

CT010

District I

P.O. Box 1980, Hobbs, NM

District II

Drawer DD, Artesia, NM

District III

1000 Rio Bravo Rd., Aztec, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

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



PIT REMEDIATION AND CLOSURE REPORT

30-045-05877

Operator: XTO ENERGY, INC. Telephone: (505) 324-1090

Address: 2700 FARMINGTON AVE., BLDG. K SUITE 1, FARMINGTON, NM 87401

Facility or Well Name: State J Com #1

Location: Unit or Qtr/Qtr Sec D Sec 16 T 24N R 11W County San Juan

Pit Type: Separator Dehydrator Other Blow

Land Type: BLM KAG, State ✓, Fee , Other

Pit Location: (Attach diagram) Pit dimensions: length NA, width NA, depth NA

Reference: wellhead X, other

Footage from reference: 75'

Direction from reference: 86 Degrees ✓ East North ✓
 West South

Depth To Groundwater:
 (Vertical distance from
 contaminants to seasonal
 high water elevation of
 groundwater)

Less than 50 feet	(20 points)	<u>10 KAG</u>
50 feet to 99 feet	(10 points)	<u> </u>
Greater than 100 feet	(0 points)	<u>0</u>

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)	<u> </u>
No	(0 points)	<u>0</u>

Distance To Surface Water:
 (Horizontal distance to perennial
 lakes, ponds, rivers, streams, creeks,
 irrigation canals and ditches)

Less than 100 feet	(20 points)	<u> </u>
100 feet to 1000 feet	(10 points)	<u> </u>
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 10 KAG
0

Blow Pit

Date Remediation Started: _____

Date Completed: 9-11-02

Remediation Method:

Excavation XApprox. cubic yards NA 30

(Check all appropriate sections)

Landfarmed X

Insitu Bioremediation _____

Other CLOSE AS IS.

Remediation Location:

Onsite X Offsite _____

(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary.Bedrock Bottom. Risk Assessed.Groundwater Encountered: No X 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 5' (Test hole bottom)Sample date 9-10-02 Sample time 0820

Sample Results

Soil: Benzene	(ppm) <u>0.0281</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>2.810</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>719</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>1160</u>	Total Xylenes	(ppb) _____

Groundwater Sample: Yes _____ No X (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 9-11-02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

CLIENT: <u>XTO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CT010</u> COCR NO: <u>10101</u>																								
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																								
LOCATION: NAME: <u>STATE I Com</u> WELL #: <u>1</u> TYPE: <u>BLOW</u> QUAD/UNIT: <u>D</u> SEC: <u>16</u> TWP: <u>26N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>790'N/790'W</u> NW/NW CONTRACTOR: <u>HIGH DESERT (FERNANDO)</u>		DATE STARTED: <u>9/10/02</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																								
EXCAVATION APPROX. <u>18</u> FT. x <u>18</u> FT. x <u>3</u> FT. DEEP. CUBIC YARDAGE: <u>30</u>																										
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>STOCKPILE</u>																										
LAND USE: <u>RANGE</u> LEASE: <u>STATE</u> FORMATION: <u>DK/GP</u>																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>75</u> FT. <u>N86E</u> FROM WELLHEAD.																										
DEPTH TO GROUNDWATER: <u><100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>																										
NMOCD RANKING SCORE: <u>10</u> NMOCD TPH CLOSURE STD: <u>1000</u> PPM																										
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>53.5</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>12:30</u> am/pm DATE: <u>9/3/02</u>																								
SOIL TYPE: <u>(SAND)</u> SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u> SOIL COLOR: <u>DR. YELL. ORANGE TO BLACK</u> <u>BEDROCK - LT. GRAY TO DR. YELL. ORANGE</u> COHESION (ALL OTHERS): <u>(NON COHESIVE)</u> SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>(LOOSE)</u> FIRM DENSE / VERY DENSE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE: DRY / SLIGHTLY MOIST / <u>(MOIST)</u> WET / SATURATED / SUPER SATURATED Risk Assessed DISCOLORATION/STAINING OBSERVED: <u>YES</u> NO EXPLANATION - <u>ENTIRE TEST HOLE + BEDROCK SURFACING</u> HC ODOR DETECTED: <u>YES</u> NO EXPLANATION - <u>TEST HOLE + OVM SAMPLE</u> SAMPLE TYPE: <u>(GRAB)</u> COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: <u>STANDING WATER IN PIT DEPRESSION PRIOR TO TEST HOLE ADVANCEMENT</u> <div style="border: 1px solid black; padding: 2px; display: inline-block;">BEDROCK Bottom</div> <u>BEDROCK - HARD, SLIGHTLY FRIABLE. COLLECTED SAMPLE FROM BEDROCK SURFACE (DR. YELL. ORANGE @ 5 FT. BELOW GRADE).</u>																										
FIELD 418.1 CALCULATIONS																										
SCALE 0 FT	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</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> </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>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																	<div style="text-align: center;">PIT PERIMETER</div> <div style="text-align: center;">PIT PROFILE</div> <p style="text-align: center; font-size: 1.2em;">NOT APPLICABLE</p>
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P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																										
TRAVEL NOTES: CALLOUT: <u>9/8/02 - AFTER</u> ONSITE: <u>9/9/02 - MORN</u>																										

