

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to
appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe
office

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>XTO ENERGY INC.</u> Telephone: <u>(505)-324-1090</u> e-mail address: _____	
Address: <u>2700 FARMINGTON AVE.. BLDG. K. SUITE 1. FARMINGTON. NM 87401</u>	
Facility or well name: <u>BERGER #2E</u>	API #: <u>30-045- 24752</u> U/L or Qtr/Qtr <u>K</u> Sec <u>23</u> T <u>26N</u> R <u>11W</u>
County: <u>SAN JUAN</u> Latitude <u>36.47062</u> Longitude <u>107.97667</u> NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐	
Pit Type: Drilling ☐ Production ☐ Disposal ☒ <u>PRODUCTION TANK</u> Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: <u>NA</u> Double-walled, with leak detection? Yes ☐ If not, explain why not. _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) <u>0</u> 100 feet or more (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) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) <u>0</u> 1000 feet or more (0 points)
Ranking Score (Total Points) <u>0</u>	

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: <u>PIT LOCATED APPROXIMATELY 100 FT. S32W FROM WELL HEAD.</u>
<u>PIT EXCAVATION: WIDTH NA ft., LENGTH NA ft., DEPTH NA ft.</u>
<u>PIT REMEDIATION: CLOSE AS IS: ☒ LANDFARM: ☐ COMPOST: ☐ STOCKPILE: ☐ OTHER ☐ (explain)</u>
Cubic yards: <u>NA</u>

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.

Date: 11/12/04

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature Jeff Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

Signature Brady Roll

Date: MAR 27 2006

CLIENT: XTO**BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: CT114COCR NO: 12937**FIELD REPORT: PIT CLOSURE VERIFICATION**PAGE No: 1 of 1 *0 & A*LOCATION: NAME: BERGER WELL #: 2E TYPE: PROD. TANKDATE STARTED: 11/8/04QUAD/UNIT: K SEC. 23 TWP: 26N RNG: 11W PM: NM CNTY: SJ ST: NM

DATE FINISHED:

QTR/FOOTAGE: 1560'S/1710'W NE(SW) CONTRACTOR: HDI (HEBER)ENVIRONMENTAL SPECIALIST: NVEXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: NADISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: CLOSE AS ISLAND USE: RANGE - BLM LEASE: SF 078641 FORMATION: GP**FIELD NOTES & REMARKS:**PIT LOCATED APPROXIMATELY 100 FT. 532W FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM**SOIL AND EXCAVATION DESCRIPTION:**OVM CALIB. READ. = 53.1 ppm
OVM CALIB. GAS = 100 ppm *RF = 0.52*
TIME: 12:10 *am*/pm DATE: 11/8/04SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHERSOIL COLOR: DRIVE GRAYCOHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): (LOOSE) / (FIRM) / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

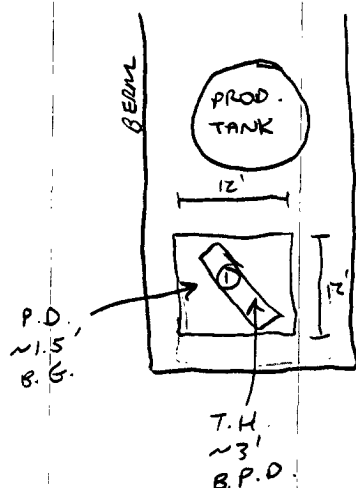
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - TEST HOLE & BEYOND 5' BELOW GRADEHC ODOR DETECTED: (YES) / NO EXPLANATION - DISCOLORED SOIL & OVM SAMPLE.SAMPLE TYPE: (GRAB) COMPOSITE - # OF PTS. 1ADDITIONAL COMMENTS: INSTRUCTED OPERATOR TO DILUTE / AERATE IMPACTED SOIL TO A MINIMUM OF 10' BELOW GRADE & LEAVE IN PLACE.CLOSED**SCALE**

