

District I
P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer 100, Aztec, NM 87410

District III

1000 Rio Brizos 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

80116
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Henry B. Frost
DEPUTY OIL & GAS INSPECTOR

DEC 13 1996

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility or: JACK FROST B #1E
Well Name

Location: Unit or Qtr/Qtr Sec M Sec 27 T 27N R 10W County SAN JUAN

Pit Type: Separator Dehydrator Other BLOW

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 55', width 50', depth 12'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 180

Direction from reference: 70 Degrees East North
X West of 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) 10
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): 10

Date Remediation Started: _____ Date Completed: 10-10-94

Remediation Method: Excavation X Approx. cubic yards 800
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other COMPOST

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

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No X 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 12'Sample date 10-10-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 1TPH 20 ppmGround Water Sample: Yes _____ No X (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 10/14/94

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator

MESSAGE TO JOHN N. 10-10-94 PLO

CLIENT <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0116</u> C.D.C. NO: <u>—</u>
---------------------	--	--

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>JACK FROST R</u> WELL #: <u>1E</u> PIT: <u>BLow</u>	DATE STARTED: <u>10-10-94</u>
QUAD/UNIT: <u>M</u> SEC: <u>27</u> TWP: <u>27N</u> RNG: <u>04</u> BM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: <u>—</u>
QTR/FOOTAGE: <u>SW/SW</u> CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>PLO</u>

EXCAVATION APPROX. <u>55</u> FT x <u>50</u> FT x <u>12</u> FT DEEP. CUBIC YARDS: <u>800</u>
DISPOSAL FACILITY: <u>ON SITE</u> REMEDIATION METHOD: <u>COMPOST</u>
LAND USE: <u>RANGE</u> LEASE: <u>FED. USE # SF-077951A</u> FORMATION: <u>—</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>180</u> FEET <u>S70°W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>50'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOC RANKING SCORE: <u>10</u> NMOC TPH CLOSURE STD: <u>1000</u> PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: TO BE ABANDONED

MOIST, BROWN, SAND TO SILTY SAND - NO OIL / JMIN.

FIELD 418: CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
CB@12'	1180	10.0	20.0	—	10	20

