

Blow - OK - 12/14/01

80146

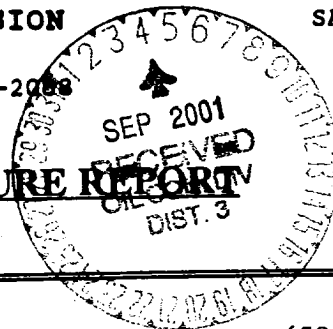
District I
B.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

sep - batrock

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: STATE GAS CO. BF #1
Well Name
Location: Unit or Qtr/Qtr Sec A sec 16 T29N R9W County SAN JUAN
Pit Type: Separator Dehydrator Other Blow
Land Type: BLM, State X, Fee, Other

Pit Location: Pit dimensions: length 22', width 20', depth 11'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 175
Direction from reference: 75 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) 0

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): 0

Date Remediation Started: _____ Date Completed: 11-2-94

Remediation Method: Excavation X Approx. cubic yards 175
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation, BEDROCK BOTTOM. ^{ms}

Dmoco letter correspondence

12-4-96

Ground Water Encountered: No X 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 11-2-94 Sample time _____

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 5.358

Field headspace(ppm) 903

TPH 550 ppm

Ground 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 11/4/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

RESULTS TO BOB MCCOY 11-4-99 RLO

CLIENT: <u>Amoco</u>	RESULTS TO Bob McCol 11-9-97 BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80146</u> C.O.C. NO: <u>1247</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: STATE GAS COM RFWELL #: 1	PIT: BLOW	DATE STARTED: 11-2-94
QUAD/UNIT: A	SEC: 16 TWP: 29N RNG: 9W BM: NM CNTY: SJ ST: NM	DATE FINISHED: _____
QTR/FOOTAGE: NE / NE	CONTRACTOR: PAUL + SONS	ENVIRONMENTAL SPECIALIST: RCO

EXCAVATION APPROX. 20 FT. x 22 FT. x 11 FT. DEEP. CUBIC YARDS: 175
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: - FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 175 FEET S75°W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: As used

0-7' : MOIST, BROWN, SILTY SAND - NO OOR/STAIN.

7-10': med. soft sandstone - slightly obs.

Bottom: ~~HARD~~ SANDSTONE. - SLIGHT COR.

9✓
BEDROCK
BOTTOM

CLOSED 725

FIELD 418.1 CALCULATIONS

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
NS @ 6'	1246	10.0	20.0	—	275	550

CLOSE, PIT

SCALE

[illegible]

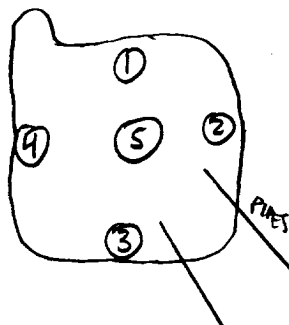
0 5 10 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

 SURFACE GRADIENT



N ↑
TO →
WALL

[illegible]

TRAVEL NOTES: CALLOUT: 11-1-94 ONSITE: 11-2-94 1200

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:	N Side @ 6'	Date Analyzed:	11-02-94
Project Location:	State Gas Com BF 1	Date Reported:	11-02-94
Laboratory Number:	TPH-1246	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	550	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	3,400	2,920	15

*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 - B0146

R. E. O'Neill
Analyst

Nelson Velazquez
Review

OFF: (505) 325-8786



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: *11/3/94*
Lab ID: *2247*
Sample ID: *3827*
Job No. *2-1000*

Project Name: *State GC BF #1*
Project Location: *N. Side @ 6' - Blow Pit*
Sampled by: *REO* Date: *11/2/94*
Analyzed by: *DLA* Date: *11/3/94*
Sample Matrix: *Soil*

Time: *12:40*

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
<i>Benzene</i>	<i>ND</i>	<i>0.2</i>
<i>Toluene</i>	<i>265</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>143</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>3,973</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>977</i>	<i>0.2</i>
	TOTAL <i>5,358 ug/kg</i>	

ND - Not Detectable

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

Approved by:

Date:

