

RANKING SCORE (TOTAL POINTS): 40

Date Remediation Started: _____ Date Completed: 3/23/94

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 610

Landfarmed ☒

Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Ground Water Encountered: No _____ Yes ☒ Depth 12'

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location REFER TO "CLOSURE VERIFICATION" SHEET

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

Ground Water 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 4/29/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

C4960

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

COCR 3451

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1

LOCATION: LEASE: BACA GC WELL: A1 QD: SE/4 NE/4 (H)
SEC: 26 TWP: 29N RNG: 10W BM: NM CNTY: SAN JUAN ST: NM PIT: Blow
CONTRACTOR: P. VELASQUEZ
EQUIPMENT USED: TRACKHOE

DATE STARTED: 3/23/94
DATE FINISHED: 3/23/94

ENVIRONMENTAL
SPECIALIST: NV

SOIL REMEDIATION: QUANTITY: 34' x 30' x 14'
DISPOSAL FACILITY: LANDFARMED ON-SITE

LAND USE: RANGE

SURFACE CONDITIONS: UNKNOWN (SEE SITE ASSESSMENT FIELD REPORT 94319)

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 33 YARDS ONE WEST FROM WELLHEAD.

DEPTH TO GROUNDWATER: < 12'
NEAREST WATER SOURCE: 300 - 500'
NEAREST SURFACE WATER: < 300'

GW NOT PUMPED PRIOR TO SAMPLING, NO HC SHEEN OBSERVED ON GW SURFACE

LAB SAMPLE: COLLECTED GW SAMPLE FOR BTEX (B120)

FIELD 418.1 CALCULATIONS

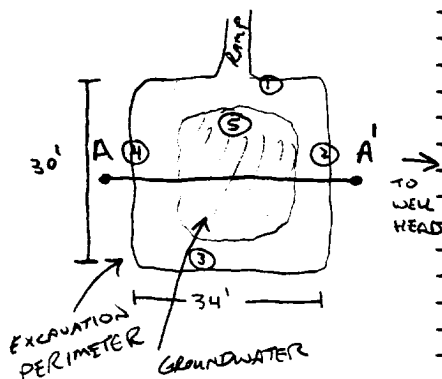
FIELD #18.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

0

FEET

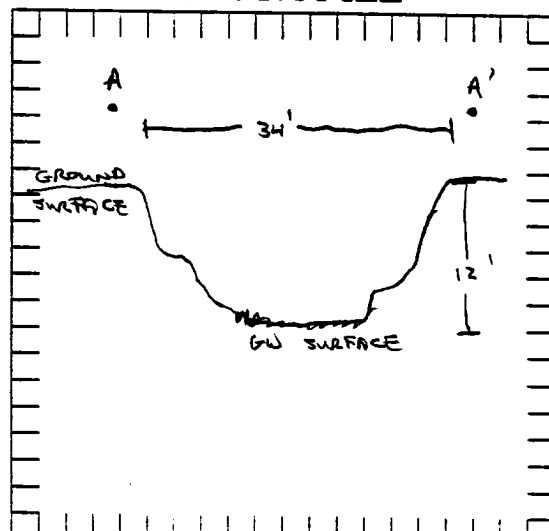
PIT PERIMETER



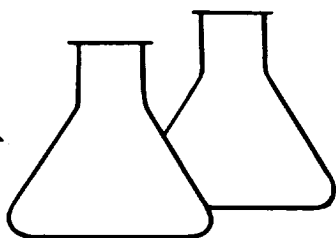
OVM RESULTS

[illegible]

PIT PROFILE



TRAVEL NOTES: CALLOUT: 3/23/94 ONSITE: 3/23/94



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ GW (12')	Date Reported:	03-24-94
Laboratory Number:	7093	Date Sampled:	03-23-94
Sample Matrix:	Water	Date Received:	03-23-94
Preservative:	HgCl and Cool	Date Analyzed:	03-23-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	0.9	0.4
Ethylbenzene	ND	0.4
p,m-Xylene	2.9	0.5
o-Xylene	1.0	0.4