CLOSE PIT

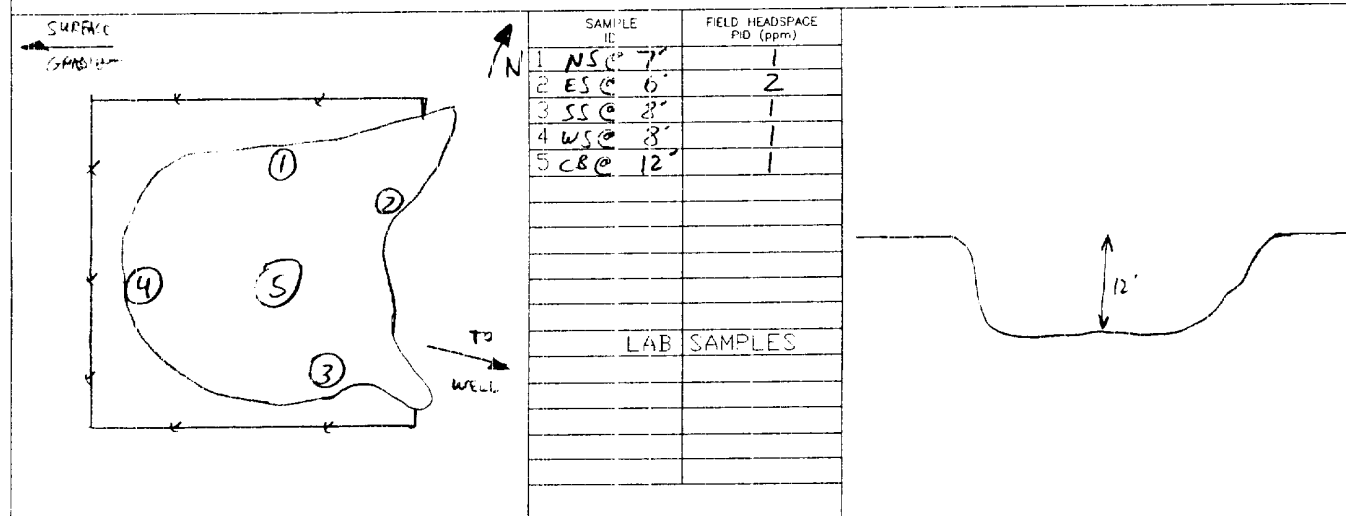
SCALE

0 10 20 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

TRAVEL NOTES: CALLOUT: 10-7-94 ONSITE: 10-10-94 1015

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: C Bottom @ 12'
Project Location: Jack Frost B 1E
Laboratory Number: TPH-1180

Project #:
Date Analyzed: 10-10-94
Date Reported: 10-10-94
Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	20	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	4,020	4,220	5

*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 - B0116

R. E. O'Neil
Analyst

John Wiley
Review

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

PTT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: JACK FROST B #1E
Well Name
Location: Unit or Qtr/Qtr Sec M Sec 27 T 27N R 10W County SAN JUAN
Pit Type: Separator Dehydrator X Other
Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 15', width 15', depth 11'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 140
Direction from reference: 5 Degrees East North
X West of 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) 10

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) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 10-10-99Remediation Method: Excavation X Approx. cubic yards 75
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____Other compostRemediation Location: Onsite X Offsite _____
(ie. landfarmed onsite,
name and location of
offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No X 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 10-10-99 Sample time _____

Sample Results

Benzene(ppm) 0.011Total BTEX(ppm) 5.889Field headspace(ppm) 1100TPH 626 ppmGround Water Sample: Yes _____ No X (If yes, attach sample results)I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST
OF MY KNOWLEDGE AND BELIEFDATE 10/14/99SIGNATURE B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator

FINAL RESULTS TO JOHN 10-12-94 R E O
MESSAGE TO JOHN N, 10-10-94 R E O

CLIENT: <u>AM06</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0116</u> C.O.C. NO: <u>2059</u>
---------------------	--	---

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME <u>JACK FROST B</u> WELL #: <u>1E</u> PIT: <u>DEHY</u>	DATE STARTED: <u>10-10-94</u>
QUAD/UNIT: <u>M</u> SEC: <u>27</u> TWP: <u>27N</u> RNG: <u>10 W</u> BM: <u>NM</u> CNTY: <u>ST. NM</u>	DATE FINISHED: _____
GIP/FOOTAGE: <u>SW/SW</u> CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>R E O</u>

EXCAVATION APPROX. 15 FT. x 15 FT. x 11 FT DEEP. CUBIC YARDS: 75
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: COMPOST
LAND USE: RANGE LEASE FED. LSE # SF-077951A FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 140 FEET S 5° W FROM WELLHEAD.
DEPTH TO GROUNDWATER: 750' NEAREST WATER SOURCE: 7100' NEAREST SURFACE WATER: 7100'
NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: STEEL PIT TO BE INSTALLED.

MOIST, BROWN, SAND. ODOR IN SIDEWALLS + BOTTOM - SOME STAINING VISIBLE.
(SAMPLES COLLECTED WITH BACKHOE.) SILTYLOAM, SANDSTONE BOTTOM.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FRECN	DILUTION	READING	CALC. ppm
ES@6'	1181	10.0	20.0	—	313	626