[Signature]
11/3/94

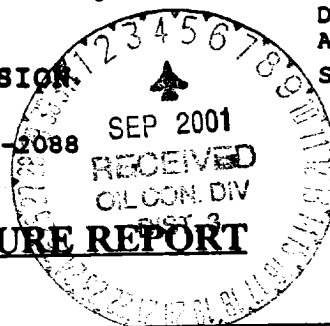
P. O. BOX 2606 • FARMINGTON, NM 87499

— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

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

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 87504-2088



PIT REMEDIATION AND CLOSURE REPORT

Land Type: BLM____, State X, Fee ____, Other ____

Pit Location: Pit dimensions: length 22', width 12', depth 6'
(Attach diagram) Reference: wellhead X, other _____
Footage from reference: 160
Direction from reference: 45 Degrees X East North _____

Reference: wellhead X, other

Footage from reference: 160

Direction from reference: 45 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) 0

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): 0

Date Remediation Started: _____

Date Completed: 11-2-94

Remediation Method: Excavation X
(Check all appropriate sections) Landfarmed X

Approx. cubic yards 50

Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: _____

Excavation. BEDROCK BOTTOM. RISK ASSESSED.

DMOD letter correspondence

12-496

Ground Water Encountered:

No X

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 8'

Sample date 11-2-94

Sample time _____

Sample Results

Benzene(ppm) 0.070

Total BTEX(ppm) 66.894

Field headspace(ppm) 721

TPH 2240 ppm

Ground 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 11/4/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

RESULTS TO BOB MCCOY 11-4-74 REO

CLIENT: <u>Amoco</u>	RESULTS TO Bob McCoy 11-8-77 REC BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80146</u> C.D.C. NO: <u>1247</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: STATE GAS COM BF WELL #: 1	PIT: SEP.	DATE STARTED: 11-2-94
QUAD/UNIT: A	SEC: 16 TWP: 29N RNG: 9W BM: NM CNTY: SJ ST:	DATE FINISHED:
QTR/FOOTAGE: NE/NE	CONTRACTOR: PAUL + SONS	ENVIRONMENTAL SPECIALIST: RLO

EXCAVATION APPROX. 12 FT. x 22 FT. x 6 FT. DEEP. CUBIC YARDS: 50
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFILL
LAND USE: RANGE LEASE: - FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>160</u> FEET <u>S45°E</u> FROM WELLHEAD.		
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER: <u>>1000'</u>	
NMOCB RANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5000</u> PPM		

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

PIT EXCAVATED INTO HARD SANDSTONE - ADDITIONAL EXCAVATION NOT FEASIBLE.

MOIST, BROWN $\rightarrow$ GRAY/BROWN - SOME STAIN + odor.

EXCAVATOR SCANNED BOTTOM SAMPLE.

RISK ASSESSED DUE TO BEDROCK

SANDSTONE
BEDROCK

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
CB@ 8'	1247	10.0	20.0	10	112	2240

SCALE

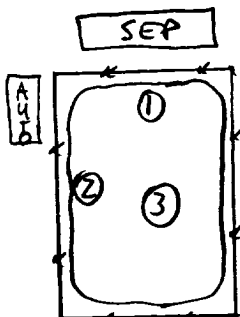
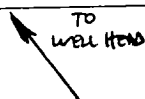


0 5 10 FT

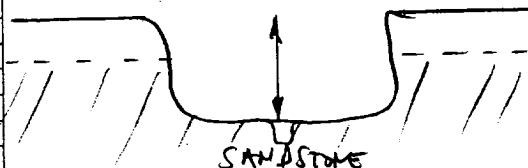
PIT PERIMETER

OVM RESULTS

PIT PROFILE



SURFACE GRADIENT

[illegible]

TRAVEL NOTES: CALLOUT: 11-1-97 ONSITE: 11-2-97 1300

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 @ 8'
Project Location: State Gas Com BF 1
Laboratory Number: TPH-1247

Project #:
Date Analyzed: 11-02-94
Date Reported: 11-02-94
Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	2200	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	3,400	2,920	15

*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: Separator Pit - B0146

R. E. Ornelas
Analyst

Nelson Velly
Review

OFF: (505) 325-8786



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: **11/3/94**
Lab ID: **2247**
Sample ID: **3828**
Job No. **2-1000**

