

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 - reasonable
what are the results*
80150
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT *Don't forget*

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: KUTZ J. FEDERAL #1
Well Name
Location: Unit or Qtr/Qtr Sec B Sec 1 T27N R10W County SAN JUAN
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 19', width 24', depth 20'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 117'
Direction from reference: 73 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) 0
Greater than 100 feet (0 Points)

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 200 feet (20 points)
200 feet to 1000 feet (10 points) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 11/10/94

Remediation Method: Excavation ☒ Approx. cubic yards 270
 (Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
 Other COMPOSTED

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

General Description Of Remedial Action: _____

Excavation . RISK ASSESSED. 95

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
 Closure Sampling: MULTIPLE SAMPLES
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 16'

Sample date 11/7/94 Sample time 1105

Sample Results

Benzene(ppm) 0.0078

Total BTEX(ppm) 4.564

Field headspace(ppm) 1867 @ 16', 13800 @ 21'

TPH 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 11/10/94

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>80150</u> C.O.C. NO: <u>2253</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>KUTZ J</u> FEDERAL WELL #: <u>1</u> PIT: <u>SEP</u>		DATE STARTED: <u>11/7/94</u>
QUAD/UNIT: <u>B</u> SEC: <u>1</u> TWP: <u>27N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>		DATE FINISHED: _____
QTR/FOOTAGE: <u>NW 1/4 NE 1/4</u> CONTRACTOR: <u>EPC</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>19</u> FT. x <u>24</u> FT. x <u>20</u> FT. DEEP.	CUBIC YARDAGE: <u>270</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIAL METHOD: <u>COMPOSTED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>SF-077384</u> FORMATION: <u>OK</u>

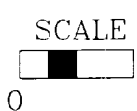
FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>117</u> FT. <u>N 73 W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMCD RANKING SCORE: <u>0</u>	NMCD TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: <input type="checkbox"/> PIT ABANDONED <input checked="" type="checkbox"/> STEEL TANK INSTALLED

TOP: RED. BROWN (SIDEWALLS) TO DR. MED. GRAY (BOTTOM) SAND, NON-COHESSIVE, SLIGHTLY MOIST, FIRM, STRONG HC SPONGE IN EAST & SOUTH SIDEWALL OUM SAMPLES ALONG w/ BOTTOM.

~~CONDITIONAL CLOSURE~~ REASSESSED

FIELD 418.1 CALCULATIONS

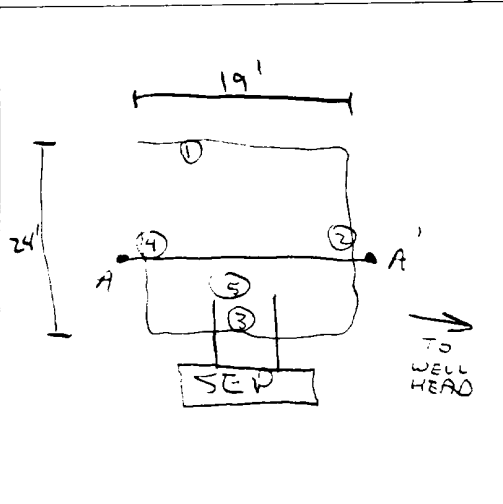
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1100	③ @ 21'	TPH-1258	5	20	10:1	345	13,800
1105	② @ 16'	TPH-1259	5	20	1:1	210	840



PIT PERIMETER

OVM RESULTS

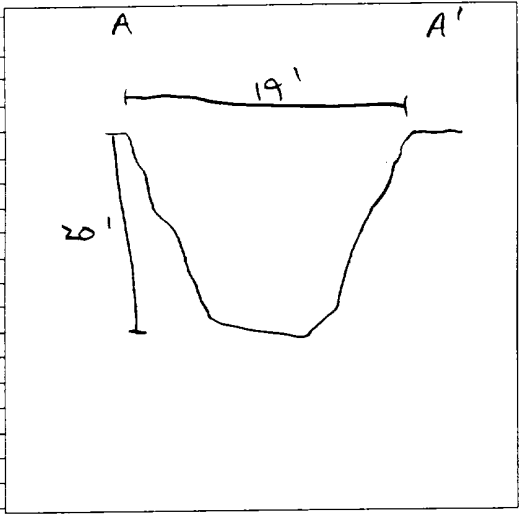
PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 14'	11.2
2 @ 16'	1867
3 @ 16'	1744
4 @ 15'	3.0
5 @ 21'	1689

SAMPLE ID	ANALYSIS	TIME
② @ 16'	BTEX	1105

PASSED



TRAVEL NOTES:	CALLOUT: <u>11/7/94</u>	ONSITE: <u>11/7/94</u>
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Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Kutz J. Federal #1
Unit B. Sec. 1. T27N. R10W
Separator Pit
Basin Dakota
Non Vulnerable
> 1000 ft.
> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit at 20 ft. below grade and for safety concerns (underground piping and surface equipment).

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 (based on informal site observation of adjacent sandstone outcrop).
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 0.98 miles southeast of the nearest vulnerable area boundary (Armenta Canyon wash).

