

DEPT. OF COMMERCE INSPECTOR

OCT 08 1993

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

BJS558

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

Risk - vertical text
non-vulnerable

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200

Address: 200 Amoco Court, Farmington, NM 87401

Facility or Well Name: JICARILLA CONTRACT 148-7

Location: Unit or Qtr/Qtr Sec P Sec 15 T 25N R 5W County RIO ARriba

Pit Type: Separator____ Dehydrator____ Other BLOW

Land Type: RANGE

Pit Location: (Attach diagram) Pit dimensions: length 32', width 25', depth 28'
 Reason for: wellhead X, other _____

(Attach diagram)

Reference: wellhead X, other.

Footage from reference: 87'

Footage from reference: 87
Direction from reference: 53 Degrees X East of North X
West South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Distance to an Ephemeral Stream

Distance to an Ephemeral
(Downgradient dry wash greater than
ten feet in width)

Distance to Nearest Lake, Playa, or Watering Pond

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

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

am

RECEIVED
AUG 24 1999
OIL CON. DIV.
DIST. 3

Less than 50 feet	(20 points)
50 feet to 99 feet	(10 points)
Greater than 100 feet	(0 points)

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

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

Yes (20 points)
No (0 points)

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

RANKING SCORE (TOTAL POINTS): 0

BJ558

BLOW PIT

Date Remediation Started: _____

Date Completed: 6/1/98Remediation Method:
(check all appropriate
sections)Excavation ☒Landfarmed ☒

Other _____

Approx. cubic yards 750

Insitu Bioremediation _____

Remediation Location:
(i.e. landfarmed onsite,
name and location of
offsite facility)Onsite ☒ Offsite _____General Description of Remedial Action: Excavation. VERTICAL EXTENT ESTABLISHED. RISKASSESSED. SPRAYED EAST & SOUTH SIDEWALLS W/ FERTILIZER.

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 DocumentsSample depth 21'Sample date 5/28/98Sample time 1130

Sample Results

Soil: Benzene

(ppm) 9.230

Water: Benzene

(ppb) _____

Total BTEX

(ppm) 223.450

Toluene

(ppb) _____

Field Headspace

(ppm) 1.914

Ethylbenzene

(ppb) _____

TPH

(ppm) 1.770

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

6/1/98

PRINTED NAME

Buddy D. Shaw

SIGNATURE

Buddy D. Shaw

AND TITLE

Environmental CoordinatorAFTER 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: Kate C. McNeillDATE: 6-15-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJSS8</u> C.D.C. NO: <u>6002</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>JICA CONTR. 148</u> WELL #: <u>7</u> PIT: <u>BLow</u>	DATE STARTED: <u>5/28/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>9</u> SEC: <u>15</u> TWP: <u>25N</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>SE/4 SE/4</u> CONTRACTOR: <u>P+S</u>	

EXCAVATION APPROX. <u>32</u> FT. x <u>25</u> FT. x <u>28</u> FT. DEEP. CUBIC YARDAGE: <u>750</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u> LEASE: <u>JIC 148</u> FORMATION: <u>PC</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>87</u> FT. <u>N53E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>	CHECK ONE:

NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM	<input checked="" type="checkbox"/> PIT ABANDONED
SOIL AND EXCAVATION DESCRIPTION:	<input type="checkbox"/> STEEL TANK INSTALLED
	<input type="checkbox"/> FIBERGLASS TANK INSTALLED

mostly mod. to dk. yell. brown sand (south sidewall silty clay),
non cohesive, slightly moist, firm, no apparent staining or HC odor
observed w/in excavation, strong HC odor observed w/in east &
south sidewall dum samples.

VERTICAL
EXTENT
ESTABLISHED

RISK ASSESSED

FIELD 418.1 CALCULATIONS

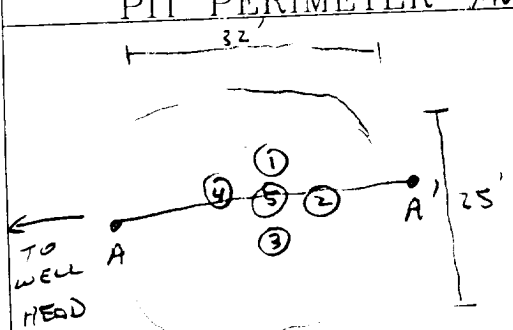
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE



0 FT

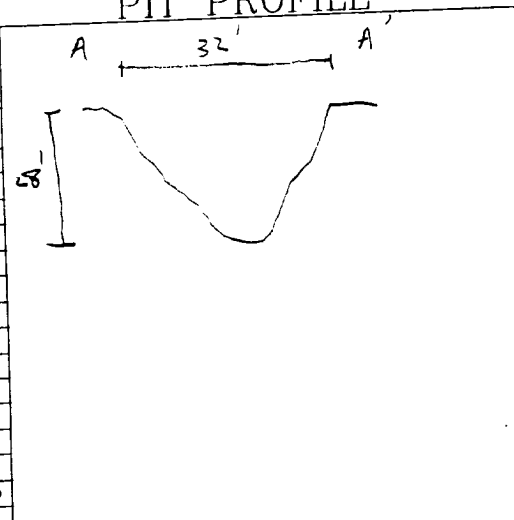
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 21'	0.0
2 @ 21'	50.4
3 @ 21'	1,214
4 @ 21'	0.0
5 @ 30'	98.6

PIT PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
③ @ 21'	TPH/STX	1130
TPH - PASSED		
STX - PASSED		

TRAVEL NOTES:

CALLOUT: 5/27/98 - AFTER. ONSITE: 5/28/98 - MORN.