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

State J COM #1

Unit D, Sec. 16, T26N, R11W

Blow Pit

Dakota/Gallup

Vulnerable

> 1000 ft.

< 50 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when backhoe encountered sandstone bedrock at five (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 five (5) feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below 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 (well plugged and 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 an 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). XTO requests pit closure approval for this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

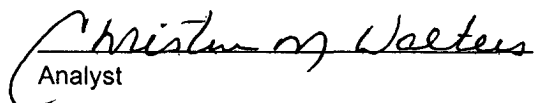
Client:	Blagg / BP ^{XTO ENERGY}	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	09-11-02
Laboratory Number:	23784	Date Sampled:	09-10-02
Chain of Custody No:	10101	Date Received:	09-10-02
Sample Matrix:	Soil	Date Extracted:	09-11-02
Preservative:	Cool	Date Analyzed:	09-11-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

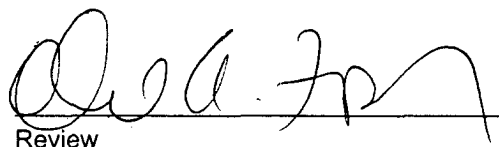
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	720	0.2
Diesel Range (C10 - C28)	444	0.1
Total Petroleum Hydrocarbons	1,160	0.2

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: State J Com #1 Blow Pit Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

XTO ENERGY NY

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	09-12-02
Laboratory Number:	23784	Date Sampled:	09-10-02
Chain of Custody:	10101	Date Received:	09-10-02
Sample Matrix:	Soil	Date Analyzed:	09-11-02
Preservative:	Cool	Date Extracted:	09-11-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	28.1	1.8
Toluene	443	1.7
Ethylbenzene	208	1.5
p,m-Xylene	1,460	2.2
o-Xylene	671	1.0
Total BTEX	2,810	

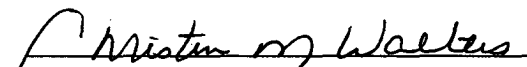
ND - Parameter not detected at the stated detection limit.

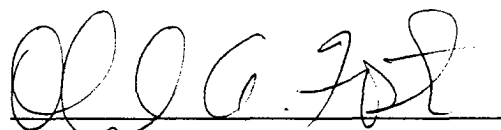
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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: State J Com #1 Blow Pit Grab Sample.


