

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

Risk - non... 85144
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Dev... TPT
PTT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: FEDERAL GC 2
Well Name
Location: Unit or Qtr/Qtr Sec M Sec 27 T 28N R 10W County SAN JUAN
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☐ State ☐ Fee ☐ Other COM. AGMT.

Pit Location: Pit dimensions: length 25', width 32', depth 25'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 90'
Direction from reference: 15 Degrees ☐ East North ☒
of
☒ West South ☐

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) 0
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) 0
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points)
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____

Date Completed: 11/1/94Remediation Method: Excavation ☒
(Check all appropriate sections)Approx. cubic yards 680

Landfarmed _____

Insitu Bioremediation _____

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

General Description Of Remedial Action: _____

Excavation RISK ASSESSED

Ground Water 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 27'Sample date 11/1/94Sample time 1100

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 1935TPH 5,400 PPMGround 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 BELIEFDATE 11/3/94

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
ENVIRONMENTAL COORDINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80144</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: FEDERAL GC WELL #: 2 PIT: SEP
QUAD/UNIT: M SEC: 27 TWP: 28N RNG: 10W PM: NM CNTY: ST ST: NM
QTR/FOOTAGE: SW/4 SW/4 CONTRACTOR: EPC

DATE STARTED: 11/1/94
DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: *nv*

EXCAVATION APPROX. 25 FT. x 32 FT. x 25 FT. DEEP. CUBIC YARDAGE: 680
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: COMPOSTED
LAND USE: RANGE LEASE: 5F-077383 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FT. N/5W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: 21000' NEAREST SURFACE WATER: 21000'

NMOC Ranking Score: 0 NMOC TPH Closure Std: 5000 PPM

CHECK ONE :

SOIL AND EXCAVATION DESCRIPTION:

☐ PIT ABANDONED
☒ STEEL TANK INSTALLED

mod. to dk. yell. brown sand, non-cohesive, slightly moist, firm, strong
HC odor in south sidewall & bottom oom samples.

5/22/98

~~2.5 CONDITIONAL CLOSURE~~

RISK ASSESSED

FIELD 418.1 CALCULATIONS

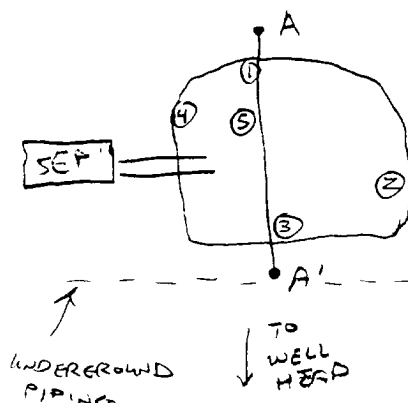
FIELD 418.1 CALCULATIONS							
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1100	5e27'	1250	5	20	10:1	135	5,400

SCALE

PIT PERIMETER 72

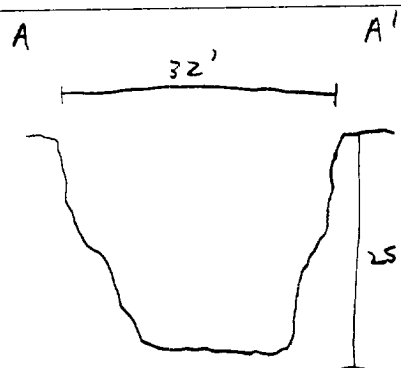
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 22'	5.4
2 @ 19'	8.0
3 @ 19'	1491
4 @ 20'	35.2
5 @ 27'	1935

LAB SAMPLES

[illegible]

TRAVEL NOTES:

CALL OUT: 10/31/94

ONSITE: 11/1/94

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Federal GC #2

Unit M, Sec. 27, T28N, R10W

Separator Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reach practical extent at 25 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.
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. Well site located within the non-vulnerable area and is approximately 1.65 miles southeast of the nearest vulnerable area boundary (Sullivan Canyon Wash).

(Refer to Bloomfield Quadrangle, New Mexico - San Juan County, 7.5 Minute Series (Topographic), Provisional edition, 1985, (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 vertical and lateral impact from the earthen pit is very limited and poses very little, if any, danger to groundwater. AMOCO therefore request approval of this pit closure.