Project Name: **State GC BF #1**
Project Location: **C. Bottom @ 8' - Separator Pit**
Sampled by: **REO** Date: **11/2/94**
Analyzed by: **DLA** Date: **11/3/94**
Sample Matrix: **Soil**

Time: **13:40**

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	70	0.2
Toluene	11,099	0.2
Ethylbenzene	2,659	0.2
m,p-Xylene	42,634	0.2
o-Xylene	10,433	0.2
	TOTAL 66,894 ug/kg	

ND - Not Detectable

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

Approved by:
Date:

[Signature]
11/3/94

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Date: _____

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

93105

[illegible]

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 80146C.D.C. NO: 5668

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: STATE GC BF WELL #: 1 PITS: SEP, BlowDATE STARTED: 1/21/98

DATE FINISHED: _____

QUAD/UNIT: A SEC: 16 TWP: 29N RNG: 9W PM: NM CNTY: ST ST: NMENVIRONMENTAL
SPECIALIST: NVQTR/FOOTAGE: NEL4 NEL4 CONTRACTOR: P & S

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMEDAPPROX. CUBIC YARDAGE: 225LAND USE: RANGELIFT DEPTH (ft): 6"-36"

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

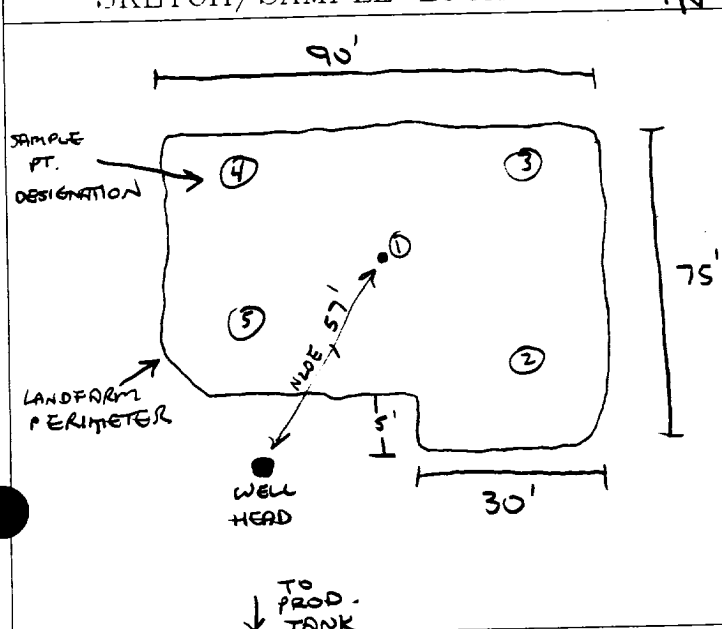
SOIL SPREAD OUT AS SHOWN BELOW IN 24"-36" MOUNDS, SOIL CONSIST MOSTLY OF DR. YELL. BROWN SAND TO OLIVE OR DR. GREENISH GRAY SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM TO STIFF, NO APPARENT HC ODOR OBSERVED W/IN OVM SAMPLE.

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 (B015)	1100	ND

SCALE



0 FT

TRAVEL NOTES:

CALLOUT: 1/21/98 morn.ONSITE: 1/21/98 morn.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

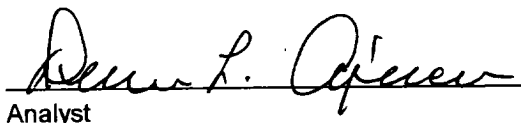
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-22-98
Laboratory Number:	C819	Date Sampled:	01-21-98
Chain of Custody No:	5668	Date Received:	01-21-98
Sample Matrix:	Soil	Date Extracted:	01-21-98
Preservative:	Cool	Date Analyzed:	01-22-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

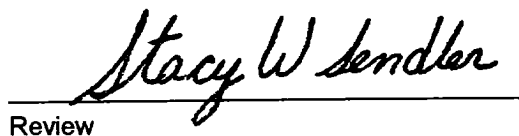
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **State GC BF #1 Landfarm. 5 Pt. Composite.**


Analyst


Review

CHAIN OF CUSTODY RECORD

[illegible]