

80721

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

Risk
bedrock

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO

APPROPRIATE

DISTRICT OFFICE

AND 1 COPY TO

SANTA FE OFFICE

MAR 2001

9/12/01

PIT REMEDIATION AND CLOSURE REPORTOperator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: GCN # 96
Well NameLocation: Unit or Qtr/Qtr Sec 0 Sec 18 T 29N R 12W County SAN JUANPit Type: Separator ☒ Dehydrator ☐ Other ☐Land Type: BLM ☐, State ☐, Fee ☒, Other ☐Pit Location: Pit dimensions: length 26', width 24', depth 17'
(attach diagram)Reference: wellhead ☒, other ☐Footage from reference: 140'Direction from reference: 0 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) 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 (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)

Greater than 1000 feet (0 points) 0RANKING SCORE (TOTAL POINTS): 0

SEP. PIT

80721

Date Remediation Started: _____ Date Completed: 2/9/00Remediation Method: Excavation ☒ Approx. cubic yards 390
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation . BEDROCK BOTTOM .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 DocumentsSample depth 11' (NORTH SIDEWALL)Sample date 2/8/00 Sample time 1410

Sample Results

Benzene(ppm) 0.0113Total BTEX(ppm) 0.472Field headspace(ppm) 321TPH 2,440Ground 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 2/9/00

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator

300513093

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80721</u> C.E.C. NO: <u>7462</u>																																																																																
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																																																																
LOCATION: NAME: <u>GCU</u> WELL #: <u>96</u> PIT: <u>SEP.</u> QUAD/UNIT: <u>0</u> SEC: <u>18</u> TWP: <u>29N</u> RNG: <u>12W</u> PM: <u>NM</u> CNTY: <u>ST NM</u> QTR/FOOTAGE: <u>1090' B/L</u> <u>1350' FEL</u> CONTRACTOR: <u>P&S</u>		DATE STARTED: <u>2/8/00</u> DATE FINISHED: <u>2/8/00</u> ENVIRONMENTAL SPECIALIST: <u>NV</u>																																																																																
EXCAVATION APPROX. <u>26</u> FT. x <u>24</u> FT. x <u>17</u> FT. DEEP CUBIC YARDAGE <u>390</u> DISPOSAL FACILITY: <u>AMOCO CROUCH MESA FACILITY</u> REMEDIATION METHOD: <u>LANDFARM</u> LAND USE: <u>RANGE/ PREDEVELOPMENT</u> LEASE: <u>FEE</u> FORMATION: <u>DR</u>																																																																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>140</u> FT. <u>DUE WEST</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION: <u>ALL SAND & GRAVEL, STAINED & LAST 3' OF NO. & SO. SIDEWALLS EVIDENT.</u>																																																																																		
<div style="float: right; border: 1px solid black; padding: 5px; width: fit-content;"> CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED </div> <div style="clear: both;"></div>																																																																																		
<p style="text-align: right;">COLLECTED MANIFEST OR BOL SHEETS UPON COMPLETION</p> <p style="text-align: center;">BOTTOM - DR. OLIVE GRAY SHALE BEDROCK, SOFT TO HARD, HC ODOR DETECTED.</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <p style="border: 1px solid black; padding: 2px; display: inline-block;">BEDROCK Bottom</p> <p style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block; margin-top: 10px;">CLOSED</p> </div> <div style="width: 40%;"> <p style="text-align: center;">FIELD 418.1 CALCULATIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr> <td>1410</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> </div> <div style="width: 25%;"> <p>SCALE</p> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background: linear-gradient(to right, black 50%, white 50%); border: 1px solid black; margin-right: 5px;"></div> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 10px; height: 10px; background-color: black; margin-bottom: 2px;"></div> <div style="width: 10px; height: 10px; background-color: white; margin-bottom: 2px;"></div> </div> </div> <p>0 FT</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 30%;"> <p style="text-align: center;">PIT PERIMETER</p> </div> <div style="width: 30%;"> <p style="text-align: center;">OVM RESULTS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 11'</td><td>321</td></tr> <tr><td>2 @ 12'</td><td>47.2</td></tr> <tr><td>3 @ 11'</td><td>6.0</td></tr> <tr><td>4 @ 10'</td><td>0.0</td></tr> <tr><td>5 @ 17'</td><td>232</td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> </tbody> </table> <p style="text-align: center;">LAB SAMPLES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>1 @ 11'</td> <td>TPH / GTEX</td> <td>1410</td> </tr> <tr> <td colspan="3" style="text-align: center; border: 2px solid black; border-radius: 10px;">BOTH PASSED</td> </tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> </tbody> </table> </div> <div style="width: 30%;"> <p style="text-align: center;">PIT PROFILE</p> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	1410																																SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 11'	321	2 @ 12'	47.2	3 @ 11'	6.0	4 @ 10'	0.0	5 @ 17'	232											SAMPLE ID	ANALYSIS	TIME	1 @ 11'	TPH / GTEX	1410	BOTH PASSED											
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Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

GCU #96

Unit O, Sec. 18, T29N, R12W

Blow Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered competent shale at 17 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 shallow shale 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 0.32 miles north of the nearest vulnerable area boundary (canyon tributary to the San Juan River).

(Refer to Farmington South Quadrangle, New Mexico - San Juan County, 7.5 Minute Series (Topographic), Provisional edition, 1979, (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 lateral impact from the earthen pit is very limited and that the shale 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). BP AMOCO therefore request pit closure approval on this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

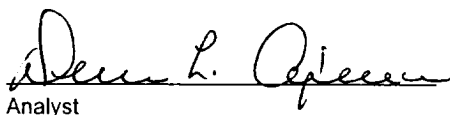
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	1 @ 11'	Date Reported:	02-09-00
Laboratory Number:	G803	Date Sampled:	02-08-00
Chain of Custody No:	7460	Date Received:	02-08-00
Sample Matrix:	Soil	Date Extracted:	02-09-00
Preservative:	Cool	Date Analyzed:	02-09-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

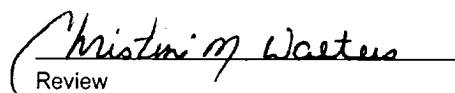
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,030	0.2
Diesel Range (C10 - C28)	410	0.1
Total Petroleum Hydrocarbons	2,440	0.1

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: GCU # 96 Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	1 @ 11'	Date Reported:	02-09-00
Laboratory Number:	G803	Date Sampled:	02-08-00
Chain of Custody:	7460	Date Received:	02-08-00
Sample Matrix:	Soil	Date Analyzed:	02-09-00
Preservative:	Cool	Date Extracted:	02-09-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	11.3	1.8
Toluene	88.5	1.7
Ethylbenzene	63.6	1.5
p,m-Xylene	176	2.2
o-Xylene	132	1.0
Total BTEX	472	

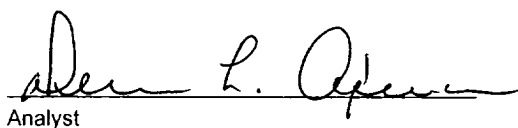
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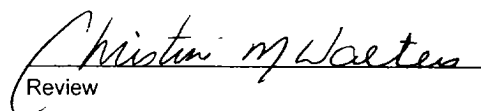
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: GCU # 96 Separator Pit.


Analyst


Review