

District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
100 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088 - 7 1999

RECEIVED

OK B0287  
SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

**PIT REMEDIATION AND CLOSURE REPORT**

Denial 12/13/95 - LF

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: KRAUSE UN FED #1  
Well Name  
Location: Unit or Qtr/Qtr Sec M Sec 32 T28N R 11W County SAN JUAN  
Pit Type: Separator Dehydrator Other BLOW  
Land Type: BLM X, State, Fee, Other

Pit Location: Pit dimensions: length 35', width 35', depth 25'  
(Attach diagram) Reference: wellhead X, other  
Footage from reference: 230'  
Direction from reference: 54 Degrees East North  
X of West South X

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 Points) 0  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
domestic water source, or; less than  
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)  
Horizontal distance to perennial 200 feet to 1000 feet (10 points)  
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0  
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 5/17/95

Remediation Method: Excavation ☒ Approx. cubic yards 900  
 (attach all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
 Other COMPOSTED

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_  
 (ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_

Excavation

Ground Water Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents

Closure Sampling: \_\_\_\_\_

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 26' (PIT BOTTOM)

Sample date 5/17/95 Sample time 0955

#### Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX(ppm) \_\_\_\_\_

Field headspace(ppm) 3.6

TPH 48 ppm

Ground Water Sample: Yes \_\_\_\_\_ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 5/17/95

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

CLIENT: AMOCOBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: 80287

C.O.C. NO: \_\_\_\_\_

## FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME: KRAUSE WY FED. WELL #: 1 PIT: BLOWDATE STARTED: 5/17/95QUAD/UNIT: M SEC: 32 TWP: 28N RNG: 11W PM: NM CNTY: JS ST: NM

DATE FINISHED: \_\_\_\_\_

QTR/FOOTAGE: SW/4 SW/4 CONTRACTOR: MOSSENVIRONMENTAL SPECIALIST: NVEXCAVATION APPROX. 35 FT. x 35 FT. x 25 FT. DEEP. CUBIC YARDAGE: 900DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED/COMPOSTEDLAND USE: RANGE/AGRICULTURAL LEASE: SP-078863 FORMATION: DKFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 230 FT. SS4W FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:

☒ PIT ABANDONED☐ STEEL TANK INSTALLED

## SOIL AND EXCAVATION DESCRIPTION:

GRAYISH TO DK. YELL. ORANGE SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HC ODOOR IN ANY OF THE OVM SAMPLES, NO VISIBLE STRAINING OBSERVED IN EXCAVATION.

CLOSED

## FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0955	⑤ @ 26'	TPH-1506	5	20	1:1	12	48

SCALE

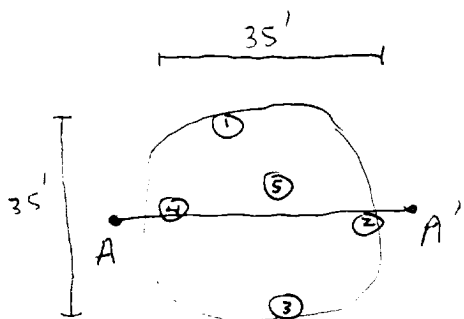


0 FT

PIT PERIMETER

OVM RESULTS

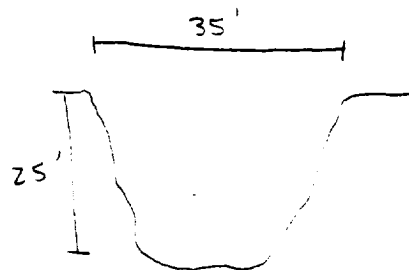
PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 20'	0.0
2 @ 21'	0.0
3 @ 18'	0.0
4 @ 19'	12.9
5 @ 26'	3.8

## LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES:

CALLOUT: 5/17/95 MORN. ONSITE: 5/17/95 MORN.

**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:	5 @ 26'	Date Analyzed:	05-17-95
Project Location:	Krause WN Fed #1	Date Reported:	05-17-95
Laboratory Number:	TPH-1506	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	<b>48</b>	<b>20</b>

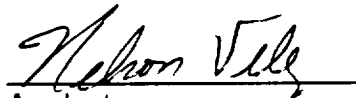
ND = Not Detectable at stated detection limits.

