 1000 NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM SOIL AND EXCAVATION DESCRIPTION: MOIST, BEOWN, SILTY SAM - NO ODOR/ STAW. FIELD 418.1 CALCULATIONS WEIGHT (g) mL. FREON DILUTION READING CALC. ppm SAMPLE I.D. LAB No: **SCALE** 0 5 10FT OVM PROFILE PIT PERIMETER RESULTS SAMPLE FIELD HEADSPACE PID (ppm) INSE " NT 2 ESC 4' 3 55 c 4' 4 WS @ 4' 5 480 9 TO (S) SEP LAB SAMPLES 418.1 TRAVEL NOTES: 8-2-94 CALLOUT:



### TOTAL PETROLEUM HYDROCARBONS

Attn:

Nelson Velez

Date:

8/4/94

Company: Blagg Engineering

Lab ID:

1680

Address:

P.O. Box 87

Sample No.

2228

City, State: Bloomfield, NM 87413

Job No.

2-1000

**Project Name:** 

Schwerdtfeger A LS #10 A

**Project Location:** 

CB @ 9' - Blow Pit

Sampled by:

**REO** 

Date:

8/2/94 Time:

12:40

Analyzed by:

DC

Date:

8/4/94

Type of Sample:

Soil

### Laboratory Analysis

| Laboratory     |                          | Total Petroleum |
|----------------|--------------------------|-----------------|
| Identification | Sample Identification    | Hydrocarbons    |
|                | Schwerdtfeger A LS #10 A |                 |
| 2228-1680      | CB @ 9' - Blow Pit       | 570 mg/kg       |

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

FAX: (505) 327-1496 • 24 HR. - (505) 327-7105 • OFF.: (505) 325-8786

3005 NORTHRIDGE DRIVE - SUITE F - P. O. BOX 2606 - FARMINGTON, NEW MEXICO 87499

District I P.O. Box 1980, Hobbs, NM District II P.O. Drawer DD, Artesia, NM 88211 strict III

1000 Rio Brazos Rd, Aztec, NM 87410

### State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 CO...
SANTA FE OFFICE

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-208

# PIT REMEDIATION AND CLOSURE RE

| Operator: Amoco Production Company  | Telephone: (505) - 326-9200  |
|---|--|
| Address: 200 Amoco Court, Farmington  | , New Mexico 87401   |
| Pacility Or: SCHWERDTFEGER A  | LS IOA   |
| Location: Unit or Qtr/Qtr Sec Se  |  |
| pit Type: Separator Dehydrator X 0  |  |
| Land Type: BLM X, State, Fee  |  |
| Footage from reference:   | , other  |
| Depth To Ground Water:  (Vertical distance from contaminants to seasonal high water elevation of ground water)                            | Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)      |
| Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) | Yes (20 points) No (0 points)  |
| Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)        | Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) |
|   | RANKING SCORE (TOTAL POINTS):  |

| Date Remediation St   | arted:                           | Date Completed:          | 8/2/94        |
|---|----------------------------------|--------------------------|---------------|
| Remediation Method:   |                                  | Approx. cubic yards      |               |
| (Check all appropriate  |                                  | Insitu Bioremediation    |               |
|   | Other                            |                          |               |
|   |                                  |                          |               |
| Remediation Location  | $\alpha$ : Onsite $\times$ Offs: | ite                      |               |
| (ie. landfarmed onsite, name and location of                      |                                  |                          | •             |
| offsite facility)  General Description Of Remedial Action:        |                                  |                          |               |
| Excavation  |                                  |                          |               |
| Excavatio   | 011                              |                          |               |
|   |                                  |                          |               |
|   |                                  |                          |               |
| <b>700</b>  | haller concern                   | San a A                  | \             |
| athe IIMBCD   | TETTER WIVES pand                | Yes Depth                | 2-13 14       |
| Ground Water Encound  | tered: No X                      | Yes Deptn                |               |
| Final Pit:  | Sample location                  | see Attached Documents   |               |
| Closure Sampling:   | Sample Tocacion                  |                          |               |
| (if multiple samples, attach sample results and diagram of sample | Sample depth                     | 31                       |               |
|   | Sample date 8/2/9                | Sample time _            | 1220          |
|   | Sample Results                   |                          |               |
|   | Benzene(ppm)                     | 0.0088                   |               |
|   | Total BTEX(ppm)                  | 0,326                    |               |
|   | Field headspace                  | e(ppm) <u>273</u>        |               |
|   | TPH 140 ppm                      |                          |               |
|   |                                  |                          |               |
| Ground Water Sample   | Yes No X                         | (If yes, attach sample   | results)      |
| I HEREBY CERTIFY THE  |                                  | BOVE IS TRUE AND COMPLET | E TO THE BEST |
| DATE 8/5/97   | <b>,</b>                         | RIINCI                   | 1.            |
| SIGNATURE BASI  | PRINTED NA AND TITLE             | AME Buddy D. S.          | PonRdinator   |

