

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

Blow out
BJ689
Sep - OK

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
AUG 27 1999

Operator: AMOCO PRODUCTION COMPANY

Telephone: (505) 326-9200

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA GC C #1E

Location: Unit or Qtr/Qtr Sec F Sec 32 T26N R5W County RIO ARriba

Pit Type: Separator Dehydrator Other Blow

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 35', width 50', depth 9'

Reference: wellhead X, other

Footage from reference: 138'

Direction from reference: 12 Degrees X East of North X
West South

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)	0
Greater than 100 feet	(0 points)	

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet	(10 points)	0
Greater than 100 feet	(0 points)	

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	0
Greater than 100 feet	(0 points)	

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 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 12/2/98
Remediation Method: Excavation ☒ Approx. cubic yards 550
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____
Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)
General Description of Remedial Action: Excavation. BEDROCK BOTTOM.
Groundwater 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 6' (EAST SIDEWALL)
Sample date 11/30/98 Sample time 1430

Sample Results

Soil: Benzene	(ppm)	<u>0.265</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>7.850</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>581</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>451</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 12/2/98 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: Ken C. Mamm DATE: 12-28-98



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

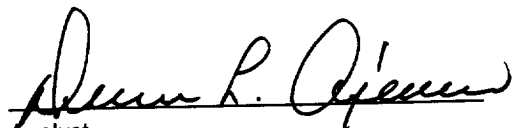
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 6'	Date Reported:	12-02-98
Laboratory Number:	E239	Date Sampled:	11-30-98
Chain of Custody No:	6414	Date Received:	12-02-98
Sample Matrix:	Soil	Date Extracted:	12-02-98
Preservative:	Cool	Date Analyzed:	12-02-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

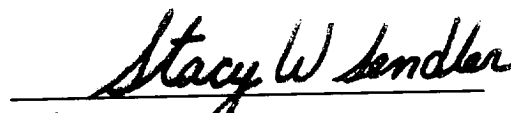
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	262	0.2
Diesel Range (C10 - C28)	189	0.1
Total Petroleum Hydrocarbons	451	0.2

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 C #1E 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:	2 @ 6'	Date Reported:	12-02-98
Laboratory Number:	E239	Date Sampled:	11-30-98
Chain of Custody:	6414	Date Received:	12-02-98
Sample Matrix:	Soil	Date Analyzed:	12-02-98
Preservative:	Cool	Date Extracted:	12-02-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	265	8.8
Toluene	533	8.4
Ethylbenzene	251	7.6
p,m-Xylene	4,710	10.8
o-Xylene	2,090	5.2
Total BTEX	7,850	

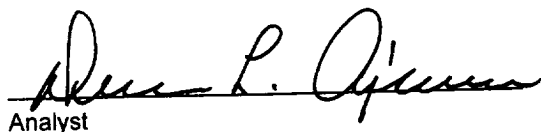
ND - Parameter not detected at the stated detection limit.

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: Jicarilla C #1E Blow Pit.


Analyst


Review

6414

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NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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 GC C #1E</u>		
Location: Unit or Qtr/Qtr Sec <u>F</u> Sec <u>32</u> T <u>26N</u> R <u>5W</u> County <u></u>		
Pit Type: Separator <u>X</u> Dhydrator <u></u> Other <u></u>		
Land Type: <u>RANGE</u>		

Pit Location: (Attach diagram)	Pit dimensions: length <u>25'</u> , width <u>30'</u> , depth <u>4'</u>		
	Reference: wellhead <u>X</u> , other <u></u>		
	Footage from reference: <u>155'</u>		
	Direction from reference: <u>39</u> Degrees <u></u> East of North <u></u> <div style="display: flex; justify-content: space-around; align-items: center;"> <u>X</u> West South <u>X</u> </div>		

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

Date Remediation Started: _____ Date Completed: 11/30/98

Remediation Method: Excavation ☒ Approx. cubic yards 100
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: Excavation, EXCAVATION MOSTLY BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

Groundwater 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 4' (PIT BOTTOM)

Sample date 11/30/98 Sample time 1330

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>26.7</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>NA</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 11/30/98 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: K. C. Marshall DATE: 12-28-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8J689</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>DCR GC C</u> WELL #: <u>1E</u> PIT: <u>SEP</u> QUAD/UNIT: <u>F</u> SEC: <u>32</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1560' FNL (1770' FWL)</u> CONTRACTOR: <u>P&S</u>	DATE STARTED: <u>11/30/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>25</u> FT. x <u>30</u> FT. x <u>4</u> FT. DEEP.	CUBIC YARDAGE: <u>100</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIALATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JIC C</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>155</u> FT. <u>S39W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>7100'</u> NEAREST WATER SOURCE: <u>71000'</u> NEAREST SURFACE WATER: <u>71000'</u> NMOC RANKING SCORE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM
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SOIL AND EXCAVATION DESCRIPTION:

EXCAVATION CONSISTED OF MOSTLY BEDROCK (SANDSTONE), VERY PALE ORANGE TO MED. GRAY (PIT BOTTOM) IN COLOR, SIDEWALLS FRIABLE, PIT BOTTOM VERY HARD, MED. GRAY DISCOLORATION APPARENTLY ASSOCIATED W/ STAINING NO APPARENT HC ODOR W/IN EXCAVATION OR IN ANY OF THE OVM SAMPLES (SLIGHT ODOR IN PIT BOTTOM OVM SAMPLE), ALL SAMPLES COLLECTED FROM BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

☐ FIBERGLASS TANK INSTALLED

EXCAVATION MOSTLY BEDROCK

CLOSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1330							

PIT PERIMETER

PIT PROFILE

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 2'	1.7
2 @ 2'	0.0
3 @ 2'	0.0
4 @ 2'	0.0
5 @ 4'	26.7

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES:	CALLOUT: _____ ONSITE: _____
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**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 GAS COM C 1E</u>			
Location: Unit or Qtr/Qtr Sec <u>F</u> Sec <u>32</u> T <u>26N</u> R <u>5W</u> County <u>El Alamosa</u>			
Land Type: <u>RANGE</u>			
Date Remediation Started: <u>11-30-98</u>		Date Completed: <u>6/10/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>650</u>	
Composted <input type="checkbox"/>			
Other <input type="checkbox"/>			
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>6-9-99</u> Time: <u>1130</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>475</u>	
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>952</u> Method <u>TPH (80.5)</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>		Other <input type="checkbox"/>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>6/10/99</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 type="checkbox"/> NO <input type="checkbox"/> (REASON) _____			
SIGNED: _____ DATE: _____			

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85689</u> C.D.C. NO: <u>7074</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>NAME: JICARILLA GAS COM C</u> WELL #: <u>1E</u> PITS: <u>SEP, BLOW</u> QUAD/UNIT: <u>F</u> SEC: <u>32</u> TWP: <u>20N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SE/4 NW/4</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>6.9.99</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>REP</u>
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SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 650
 LAND USE: RANGE LIFT DEPTH (ft): 1.5'

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

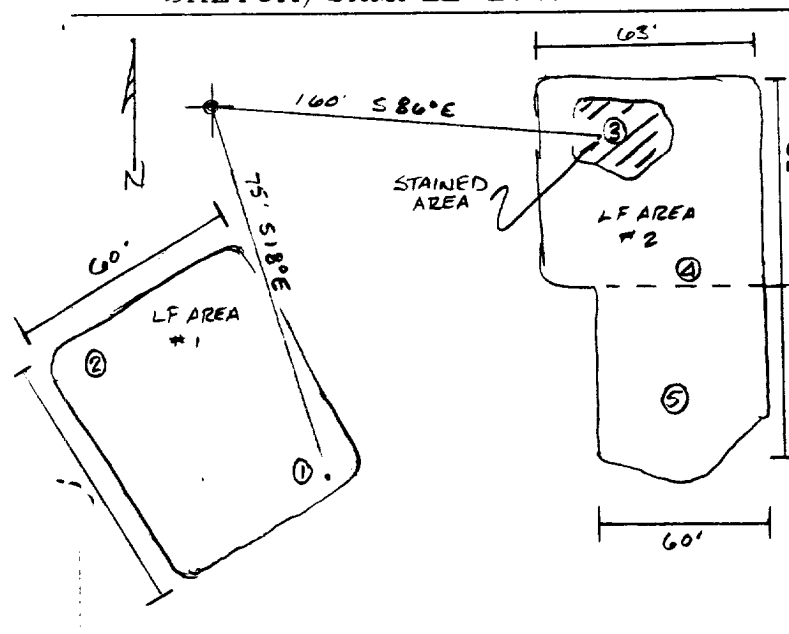
PALE BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM. SMALL AREA OF STAINING IN LANDFARM AREA # 2. (SEE SKETCH BELOW) HC ODOR DETECTED IN SAMPLING PTS. ③ & ④. SAMPLING DEPTHS RANGE FROM 6"-12". COLLECTED A SPT. COMPOSITE SAMPLE FOR LAB ANALYSIS

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	47.5	LF-1	TPH (8015)	1130	952

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: N/A ONSITE: 6.9.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

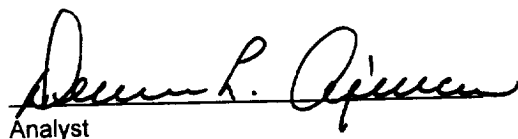
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-10-99
Laboratory Number:	F482	Date Sampled:	06-09-99
Chain of Custody No:	7074	Date Received:	06-10-99
Sample Matrix:	Soil	Date Extracted:	06-10-99
Preservative:	Cool	Date Analyzed:	06-10-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

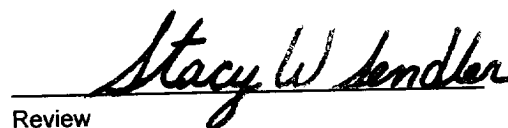
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	19.0	0.2
Diesel Range (C10 - C28)	933	0.1
Total Petroleum Hydrocarbons	952	0.2

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 Gas Com. C - 1E Landfarm. 5 Pt. Composite.


Analyst


Review

7074

[illegible]