0 FT

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER*N***OVM READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 5'	447
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 5'	TPH (80158)	140Z
"	BTEX (80218)	"

PASSED**PIT PROFILE**

NOT APPLICABLE

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM**TRAVEL NOTES:**CALLOUT: 11/8/04 - MORN.ONSITE: 11/8/04 - AFTER.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / XTO Energy	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	11-12-04
Laboratory Number:	31187	Date Sampled:	11-08-04
Chain of Custody No:	12937	Date Received:	11-09-04
Sample Matrix:	Soil	Date Extracted:	11-10-04
Preservative:	Cool	Date Analyzed:	11-12-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

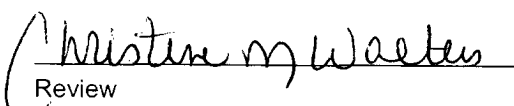
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,320	0.2
Diesel Range (C10 - C28)	147	0.1
Total Petroleum Hydrocarbons	1,470	0.2

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: **Berger #2E Production Tank Pit Grab Sample.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / XTO Energy	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	11-12-04
Laboratory Number:	31187	Date Sampled:	11-08-04
Chain of Custody:	12937	Date Received:	11-09-04
Sample Matrix:	Soil	Date Analyzed:	11-12-04
Preservative:	Cool	Date Extracted:	11-10-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	133	1.8
Toluene	469	1.7
Ethylbenzene	368	1.5
p,m-Xylene	2,200	2.2
o-Xylene	1,630	1.0
Total BTEX	4,800	

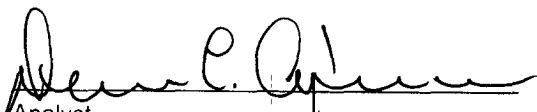
ND - Parameter not detected at the stated detection limit.

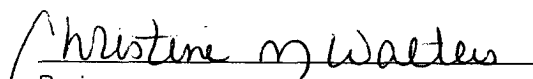
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Berger #2E Production Tank Pit Grab Sample.


Analyst


Review

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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
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Form C-144
June 1, 2004
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: XTO ENERGY INC. Telephone: (505)-324-1090 e-mail address: _____
Address: 2700 FARMINGTON AVE.. BLDG. K. SUITE 1. FARMINGTON. NM 87401
Facility or well name: BERGER #2E API #: 30-045- 24752 U/L or Qtr/Qtr K Sec 23 T 26N R 11W
County: SAN JUAN Latitude 36.47062 Longitude 107.97667 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☐ Production ☐ Disposal ☒ SEPARATOR
Workover ☐ Emergency ☐
Lined ☐ Unlined ☒
Liner type: Synthetic ☐ Thickness _____ mil Clay ☐
Pit Volume _____ bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____
Construction material: NA
Double-walled, with leak detection? Yes ☐ If not, explain why not. _____

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

(20 points)

50 feet or more, but less than 100 feet

(10 points)

0

100 feet or more

(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 all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

0

1000 feet or more

(0 points)

Ranking Score (Total Points)

0

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: PIT LOCATED APPROXIMATELY 126 FT. S90W FROM WELL HEAD.

PIT EXCAVATION: WIDTH NA ft., LENGTH NA ft., DEPTH NA ft.

PIT REMEDIATION: CLOSE AS IS: ☒ LANDFARM: ☐ COMPOST: ☐ STOCKPILE: ☐ OTHER ☐ (explain)

Cubic yards: NA

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.