|  | INITUIC RESULG   | 15 10 100 MICOL 8-3-   | 99 10                                       |
|--|--|--|---|
| CLIENT: <u>AMOCO</u>                   | P.O. BOX 87, BLOC  | NEERING, INC.<br>OMFIELD, NM 874<br>32-1199  | 13   LOCATION NO: <u>80038</u>   C.O.C. NO: |
| FIELD REPOR                            | T: CLOSURE   | VERIFICATIO  | N PAGE No: _/ of _/_                        |
| LOCATION: NAMESCALLER                  | DTFEGER WELL #: A L  | S IOA PIT: DEHY  | DATE STARTED: 8/2/94  DATE FINISHED: 8/2/94 |
| QUAD/UNIT: 5 SEC:                      | 3) TWP: 28N RNG: BU  | PM: NM CNTY: 57 ST:  | ENVIRONMENTAL NV                            |
|  | AVATION APPROX. 37   |  |   |
| DISPOSAL F                             | ACILITY: LANDFARED   | 00-51TE CUBIC  | YARDAGE: 240                                |
| l .                                    | RAHGE  |  |   |
| FIELD NOTES & REMAR                    | KS: PIT LOCATED APPROX   | IMATELY 130 FEE  | T <u>N40W</u> FROM WELLHEAD.                |
| DEPTH TO GROUNDWATER: < <pre>LIO</pre> | NEAREST WATER SOURCE: .  | 7/00 NEAREST S   | URFACE WATER: 7/000                         |
| NMOCD RANKING SCORE                    | NMOCD TPH CLOSURE STD  | 1000 PPM   | FORMATION:                                  |
| SOIL AND EXCAVATION I                  | ESCRIPTION: DK. YELL. DRA  | nge to brown Jand  | NON- COMESINE SLICHTLY                      |
|  | SOIL AND EXCAVATION DESCRIPTION:  OK. YELL. ORANGE TO BROWN FAND, NON-CORESIVE SLIGHTLY  MOIST, FIRM. BOTTOM CONSIST OF HARD SHALF, OUVE  GRAY COLOR.  |  |   |
| SCALE O FT PERIM  PIT PERIM  OF HY     | ETER N RESIDENCE PRESIDENCE PRESI | VM ULTS  CO.3  CO.3  CO.3  CO.3  CO.3  CO.5  CO. | PIT PROFILE  A1  THANK SHOPE  SOTION        |
| TRAVEL NOTES: CALLOU                   | 81,/94   | ONSITE: 8/2/94   | ·   |

# BLAGG ENGINEERING, INC.

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

# FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Project #:

Sample ID:

1 @ 8'

Date Analyzed:

8-02-94

Project Location:

Schwerdtfeger A LS 10 A

Date Reported:

8-02-94

Laboratory Number:

TPH-1052

Sample Matrix:

Soil

| Parameter                                | Result, mg/kg | Detection<br>Limit, mg/kg |
|--|---------------|---------------------------|
| Total Recoverable Petroleum Hydrocarbons | 140           | 20                        |

ND = Not Detectable at stated detection limits.

QA/QC:

| QA/QC Sample | Duplicate | %      |
|--------------|-----------|--------|
| TPH mg/kg    | TPH mg/kg | *Diff. |
|              |           |        |
| 978          | 938       | 4.18   |

<sup>\*</sup>Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Dehydrator Pit - B0038

Review



# AROMATIC VOLATILE ORGANICS

Attn:

Nelson Velez

Date:

8/3/94

Company:

Blagg Engineering

Lab ID:

1680

Address:

Sample ID:

2230

P.O. Box 87

City, State: Bloomfield, NM 87413

Job No.

