Denny E. Foust
DEPUTY OIL & GAS INSPECTOR

AUG 2 4 1999

CA613

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

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

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: CONOCO, INC. **Telephone:** (505)324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: APACHE #1E

Location: Unit or Qtr/Qtr Sec A Sec 18 T ~~25N~~ 26 R 3W County RIO ARRIBA

Pit Type: Separator ____ Dehydrator ____ Other COMPRESSOR

Land Type: RANGE

Pit Location: (Attach diagram)

Pit dimensions: length 18', width 35', depth 8'

Reference: wellhead X, other ____

Footage from reference: 34'

Direction from reference: 10 Degrees ____ East North X of X West South ____

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)	0
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)	0
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)	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 No	(20 points) (0 points)	0
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)	0

RANKING SCORE (TOTAL POINTS): 0

CA613 COMPR. PIT

Date Remediation Started: _____ **Date Completed:** 9/2/98

Remediation Method: (check all appropriate sections) Excavation X Approx. cubic yards 150 ~~150~~ 150 CW

Landfarmed X Insitu Bioremediation _____

Other _____

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

_____

General Description of Remedial Action: Excavation

Groundwater Encountered: No X 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 9' (Pit Bottom)

Sample date 8/27/98 Sample time 0945

Sample Results

Soil:	Benzene	(ppm) 0.216	Water:	Benzene	(ppb) _____
	Total BTEX	(ppm) 8.880		Toluene	(ppb) _____
	Field Headspace	(ppm) 596		Ethylbenzene	(ppb) _____
	TPH	(ppm) 175		Total Xylenes	(ppb) _____

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

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

DATE 9/2/98 **PRINTED NAME** Jeffrey C. Blagg, P.E. # 11607

SIGNATURE Jeffrey C. Blagg **AND TITLE** President

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

APPROVED: YES X NO ____ (REASON) _____

_____

SIGNED: Kenneth C Marcell **DATE:** 10-1-98

3003922689

CLIENT: CONOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: CA613 C.O.C. NO: 691

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: APACHE WELL #: 1E PIT: COMPR.

QUAD/UNIT: A SEC: 18 TWP: 26N RNG: 3W PM: NM CNTY: RA ST: NM

QTR/FOOTAGE: 810' FNL / 810' FEL CONTRACTOR: JVC

DATE STARTED: 8/27/98

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 18 FT. x 35 FT. x 8 FT. DEEP. CUBIC YARDAGE: 150 ~~125~~ 150 ~~90~~ 150

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: CONTRACT #98 FORMATION: DK/GP

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 34 FT. N10W FROM WELLHEAD.

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

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

CHECK ONE:

- ✓ PIT ABANDONED
- ___ STEEL TANK INSTALLED
- ___ FIBERGLASS TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

EXCAVATION CONSISTED ON DK. YELL. ORANGE SAND TO OLIVE RED/LT. GRAY CLAY NON COHESIVE TO PLASTIC, SLIGHTLY MOIST FIRM TO STIFF, NO APPARENT STAINING OR HC ODOR OBSERVED/DETECTED WITHIN EXCAVATION, STRONG HC ODOR IN ALL OVM SAMPLES EXCEPT NORTH SIDEWALL.

CLOSED

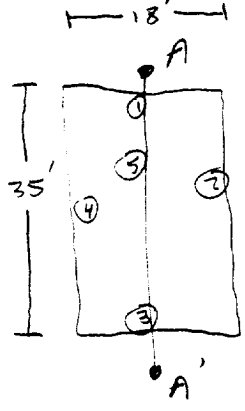
SCALE

0 FT

FIELD 418.1 CALCULATIONS

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

PIT PERIMETER



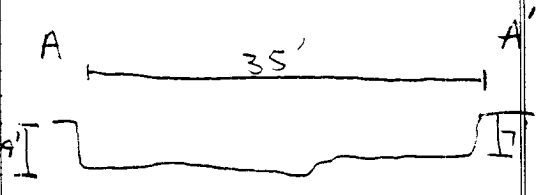
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 6'	0.0
2 @ 4'	591
3 @ 6'	642
4 @ 5'	845
5 @ 9'	596