Date: 11/12/04

Printed Name/Title Jeff Blagg – P.E. # 11607

Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title _____

Signature _____

Date: _____

CLIENT: XTO**BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: CT114COCR NO: 12937**FIELD REPORT: PIT CLOSURE VERIFICATION**PAGE No: 1 of 1LOCATION: NAME: BERGER WELL #: ZE TYPE: SEP
QUAD/UNIT: K SEC: 23 TWP: 26N RNG: 11W PM: NM CNTY: ST ST: NM
QTR/FOOTAGE: 1560'S/1710'W NE/SW CONTRACTOR: HDI (HEBER)DATE STARTED: 11/8/04

DATE FINISHED: _____

ENVIRONMENTAL
SPECIALIST: NVEXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: NADISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: CLOSE AS ISLAND USE: RANGE-BLM LEASE: SF 078641 FORMATION: GP**FIELD NOTES & REMARKS:**PIT LOCATED APPROXIMATELY 126 FT. S90W FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM**SOIL AND EXCAVATION DESCRIPTION:**OVM CALIB. READ. = 53.1 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 10:10 (am/pm) DATE: 11/8/04SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____SOIL COLOR: OLIVE GRAY / DR. YELL. ORANGE MIXCOHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (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 SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - OLIVE GRAY THROUGHOUT EXCAVATED SOILHC ODOR DETECTED: YES / NO EXPLANATION - _____SAMPLE TYPE: GRAB COMPOSITE - # OF PTS. -ADDITIONAL COMMENTS: OPERATOR EXCAVATED AT AREA TO ~10' BELOW GRADE PRIOR TO ARRIVAL.
INSTRUCTED OPERATOR TO DILUTE/AERATE IMPACTED SOIL & PLACE BACK INTO
EXCAVATION.**SCALE**

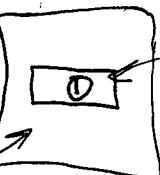
0 FT

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER N A**PIT PROFILE**TO
WELL
HEAD

16'

T.H.
~10'
B.P.D.P.D.
~1'
B.G.

comp

**OVM
READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 11'	269
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
De 11'	TPH (80158)	1343
"	STEX (80218)	"
	<u>PASSED</u>	

NOT APPLICABLE

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM**TRAVEL NOTES:**CALLOUT: 11/8/04 - MORN.ONSITE: 11/8/04 - AFTER.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

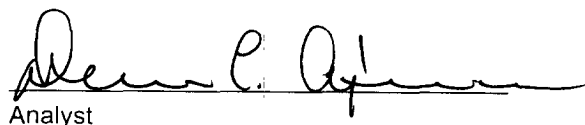
Client:	Blagg / XTO Energy	Project #:	94034-010
Sample ID:	1 @ 11'	Date Reported:	11-12-04
Laboratory Number:	31188	Date Sampled:	11-08-04
Chain of Custody No:	12937	Date Received:	11-09-04
Sample Matrix:	Soil	Date Extracted:	11-10-04
Preservative:	Cool	Date Analyzed:	11-12-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

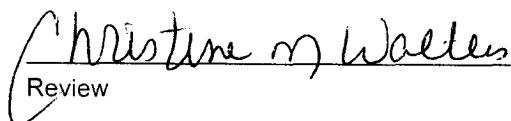
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	39.1	0.2
Diesel Range (C10 - C28)	3.5	0.1
Total Petroleum Hydrocarbons	42.6	0.2

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: **Berger #2E Separator Pit Grab Sample.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / XTO Energy	Project #:	94034-010
Sample ID:	1 @ 11'	Date Reported:	11-12-04
Laboratory Number:	31188	Date Sampled:	11-08-04
Chain of Custody:	12937	Date Received:	11-09-04
Sample Matrix:	Soil	Date Analyzed:	11-12-04
Preservative:	Cool	Date Extracted:	11-10-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	242	1.8
Toluene	464	1.7
Ethylbenzene	62.9	1.5
p,m-Xylene	1,370	2.2
o-Xylene	626	1.0
Total BTEX	2,760	

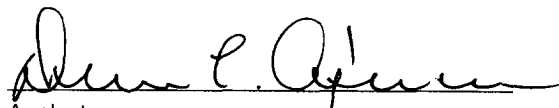
ND - Parameter not detected at the stated detection limit.

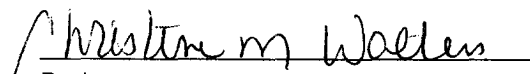
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Berger #2E Separator Pit Grab Sample.


Analyst


Review