

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

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: MOORE # 5

Well Name
Location: Unit or Qtr/Qtr Sec N Sec 9 T30N R 8W County SAN JUAN
Pit Type: Separator Dehydrator Other ABANDONED BLOW
Land Type: BLM ✓, State , Fee , Other
Pit Location: Pit dimensions: length 25', width 21', depth 13'
(Attach diagram)

Reference: wellhead X, other
Footage from reference: 65'
Direction from reference: 74 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) 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: 8/7/00

Remediation Method: Excavation ☒ Approx. cubic yards 250
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other COMPOSTED

Remediation Location: Onsite _____ Offsite ☒ NYE GC B#1E (E-7-29-9)
(ie. landfarmed onsite, name and location of offsite facility) TRANSPORTED TO CROUCH MESA 3/01. NV

General Description Of Remedial Action: _____
Excavation. BEDROCK BOTTOM.

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 8' (NORTH SIDEWALKS)

Sample date 8/4/00 Sample time 0950

Sample Results

Benzene(ppm) 0.151

Total BTEX(ppm) 5.260

Field headspace(ppm) 248.1

TPH 114 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 8/7/00

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80778</u> C.D.C. NO: <u>7329</u>
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: <u>MOORE</u>	WELL #: <u>5</u>	PIT AREA: <u>BLOW</u>	DATE STARTED: <u>8/4/00</u>
QUAD/UNIT: <u>N</u> SEC: <u>9</u> TWP: <u>30N</u>	RNG: <u>8W</u>	PM: <u>NM</u> CNTY: <u>STNM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>990'S/1805'W</u>	SESW	CONTRACTOR: <u>FLINT</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. 25 FT. x 21 FT. x 13 FT. DEEP. CUBIC YARDAGE: 250

DISPOSAL FACILITY: NYE GC BITE (E-7-29-9) REMEDIATION METHOD: COMPOSTED

LAND USE: RANGE LEASE: CA 14080012472 FORMATION: MU

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>65</u> FT. <u>574E</u> FROM WELL HEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED ☐ FIBERGLASS TANK INSTALLED
	DVM CALIB. READ. <u>51.6</u> ppm TIME: <u>0815</u> @ pm <u>8/4/00</u>

SIDEWALLS - TOP 6-8' BELOW GRADE CONSIST OF DR. YELL. ORANGE SAND EXCEPT WEST SIDEWALL (DOWN TO APPROX. 10'), REMAINING PORTION CONSIST OF SILTY CLAY PHASING INTO CLAY OLIVE TO BLACK IN COLOR COHESIVE TO SLIGHTLY PLASTIC, FIRM TO VERY STIFF, HC ODOR DETECTED IN ALL OVM SAMPLES.

BOTTOM - BEDROCK (SHALE), MED. GRAY TO BLACK IN COLOR, SOFT TO HARD, HC ODOR DETECTED IN OVM SAMPLE.

BECKROCK
BOTTOM
(sh)

CLOSED

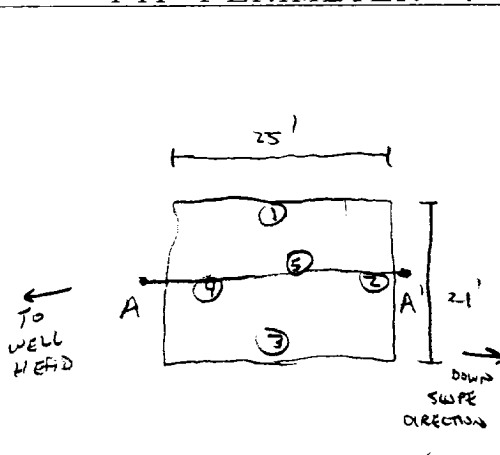
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0950							

SCALE

0 FT

PIT PERIMETER



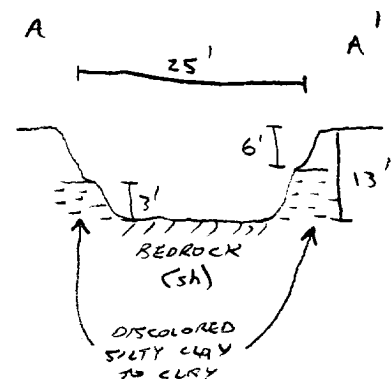
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 8'	248.1
2 @ 9'	279
3 @ 8'	137.4
4 @ 8'	223.8
5 @ 13'	161.3

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 8'	TPH (8015)	0950
"	BTEX (8021)	"
BOTH PASSED		

PIT PROFILE



TRAVEL NOTES: CALLOUT: 8/4/00 - MORN. ONSITE: 8/4/00 - MORN.