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	97 %

Method: Method 5030A, 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. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Baca GC A1 Blow Pit C4960

Kevin L. Gerner
Analyst

Mavis D. Young
Review

80199

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

A Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICERECEIVED
FEB 17 1999PIT REMEDIATION AND CLOSURE REPORTOperator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: BACA GC A1
Well NameLocation: Unit or Qtr/Qtr Sec H Sec 26 T 29N R 10W County SAN JUANPit Type: Separator Dehydrator ☒ Other Land Type: BLM , State , Fee , Other Com. AGMT.Pit Location: Pit dimensions: length 24', width 45', depth 10'
Attach diagram)Reference: wellhead ☒, other Footage from reference: 140'Direction from reference: 50 Degrees ☒ East North
of
 West South ☒

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 20

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) 20

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 10RANKING SCORE (TOTAL POINTS): 50

Date Remediation Started: _____ Date Completed: 12/30/94

Remediation Method: Excavation ☒ Approx. cubic yards 300
 (Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation

Ground Water 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

MULTIPLE SAMPLES

Sample depth 6' + 10'

Sample date 12-28-94 Sample time _____

Sample Results

Benzene(ppm) ND @ 6'

Total BTEX(ppm) 0.0794 @ 6'

Field headspace(ppm) 68 @ 10'

TPH 40 ppm @ 10'

Ground Water 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 12/30/94

SIGNATURE B. Shaw

PRINTED NAME
 AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>60199</u> C.O.C. NO: _____
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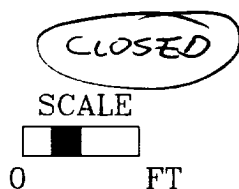
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>BACA GC</u> WELL #: <u>A1</u> PIT: <u>DEHY</u> QUAD/UNIT: <u>H</u> SEC: <u>26</u> TWP: <u>29N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST. NM</u> QTR/FOOTAGE: <u>SE 1/4 NE 1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	DATE STARTED: <u>12/28/94</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>24</u> FT. x <u>45</u> FT. x <u>10</u> FT. DEEP.	CUBIC YARDAGE: <u>300</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARMED</u>	
LAND USE: <u>RANGE</u> LEASE: <u>-</u> FORMATION: <u>MV</u>	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>140</u> FT. <u>550E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>550'</u> NEAREST WATER SOURCE: <u><1000'</u> NEAREST SURFACE WATER: <u><1000'</u> NMOCB RANKING SCORE: <u>50</u> NMOCB TPH CLOSURE STD: <u>100</u> PPM
SOIL AND EXCAVATION DESCRIPTION: CHECK ONE: ☐ PIT ABANDONED ☒ STEEL TANK INSTALLED	

MOSTLY OR. YELL. BROWN CLAY, HIGHLY PLASTIC, SLIGHTLY MOIST TO MOIST, FIRM TO STIFF, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.



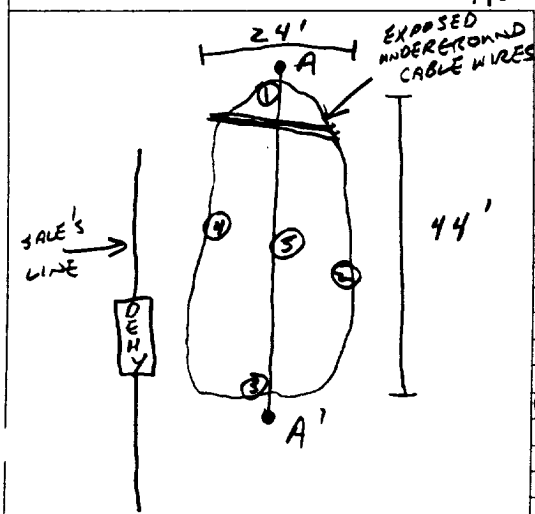
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1330	(3) @ 10'	TPH-1338	5	30	1:1	10	40
1340	(1) @ 6'	TPH-1339	5	20	1:1	13	52