BTEX OK
CLOSE PIT

SCALE

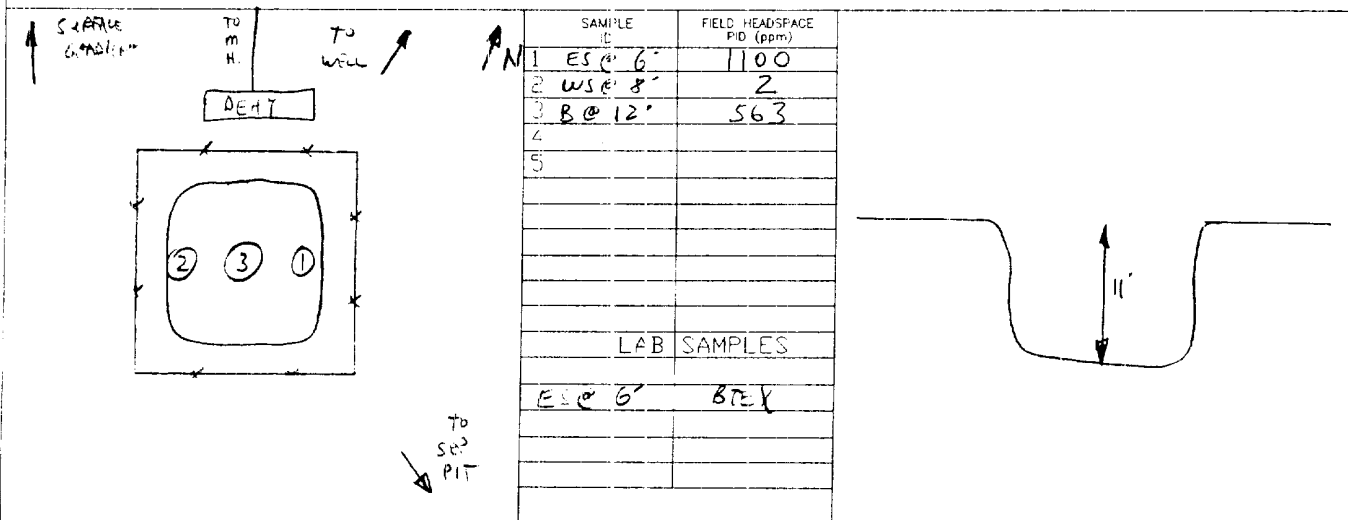


0 5 10 FT

PIT PERIMETER

OVM
RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 10-7-94 ONSITE: 10-10-94 1130

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:	E Side @ 6'	Date Analyzed:	10-10-94
Project Location:	Jack Frost B 1E	Date Reported:	10-10-94
Laboratory Number:	TPH-1181	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	630	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff
	-----	-----	-----
	4,020	4,220	5

*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 - B0116

R. E. O'Neill
Analyst

William V. H.
Review

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *R. E. O'Neill*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: 10/11/94
Lab ID: 2059
Sample ID: 3505
Job No. 2-1000

Project Name: *Jack Frost B #1E*
Project Location: *E. Side @ 6' - Dehy. Pit*
Sampled by: REO Date: 10/10/94
Analyzed by: DLA Date: 10/11/94
Sample Matrix: *Soil*

Time: 11:30

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
<i>Benzene</i>	<i>11.0</i>	<i>0.2</i>
<i>Toluene</i>	<i>449</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>284</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>3,931</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>1,214</i>	<i>0.2</i>
	TOTAL <i>5,889 ug/kg</i>	

ND - Not Detectable

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

Approved by: 

Date: *10/11/94*

P. O. BOX 2606 • FARMINGTON, NM 87499

10/11/94 Bloomfield, NM 87413

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

80116
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:	JACK FROST B #1E		
Well Name			
Location: Unit or Qtr/Qtr Sec	M	Sec 27	T27N R10W County SAN JUAN
Pit Type:	Separator <input checked="" type="checkbox"/> Dehydrator <input type="checkbox"/> Other <input type="checkbox"/>		
Land Type:	BLM <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Other <input type="checkbox"/>		

Pit Location:	Pit dimensions: length 15', width 15', depth 10'		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>		
	Footage from reference: 160		
	Direction from reference: 20 Degrees <input checked="" type="checkbox"/> East North <input type="checkbox"/>		
	West South <input checked="" type="checkbox"/>		

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) 10
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):		10

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 10/14/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