2-1000

**Project Name:** 

Schwerdtfeger A LS #10A

Date:

**Project Location:** 

1 - 8' - Dehydrator Pit

8/2/94

8/3/94

Time:

12:20

Sampled by: Analyzed by: NV DLA

Date:

Sample Matrix:

Soil

# **Aromatic Volatile Organics**

| Component    | * * Measured<br>Concentration ug/kg |
|--------------|-------------------------------------|
| Benzene      | 8.8                                 |
| Toluene      | 45.2                                |
| Ethylbenzene | 123                                 |
| m,p-Xylene   | 102                                 |
| o-Xylene     | 47.5                                |
|              | TOTAL 326 ug/kg                     |

ND - Not Detectable

\*\* - Method Detection Limit, 2 ug/kg

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
Cistrict III

O Rio Brazos Rd, Aztec, NM \$7410

# State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2488

SEP 2001

# PIT REMEDIATION AND CLOSURE REPORT

| (202) 000 0000   |
|--|
| Telephone: (505) - 326-9200  |
| , New Mexico 87401   |
| LS 10 A  |
|  |
| ac 31 T28N RBW County SAN THAN   |
| ther PRODUCTION TANK   |
| , Other  |
| width 13 , depth 5 , other   |
| WEST SOUTH   |
| Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) /O   |
| Yes (20 points)<br>No (0 points) <u>O</u>  |
| Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) |
| RANKING SCORE (TOTAL POINTS):  |
|  |

|  |                                |                        | 51.1   |
|--|--------------------------------|------------------------|--|
| Date Remediation St  | arted:                         | Date Complet           | :ed: 8/2/94                                      |
| Remediation Method:  | Excavation ×                   | Approx. cubic yard     | is Xo  |
| (Check all appropriate sections)   | Landfarmed X                   | Insitu Bioremediat     | cion   |
|  | Other                          |                        |  |
|  |                                |                        |  |
| Remediation Location   | n: Onsite × Offs               | ite                    |  |
| (ie. landfarmed onsite, name and location of   |                                |                        | •  |
| offsite facility)  |                                |                        |  |
| General Description  | Of Remedial Action:            |                        |  |
| Excavation   | of Remedial Action:            | PRENTLY REMOVED #      | com Pit.   |
|  |                                |                        |  |
|  |                                |                        |  |
|  |                                |                        |  |
| Dmark letter   | Correspondence                 |                        | 17-13-910  |
|  | •                              |                        |  |
| Ground Water Encoun  | cered: NO X                    | Yes Deptn              |  |
| Final Pit:<br>Closure Sampling:  | Sample location                | see Attached Documents |  |
| <pre>(if multiple samples,<br/>attach sample results<br/>and diagram of sample</pre> | Sample depth 6                 | . 1                    |  |
| locations and depths)  | Sample date 820                | H Sample t             | ime <u>        5                            </u> |
|  |                                | ogmbie (               |  |
|  | Sample Results                 |                        |  |
|  | Benzene(ppm) _                 |                        |  |
|  | Total BTEX(ppm                 | )                      |  |
|  | Field headspac                 | e(ppm) 5.0             |  |
|  | трн 68 ррм                     |                        |  |
|  |                                |                        |  |
| Ground Water Sample  | : Yes No <u>X</u>              | (If yes, attach sa     | mple results)                                    |
| I HEREBY CERTIFY TH.<br>OF MY KNOWLEDGE AND  | AT THE INFORMATION A<br>BELIEF | BOVE IS TRUE AND CO    | MPLETE TO THE BEST                               |
| DATE 8 2 94  | A                              | BIIX                   | $\leq 1$   |
| SIGNATURE SASI   | PRINTED N<br>AND TITLE         | AME Buddy D            | al Consdinator                                   |

