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: CONOCO INC **Telephone:** (505) 327-9557

Address: 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NM 8740

Facility Or: Well Name MOBIL FEDERAL NO. 1

Location: Unit or Qtr/Qtr Sec J Sec 36 T 24N R 1W County RIO ARRIBA

Pit Type: Separator ___ Dehydrator ___ Other BLOW

Land Type: BLM X, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 57, width 45, depth 19
Reference: wellhead X, other ___
Footage from reference: 85'
Direction from reference: S 77° Degrees ___ East North ___ of X 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)	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: 10/20/97 **Date Completed:** 4/22/98

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

Landfarmed X Insitu Bioremediation ___

Other _____

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

General Description Of Remedial Action: _____

Excavation - BACKFILLED WITH CLEAN FILL.

Contaminated soil placed into landfarm on site.

LANDFARM Tested clean 4/22/98

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 13'

Sample date 10/27/97 Sample time 1015

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 1.2

Field headspace(ppm) —

TPH 24.5

Additionally, Pit @ 17', center, sampled 10/24/97, TPH = 100 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 JUNE 2, 1998

SIGNATURE Jeffrey C. Blagg PRINTED NAME AND TITLE JEFFREY C, BLAGG- AGENT

CLIENT: CONOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: CA505
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: MOBILE FEDERAL WELL #: 1 PIT: BLOW
QUAD/UNIT: J SEC: 36 TWP: 24N RNG: 1W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: NW/4 SE/4 CONTRACTOR: J. VALDEZ

DATE STARTED: 10/20/97
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 57 FT. x 45 FT. x 19 FT. DEEP. CUBIC YARDAGE: 1,800
DISPOSAL FACILITY: SCHMITZ REMEDIATION METHOD: LANDFARMED
LAND USE: RANGE LEASE: NM - 28669 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85 FT. S77W FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED

B.G.S. = BELOW GROUND SURFACE

SOIL AND EXCAVATION DESCRIPTION:

NORTH & EAST SIDEWALLS - SAND (0-7' B.G.S.), SILTY SAND (7-10' B.G.S.) CLAY (10-16' B.G.S.), SILTY SAND LT. GRAY TO OLIVE GRAY IN COLOR, STRONG HC ODOR, CONTAMINATION LIMITED TO 7-10' B.G.S. INTERVAL.

SOUTH SIDEWALL - BLACK SILTY SAND TO CLAY (10-16' B.G.S.), STRONG HC ODOR, WILL EXCAVATE BASED ON ODOR & VISUAL.

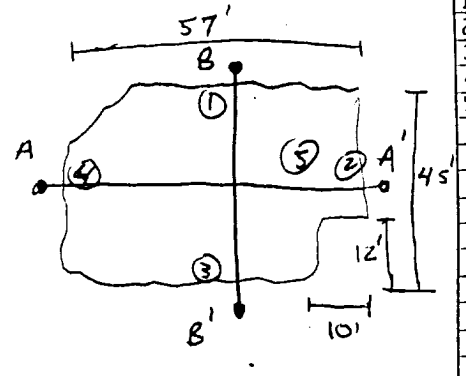
WEST SIDEWALL - SAND (0-7' B.G.S.), SILTY SAND (7-10' B.G.S. NO ODOR), CLAY (10'-16' B.G.S. NO ODOR).

PIT BOTTOM - SILTY SAND, DK. YELL. BROWN NO ODOR. FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0945	⑤ @ 17'	TPH - 1921	5	20	1:1	25	100

SCALE
0 FT

PIT PERIMETER



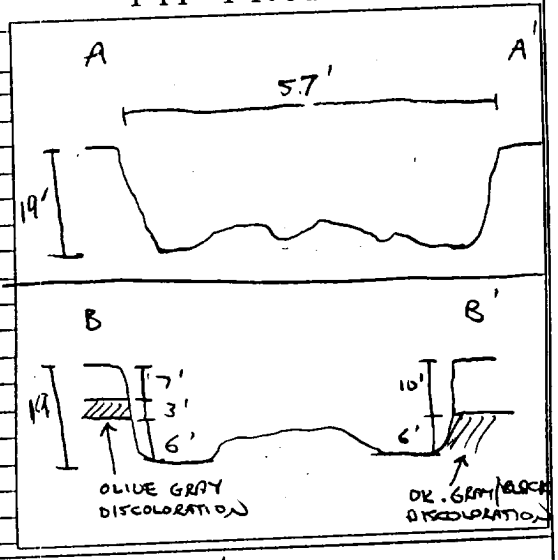
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 13'	0.0
2 @ 11'	0.0
3 @ 11'	3.9
4 @ 11'	33.0
5 @ 17'	67.6

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: 10/20/97, 10/24/97,

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:	Conoco	Project #:	
Sample ID:	5 @ 17'	Date Analyzed:	10-24-97
Project Location:	Mobil Federal # 1	Date Reported:	10-24-97
Laboratory Number:	TPH-1922	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	100	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
608	568	6.80

*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 - CA505

Nelson Velez
Analyst

A. C. Blagg
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:	Conoco	Project #:	
Sample ID:	5 @ 17'	Date Analyzed:	10-24-97
Project Location:	Mobil Federal # 1	Date Reported:	10-24-97
Laboratory Number:	TPH-1922	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	25	mg/kg
TPH Result:	100.0	mg/kg
Reported TPH Result:	100	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.
608	568	6.80