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 148 #7
Unit P, Sec. 15, T25N, R5W

Blow Pit
Pictured Cliffs
Non Vulnerable
> 1000 ft.
> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent at 28 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on site observation of adjacent pit closures, namely, Jicarilla Contract 148 #17 - blow pits, and Jicarilla Contract 148 # 17Y blow pit).
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Vertical extent for light end hydrocarbons had been established at 28 feet below grade with and OVM reading less than 100 parts per million (ppm).
5. Well site located within the **non-vulnerable area** and is approximately 1.00 miles east of the nearest vulnerable area boundary (Lapis Valley wash).

(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral extent is limited and impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

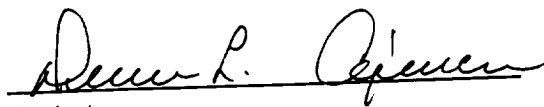
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	3 @ 21'	Date Reported:	05-29-98
Laboratory Number:	D311	Date Sampled:	05-28-98
Chain of Custody No:	6002	Date Received:	05-28-98
Sample Matrix:	Soil	Date Extracted:	05-29-98
Preservative:	Cool	Date Analyzed:	05-29-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

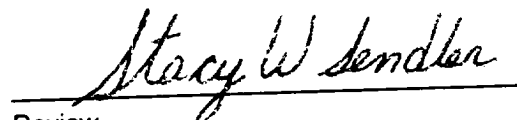
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,720	0.2
Diesel Range (C10 - C28)	53.9	0.1
Total Petroleum Hydrocarbons	1,770	0.2

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 Contract 148-7 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:	3 @ 21'	Date Reported:	05-29-98
Laboratory Number:	D311	Date Sampled:	05-28-98
Chain of Custody:	6002	Date Received:	05-28-98
Sample Matrix:	Soil	Date Analyzed:	05-29-98
Preservative:	Cool	Date Extracted:	05-29-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	9,280	17.5
Toluene	38,170	16.7
Ethylbenzene	64,380	15.2
p,m-Xylene	70,920	21.6
o-Xylene	45,700	10.4
Total BTEX	228,450	

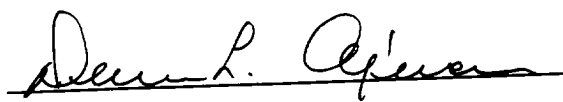
ND - Parameter not detected at the stated detection limit.

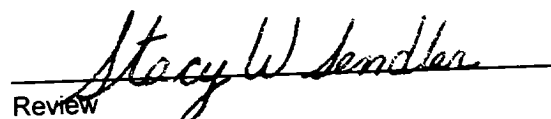
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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-846, USEPA, December 1996.

Comments: Jicarilla Contract 148-7 Blow Pit.


Analyst


Review

6002

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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: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT 148-7
Location: Unit or Qtr/Qtr Sec P Sec 15 T 25N R 5W County RIO ARriba
Land Type: RANGE

Date Remediation Started: 5-28-98 Date Completed: 1-20-99
Remediation Method: Landfarmed ☒ Approx. cubic yards 750
Composted ☐
Other ☐

Distance To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 1-18-99 Time: 0945
Sample Results:
Field Headspace (ppm) 0.0
TPH (ppm) 0.6 Method 8015
Other ☐

RANKING SCORE (TOTAL POINTS): 0

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 1/20/99 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) _____

SIGNED: [Signature] DATE: 3-31-99

TRAVEL NOTES: CALLOUT: N/A ONSITE: 1 18 99

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

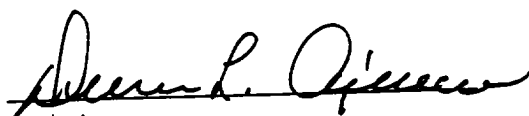
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-20-99
Laboratory Number:	E535	Date Sampled:	01-18-99
Chain of Custody No:	6552	Date Received:	01-19-99
Sample Matrix:	Soil	Date Extracted:	01-20-99
Preservative:	Cool	Date Analyzed:	01-20-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

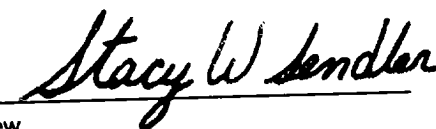
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.6	0.1
Total Petroleum Hydrocarbons	0.6	0.2

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 Contract 148 - 7 Landfarm. 5 Pt. Composite.


Analyst


Review

6552

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