|                                     | INTIME RESILIES TO BUB!   | MCC07 8-3-94 REC                    |                               |
|-------------------------------------|---|-------------------------------------|-------------------------------|
| CLIENT: <u>AMOCO</u>                | BLAGG ENGINEERING,<br>P.O. BOX 87, BLOOMFIELD,<br>(505) 632-1199  | NM 87413                            | IN NO: <u>80038</u><br>C. NO: |
| FIELD REPOR                         | RT: CLOSURE VERIF   | ICATION PAGE NO                     | o: <u>l</u> of <u>/</u>       |
| QUAD/UNIT: D SEC:                   | ROTFEGER WELL #: A IS 10A PIT: 1<br>31 TWP: 282 RNG: BW PM: NM C<br>1810 FWL CONTRACTOR: P. UELA                                    | NTY:51 ST:N T                       | TED: 8/2/94<br>HED: 8/2/94    |
| SOIL REMEDIATION: EXC<br>DISPOSAL F | AVATION APPROX. 13 FT. x  ACILITY: Language Solution   LEASE  | N3 FT. x 5 CUBIC YARDAGE:           | FT. DEEP.                     |
| FIELD NOTES & REMAR                 | NMOCD TPH CLOSURE STD: (800 PPM   | 72 FEET NESE NEAREST SURFACE WATER: | >1000                         |
|                                     | FIELD 418.1 CALCULATIONS  | S                                   | , = ··- ·· ,                  |
| SCALE O FT PIT PERIM                | 7 TPH-1051 5 ZO 1:  | 70                                  |                               |
| A WO                                | SAMPLE FIELD HEADSPACE PID (ppm)  SAMPLE FIELD HEADSPACE PID (ppm)  1 @ 3 / 6.0  2 @ 3 / 0.0  4 @ 3 / 0.0  5 @ L / 0.0  LAB SAMPLES | GROWIO SURTHEE ST                   | E A'                          |
| TRAVEL NOTES: CALLOUT               | <br>: 8/1/94 ONSITE: _  | 8/2/94                              |                               |

# BLAGG ENGINEERING, INC.

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

# FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

5 @ 6'

Project #:

Schwerdtfeger A LS 10 A

Date Analyzed: Date Reported: 8-02-94 8-02-94

Project Location: Laboratory Number:

TPH-1051

Sample Matrix:

Soil

| Parameter                                | Result, mg/kg | Detection<br>Limit, mg/kg |
|--|---------------|---------------------------|
| Total Recoverable Petroleum Hydrocarbons | 68            | 20                        |

ND = Not Detectable at stated detection limits.

OA/OC:

| QA/QC Sample | Duplicate | %      |
|--------------|-----------|--------|
| TPH mg/kg    | TPH mg/kg | *Diff. |
|              |           |        |
| 978          | 938       | 4.18   |

<sup>\*</sup>Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Production Tank Pit - B0038

Review

P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Arlesia, NM 88211
istrict III

1000 Rio Brazos Rd, Aztec, NM 87410

# State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-206

SEP 2001

# PIT REMEDIATION AND CLOSURE REPORT

|   | ¥23 × × × × × × × × × × × × × × × × × × ×  |
|---|--|
|   | - (505) 206 0000   |
| Operator: Amoco Production Company  | Telephone: (505) - 326-9200  |
| Address: 200 Amoco Court, Farmington  | , New Mexico 87401   |
| Facility Or: SCHWERDT FE60R A Well Name   | LS #10A  |
| Location: Unit or Qtr/Qtr Sec Se  | ec 31 T 28N R 8 W County SAN JUAN  |
| Pit Type: Separator $X$ Dehydrator 0  | ther   |
| Land Type: BLM $X$ , State, Fee   | , Other  |
| Footage from reference:   | , other  |
| Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)                             | Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)      |
| Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) | Yes (20 points)<br>No (0 points) O   |
| Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)        | Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) |
|   | RANKING SCORE (TOTAL POINTS):  |

