

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 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 87504-2088

SEP - risk bedrock
risk from - risk B0161

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Denied 11/24/76
due to land use

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: DAWSON FEDERAL #1
Well Name
Location: Unit or Qtr/Qtr Sec D Sec 26 T27N R 8W County SAN JUAN
Pit Type: Separator Dehydrator Other PRODUCTION TANK
Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 9', width 12', depth 4'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 115'
Direction from reference: 4 Degrees X East North
of
 West South X

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

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or; less than
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____

Date Completed: 11/14/94

Remediation Method: Excavation ☒

Approx. cubic yards 6

(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. BEDROCK Bottom. RSK ASSESSED.

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

Sample depth 2'

Sample date 11/14/94

Sample time 1230

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 708

TPH 18,900 ppm

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 11/14/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

phw

RESULTS TO DOB M/COW 11-21-94 ASD

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80161</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION PAGE No: 1 of 1

LOCATION: NAME: <u>DAWSON FEDERAL</u> WELL #: <u>1</u> PIT: <u>PROD.</u>	DATE STARTED: <u>11/14/94</u> DATE FINISHED: _____
QUAD/UNIT: <u>D</u> SEC: <u>26</u> TWP: <u>37N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>S</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>NW1/4</u> <u>NW1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	

EXCAVATION APPROX. 9 FT. x 12 FT. x 4 FT. DEEP. CUBIC YARDAGE: 6

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED

LAND USE: RANGE LEASE: SE-078480 FORMATION: MV/DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 115 FT. SE FROM WELLHEAD.

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

NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:

☐ PIT ABANDONED

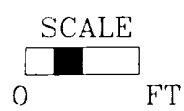
☒ STEEL TANK INSTALLED

MUD. YELL. ARND. TO DK. GRAY SANDSTONE, SOFT NEAR GROUND SURFACE, VERY DENSE @ EXCAVATION BOTTOM.

RISK ASSESSED

FIELD 418.1 CALCULATIONS

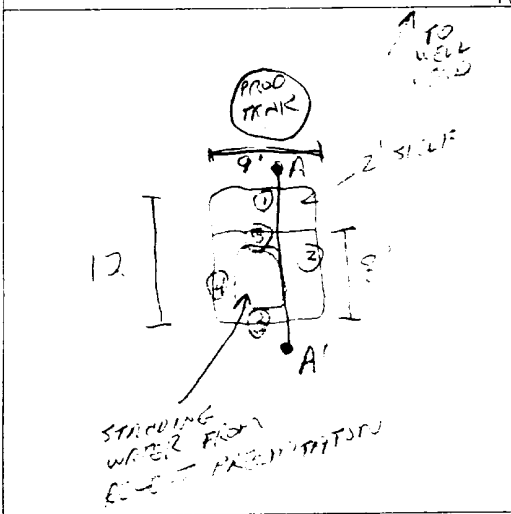
TME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1230	④ @ 2'	TPH-1279	5	20	10:1	472	18,880



PIT PERIMETER

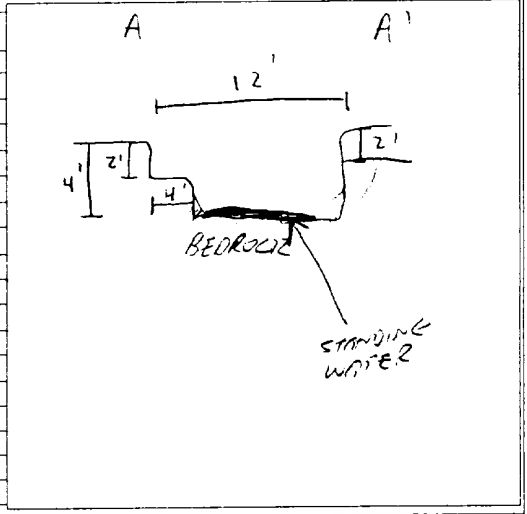
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 2'	465
2 @ 2'	271
3 @ 2'	395
4 @ 2'	708
5 @ 4'	389

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: CALLOUT: 11/11/94 ONSITE: 11/14/94

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Dawson Federal #1

Unit D, Sec. 26, T27N, R8W

Production Tank pit

Basin Dakota / Mesa Verde

Vulnerable

> 1000 ft.

> 50 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 4 feet below grade.

