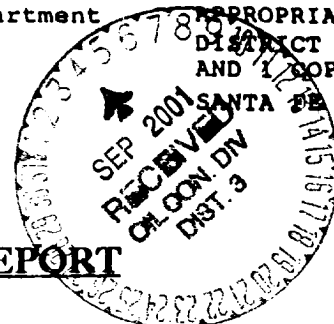


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Prod Tank - OK 12/12/01
Dehy - Risk Laback
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088



PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: FLORANCE C-LS 3
Well Name
Location: Unit or Qtr/Qtr Sec K Sec 19 T28N R 8W County SAN JUAN
Pit Type: Separator Dehydrator Other PRODUCTION TANK
Land Type: BLM ☒, State , Fee , Other

Pit Location: Pit dimensions: length 14', width 16', depth 6'
(Attach diagram) Reference: wellhead ☒, other
Footage from reference: 30'
Direction from reference: 5 Degrees ☒ East North ☒
of
 West South

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) 20

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) 0
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) 10
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: _____ Date Completed: 7/19/94

Remediation Method: Excavation ☒ Approx. cubic yards 50
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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

General Description Of Remedial Action: _____
Excavation

nmocd letter correspondence 7-10-96

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 6'
Sample date 7/19/94 Sample time 0815

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 1.2

TPH 86 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 7/19/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

Date Remediation Started: _____ Date Completed: 7/19/94

Remediation Method: Excavation ☒ (Check all appropriate sections)

Approx. cubic yards 50

Landfarmed ☒

Insitu Bioremediation _____

Other _____

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

Sample location see Attached Documents

Sample depth 6'

Sample date 7/19/94 Sample time 0815

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 1.2

TPH 86 ppm

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

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

DATE 7/19/94

SIGNATURE B.D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

C.D.C. NO: _____

PAGE No: 1 of 1

DATE STARTED: 7/19/94
DATE FINISHED: 7/19/94

ENVIRONMENTAL
SPECIALIST: NV

SOIL REMEDIATION: EXCAVATION APPROX. 14 FT. x 16 FT. x 6 FT. DEEP.
DISPOSAL FACILITY: LANDFARMED ON-SITE CUBIC YARDAGE: 50
LAND USE: RANGE LEASE: NM-03549

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 80 FEET NSE FROM WELLHEAD.
DEPTH TO GROUNDWATER: 250 NEAREST WATER SOURCE: 21000 NEAREST SURFACE WATER: 11000
NMOC D RANKING SCORE: 30 NMOC D TPH CLOSURE STD: 100 PPM ELEV. 5795' FORMAT: ON: SBPC/mv

SOIL AND EXCAVATION DESCRIPTION:

DR. YEEL. BROWN SAND w/ SOME SHALE & GRAVEL MIX,
NON-COHESIVE, DRY TO SLIGHTLY MOIST, LOOSE TO DENSE,
NO APPARENT HC ZONE IN OUR SAMPLES.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
⑤C6'	TPH-1029	10	20	1:1	43	86

SCALE

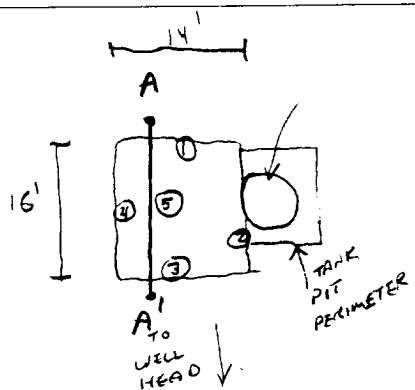
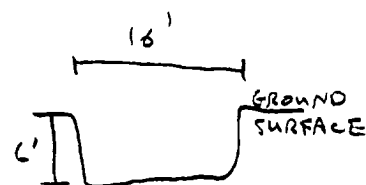


0 FT

PIT PERIMETER IN

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES:

CALL OUT: 718 | 94

ONSITE: 7/19/94

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 Location: Florance C 3
Laboratory Number: TPH-1029

Project #:
Date Analyzed: 7-19-94
Date Reported: 7-19-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	86	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1620	1520	6.37