| Date Remediation St   | arted:             | Date Completed:                              | 8.7.44                                |
|---|--------------------|--|---------------------------------------|
| Remediation Method:   |                    | Approx. cubic yards                          |                                       |
| (Check all appropriate sections)  | Landfarmed X       | <del></del>                                  |                                       |
| 8400101127  |                    |  |                                       |
|   |                    |  |                                       |
| Remediation Locatio<br>(ie. landfarmed onsite,<br>name and location of<br>offsite facility) | n: Onsite X Off    | site   |                                       |
| General Description   | Of Remedial Action | :  | ····                                  |
| Excavation  | on                 | · .  |                                       |
|   |                    |  | ·                                     |
|   |                    |  |                                       |
|   |                    |  | · · · · · · · · · · · · · · · · · · · |
| 1   | •                  | nce 12-1                                     |                                       |
| Ground Water Encoun   | tered: No $X$      | Yes Depth                                    |                                       |
| Final Pit: Closure Sampling: (if multiple samples,  | Sample location    | see Attached Documents                       |                                       |
| attach sample results and diagram of sample   | Sample depth       | ( '  |                                       |
| locations and depths)   | Sample date 8      |  |                                       |
|   | Sample Results     |  |                                       |
|   | Benzene(ppm)       | <del></del>                                  |                                       |
|   | Total BTEX(pp      | m)   |                                       |
|   | Field headspa      | ce(ppm)3                                     |                                       |
|   | трн 66 ррт         | <u>.                                    </u> |                                       |
| Ground Water Sample   | : Yes No           | (If yes, attach sample re                    | sults)                                |
| I HEREBY CERTIFY TH<br>OF MY KNOWLEDGE AND  |                    | ABOVE IS TRUE AND COMPLETE                   | TO THE BEST                           |
| DATE 8/5/99 SIGNATURE SASI  | PRINTED AND TITL   | NAME Buddy D. Sha<br>E Environmental Coo     | w<br>in dinator                       |

# ENVIROTECH Inc.

| 5798 US HWY. 64. FARMINGTON, NM 87401<br>(505) 832-0815   |                                      |
|---|--------------------------------------|
| FIELD REPORT: CLOSURE VERIFICATION  | JOB No: 92140 PAGE No: of            |
| LOCATION: LEASE: SCHUDENT FEGER WELL: ALS 10A OD: 820' FML, 810 FWL (A) SEC: 3 TWP: 28 N RNG: 8 W BM: NM CNTY: S.J. ST: NM PIT: SEP,  | DATE STARTED: 12-4-82 DATE FINISHED: |
| CONTRACTOR: E.P.C. EQUIPMENT USED: RUBBER TURED BACKHOE   | ENVIRONMENTAL RED                    |
| SOIL REMEDIATION: QUANTITY:  DISPOSAL FACILITY:  TENT INSITY  |                                      |
| LAND USE:   |                                      |
| FIELD NOTES & REMARKS: PIT LO CATED 30' NORTH AND 140' EAST PIT SURFACE APPEARS TO BE MIXED IN PLACE NO EXCUATION   | of weiltens<br>seep - no tests taken |
| At THIS TIME,   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
|   |                                      |
| SCALE   |                                      |
|   | FEET<br>PROFILE                      |
| NBSOE15   |                                      |
|   | $\exists$                            |
| SEP.  | 3                                    |
| MIXED IN INVESTIGATION OF THE PROPERTY OF THE | =                                    |
| PIPES   |                                      |
| 358   |                                      |
| TO WOUNTERD   |                                      |
| TRAVEL NOTES: CALLOUT: 12-4-92 ONSITE: 12-7-92 1400 H   | es                                   |
|   |                                      |

INITUAL RESULTS TO BOB MCCOY 8-3-99 PED BLAGG ENGINEERING, INC. LOCATION NO. B0038 CLIENT: AMOGO P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199FIELD REPORT: PIT CLOSURE VERIFICATION LOCATION: NAME: SCHWERDT FEGER WELL #: LO A PIT: SEP. DATE STARTED: DATE FINISHED: 8-2-44 QUAD/UNIT: D SEC: 31 TWP: 28 N RNG: 8 W BM: NM CNTY: SJ ST: NM ENVIRONMENTAL SPECIALIST: QTR/FOOTAGE: 820' FML 810' FWL CONTRACTOR: PAUL + SONS £ 60 SOIL REMEDIATION: EXCAVATION APPROX. 20 FT. x 20 FT. x 10 FT. DEEP. DISPOSAL FACILITY: ON SITE CUBIC YARDAGE: 120 LAND USE: RANGE LEASE: # SF- 079319 FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 140 FEET N70°E FROM WELLHEAD. DEPTH TO GROUNDWATER: 750 NEAREST WATER SOURCE: 7000 NEAREST SURFACE WATER: 7000 NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM SOIL AND EXCAVATION DESCRIPTION: MOIST, BROWN, SILTY STOWN TO CLATER SAYS ON GOTTOM. NO ONA, NO STAW, FIELD 418.1 CALCULATIONS |WEIGHT (g) |mL. FREON | DILUTION | READING | CALC. ppm SAMPLE I.D. LAB No: SCALE 0 5 10FT OVM PIT PROFILE PIT PERIMETER RESULTS SAMPLE FIELD HEADSPACE PID (ppm) I NZG Z, 2ESCS 355€ 6 4 WS@ 5' י מו LAB SAMPLES 418.1 5 EP. SURFA-GE 6MO lar TRAVEL NOTES: \_ ONSITE: \_ 8-2-99 100 CALLOUT:



# TOTAL PETROLEUM HYDROCARBONS

Nelson Velez Attn:

Date:

8/4/94

Company: Blagg Engineering

Lab ID:

1680

Address:

Sample No.

2229

City, State: Bloomfield, NM 87413

P.O. Box 87

Job No.

2-1000

**Project Name:** 

Schwerdtfeger A LS #10 A

**Project Location:** 

SB @ 11' - Separator Pit

Date:

8/2/94 Time:

12:00

Sampled by: Analyzed by: **REO** DC

Date:

8/4/94

Type of Sample:

Soil

### Laboratory Analysis

| Laboratory     |                          | Total Petroleum |
|----------------|--------------------------|-----------------|
| Identification | Sample Identification    | Hydrocarbons    |
|                | Schwerdtfeger A LS #10 A |                 |
| 2229-1680      | SB 🚯 11' - Separator Pit | 66 <i>mg/kg</i> |

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:



# CHAIN OF CUSTODY RECORD

Date: 3-2-44

| 1680 | _      | 0038 |
|------|--------|------|
| •    | of     | 80   |
|      | _      |      |
|      | Page _ |      |

657 W. Maple • P. O. Box 2606 • Farmington, NM 87499 LAB: [505] 325-5667 • FAX: (505) 325-6256

| Burchard Order M.                                   |   | ě              | 5                         |                                | -mit                        | ,  |
|---|---|----------------|---------------------------|--------------------------------|-----------------------------|--|
| ruichase Order No.:                                 | 0.:   | 0              | Name X                    | CMIC                           | 1 (()                       |  |
| Name  |   | TR<br>T S      | Company                   | SAME                           |                             |  |
| PEO Company BIAGE ENGINEERING                       | Dept.   | IO9:           | Mailing Address           |                                |                             |  |
| Address \$.0. Bu                                    |   | ESI<br>BE      | City, State, Zip          |                                |                             |  |
| City, State, Zip & LOUMFIELD, N.M.                  | 87413   | Ħ              | Telephone No.             | 622 - 1199                     | Telefax No. 632             | 3403                                     |
| Special Instructions: SCH WCR OF FELGER A LS # 16 A | <b>∀ 9</b>                                      |                |                           | _                              | ANALYSIS REQUESTED          |  |
|   |   |                | /                         | / / (0"                        |                             |  |
| Sampler: R E. O'MIL / 9/20m 1                       | 200   | Numb<br>Contai | 1.614                     |                                |                             |  |
| SAMPLE IDENTIFICATION SAM                           | DATECTIME COMPOSITE/ PRESERVATIVES SAMPLED GRAB |                | & S                       |                                |                             | Remarks<br>(matrix)                      |
| CB@ 9' 8-2 17                                       | 1240 6RB COCL                                   | -              | 7                         | 2228-1680                      | 815W PIT S                  | ٥ (ر                                     |
| SB @ 11' 8.2 L                                      | 100 6th 600                                     | _              | 7                         | 2229-1680                      | SCPARATOR DIT               | Soll                                     |
| 1) 2 4, W   | 4. ky 1023 687.8                                |                | >                         | 1232-1680                      | DEHYCERTASK PIT             | 100                                      |
|   |   |                |                           |                                |                             |  |
| 74 T  |   |                |                           |                                |                             |  |
|   |   |                |                           |                                |                             |  |
|   |   |                |                           |                                |                             |  |
|   |   |                |                           |                                |                             |  |
|   |   |                |                           |                                |                             |  |
| Relinquished by: R F C No.                          | Date/Time 8/2 1337                              | +              | Received by:              | Lory Velan                     | Date/Time 3/2 (1)           | 1551 4                                   |
| S/1/2   | Date/Times/2/54 /528                            | $\overline{}$  | Received by:              |                                | Date/Time 5/12 /            | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
|   | Date/Time                                       | Recei          | Received by:              |                                | Date/Time                   |  |
| Method of Shipment:                                 |   | Rush           |                           | 5 Working Days 10 Working Days | g Days   Sampling Location: |  |
| Authorized by:                                      | Date  | -              | -                         |                                |                             |  |
| (Client Signature Must Accompany Hequest)           | t)  |                |                           |                                |                             |  |
| Die   | Distribution: White - On Site Yellow - LAB      | Pink – Sampler | ampler Goldenrod - Client | I – Client                     |                             | Ī  |

