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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMQC District Office.
For downstream facilities, submit to Santa Fe office.

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tan Type of action: Registration of a pit o	k covered by a "general plan"? Yes No or below-grade tank Closure of a pit or below-gra	de tantes S2 V2 S2 De la companya de			
	-				
	Telephone: (505)324-1090	e-mail address:			
Address: 2700 Farmington Ave, Building K, Suite 1, Farmington		C 27N D 9W			
Facility or well name: Bolack C 19 API #: 30045					
County: San Juan Latitude 36°31'32" N Longitude	107-43-7-W NAD: 1927 1983 Surface	Owner Federal State Private Indian			
Pit	Below-grade tank				
Type: Drilling Production Disposal	Volume:bbl Type of fluid:				
Workover Emergency	Construction material:				
Lined Unlined	Double-walled, with leak detection? Yes If not				
Liner type: Synthetic Thickness 12 mil Clay Volume		,			
400 ± 661		nerve to be proported to the control of the control			
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)			
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points) 10			
night water crevation of ground water.	100 feet or more	(0 points)			
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)			
water source, or less than 1000 feet from all other water sources.)	No	(0 points) 0			
Distance to surface water (harisantal distance to all surface de la lace	Less than 200 feet	(20 points)			
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points) 10			
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)			
	Ranking Score (Total Points)	20			
f this is a pit closure: (1) attach a diagram of the facility showing the pit's					
onsite offsite If offsite, name of facility	(3) Attach a general description of remedial action	on taken including remediation start date and end			
ate. (4) Groundwater encountered: No Yes 🔲 If yes, show depth belo					
liagram of sample locations and excavations.					
I hereby certify that the information above is true and complete to the best has been will be constructed as alread according to NIMOCID with line	t 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 guidelin Date:July 7, 2004	_				
Printed Name/Title Jeffrey C. Blagg, Agent, NMPE 11607 Signature Left L. Blagg					
Your certification and NMOCD approval of this application/closure does	/////	s of the nit 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: JUI 12 2004		<u></u>			
Date.	1 Servin	Toest			
Printed Name/Title	Signature				
	\mathcal{U}				

50 045 319	11 36° 31'32 Nx	107°43 7"W
() 1	G ENGINEERING, INC. 37, BLOOMFIELD, NM 87413	LOCATION NO:
(5	(05) 632-1199	COCR NO: 12146
FIELD REPORT: PIT CLC	SURE VERIFICATION	PAGE No: 1 of 1
LOCATION: NAME: BOLACK C	WELL #: 19 TYPE: RESERVE	DATE STARTED: 5-14-04
QUAD/UNIT: O SEC: 31 TWP: 27 N RNG:	BW PM: NA CNTY: SI ST: NM	DATE FINISHED:
	CONTRACTOR: RUSHBAM	SPECIALIST: JB
EXCAVATION APPROX. NA FT. x	WA FT. X NA FT. DEEP. CUBIC	YARDAGE:
DISPOSAL FACILITY:	REMEDIATION METHOD:	CLUBE AS 15
LAND USE: RANGE L		RMATION:
FIELD NOTES & REMARKS: PIT LOCA	TED APPROXIMATELY 63 FT. N28	FROM WELLHEAD.
		E WATER: < 1000
NMOCD RANKING SCORE: 20 NMOCD TPH C	LOSURE STD: 100 PPM	
SOIL AND EXCAVATION DESCRIPTION	ON: OVM CALIB. READ	
		am/pm DATE:
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CI SOIL COLOR:	LAY / CLAY / GRAVEL / OTHER	
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY (CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM /		
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC		
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIF		
MOISTURE: DRY / SLIGHTLY MOIST (MOIST / WET) SATU DISCOLORATION/STAINING OBSERVED: YES) NO EXPL		
HC ODOR DETECTED: (YES) NO EXPLANATION -		
SAMPLE TYPE: GRAB COMPOSITE # OF PTS. 4 ADDITIONAL COMMENTS: 120 × 49	— 4'1 Deep lined Resource A	4. Collect 4 Point
Couposite u/s	squiple SPADE.	
	FIELD 418.1 CALCULATIONS	
SCALE SAMP. TIME SAMP. ID	LAB NO. WEIGHT (g) mL FREON DIL	JTION READING CALC. (ppm)
0 FT		
↑ PIT PERIMETER		HT PROFILE
	OVM	TITIOTILL
N B B	READING SAMPLE FIELD HEADSPACE	
	ID (ppm)	
composité de Ec-	2 @	
composite & & & & & & & & & & & & & & & & & & &	3 @	Canada Composite
Lixistions.	5 @	6-8-cd Couposite saude locations. 1:45 AM
8	10	1:45 AM
(2)		st For CL, SAR, EC, ESP
A	RES	Ample 6/28/04
(2) (18)	LAB SAMPLES FON	e SAR, BC, BSP, CL
wei	BAMPLE ANALYSIS TIME 4-Pt 779/ 1501	
Q-ÀVI	Bre x	
P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW	& RUPA	
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM		
CALLOUT: 5-12-04	ONSITE: $5 - 14 - 04$	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Bolack C #19	Date Reported:	05-18-04
Laboratory Number:	28705	Date Sampled:	05-14-04
Chain of Custody No:	12146	Date Received:	05-17-04
Sample Matrix:	Solid	Date Extracted:	05-17-04
Preservative:	Cool	Date Analyzed:	05-18-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)		
Gasoline Range (C5 - C10)	126	0.2		
Diesel Range (C10 - C28)	2,970	0.1		
Total Petroleum Hydrocarbons	3,100	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:

Reserve Pit 4 - Point Comp.

Analyst Colonia

Mistine my Walters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Bolack C #19	Date Reported:	05-18-04
Laboratory Number:	28705	Date Sampled:	05-14-04
Chain of Custody:	12146	Date Received:	05-17-04
Sample Matrix:	Solid	Date Analyzed:	05-18-04
Preservative:	Cool	Date Extracted:	05-17-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	24.5	1.8	
Toluene	172	1.7	
Ethylbenzene	349	1.5	
p,m-Xylene	528	2.2	
o-Xylene	518	1.0	
Total BTEX	1,590		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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:

Reserve Pit 4 - Point Comp.

Analyst C. C.

Mistine m Walters
Review



TRACE METAL ANALYSIS

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	Bolack C #19	Date Reported:	05-18-04
Laboratory Number:	28705	Date Sampled:	05-14-04
Chain of Custody:	12146	Date Received:	05-17-04
Sample Matrix:	Solid	Date Analyzed:	05-18-04
Preservative:	Cool	Date Digested:	05-17-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.008	0.001	5.0
Barium	1.27	0.001	100
Cadmium	ND	0.001	1.0
Chromium	ND	0.001	5.0
Lead	ND	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 3050B, Acid Digestion of Sediments, Sludges and Soils.

SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision

Spectroscopy, SW-846, USEPA, December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, August 24, 1998.

Comments:

Reserve Pit 4-Point Comp.

Analyst

CHAIN OF CUSTODY RECORD

ANALYSIS / PARAMETERS	Remarks			4-PE. COMPOSYE							Date Time				Sample Receipt	Z	Received Intact	Cool - Ice/Blue Ice	san juan reproduction 578-129
ANALYSIS / I	3		COU CHC	× × -	× ×	× ×	× ×	× × -			Received by: (Signature)	1.00.7	Received by: (Signature)	Received by: (Signature)	JUIC.	2	hway 64	1 dexico 87401 1 de 15	
6) # J	١	010	Sample Matrix	5041)		1.	0	,,			ite Time	1 CS30 BZ52	Recei	Receiv	CONDOTECH IOC	I IVIROI EV	5796 U.S. Highway 64	Farmington, New Mexico 87401 (505) 632-0615	
Project Location	Client No.	94034-010	Lab Number	b18bE	39350	29351	29352	24353				2	•			inali (
			Sample Time	(100	1.1	5	ε	Ξ									٠		
l j	X 2	સ	Sample Date	J-182/2))	=	==	-			re)	2	rē)	re)					
w \		9.0.0xx	Sample No./	0% GYP	1% GYP	2% GYP	5% GYP	10% GYP			1 0	ののでした	Remquished by: (Signafure)	Relinquished by: (Signature)					