*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 - B0026

Hebron Vilez
Analyst

R. E. O'Neill
Review

80026

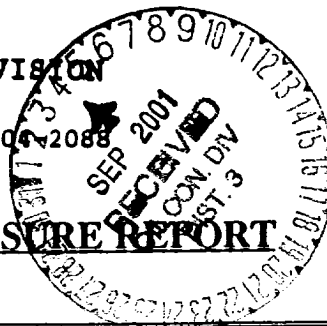
District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: FLORANCE C3
Well Name
Location: Unit or Qtr/Qtr Sec K Sec 19 T 28N R 8W County SAN JUAN
Pit Type: Separator Dehydrator X other
Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 77', width 40', depth 10'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 90'
Direction from reference: 81 Degrees X East North
of
 West South X

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) 20

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) 0

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) 10

RANKING SCORE (TOTAL POINTS):

30

Date Remediation Started: _____ Date Completed: 7/19/94

Remediation Method: Excavation ☒ Approx. cubic yards 1140
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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 10'

Sample date 7/19/94 Sample time 1000

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 849

TPH 1640 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 7/19/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

RESULTS GIVEN TO BOB MCCOY 7/22/74 giv

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80026</u> C.D.C. NO: _____
----------------------	--	---

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: <u>FLORANCE C 45</u> WELL #: <u>3</u> PIT: <u>DEHY</u>	DATE STARTED: <u>7/19/94</u>
NE SW QUAD/UNIT: <u>K</u> SEC: <u>19</u> TWP: <u>28N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	DATE FINISHED: <u>7/19/94</u>
QTR/FOOTAGE: <u>1450' FSU/1750' FWL</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION: EXCAVATION APPROX. 77 FT. x 40 FT. x 10 FT. DEEP.
DISPOSAL FACILITY: LANDFARMED ON-SITE CUBIC YARDAGE: 1140
LAND USE: RANGE LEASE: NM-03549

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FEET S 81 E FROM WELLHEAD.

DEPTH TO GROUNDWATER: 450 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 41000

NMOC Ranking Score: 30 NMOC TPH Closure Std: 100 ppm Elev. 5795' Formation: SBPC/MV

SOIL AND EXCAVATION DESCRIPTION:

BEDROCK BOTTOM, SHALY ROCK APPROX. 6' BELOW
GROUND SURFACE DOWN TO 10'. STRONG ODOOR IN SOUTH
SIDEWALL & BOTTOM OVER SAMPLES. SOUTH SIDEWALL
CONTAMINATION EVIDENT W/ MOISTURE CONTENT.

TANK INSTALLED

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5C10	TPH-1030	10	20	10:1	82	1640

SCALE

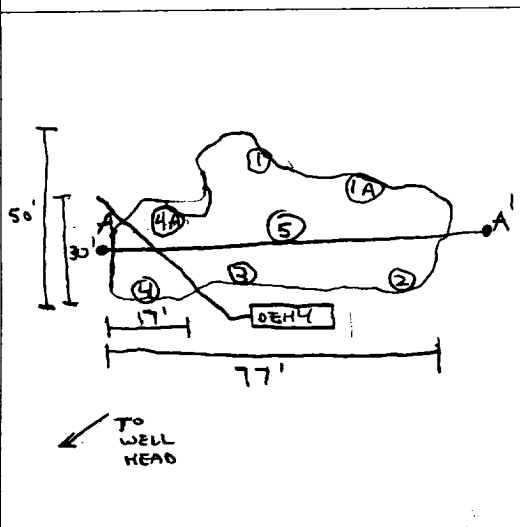
C

FT

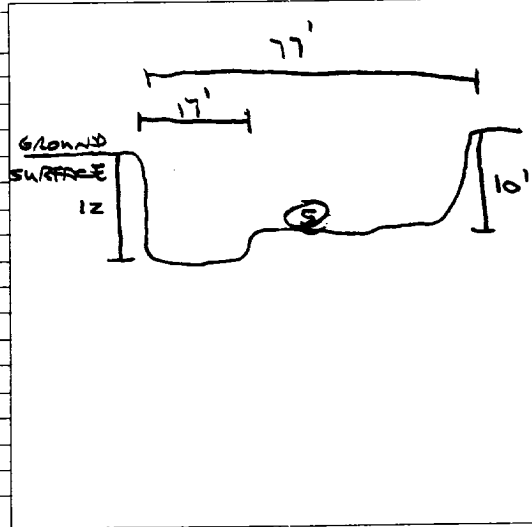
PIT PERIMETER

OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 E 6'	0.5
2 E 7'	0.4
3 E 8'	844
4 E 9'	1.1
5 E 10'	849
1A E 7'	0.8
4A E 10'	0.4
	LAB SAMPLES