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

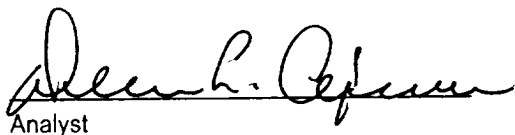
Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	1 @ 8'	Date Reported:	08-07-00
Laboratory Number:	H862	Date Sampled:	08-04-00
Chain of Custody No:	7329	Date Received:	08-04-00
Sample Matrix:	Soil	Date Extracted:	08-07-00
Preservative:	Cool	Date Analyzed:	08-07-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

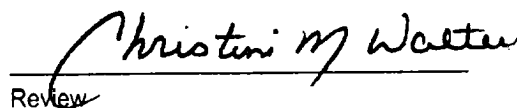
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	97.9	0.2
Diesel Range (C10 - C28)	16.5	0.1
Total Petroleum Hydrocarbons	114	0.1

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: **Moore # 5 Abandoned Blow Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	1 @ 8'	Date Reported:	08-07-00
Laboratory Number:	H862	Date Sampled:	08-04-00
Chain of Custody:	7329	Date Received:	08-04-00
Sample Matrix:	Soil	Date Analyzed:	08-07-00
Preservative:	Cool	Date Extracted:	08-07-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	151	1.8
Toluene	1,030	1.7
Ethylbenzene	810	1.5
p,m-Xylene	1,610	2.2
o-Xylene	1,670	1.0
Total BTEX	5,260	

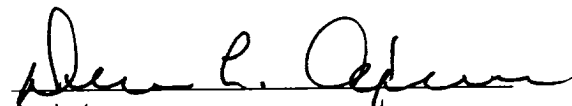
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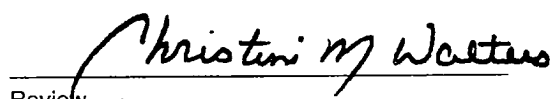
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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-846, USEPA, December 1996.

Comments: Moore # 5 Abandoned Blow Pit.


Analyst


Review

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District III

1 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 87504-2088SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICEPIT REMEDIATION AND CLOSURE REPORTOperator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: MOORE #5
Well NameLocation: Unit or Qtr/Qtr Sec N Sec 9 T 30N R 8W County SAN JUANPit Type: ABANDONED Separator ☒ ABANDONED Dehydrator ☒ Other ☐Land Type: BLM ☒, State ☐, Fee ☐, Other ☐Pit Location: Pit dimensions: length 21', width 23', depth 11'
(Attach diagram)Reference: wellhead X, other ☐Footage from reference: 159'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) 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) 0
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) 0RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 8/7/00

Remediation Method: Excavation ☒ Approx. cubic yards 190
 (Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
 Other COMPOSTED

Remediation Location: Onsite _____ Offsite ☒ NYE GC B #1E (E-7-29-9)
 (ie. landfarmed onsite, name and location of offsite facility) TRANSPORTED TO CROWN MESA 3/01. ⁹⁵

General Description Of Remedial Action: _____
Excavation, BEDROCK BOTTOM.