Comments: **********Max Characters**********

Comments: Blow Pit - CA505

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	S. Wall @ 13'	Date Reported:	10-28-97
Laboratory Number:	C371	Date Sampled:	10-27-97
Chain of Custody:	5546	Date Received:	10-27-97
Sample Matrix:	Soil	Date Analyzed:	10-28-97
Preservative:	Cool	Date Extracted:	10-27-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**8.8**
Toluene	**260**	**8.4**
Ethylbenzene	**166**	**7.6**
p,m-Xylene	**564**	**10.8**
o-Xylene	**231**	**5.2**
Total BTEX	**1,221**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**98 %**
	Bromofluorobenzene	**98 %**

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: **Mobil Federal #1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	S . Wall @ 13'	Date Reported:	10-28-97
Laboratory Number:	C371	Date Sampled:	10-27-97
Chain of Custody No:	5546	Date Received:	10-27-97
Sample Matrix:	Soil	Date Extracted:	10-27-97
Preservative:	Cool	Date Analyzed:	10-28-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.3**	**0.2**
Diesel Range (C10 - C28)	**23.2**	**0.1**
Total Petroleum Hydrocarbons	**24.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Mobil Federal #1.**

Analyst

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5546

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BLAGG / CONOCO	MOBIL FEDERAL #1
Sampler: (Signature) J. C. Blagg	Chain of Custody Tape No. 04034-10

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8020					Remarks
S. WALL @ 13'	10-27-97	1015	C371	Soil	1	X	X					

Sample received cool : intact. CW

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	10-27-97	1450	Christine Walters	10-27-97	14:50
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

CLIENT: CONOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: CA505
C.O.C. NO: _____

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: MOBIL FED WELL #: 1 PITS: 1
QUAD/UNIT: J SEC: 36 TWP: 24N RNG: 1W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: NW/4 SE/4 CONTRACTOR: J. VALDEZ

DATE STARTED: 4-22-98
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: JCB

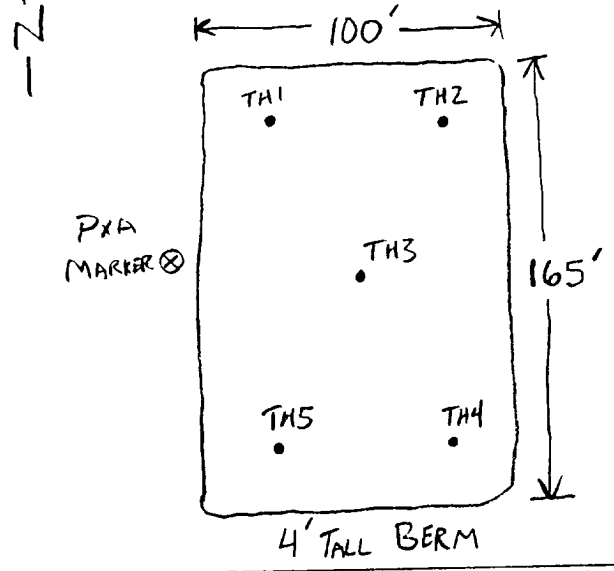
SOIL REMEDIATION:
REMEDIATION SYSTEM: LANDFARM
LAND USE: RANGE
APPROX. CUBIC YARDAGE: 2,000 ±
LIFT DEPTH (ft): 18"

FIELD NOTES & REMARKS:
DEPTH TO GROUNDWATER: <100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1,000 PPM
Dug 5 ea Testholes with shovel from 0"-18". Collected soil SAMPLE FROM Each hole @ depth of 6"-18".

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
TH1	294
TH2	560
TH3	204
TH4	479
TH5	444

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
5 pt. Comp	8015 8020	1210	

SCALE
0 FT

TRAVEL NOTES: CALLOUT: 7:00 AM 4/22/98 ONSITE: 11:00 AM 4/22/98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	Landfarm 5 pt. Composite	Date Reported:	04-24-98
Laboratory Number:	D143	Date Sampled:	04-22-98
Chain of Custody No:	5871	Date Received:	04-22-98
Sample Matrix:	Soil	Date Extracted:	04-23-98
Preservative:	Cool	Date Analyzed:	04-23-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**25.6**	**0.2**
Diesel Range (C10 - C28)	**260**	**0.1**
Total Petroleum Hydrocarbons	**286**	**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: **Mobile Fed # 1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	Landfarm 5 pt. Composite	Date Reported:	04-23-98
Laboratory Number:	D143	Date Sampled:	04-22-98
Chain of Custody:	5871	Date Received:	04-22-98
Sample Matrix:	Soil	Date Analyzed:	04-23-98
Preservative:	Cool	Date Extracted:	04-23-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**32.6**	**17.5**
Toluene	**462**	**16.7**
Ethylbenzene	**3,170**	**15.2**
p,m-Xylene	**10,910**	**21.6**
o-Xylene	**4,370**	**10.4**
Total BTEX	**18,940**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**97 %**
	Bromofluorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-84 USEPA, December 1996.

Comments: **Mobile Fed #1.**

Analyst

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5871

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BLAGG/CONOCO	MOBILE FED #1	

Sampler: (Signature) J. C. Blagg

Chain of Custody Tape No. 04034-10

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015 TPH	8020 BTEX					Remarks
LANDFARM 5 pt. Composite	4-22-98	1210	D143	SOIL	1	X	X					
					Samples received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	4-22-98	1425	Dena L. Ojeda	4-22-98	1425
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615