

RECEIVED
JUL 13 1999

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

DEPUTY OIL & GAS INSPECTOR
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION
AUG 13 1999
OK

OIL CON. DIV.
DIST. 3
PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA A # 5
Location: Unit or Qtr/Qtr Sec G Sec 20 T 26N R SW County RIO ARZIBA
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 24', width 22', depth 14'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 87'
Direction from reference: 30 Degrees X East of North
 West of South X

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	<u> </u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	<u> </u>
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)	<u>0</u>
	No	(0 points)	<u> </u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	
	100 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

Date Remediation Started: _____ Date Completed: 11/23/98

Remediation Method: Excavation Landfarmed Other _____
Check all appropriate sections) Approx. cubic yards 200 Insitu Bioremediation _____

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

General Description of Remedial Action: Excavation. BEARSER BOTTOM.

Groundwater 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 _____
Sample date 11/19/98 Sample time 0915

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.318</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>156.3</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>0.4</u>	Total Xylenes	(ppb)	_____

Groundwater 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 11/23/98 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES NO _____ (REASON) _____

SIGNED: [Signature] DATE: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BT678</u> C.O.C. NO: <u>6306</u>
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FIELD REPORT: CLOSURE VERIFICATION PAGE No: 1 of 1

LOCATION: NAME: <u>TICAPILLA</u> A WELL #: <u>5</u> PIT: <u>BLW</u>	DATE STARTED: <u>11/19/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>G</u> SEC: <u>20</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>1750' JUL / 1450' FEL</u> CONTRACTOR: <u>P & S</u>	

EXCAVATION APPROX. 24 FT. x 22 FT. x 14 FT. DEEP. CUBIC YARDAGE: 200

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: TIC A FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 87 FT. 5306 FROM WELLHEAD.

DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

SIDEWALLS - NORTH & WEST SIDEWALLS MOSTLY DUSKY RED/LT GRAY CLAY EAST & SOUTH SIDEWALLS PREDOMINATELY VERY PALE ORANGE TO OLIVE GRAY SILTY CLAY, COHESIVE, SLIGHTLY MOIST STIFF TO VERY STIFF NO APPARENT STAINING OBSERVED, HC ODOR DETECTED IN NORTH SIDEWALL OUM SAMPLE ONLY.

BOTTOM - BEDROCK (SHALE), VERY PALE ORANGE TO OLIVE GRAY, HARD, NO APPARENT HC ODOR DETECTED IN OUM SAMPLE.

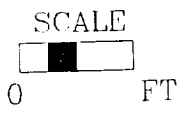
- CHECK ONE:
- PIT ABANDONED
 - STEEL TANK INSTALLED
 - FIBERGLASS TANK INSTALLED

BEDROCK BOTTOM

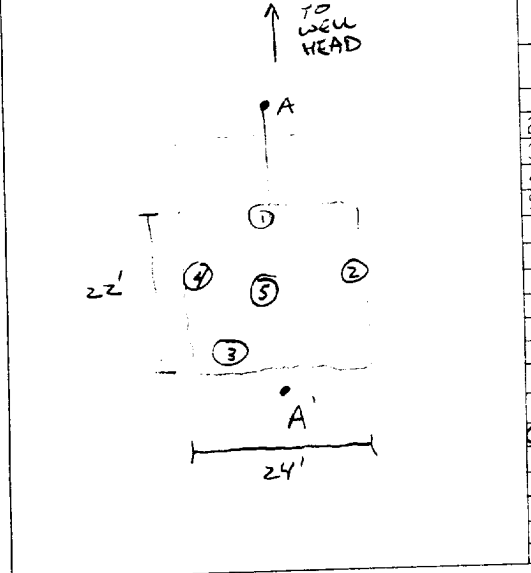
CLOSED

FIELD 418.1 CALCULATIONS

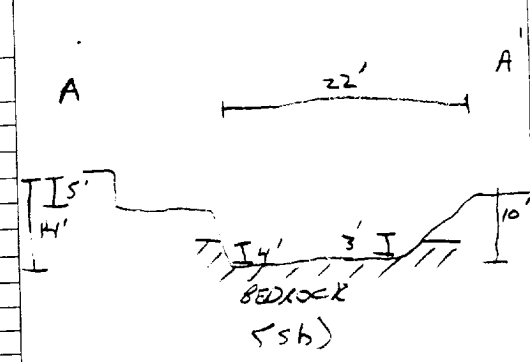
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm



PIT PERIMETER



PIT PROFILE



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 10'	156.2
2 @ 9'	0.0
3 @ 9'	0.0
4 @ 10'	0.0
5 @ 14'	17.2

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
0e10'	TPH/STX	0915
<u>BOTH PASSED</u>		

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

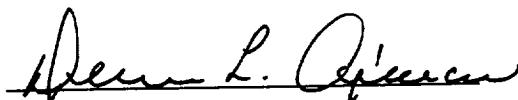
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 10'	Date Reported:	11-23-98
Laboratory Number:	E199	Date Sampled:	11-19-98
Chain of Custody No:	6306	Date Received:	11-20-98
Sample Matrix:	Soil	Date Extracted:	11-23-98
Preservative:	Cool	Date Analyzed:	11-23-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.4	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: **Jicarilla A #5 Blow Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 10'	Date Reported:	11-23-98
Laboratory Number:	E199	Date Sampled:	11-19-98
Chain of Custody:	6306	Date Received:	11-20-98
Sample Matrix:	Soil	Date Analyzed:	11-23-98
Preservative:	Cool	Date Extracted:	11-23-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	24.6	7.6
p,m-Xylene	206	10.8
o-Xylene	87.2	5.2
Total BTEX	318	

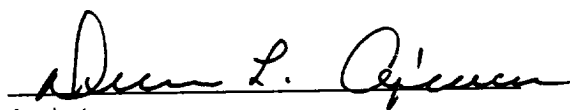
ND - Parameter not detected at the stated detection limit.