| CLIENT: AMOCO                            | BLAGG ENG               | INEERING, IN                     | C.          | ΙΠΟΔΤΙΙ                 | ΠΝ ΝΠ:  | 80038         |
|--|-------------------------|----------------------------------|-------------|-------------------------|---|---------------|
| 1  | P.O. BOX 87, BLO        |                                  | 37413       |                         |   |               |
|  | (505)                   | 632-1199                         |             | U.U                     | .C. NU:   | 2274          |
| FIELD REPORT:                            | LANDFARM/COM            | POST PILE CLO                    | SURE        | VERI                    | FICA'   | TION          |
| LOCATION: NAME: SCHERDTF                 | EVER A WELL #: L        | PITS: BLOW, SEP, DE              | HY PROD -   | DATE STAF               |   | 20.97         |
| QUAD/UNIT: D SEC: 31                     |                         | 0 . –                            | ST: NM      | ENVIRONME<br>SPECIALIST |   | -             |
| QTR/FOOTAGE: 820'FNL                     | 810 FWL CONTRACTOR:     | b + 2                            |             | SPECIALIST              |   |               |
| SOIL REMEDIATION:                        |                         |                                  |             | •                       |   | 25 91         |
|  | EM: LANDFARM            | APPROX. C                        | UBIC Y      | ARDAGE                  | :   | <del>51</del> |
| LAND USE:                                | PANGE                   | _ LIFT DEPT                      | H (ft):     | <u>A</u> u_             |   |               |
| FIELD NOTES & REMARK                     | (S:                     |                                  |             |                         |   |               |
| DEPTH TO GROUNDWATER:                    |                         |                                  | T SURFAC    | E WATER: _              | <u> &gt;/</u>                                     | •00′          |
| NMOCD RANKING SCORE:                     |                         |                                  |             |                         |   |               |
| SOIL IS A DRY GRAY                       |                         | LND, NO STAN ORHICO              | DOR.        |                         |   |               |
| TOOK 5 PT. COMPOSITE F                   | ior has analysis.       | L <b>3174</b>                    |             |                         |   |               |
| NO HOTURE WHOU FIRE                      | ( 33300) 65 114 33 53   |                                  |             |                         |   |               |
|  |                         |                                  |             |                         |   |               |
|  |                         | 8.1 CALCULATIONS                 |             | 101010                  | <del></del> -                                     |               |
| SAMP. TIME SAM                           | IPLE I.D. LAB No: WEIGH | T (g) ML. FREON DILUTIO          | N READIN    | IG CALC.                | <u>mqc</u>  |               |
|  |                         |                                  | <del></del> |                         |   |               |
|  |                         |                                  |             |                         |   |               |
|  |                         |                                  |             | _                       |   |               |
|  |                         |                                  |             |                         |   |               |
| SKETCH/SAMPLE                            | LOCATIONS               | ٦                                |             |                         |   |               |
|  | - <b>-</b>              |                                  |             |                         |   |               |
| NI 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | PAT P                   | OVM RESULTS                      |             | LAB SA                  | ΔМРΙ  | ES            |
| IN Q                                     | O DEHY                  | SAMPLE FIELD HEADSPACE PID (ppm) | SAMPLE      |                         | TIME  | RESULTS       |
| 0  | SEP.                    | LF-1 O, D                        | LF·1        | 8015                    | 1455  | 10            |
|  | (                       |                                  |             |                         |   |               |
|  |                         |                                  |             | -                       |   |               |
| Jun                                      | Went /                  |                                  |             | -                       | <del>                                      </del> |               |
|  | - Anna and              |                                  |             |                         | <del> </del>                                      |               |
|  |                         |                                  | J L         |                         | . <del></del>                                     | <u> </u>      |
|  |                         | SCALE                            |             |                         |   |               |
|  |                         |                                  |             |                         |   |               |
|  |                         | O FT                             |             |                         |   |               |
| TRAVEL NOTES: CALLOUT:                   | NA                      | ONSITE:ONSITE:                   | 77 14       | 55                      |   |               |