Analyst


Review

CLIENT: <u>XTO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CT010</u> C.O.C. NO: <u>10266</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>STATE J COM</u> WELL #: <u>1</u> PITS: <u>BLOW</u> QUAD/UNIT: <u>D</u> SEC: <u>16</u> TWP: <u>26N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>790'N/790'W NW/NE</u> CONTRACTOR: <u>HIGH OSECT (FERNANDO)</u>	DATE STARTED: <u>10/8/02</u> DATE FINISHED: <u>7/11/03</u> ENVIRONMENTAL SPECIALIST: <u>NV</u>
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SOIL REMEDIATION:

REMEDIALATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>30</u>
LAND USE: <u>RANGE - STATE LEASE</u>	LIFT DEPTH (ft): <u>0.5-1.5</u>

FIELD NOTES & REMARKS:

NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 ppm

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

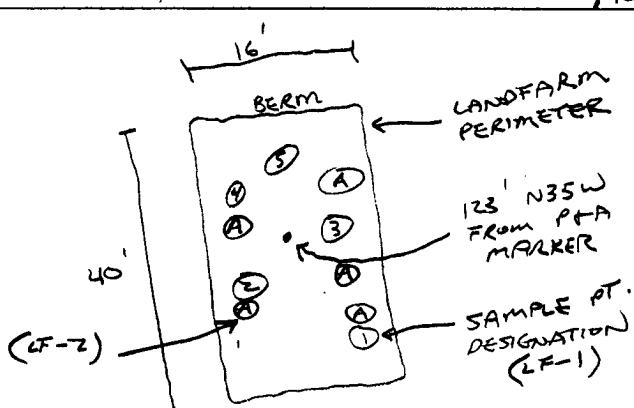
SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____
 SOIL COLOR: DR. YEL. BROWN
 COHESION (ALL OTHERS): NON COHESIVE / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVE
 CONSISTENCY (NON COHESIVE SOILS): (LOOSE) / (FIRM) / DENSE / VERY DENSE
 PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
 DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
 MOISTURE: DRY / SLIGHTLY MOIST / (MOIST) / WET / SATURATED / SUPER SATURATED
 DISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - LANDFARM SURFACE
 HC ODOR DETECTED: (YES) / NO EXPLANATION - LANDFARM SURFACE & DUM SAMPLE
 SAMPLING DEPTHS (LANDFARMS): 6-12 (INCHES)
 SAMPLE TYPE: GRAB / (COMPOSITE) - # OF PTS. 5
 ADDITIONAL COMMENTS: _____

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS



OVM CALIB. READ. 50.2 ppm
 OVM CALIB. GAS = 100 ppm; RF = 0.52
 TIME: 9:38 am DATE: 10/8/02

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	43.7	LF-1	TPH (30158)	0935	10,960
LF-2	4.5	LF-2	"	0625	645

OVM CALIB. 54.2 ppm
7/11/03 TIME - 0629

SCALE



0 FT

TRAVEL NOTES: CALLOUT: 10/8/02 - MORN. ONSITE: 10/8/02 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

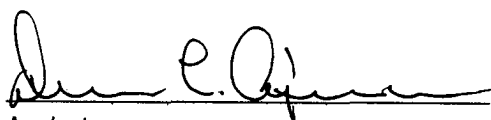
Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	LF - 2	Date Reported:	07-11-03
Laboratory Number:	26060	Date Sampled:	07-11-03
Chain of Custody No:	09835	Date Received:	07-11-03
Sample Matrix:	Soil	Date Extracted:	07-11-03
Preservative:	Cool	Date Analyzed:	07-11-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

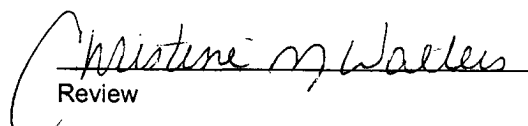
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	14.3	0.2
Diesel Range (C10 - C28)	631	0.1
Total Petroleum Hydrocarbons	645	0.2

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: State J Com #1 Landfarm 5 Pt. Composite.


Analyst


Review