PIT PERIMETER

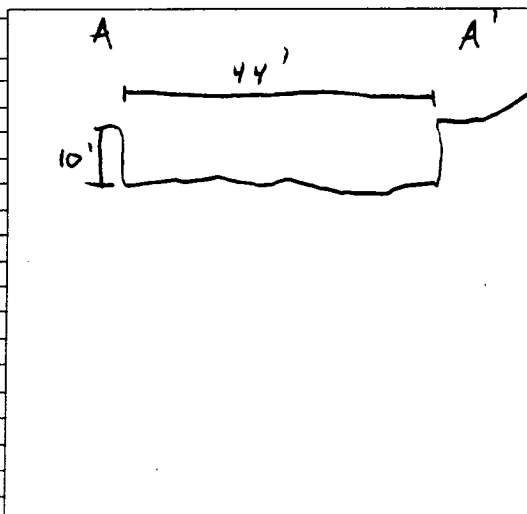
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 6'	31.9
2 @ 6'	15.9
3 @ 6'	0.0
4 @ 6'	0.0
5 @ 10'	68.0

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
(1) @ 6'	BTEX	1340
PASSED		



TRAVEL NOTES:	CALLOUT: <u>12/28/94</u>	ONSITE: <u>12/28/94</u>
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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: Amoco
Sample ID: 5 @ 10'
Project Location: Baca GC A 1
Laboratory Number: TPH-1338

Project #:
Date Analyzed: 12-29-94
Date Reported: 12-29-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	40	20

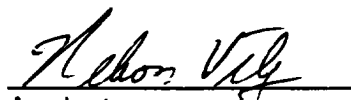
ND = Not Detectable at stated detection limits.

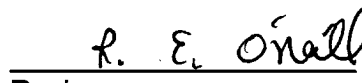
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3560	3040	15.76

*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: Dehydrator Pit - B0199


Analyst


Review

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: Amoco
Sample ID: 1 @ 6'
Project Location: Baca GC A 1
Laboratory Number: TPH-1339

Project #:
Date Analyzed: 12-29-94
Date Reported: 12-29-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	52	20

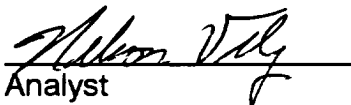
ND = Not Detectable at stated detection limits.

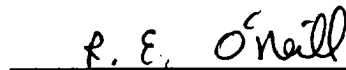
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	3560	3040	15.76

*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: Dehydrator Pit - B0199


Analyst


Review

OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: *12/30/94*
Lab ID: *2519*
Sample ID: *4554*
Job No. *2-1000*

Project Name: *BACA GC A 1*
Project Location: *1 @ 6' - Dehy Pit*
Sampled by: *NV* Date: *12/28/94*
Analyzed by: *DLA* Date: *12/30/94*
Sample Matrix: *Soil*

Time: *13:40*

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
<i>Benzene</i>	<i>ND</i>	<i>0.2</i>
<i>Toluene</i>	<i>ND</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>79.4</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>ND</i>	<i>0.2</i>
<i>TOTAL 79.4 ug/kg</i>		

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *12/30/94*

P. O. BOX 2606 • FARMINGTON, NM 87499



CHAIN OF CUSTODY RECORD

2519

Date: 12/28/94

Page 1 of 1

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name		Name	
Company		Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.	
Title		Title	
RESULTS TO REPORT		RESULTS TO REPORT	
Number of Containers		Number of Containers	
SAMPLE IDENTIFICATION		SAMPLE IDENTIFICATION	
DATE		DATE	
TIME		TIME	
MATRIX		MATRIX	
PRES.		PRES.	
12/28/94 1340		12/28/94 1340	
SOIL		SOIL	
1		1	
4554-254		4554-254	
ANALYSIS REQUESTED		ANALYSIS REQUESTED	
BTEX (8020)		BTEX (8020)	
LAB ID		LAB ID	
4554-254		4554-254	
Received by: <i>Sharon L. Spencer</i>		Received by: <i>Sharon L. Spencer</i>	
Date/Time 12/28/94 1438		Date/Time 12/28/94 1438	
Received by:		Received by:	
Date/Time		Date/Time	
Received by:		Received by:	
Date/Time		Date/Time	
Rush		Rush	
24-48 Hours		24-48 Hours	
10 Working Days		10 Working Days	
Special Instructions:		Special Instructions:	
Authorized by: _____ Date _____		Authorized by: _____ Date _____	
(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)	