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 7' (NORTH SIDEWALLS)
 Sample date 8/4/00 Sample time 0920

Sample Results

Benzene(ppm) 0.166
 Total BTEX(ppm) 4.840
 Field headspace(ppm) 609
 TPH 63.2 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 8/7/00

SIGNATURE

BDS ShawPRINTED NAME
AND TITLEBuddy D. Shaw
ENVIRONMENTAL COORDINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80778</u> C.O.C. NO: <u>7329</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>MOORE</u> WELL #: <u>5</u> PIT: <u>ABAND. SEPTIC</u> QUAD/UNIT: <u>N SEC: 9 TWP: 30N RNG: 8W PM: NM CNTY: ST ST: NM</u> QTR/FOOTAGE: <u>990'S/1805'W</u> <u>SESW</u> CONTRACTOR: <u>FLINT</u>	DATE STARTED: <u>8/4/00</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>21</u> FT. x <u>23</u> FT. x <u>11</u> FT. DEEP. CUBIC YARDAGE: <u>190</u>
DISPOSAL FACILITY: <u>NYE GC BIE (E-7-29-9)</u> REMEDIATION METHOD: <u>COMPOSTED</u>
LAND USE: <u>RANGE</u> LEASE: <u>CA 14080012472</u> FORMATION: <u>MV</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>159</u> FT. <u>SSE</u> FROM WELL HEAD	
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER: <u>>1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM	CHECK ONE: ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED ☐ FIBERGLASS TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS - TOP 3.5 - 5.0 FT. BELOW GRADE CONSIST OF DK. YELL. ORANGE SAND, REMAINING PORTION CONSIST OF DUNE TO DK. GRAY SILTY CLAY PASSING INTO CLAY, COHESIVE TO SLIGHTLY PLASTIC, SLIGHTLY MOIST, FIRM TO STIFF,

BOTTOM - BEDROCK (SHALE), MED. TO DK. GRAY IN COLOR, SOFT TO HARD,

BEDROCK BOTTOM (SH)

CLOSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0920							

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 7'	609
2 @ 6'	217
3 @ 6'	176.4
4 @ 6'	166.3
5 @ 11'	138.4

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 7'	TPH (8015)	0920
"	BTEX (8021)	"
<u>TOTAL PASSED</u>		

TRAVEL NOTES:	CALLOUT: <u>8/4/00 - MORN.</u>	ONSITE: <u>8/4/00 - MORN.</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

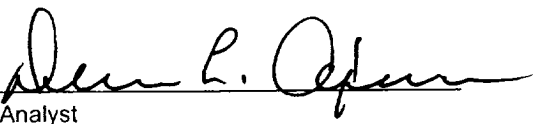
Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	1 @ 7'	Date Reported:	08-07-00
Laboratory Number:	H861	Date Sampled:	08-04-00
Chain of Custody No:	7329	Date Received:	08-04-00
Sample Matrix:	Soil	Date Extracted:	08-07-00
Preservative:	Cool	Date Analyzed:	08-07-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

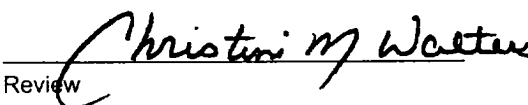
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	60.6	0.2
Diesel Range (C10 - C28)	2.6	0.1
Total Petroleum Hydrocarbons	63.2	0.1

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: **Moore # 5 Abandoned Separator / Dehydrator Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	1 @ 7'	Date Reported:	08-07-00
Laboratory Number:	H861	Date Sampled:	08-04-00
Chain of Custody:	7329	Date Received:	08-04-00
Sample Matrix:	Soil	Date Analyzed:	08-07-00
Preservative:	Cool	Date Extracted:	08-07-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	166	1.8
Toluene	1,120	1.7
Ethylbenzene	486	1.5
p,m-Xylene	1,860	2.2
o-Xylene	1,210	1.0
Total BTEX	4,840	

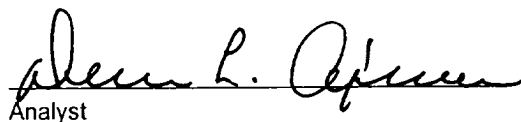
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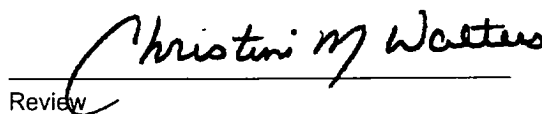
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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-846, USEPA, December 1996.

Comments: **Moore # 5 Abandoned Separator / Dehydrator Pit.**


Analyst


Review

729

ENVIROTECH INC.

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