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

| Client:              | Blagg / AMOCO   | Project #:          | 04034-10 |
|----------------------|-----------------|---------------------|----------|
| Sample ID:           | LF - 1          | Date Reported:      | 11-25-97 |
| Laboratory Number:   | C549            | Date Sampled:       | 11-20-97 |
| Chain of Custody No: | 5574            | Date Received:      | 11-21-97 |
| Sample Matrix:       | Soil            | Date Extracted:     | 11-21-97 |
| Preservative:        | Cool            | Date Analyzed:      | 11-24-97 |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Schwerdtfeger A LS # 10A Landfarm. 5 Pt. Composite.

Adelen P. Oglecce

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

|                               |                                  |                |  | CHAIN OF COSTODI RECORD | 10100  | יוע וו                              | コピン        |           |       |          |               |                |
|-------------------------------|----------------------------------|----------------|--|-------------------------|--|-------------------------------------|------------|-----------|-------|----------|---------------|----------------|
| Client/Project Name           |                                  |                | Project Location   | LANDFRIAM               | ž  |                                     |            | ,         |       |          |               |                |
| DUNGE ( HIMOCO                | 20CO                             |                | SHWERDITE  | H                       | 15 # 10A   |                                     |            |           |       |          | :             |                |
| Sampler: (Signature)          |                                  |                | Chain of Custody Tape No.                                    |                         |  |                                     |            |           |       |          | Remarks       |                |
| Caltain                       | ,                                |                | 01-48040   | 9                       |  |                                     | (5)        |           |       |          |               |                |
| Sample No./<br>Identification | Sample<br>Date                   | Sample<br>Time | Lab Number   | Sample<br>Matrix        | <b>⊕</b> ×   | No.<br>Contail                      | (8)<br>(dL |           |       | 14       | RESERV.       | 1980           |
| 1-47                          | 11/20/97                         | 1455           | 6250   | 2017                    |  | \                                   | >          |           |       | <i>y</i> | PT. COMPOSITE | NOSITE         |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               | ,              |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               |                |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               |                |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               |                |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               |                |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               |                |
|                               |                                  |                |  |                         | San  | al o                                | 76.0       | vece hued | 1 200 | , v      | beckny        |                |
|                               |                                  |                |  |                         |  | <i>r</i>                            |            |           |       | -        |               |                |
| Relinquished by: (Signature)  |                                  |                |  | Date Tin                |  | Received by: (Signature             |            | 150       |       |          | Date          | Time           |
| Cal How                       | (                                |                |  | 11/2/92 021             | 2  |                                     | (Mar       | 10        |       |          | 1/2/97        | C400 C         |
| Relinquished by: (Signature)  | 128                              |                |  | 4/21/97 0904            |  | Receive Dy: (Signature)             | nature)    | P. (      |       | 4        | 11-21-9       | 11-21-4> 68.04 |
| Relinquished by: (Signature)  | Ð                                |                |  |                         | Receiv   | Received by: (Signature)            | nature)    |           |       |          |               |                |
| Reficoc's S                   | 75, 4022<br>55, 4022<br>55, 4025 | .ss' oc        | 8755' 7655' 1655' 0655' 4955<br>8756' 7655' 1655' 0655' 4955 |                         | ENVIROTECH INC.<br>5796 U.S. Highway 64-3014<br>Farmington, New Mexico 87401<br>(505) 632-0615 | HIDC.<br>64-3014<br>sico 87401<br>5 |            |           |       |          |               |                |
|                               |                                  |                |  |                         |  |                                     |            |           |       |          |               |                |