

Denny E. Rust
DEPUTY OIL & GAS INSPECTOR

OCT 08 1999

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

87524

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

Blow-OK

Appr eval
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 148-36
Location: Unit or Qtr/Qtr Sec H Sec 23 T 25N R 5W County RIO ARriba
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 35', width 47', depth 33'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 145'
Direction from reference: 25 Degrees East of North X
X West of South

Depth To Groundwater:

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

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

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)
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond

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

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

RANKING SCORE (TOTAL POINTS): 0

BJ524

BLOW PIT

Date Remediation Started: _____ Date Completed: 1/27/98

Remediation Method: Excavation ☒ Approx. cubic yards 1,800
(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. SPRAYED WEST SIDEWALK & PIT BOTTOM w/ FERTILIZER.

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 36' (PIT Bottom)

Sample date 1/26/98 Sample time 1330

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>3.830</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>359</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>46.2</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 1/27/98 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: Kate C Mamm DATE: 2-6-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>87524</u> C.O.C. NO: <u>5715</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>TIC. CONTR. 148</u> WELL #: <u>36</u> PIT: <u>BLOW</u>		DATE STARTED: <u>1/26/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>H</u> SEC: <u>23</u> TWP: <u>ZSN</u> RNG: <u>SW</u> PM: <u>Nm</u> CNTY: <u>RA</u> ST: <u>Nm</u>		ENVIRONMENTAL SPECIALIST: <u>NK</u>
QTR/FOOTAGE: <u>SE/4</u> <u>NE/4</u> CONTRACTOR: <u>P & S</u>		

EXCAVATION APPROX. <u>35</u> FT. x <u>47</u> FT. x <u>33</u> FT. DEEP.	CUBIC YARDAGE: <u>1,800</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>TIC. # 148</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>145</u> FT. <u>NZSW</u> FROM WELLHEAD.
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

MOSTLY MOD. TO DK. YELL. BROWN SAND EXCEPT WEST SIDEWALL & PIT BOTTOM WHICH WAS OLIVE GRAY IN COLOR, NON COHESIVE SLIGHTLY MOIST FIRM, NO APPARENT STAINING OBSERVED W/IN EXCAVATION HC ODOR DETECTED @ WEST SIDE & PIT BOTTOM WHILE COLLECTING SAMPLES, STRONG HC ODOR OBSERVED W/IN OVM SAMPLES OF THE FOREMENTIONED.

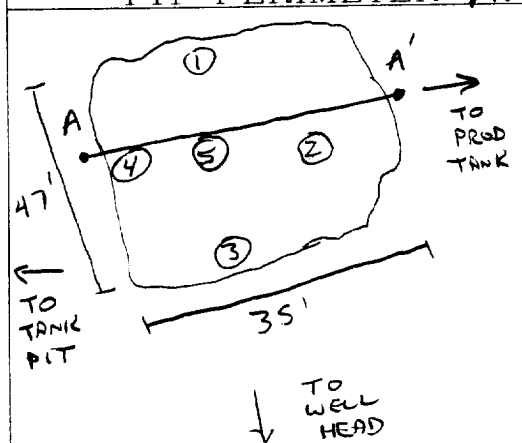
CLOSED

SCALE
0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER



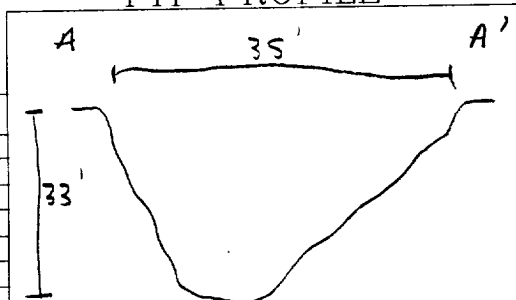
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @	0.0
2 @ 24'	0.0
3 @ 25'	0.0
4 @ 27'	254
5 @ 36'	359

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 36'	TPH (875) (802)	1330
<u>BOTH PASSED</u>		

PIT PROFILE



TRAVEL NOTES:	CALLOUT: _____	ONSITE: <u>1/13/98, 1/26/98</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

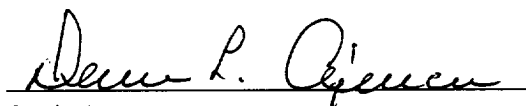
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 36'	Date Reported:	01-27-98
Laboratory Number:	C850	Date Sampled:	01-26-98
Chain of Custody No:	5715	Date Received:	01-27-98
Sample Matrix:	Soil	Date Extracted:	01-27-98
Preservative:	Cool	Date Analyzed:	01-27-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.9	0.2
Diesel Range (C10 - C28)	42.3	0.1
Total Petroleum Hydrocarbons	46.2	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 148-36 Blow Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 36'	Date Reported:	01-27-98
Laboratory Number:	C850	Date Sampled:	01-26-98
Chain of Custody:	5715	Date Received:	01-27-98
Sample Matrix:	Soil	Date Analyzed:	01-27-98
Preservative:	Cool	Date Extracted:	01-27-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	141	8.4
Ethylbenzene	249	7.6
p,m-Xylene	3,160	10.8
o-Xylene	284	5.2
Total BTEX	3,830	

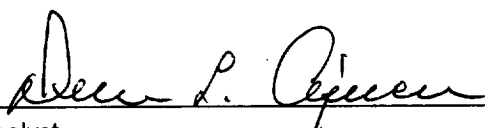
ND - Parameter not detected at the stated detection limit.