(Refer to Huerfanito Peak Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photo 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 to groundwater is very unlikely. 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
Sample ID: 5 @ 21'
Project Location: Kutz J. Federal 1
Laboratory Number: TPH-1258

Project #:
Date Analyzed: 11-08-94
Date Reported: 11-08-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	13,800	200

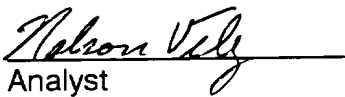
ND = Not Detectable at stated detection limits.


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 - B0150


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: 2 @ 16'
Project Location: Kutz J. Federal 1
Laboratory Number: TPH-1259

Project #:
Date Analyzed: 11-08-94
Date Reported: 11-08-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	840	20

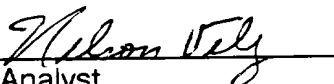
ND = Not Detectable at stated detection limits.

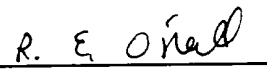
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% * Diff.
	568	464	20.16

*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 - B0150


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: *11/9/94*
Lab ID: *2253*
Sample ID: *3900*
Job No. *2-1000*

Project Name: *Kutz J. Federal #1*
Project Location: *2 @ 16'*
Sampled by: *NV* Date: *11/7/94*
Analyzed by: *DLA* Date: *11/9/94*
Sample Matrix: *Soil*

Time: *11:05*

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
<i>Benzene</i>	<i>7.8</i>	<i>0.2</i>
<i>Toluene</i>	<i>22.2</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>318</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>2,232</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>1,984</i>	<i>0.2</i>
	<i>TOTAL 4,564 ug/kg</i>	

ND - Not Detectable

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

Approved by:

Date:

Ja H
11/9/94

P. O. BOX 2606 • FARMINGTON, NM 87499

Phone: (505) 325-8786 Fax: (505) 325-5667

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:

Sample ID:

Project Location:

Laboratory Number:

Amoco

5 @ 21'

Kutz J. Federal 1

TPH-1258

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

11-08-94

11-08-94

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

10 (unitless)

TPH Reading:

345 mg/kg

TPH Result:

13800.0 mg/kg

Reported TPH Result:

13800 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 - B0150

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:

2 @ 16'

Date Analyzed:

11-08-94

Project Location:

Kutz J. Federal 1

Date Reported:

11-08-94

Laboratory Number:

TPH-1259

Sample Matrix:

Soil

Sample Weight: 5.00 grams
Volume Freon: 20.00 mL
Dilution Factor: 1 (unitless)
TPH Reading: 210 mg/kg

TPH Result: 840.0 mg/kg
Reported TPH Result: 840 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.
	----- 568	----- 464	----- 20.16

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

Comments: Separator Pit - B0150

CLIENT: AmocoBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 80150C.D.C. NO: ANALYSIS

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: KUTZ J FEDERALLEASE: SF-077384DATE STARTED: 5-9-96QUAD/UNIT: B SEC: 1 TWP: 27 N RNG: 10 W BM: NM CNTY: SJ ST: NM

DATE FINISHED: _____

QTR/FOOTAGE: NW/NECONTRACTOR: EPCENVIRONMENTAL
SPECIALIST: PEO

SOIL REMEDIATION:

REMEDATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 270-?LAND USE: RANGE

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

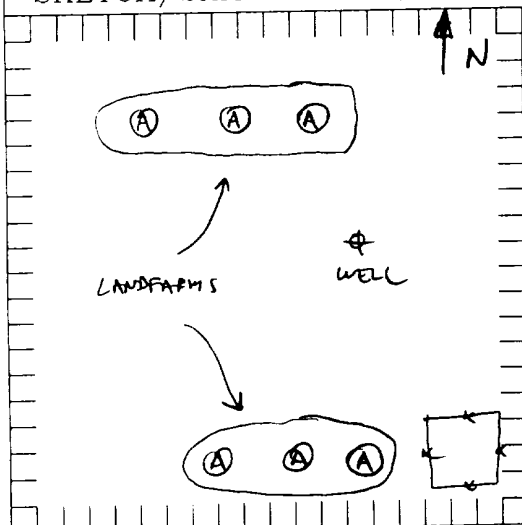
SOIL CONSISTS OF MOIST → DRY, BROWN, SILTY SAND - NO STAIN, NO ODOOR.

FIELD 418.1 CALCULATIONS

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

CLOSE L.F.

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	0930	ND

RECEIVED
SEP 16 1999
OIL CON. DIV.
DIST. 3

SCALE

0 10 FT

TRAVEL NOTES:

CALLOUT: _____

ONSITE: 5-9-96 0925

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID: Kutz J Federal 1
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/28/96
Date Sampled: 05/09/96
Date Received: 05/10/96
Date Extracted: 05/20/96
Date Analyzed: 05/20/96

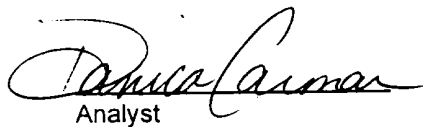
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3382	ND	16.3

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	86%	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: Kutz J Federal 1
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/28/96
Date Sampled: 05/09/96
Date Received: 05/10/96
Date Extracted: 05/22/96
Date Analyzed: 05/22/96

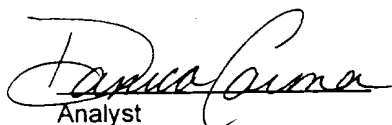
Comp. A	3382	ND	19.8
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ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	88%	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