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80199</u> C.O.C. NO: <u>-</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION		
LOCATION: NAME: <u>BACA GC</u> WELL #: <u>A1</u> PITS: <u>BLOW, DEHY, DEHY</u>	DATE STARTED: <u>5/28/96</u>	
QUAD/UNIT: <u>H</u> SEC: <u>26</u> TWP: <u>29N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u>	DATE FINISHED: <u>-</u>	
QTR/FOOTAGE: <u>SE1/4 NE1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>	

SOIL REMEDIATION:	
REMEDICATION SYSTEM: <u>LANDFARMED</u>	APPROX. CUBIC YARDAGE: <u>1520 BACA 1200 McDANIEL 2720</u>
LAND USE: <u>AGRICULTURAL RANGE</u>	LIFT DEPTH (ft): <u>0.5-2.5'</u>

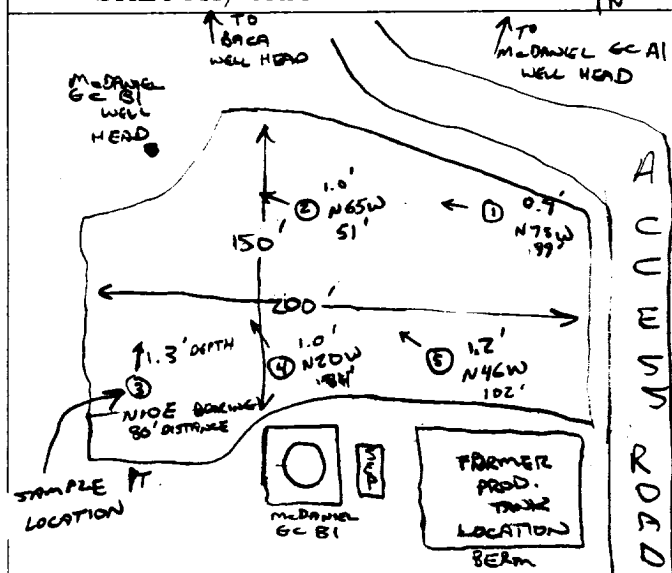
FIELD NOTES & REMARKS:	
DEPTH TO GROUNDWATER: <u>550'</u> NEAREST WATER SOURCE: <u>< 1000'</u> NEAREST SURFACE WATER: <u>< 1000'</u>	
NMOCD RANKING SCORE: <u>50</u> NMOCD TPH CLOSURE STD: <u>100</u> PPM	
McDANIEL GC A1-DEHY PIT SOILS COMBINED w/ BACA GC A1 - BLOW + DEHY PITS (SAME WELL PAD). COLLECTED 5 PT. COMPOSITE SAMPLE (SEE SKETCH BELOW). SLIGHT HC ODOOR IN OVM SAMPLE. SAMPLE PT. ① CONTAINED CLAYEY SOIL, MED. GRAY DISCOLORATION, HC ODOOR.	

CLOSED

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1010	LF-1	TPH-1728	5	20	1:1	21	84

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	37.7

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS

SCALE



TRAVEL NOTES:	CALLOUT: <u>-</u>	ONSITE: <u>5/28/96</u>
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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: AMOCO
Sample ID: LF - 1
Project Location: Baca GC A1
Laboratory Number: TPH-1728

Project #:
Date Analyzed: 05-28-96
Date Reported: 05-28-96
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	84	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	724	568	24.15

*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: Landfarm (5 pt. composite sample) - B0199

Nelson Velf
Analyst

R. E. O'Neil
Review