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

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 4 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a greater depth below the sandstone bedrock.
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.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

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	Project #:	
Sample ID:	4 @ 2'	Date Analyzed:	11-14-94
Project Location:	Dawson Federal # 1	Date Reported:	11-14-94
Laboratory Number:	TPH-1279	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	18,900	200

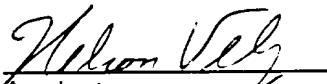
ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	3720	3680	1.08

*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: Production Tank Pit - B0161


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:

Amoco

Project #:

Sample ID:

4 @ 2'

Date Analyzed:

11-14-94

Project Location:

Dawson Federal # 1

Date Reported:

11-14-94

Laboratory Number:

TPH-1279

Sample Matrix:

Soil

Sample Weight: 5.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 10 (unitless)
TPH Reading: 472 mg/kg

TPH Result: 18880.0 mg/kg
Reported TPH Result: 18900 mg/kg
Actual Detection Limit: 200.0 mg/kg
Reported Detection Limit: 200 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

3720

3680

1.08

Comments:

*****Max Characters*****

Comments:

Production Tank Pit - B0161

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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

80161
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PTT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: DAWSON FEDERAL #1
Well Name

Location: Unit or Qtr/Qtr Sec D Sec 26 T 27N R 8W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 15', width 25', depth 5'
(Attach diagram) Reference: wellhead ☒, other ☐

Footage from reference: 80'

Direction from reference: 65 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) 10

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) 0
No (0 points) 0

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) 0
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: _____ Date Completed: 11/14/94

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 40

Landfarmed ☒

Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation

BEDROOM? BOTTOM. BSK ASSESSED.

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

Sample depth 2'

Sample date 11/14/94

Sample time 1155

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 384

TPH 15,840 ppm

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 11/14/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

REPLY TO BOB MCCOY 11-21-94 PLO

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80161</u> C.D.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: <u>DAWSON FEDERAL</u> WELL #: <u>1</u> PIT: <u>SEP</u>	DATE STARTED: <u>11/14/94</u>
QUAD/UNIT: <u>D</u> SEC: <u>26</u> TWP: <u>27N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>ST</u> STNM: <u></u>	DATE FINISHED: <u></u>
QTR/FOOTAGE: <u>NW/4</u> <u>NW/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. 15 FT. x 25 FT. x 5 FT. DEEP. CUBIC YARDAGE: 40
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED
LAND USE: RANGE LEASE: 5F-078430 FORMATION: MU/DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 80 FT. 5650 FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

COIL AND EXCAVATION DESCRIPTION:

CHECK ONE :
☐ PIT ABANDONED
☒ STEEL TANK INSTALLED

MOD. V. L. BROWN TO DK. GRAY SANDSTONE, SOFT NEAR GROUND SURFACE, VERY DENSE @ EXCAVATION BOTTOM.

RISK ASSESSED

FIELD 418.1 CALCULATIONS

FIELD 418.1 CALCULATIONS							
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILLUTION	READING	CALC. ppm
1:55	③ @ 2'	TPH-1278	5	20	10:1	396	15,840

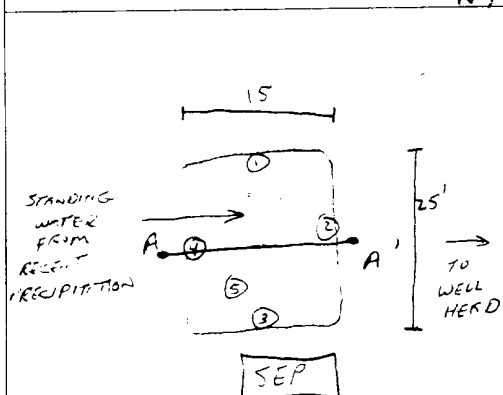
SCALE

0 FT

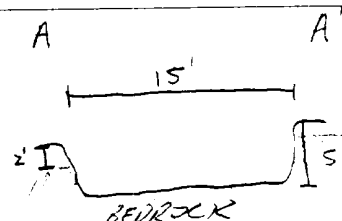
PIT PERIMETER

OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1C2'	6.2
2C3'	254.2
3C2'	384
4C2'	12.0
5C3'	400

[illegible]

TRAVEL NOTES: CALLOUT: 11/11/94 ONSITE: 11/14/94

Well Name:	Dawson Federal #1
Well Site location:	Unit D, Sec. 26, T27N, R8W
Pit Type:	Separator pit
Producing Formation:	Basin Dakota / Mesa Verde
Pit Category:	Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 50 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 5 feet below grade.