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
SW-C	TPH/BTEX	0945
5 @ 9'	" / "	"
ALL	PASSED	

PIT PROFILE



TRAVEL NOTES: CALLOUT: 8/25/98 - MORN. ONSITE: 8/27/98 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	5 @ 9'	Date Reported:	09-02-98
Laboratory Number:	D877	Date Sampled:	08-27-98
Chain of Custody No:	6191	Date Received:	08-31-98
Sample Matrix:	Soil	Date Extracted:	08-31-98
Preservative:	Cool	Date Analyzed:	09-01-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	oncentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**110**	**0.2**
Diesel Range (C10 - C28)	**64.9**	**0.1**
Total Petroleum Hydrocarbons	**175**	**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: **Apache # 1E Compressor Pit. Grab Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	09-02-98
Laboratory Number:	D878	Date Sampled:	08-27-98
Chain of Custody No:	6191	Date Received:	08-31-98
Sample Matrix:	Soil	Date Extracted:	08-31-98
Preservative:	Cool	Date Analyzed:	09-01-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	oncentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**42.6**	**0.2**
Diesel Range (C10 - C28)	**19.6**	**0.1**
Total Petroleum Hydrocarbons	**62.2**	**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: **Apache # 1E Compressor Pit. 4 Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	5 @ 9'	Date Reported:	09-01-98
Laboratory Number:	D877	Date Sampled:	08-27-98
Chain of Custody:	6191	Date Received:	08-31-98
Sample Matrix:	Soil	Date Analyzed:	09-01-98
Preservative:	Cool	Date Extracted:	08-31-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**216**	**8.8**
Toluene	**2,060**	**8.4**
Ethylbenzene	**393**	**7.6**
p,m-Xylene	**4,680**	**10.8**
o-Xylene	**1,530**	**5.2**
Total BTEX	**8,880**	

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: **Apache # 1E Compressor Pit. Grab Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	09-01-98
Laboratory Number:	D878	Date Sampled:	08-27-98
Chain of Custody:	6191	Date Received:	08-31-98
Sample Matrix:	Soil	Date Analyzed:	09-01-98
Preservative:	Cool	Date Extracted:	08-31-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**222**	**8.8**
Toluene	**735**	**8.4**
Ethylbenzene	**120**	**7.6**
p,m-Xylene	**3,500**	**10.8**
o-Xylene	**155**	**5.2**
Total BTEX	**4,730**	

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: **Apache # 1E Compressor Pit. 4 Pt. Composite.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

6191

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / CONOCO	COMPRESSOR PIT APACHE #1E	
Sampler: NJV	Client No. 04034-10	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)	BTEX (8021)					Remarks
(5) @ 9'	8/27/98	0945	D877	SOIL	1	✓	✓					GRAB SAMPLE
SW - C	8/27/98	0945	D878	SOIL	1	✓	✓					4 PT. COMPOSITE
												BOTH SAMPLES
												PRESERV. - COOL

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	8/31/98	0802	Dennis L. Ojeman	8.31.98	0802
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

Ref COC's 6191 → 6193

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

CA613

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

OK

PIT REMEDIATION AND CLOSURE REPORT

Operator: CONOCO, INC. **Telephone:** (505)324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: APACHE #1E

Location: **Unit or Qtr/Qtr Sec** A **Sec** 18 **T** 26N **R** 3W **County** RIO ARRIBA

Pit Type: **Separator** ____ **Dehydrator** ____ **Other** PRODUCTION TANK

Land Type: RANGE

Pit Location: (Attach diagram)

Pit dimensions: length 14', width 15', depth 8'

Reference: wellhead X, other ____

Footage from reference: 105'

Direction from reference: 11 Degrees X East North X of ____ West South ____

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)	0
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)	0
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)	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 No	(20 points) (0 points)	0
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)	0
		RANKING SCORE (TOTAL POINTS):	0

Date Remediation Started: _____ **Date Completed:** 8/27/98

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 50

Landfarmed X Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: Excavation

Groundwater Encountered: No X 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 8'