TRAVEL NOTES:

CALLOUT: 7/18/94

ONSITE: 7/19/94

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 @ 10'
Project Location: Florance C 3
Laboratory Number: TPH-1030

Project #:
Date Analyzed: 7-19-94
Date Reported: 7-19-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,600	100

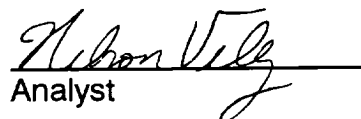
ND = Not Detectable at stated detection limits.

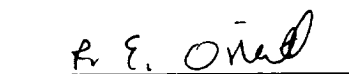
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1620	1520	6.37

*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 - B0026


Analyst


Review

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0026</u> ANALYSIS C.D.C. NO: <u>2263</u>
----------------------	--	---

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>FLORANCE C L S</u> WELL #: <u>3</u> PITS: <u>DEHY, PROD</u>	DATE STARTED: <u>8/26/96</u>
QUAD/UNIT: <u>K</u> SEC: <u>19</u> TWP: <u>28N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>1450' FSL/1750' FWL</u> CONTRACTOR: <u>P. VELASQUEZ</u>	
ENVIRONMENTAL SPECIALIST: <u>NV</u>	

SOIL REMEDIATION:

REMEDICATION SYSTEM: <u>LANDFARMED</u>	APPROX. CUBIC YARDAGE: <u>1190</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>0.5-2.0'</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <1000'

NMOCB RANKING SCORE: 30 NMOCB TPH CLOSURE STD: 100 PPM ELEV. 5795' GL.

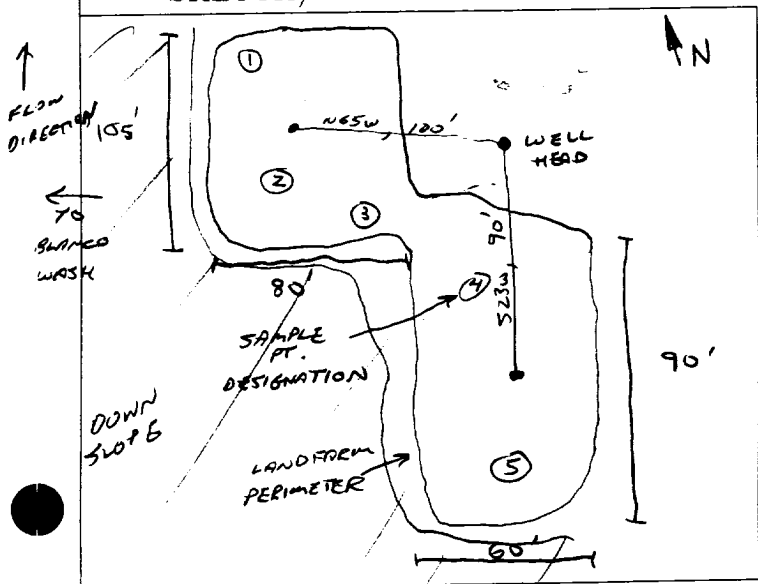
SOIL MOSTLY PALE OLIVE IN COLOR & SHALY, SLIGHTLY MOIST, NO DISTINCT HC ODOR DETECTED PHYSICALLY FROM EACH SAMPLE PT. LANDFARM SLIGHTLY GRADED TOWARD EAST FURTHEST WESTERN EDGE OF LANDFARM LOCATED JUST ABOVE DOWN SLOPE DROP OFF (APPROX. 40').

CLOSED

FIELD 418.1 CALCULATIONS

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

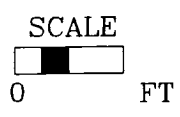
SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH(8015)	1125	ND



TRAVEL NOTES: CALLOUT: NA ONSITE: 8/26/96



TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID: Florance C LS #3
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 08/30/96
Date Sampled: 08/26/96
Date Received: 08/27/96
Date Extracted: 08/28/96
Date Analyzed: 08/28/96


Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
LF - 1	4835	ND	20.0


ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	66%	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

CHAIN OF CUSTODY

[illegible]