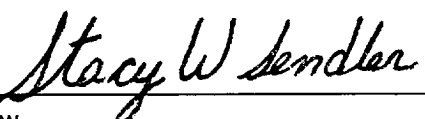
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	98 %

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: Jicarilla Contract 148-36 Blow Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name BLISS / Amoco			Project Location Blow PIT			ANALYSIS/PARAMETERS					
Sampler: (Signature) <i>Sharon VJg</i>			Chain of Custody Tape No. 04034-10								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks					
⑤ @ 36'	1/26/98	1330	0850	5012	1	TPH (8015)	BTEX (8021)				IF TPH < 5000 ppm, then find BTEX.
Relinquished by: (Signature) <i>Sharon VJg</i>			Date 1/20/98	Time 0705	Received by: (Signature) <i>Sharon L. O'Brien</i>				Date 1/27/98	Time 0705	
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

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

85524

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 148-36
Location: Unit or Qtr/Qtr Sec H Sec 23 T 25N R 5W County RIO ARriba
Land Type: RANGE
Date Remediation Started: 1-26-98 Date Completed: 1/12/99
Remediation Method: Landfarmed ✓ Approx. cubic yards 1800
Composted
Other

Depth 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
RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:
Sampling Date: 1-6-99 Time: 0920
Sample Results: (LF-1 + LF-2)
Field Headspace (ppm) 0.0
(LF-2)
TPH (ppm) 3,210 Method 8015
Other MULTIPLE SAMPLES. SEE
ATTACHED FORM

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

DATE 1/12/99 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 X NO (REASON)

SIGNED: K. C. Man DATE: 3-31-99

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 83524C.O.C. NO: 6532

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: JICARILLA CONTRACT 148 WELL #: 36 PITS: BLOW
QUAD/UNIT: H SEC: 23 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: SE/4 NE/4 CONTRACTOR: P+SDATE STARTED: 1-6-99DATE FINISHED: 1/12/99ENVIRONMENTAL
SPECIALIST: REP

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 1800LAND USE: RANGELIFT DEPTH (ft): 1'-2'

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

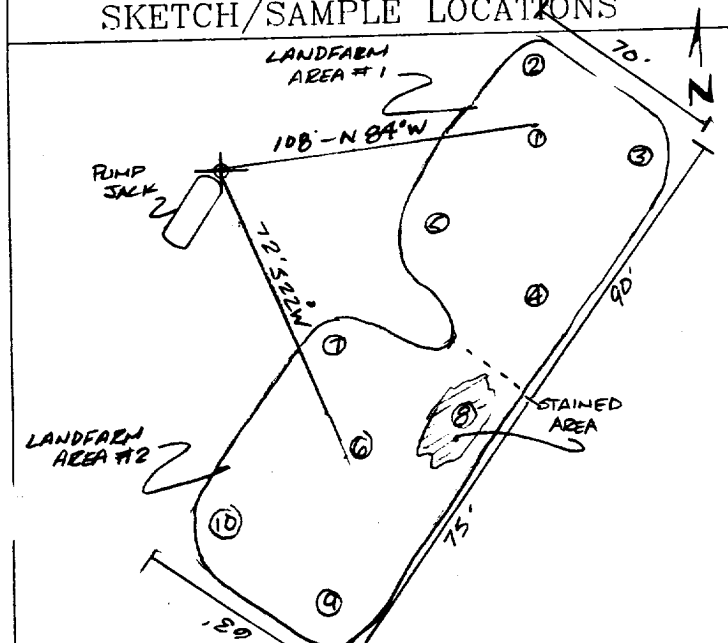
DK. YELLOW ORANGE TO BROWN SAND. NON COHESIVE, SLIGHTLY MOIST, FIRM.
SMALL AREA OF STAINING OBSERVED IN LANDFARM #2 (SEE SKETCH BELOW)
NO HC ODOR DETECTED. TOOK A 5 PT COMPOSITE SAMPLE FROM BOTH
LANDFARM AREAS FOR LAB ANALYSIS.

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	0.0	LF-1	TPH (B015)	0920	439
LF-2	0.0	LF-2	" "	0930	3,210

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: N/AONSITE: 1-6-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

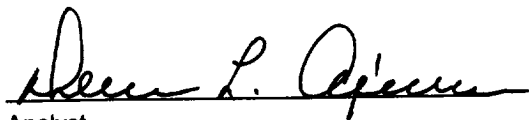
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-08-99
Laboratory Number:	E472	Date Sampled:	01-06-99
Chain of Custody No:	6532	Date Received:	01-07-99
Sample Matrix:	Soil	Date Extracted:	01-08-99
Preservative:	Cool	Date Analyzed:	01-08-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.6	0.2
Diesel Range (C10 - C28)	436	0.1
Total Petroleum Hydrocarbons	439	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 - 36 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

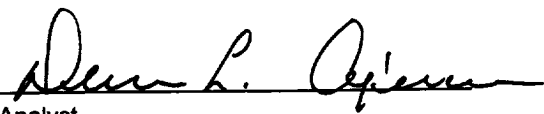
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 2	Date Reported:	01-08-99
Laboratory Number:	E473	Date Sampled:	01-06-99
Chain of Custody No:	6532	Date Received:	01-07-99
Sample Matrix:	Soil	Date Extracted:	01-08-99
Preservative:	Cool	Date Analyzed:	01-08-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	7.1	0.2
Diesel Range (C10 - C28)	3,200	0.1
Total Petroleum Hydrocarbons	3,210	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 - 36 Landfarm. 5 Pt. Composite.


Analyst


Review

6532

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