Sample date 8/27/98 Sample time 1045

Sample Results

Soil:	Benzene	(ppm)		Water: Benzene	(ppb)
	Total BTEX	(ppm)		Toluene	(ppb)
	Field Headspace	(ppm)	6.9	Ethylbenzene	(ppb)
	TPH	(ppm)	24	Total Xylenes	(ppb)

Groundwater Sample: Yes ____ No X (If yes, attach sample results)

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

DATE 8/27/98 **PRINTED NAME** Jeffrey C. Blagg, P.E. # 11607

SIGNATURE Jeffrey C. Blagg **AND TITLE** President

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

APPROVED: YES X NO ____ (REASON) _____

SIGNED: Ken C Marcus **DATE:** 10-1-98

CLIENT: CONOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: CN613
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: APACHE WELL #: 1E PIT: PROD.
QUAD/UNIT: A SEC: 18 TWP: 26N RNG: 3W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: 810' FNL | 820' FEL CONTRACTOR: JVC

DATE STARTED: 8/27/98
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 14 FT. x 15 FT. x 8 FT. DEEP. CUBIC YARDAGE: 50
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: CONTRACT #98 FORMATION: DK | GP

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 105 FT. N11E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

CHECK ONE:
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

SOIL CONSISTED OF MOSTLY DK. YELL ORANGE TO BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED/DETECTED WITH EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.

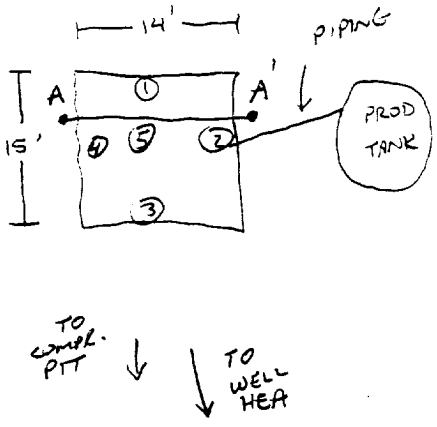
CLOSED

SCALE
0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1045	⑤ @ 8'	TPH-2017	5	20	1:1	6	24

PIT PERIMETER



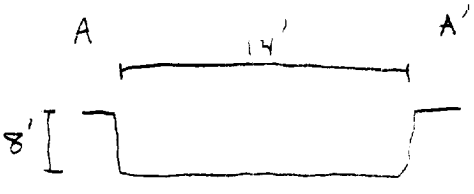
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 5'	0.0
2 @ 4'	0.0
3 @ 5'	0.0
4 @ 5'	0.0
5 @ 8'	6.9

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: 8/25/98 - MORN. ONSITE: 8/27/98 - MORN.

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Conoco	Project #:	
Sample ID:	5 @ 8'	Date Analyzed:	08-27-98
Project Location:	Apache # 1E	Date Reported:	08-27-98
Laboratory Number:	TPH-2017	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**24**	**20**

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
228	244	6.78

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Compressor Pit - CA613

Analyst

Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:	**********		
Client:	Conoco	Project #:	
Sample ID:	5 @ 8'	Date Analyzed:	08-27-98
Project Location:	Apache # 1E	Date Reported:	08-27-98
Laboratory Number:	TPH-2017	Sample Matrix:	Soil

Sample Weight:	5.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	1	(unitless)
TPH Reading:	6	mg/kg

TPH Result:	24.0	mg/kg
Reported TPH Result:	24	mg/kg
Actual Detection Limit:	20.0	mg/kg
Reported Detection Limit:	20	mg/kg

QA/QC:

Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
228	244	6.78

Comments: **********Max Characters**********

Comments: Compressor Pit - CA613

CA613

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: Conoco, Inc. **Telephone:** (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: APACHE # 1E

Location: Unit or Qtr/Qtr Sec A Sec 18 T 26N R 3W County RIO ARRIBA

Land Type: RANGE

Date Remediation Started: 8/27/98 **Date Completed:** 4/15/99

Remediation Method: Landfarmed ✓ Approx. cubic yards ~~200~~ 175 C.Y.
200

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 SurfaceWater:	(pts.)	0
RANKING SCORE (TOTAL POINTS):		0