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:	5 @ 27'	Date Analyzed:	11-03-94
Project Location:	Federal GC 2	Date Reported:	11-03-94
Laboratory Number:	TPH-1250	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	5,400	200

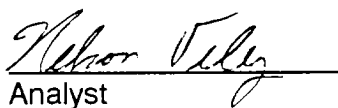
ND = Not Detectable at stated detection limits.

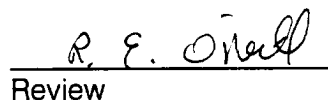
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	568	464	20.16

*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 - B0144


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:	5 @ 27'	Date Analyzed:	11-03-94
Project Location:	Federal GC 2	Date Reported:	11-03-94
Laboratory Number:	TPH-1250	Sample Matrix:	Soil

Sample Weight:	5.00 grams
Volume Freon:	20.00 mL
Dilution Factor:	10 (unitless)
TPH Reading:	135 mg/kg

TPH Result:	5400.0 mg/kg
Reported TPH Result:	5400 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.
	-----	-----	---
	568	464	20.16

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

Comments: Separator Pit - B0144

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80144</u> C.D.C. NO: <u>AMATAS</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>FEDERAL GAS COM 2</u>	LEASE: <u>SF077383</u>	DATE STARTED: <u>5-6-96</u>
QUAD/UNIT: <u>M SEC 27 TWP 28N RNG 10W BM: NM CNTY: SJ ST: NM</u>		DATE FINISHED: _____
QTR/FOOTAGE: <u>SW/SW</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>REO</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 680 - ?

LAND USE: RANGE

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: 2100' NEAREST WATER SOURCE: 21000' NEAREST SURFACE WATER: 21000'

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

LANDFARMED SOILS HAVE BEEN PUSHED INTO PILE.

SOIL CONSISTS OF MOIST → DRY SILTY SAND. NO STAIN, NO ODOUR.

OCTOBER 15, 1996

RAY HASTINGS, PNM, called & requested approval to use this soil to fill a pit on this

Location.

FIELD 418.1 CALCULATIONS

CLOSE L.F.

AMOCO Gave

approval.

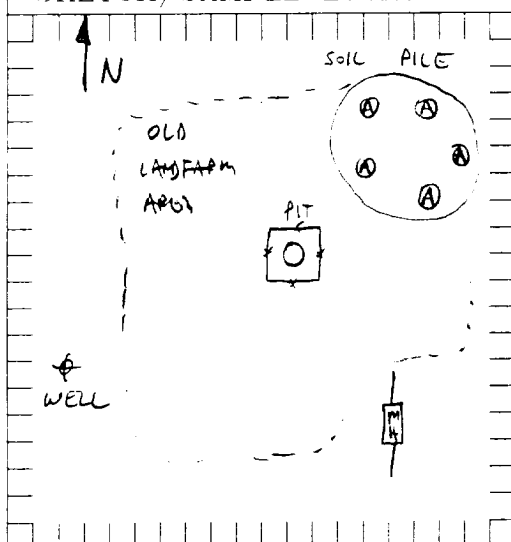
J.C. Blagg

10/15/96

9:00 AM

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

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE P-O (ppm)
COMP. A	0

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	1140	ND

SCALE



0 FT

TRAVEL NOTES:

CALLOUT: _____

ONSITE: 5-6-96 1130



TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID: Federal Gas Com 2
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/22/96
Date Sampled: 05/06/96
Date Received: 05/06/96
Date Extracted: 05/17/96
Date Analyzed: 05/17/96


Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3354	ND	16.6

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	101%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
State of Tennessee, Department of Environment and Conservation, Division
of Underground Storage Tanks.

Comments:


Analyst


Review



TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID: Federal Gas Com 2
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/22/96
Date Sampled: 05/06/96
Date Received: 05/06/96
Date Extracted: 05/20/96
Date Analyzed: 05/21/96

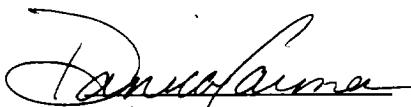
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3354	ND	18.1

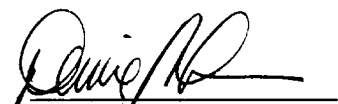
ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	113%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Analyst


Review