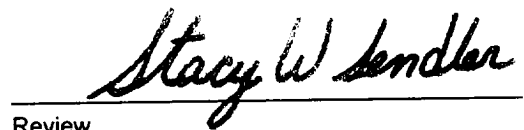
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

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: Jicarilla A #5 Blow Pit.


Analyst


Review

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>AMOCO PRODUCTION COMPANY</u> Telephone: <u>(505) 326-9200</u>	
Address: <u>200 Amoco Court, Farmington, NM 87401</u>	
Facility or Well Name: <u>JICARILLA A. 5</u>	
Location: Unit or Qtr/Qtr Sec <u>9</u> Sec <u>20</u> T <u>26N</u> R <u>5W</u> County <u>RIO ARIZONA</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>11.19.99</u> Date Completed: <u>6/4/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>200</u>	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth To Groundwater: (pts.) <u>0</u> Distance to an Ephemeral Stream (pts.) <u>0</u> Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u> Wellhead Protection Area: (pts.) <u>0</u> Distance To Surface Water: (pts.) <u>0</u> RANKING SCORE (TOTAL POINTS): <u>0</u>	Final Closure Sampling: Sampling Date: <u>6.2.99</u> Time: <u>1240</u> Sample Results: Field Headspace (ppm) <u>18.1</u> TPH (ppm) <u>1,910</u> Method (^{TPH} <u>8015</u>) Other _____
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE <u>6/4/99</u> PRINTED NAME <u>Buddy D. Shaw</u> SIGNATURE <u>Buddy D. Shaw</u> AND TITLE <u>Environmental Coordinator</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
SIGNED: <u>K. C. Marshall</u> DATE: <u>6-18-99</u>	

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>25678</u> C.D.C. NO: <u>7061</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>SICARILLA A</u> WELL #: <u>5</u> PITS: <u>BLOW</u>	DATE STARTED: <u>6-2-99</u>
QUAD/UNIT: <u>G</u> SEC: <u>20</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>EA</u> ST: <u>NM</u>	DATE FINISHED: _____
SPT/FOOTAGE: <u>SW/4 NE/4</u> CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 200

LAND USE: RANGE LIFT DEPTH (ft): 1'

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM

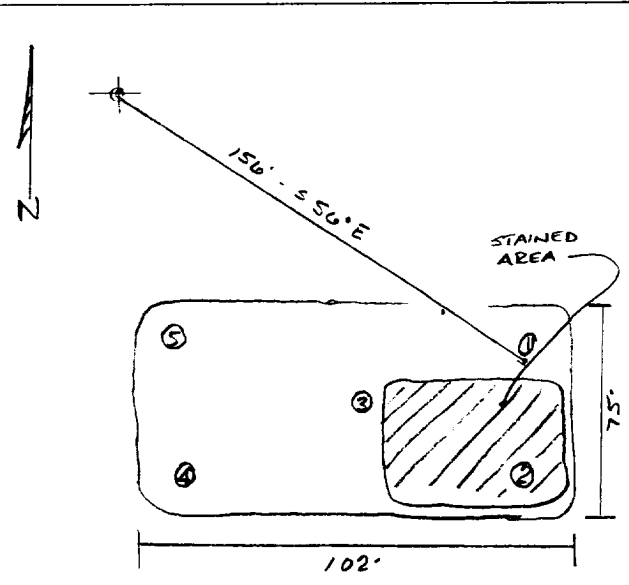
*DK. YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM
LARGE AREA OF STAINING OBSERVED IN LANDFARM AREA (SEE SKETCH BELOW)
HC ODOOR DETECTED IN SAMPLING FTs. ②+③. SAMPLING DEPTHS RANGE FROM
6" - 10" COLLECTED A SPT COMPOSITE SAMPLE FOR LAB ANALYSIS*

CLOSED

FIELD 418.1 CALCULATIONS

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

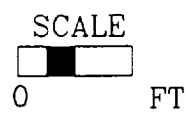
SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	18.1	LF-1	TPH (BOLIS)	1240	1,910



TRAVEL NOTES: CALLOUT: NA ONSITE: 6-2-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

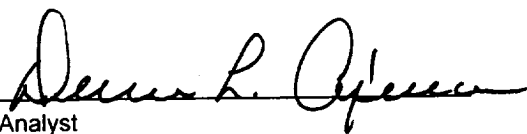
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-04-99
Laboratory Number:	F451	Date Sampled:	06-02-99
Chain of Custody No:	7061	Date Received:	06-03-99
Sample Matrix:	Soil	Date Extracted:	06-03-99
Preservative:	Cool	Date Analyzed:	06-04-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	7.9	0.2
Diesel Range (C10 - C28)	1,900	0.1
Total Petroleum Hydrocarbons	1,910	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: Jicarilla A - 5 Landfarm. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

7 0 6 1

Client / Project Name BLISS / ANDCO			Project Location LANDEARBY			ANALYSIS / PARAMETERS		
Sampler: REP			Client No. 403410			Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers			
LF-1	6.29.99	1240	F451	SOIL	1	TPH (8015)		
						SPT. COMPOSITE		
						SAMPLE PRESERVED		
						COOL		
Relinquished by: (Signature) <i>[Signature]</i>			Date	Time	Received by: (Signature) <i>[Signature]</i>	Date	Time	
Relinquished by: (Signature)			6.3.99	8:30	<i>[Signature]</i>	6.3.99	930	
Relinquished by: (Signature)					Received by: (Signature)			

ENVIROTECH INC.

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

Sample Receipt		
Received Intact	Y	N
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>