Final Closure Sampling:

Sampling Date: 4/13/99 Time: 0915

Sample Results:

Field Headspace (ppm) 41.5

TPH (ppm) 0.7 Method 8015

Other ____

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

DATE 4/15/99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607

SIGNATURE Jeffrey C. Blagg AND TITLE President

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: [signature] DATE: 6-3-99

CLIENT: CONOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: CA 613
C.O.C. NO: 6638

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: APACHE WELL #: 1E PITS: COMPR, PROD.
QUAD/UNIT: A SEC: 18 TWP: 26N RNG: 3W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: NE/4 NE/4 CONTRACTOR: JVC

DATE STARTED: 4/13/99
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 200 175 200 CV
LAND USE: RANGE LIFT DEPTH (ft): 1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM 8/27/98

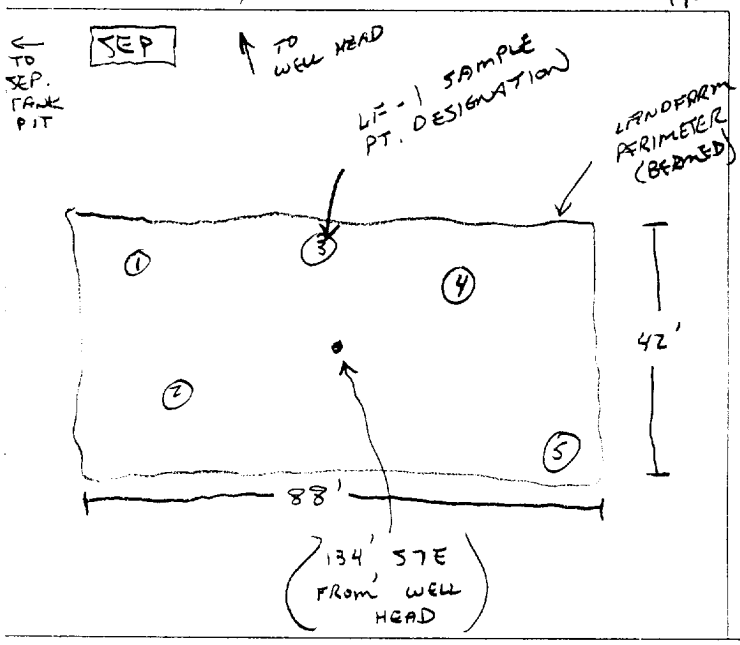
MOSTLY OR. YELL. BROWN SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 6 - 18 INCHES, NO APPARENT STAINING OBSERVED NO APPAREST INC ODOR @ ANY OF THE SAMPLING PTS., COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

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

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	41.5

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (8015)	0935	0.7

SCALE
0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 4/13/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-15-99
Laboratory Number:	F017	Date Sampled:	04-13-99
Chain of Custody No:	6638	Date Received:	04-13-99
Sample Matrix:	Soil	Date Extracted:	04-14-99
Preservative:	Cool	Date Analyzed:	04-15-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.7**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**0.7**	**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: **Apache #1E Landfarm. 5 Pt. Composite.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

6638

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / CONOCO	LANDFARM APACHE #1E	
Sampler: NJV	Client No. 403410	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)						Remarks
LF-1	4/13/99	0935	F017	SOIL	1	✓						5 PT. COMPOSITE
												PRESERV. - COOL

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nathan Vail	4/13/99	1602	Heather Brown	4-13-99	16:02
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-15-TPH QA/QC	Date Reported:	04-15-99
Laboratory Number:	F017	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-15-99
Condition:	N/A	Analysis Requested:	TPH

Gasoline Range C5 - C10	03-15-99	7.6679E-002	7.6541E-002	**0.18%**	**0 - 15%**
Diesel Range C10 - C28	03-15-99	7.2197E-002	7.2081E-002	**0.16%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**0.7**	**0.7**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**0.7**	**250**	**250**	**100%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100%**	**75 - 125%**

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: **QA/QC for samples F017 - F022.**

Analyst

Review

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