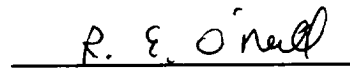
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	648	604	7.03

\*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: Blow Pit - B0287

  
Analyst

  
Review

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

**Field TPH-Worksheet**

Max Characters:

\*\*\*\*\*

Client:

Amoco

Project #:

Sample ID:

5 @ 26'

Date Analyzed:

05-17-95

Project Location:

Krause WN Fed #1

Date Reported:

05-17-95

Laboratory Number:

TPH-1506

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

12 mg/kg

TPH Result:

48.0 mg/kg

Reported TPH Result:

48 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original  
TPH mg/kg

Duplicate  
TPH mg/kg

%  
Diff.

-----  
648

-----  
604

-----  
7.03

Comments:

\*\*\*\*\*Max Characters\*\*\*\*\*

Comments:

Blow Pit - B0287

CLIENT: <u>Awo Co</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0287</u> C.D.C. NO: <u>AWA17MS</u>
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## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>KRAUSE W N FEDERAL 1</u>	LEASE: <u>SF-078863</u>	DATE STARTED: <u>5-6-96</u>
QUAD/UNIT: <u>M SEC: 32 TWP: 28 N RNG: 11 W</u>	BM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>SW / SW</u>	CONTRACTOR: <u>MASS</u>	ENVIRONMENTAL SPECIALIST: <u>REO</u>

### SOIL REMEDIATION:

 REMEDIATION SYSTEM: LANDFARM

 APPROX. CUBIC YARDAGE: 900

 LAND USE: AGRI - RANGE

### FIELD NOTES & REMARKS:

 DEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 71000'  
 NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

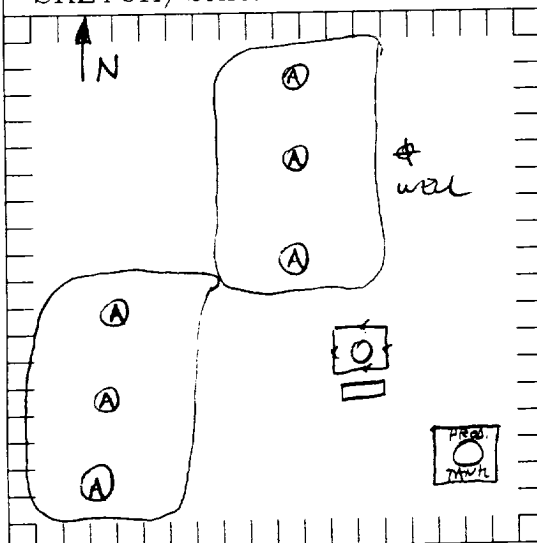
SOIL CONSISTS OF BROWN, DRY SAND - NO STAW, NO ODOOR.

### FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

CLOSE L.F.

### SKETCH/SAMPLE LOCATIONS



### OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	0

### LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	0910	539

### SCALE



### TRAVEL NOTES:

CALLOUT: \_\_\_\_\_

 ONSITE: 5-6-96 0900

**TOTAL VOLATILE PETROLEUM HYDROCARBONS****Gasoline Range Organics****Blagg Engineering, Inc.**

Project ID: Krause WN Fed. 1  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

Report Date: 05/22/96  
Date Sampled: 05/06/96  
Date Received: 05/06/96  
Date Extracted: 05/17/96  
Date Analyzed: 05/17/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3360	ND	22.0

ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	82%	50 - 150%

**Reference:** Method for the Determination of Gasoline Range Organics,  
State of Tennessee, Department of Environment and Conservation, Division  
of Underground Storage Tanks.

**Comments:**

  
Analyst

  
Review

**TOTAL RECOVERABLE PETROLEUM HYDROCARBONS****Diesel Range Organics****Blagg Engineering, Inc.**

Project ID: Krause WN Fed. 1  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Intact

Report Date: 05/22/96  
Date Sampled: 05/06/96  
Date Received: 05/06/96  
Date Extracted: 05/20/96  
Date Analyzed: 05/21/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3360	539	19.3

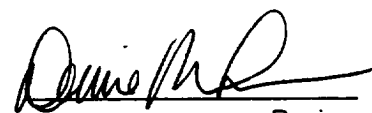
ND- Analyte not detected at the stated detection limit.

<b>Quality Control:</b>	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	107%	50 - 150%

**Reference:** EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste. Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

**Comments:**

  
Analyst

  
Review