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

1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 4 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a greater depth below the sandstone bedrock.
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.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

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	Project #:	
Sample ID:	3 @ 2'	Date Analyzed:	11-14-94
Project Location:	Dawson Federal # 1	Date Reported:	11-14-94
Laboratory Number:	TPH-1278	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	15,800	200

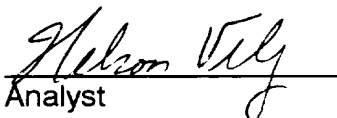
ND = Not Detectable at stated detection limits.

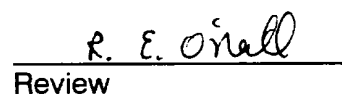
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	3720	3680	1.08

*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: Separator Pit - B0161


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:

Amoco

Project #:

Sample ID:

3 @ 2'

Date Analyzed:

11-14-94

Project Location:

Dawson Federal # 1

Date Reported:

11-14-94

Laboratory Number:

TPH-1278

Sample Matrix:

Soil

Sample Weight: 5.00 grams

Volume Freon: 20.00 mL

Dilution Factor: 10 (unitless)

TPH Reading: 396 mg/kg

TPH Result: 15840.0 mg/kg

Reported TPH Result: 15800 mg/kg

Actual Detection Limit: 200.0 mg/kg

Reported Detection Limit: 200 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

3720

3680

1.08

Comments:

*****Max Characters*****

Comments:

Separator Pit - B0161

CLIENT AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 80161C.D.C. NO: 5416

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: DAWSON FEDERAL WELL #: 1 PITS: SEP, PROD.
QUAD/UNIT: D SEC: 26 TWP: 27N RNG: 8E PM: NM CNTY: SJ ST: NM
OTP/FOOTAGE: NW/4 NW/4 CONTRACTOR: P & SDATE STARTED: 9/29/97

DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: NV

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 46LAND USE: RANGELIFT DEPTH (ft): 6"

FIELD NOTES & REMARKS:

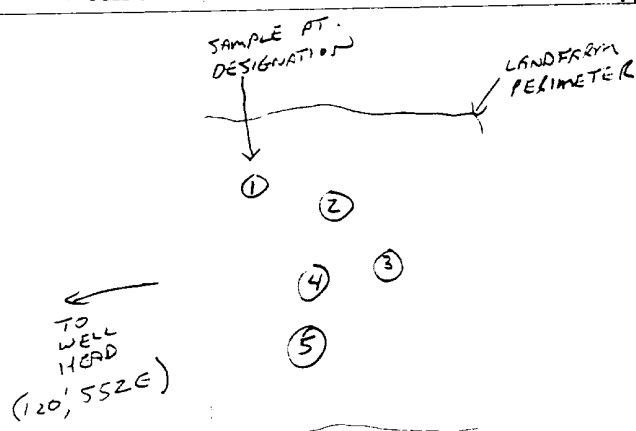
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL MOSTLY DK. YELL. BROWN W/SOME MED. GRAY SAND, NON COHESIVE,
SLIGHTLY MOIST, FIRM, NO APPARENT HC ODOR OBSERVED W/IN
ANY OF FIVE SAMPLE PTS., 5 PT. COMPOSITE COLLECTED FOR
LAB ANALYSIS.

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	12.2	LF-1	TPH (8015)	1010	196

SCALE



0

FT

TRAVEL NOTES:

CALCUT: NAONSITE: 9/29/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

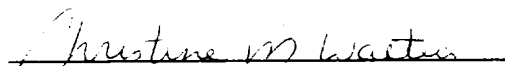
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	10-09-97
Laboratory Number:	C225	Date Sampled:	09-29-97
Chain of Custody No:	5416	Date Received:	10-07-97
Sample Matrix:	Soil	Date Extracted:	10-07-97
Preservative:	Cool	Date Analyzed:	10-08-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

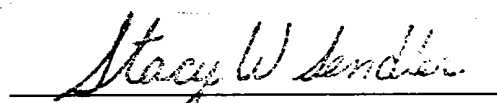
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	196	0.1
Total Petroleum Hydrocarbons	196	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Dawson Federal #1 Landfarm.
5 pt. composite.**


Analyst


Review

(505) 632-0615