EC, SAR, ESP, Cl Analysis

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	0% Gyp	Date Reported:	06-30-04
Laboratory Number:	29349	Date Sampled:	06-28-04
Chain of Custody:	12456	Date Received:	06-29-04
Sample Matrix:	Soil	Date Extracted:	06-29-04
Preservative:	Cool	Date Analyzed:	06-30-04
Condition:	Cool & Intact	·	

	Analytical	
Parameter	Result	Units

Conductivity @ 25° C	1.615	mmhos/cm
Calcium	50.4	mg/Kg
Magnesium ·	0.05	mg/Kg
Sodium	266	mg/Kg
Sodium Absorption Ratio (SAR)	10.3	ratio
Exchangeable Sodium Percent (ESP)	12.1	percent
Chloride	973	mg/Kg

Reference:

U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments:

Bolack C #19 4-Pt. Composite.

Analyst C. Office

Review McCles



EC, SAR, ESP, Cl Analysis

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	1% Gyp	Date Reported:	06-30-04
Laboratory Number:	29350	Date Sampled:	06-28-04
Chain of Custody:	12456	Date Received:	06-29-04
Sample Matrix:	Soil	Date Extracted:	06-29-04
Preservative:	Cool	Date Analyzed:	06-30-04
Condition:	Cool & Intact	•	

	Analytical	
Parameter	Result	Units

Conductivity @ 25° C	1.726	mmhos/cm
Calcium	92.8	mg/Kg
Magnesium	0.05	mg/Kg
Sodium	266	mg/Kg
Sodium Absorption Ratio (SAR)	7.6	ratio
Exchangeable Sodium Percent (ESP)	9.0	percent
Chloride	817	mg/Kg

Reference:

U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments:

Bolack C #19 4-Pt. Composite.

Review Minter M Wolfes



EC, SAR, ESP, CI Analysis

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	2% Gyp	Date Reported:	06-30-04
Laboratory Number:	29351	Date Sampled:	06-28-04
Chain of Custody:	12456	Date Received:	06-29-04
Sample Matrix:	Soil	Date Extracted:	06-29-04
Preservative:	Cool	Date Analyzed:	06-30-04
Condition:	Cool & Intact		

	Analytical	
Parameter	Result	Units

Conductivity @ 25° C	1.702	mmhos/cm
Calcium	109	mg/Kg
Magnesium	0.05	mg/Kg
Sodium	263	mg/Kg
Sodium Absorption Ratio (SAR)	6.9	ratio
Exchangeable Sodium Percent (ESP)	8.2	percent
Chloride	734	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Bolack C #19 4-Pt. Composite.

Analyst P. Qui

Mistine M Welters Review



EC, SAR, ESP, CI Analysis

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	5% Gyp	Date Reported:	06-30-04
Laboratory Number:	29352	Date Sampled:	06-28-04
Chain of Custody:	12456	Date Received:	06-29-04
Sample Matrix:	Soil	Date Extracted:	06-29-04
Preservative:	Cool	Date Analyzed:	06-30-04
Condition:	Cool & Intact	·	

	Analytical	
Parameter Result Units		

Conductivity @ 25° C	1.654	mmhos/cm
Calcium	137	mg/Kg
Magnesium	0.05	mg/Kg
Sodium	216	mg/Kg
Sodium Absorption Ratio (SAR)	5.1	ratio
Exchangeable Sodium Percent (ESP)	5.8	percent
Chloride	667	mg/Kg

Reference:

U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments:

Bolack C #19 4-Pt. Composite.

Analyst C. Caplus

(Mister of Welter Review



EC, SAR, ESP, CI Analysis

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	10% Gyp	Date Reported:	06-30-04
Laboratory Number:	29353	Date Sampled:	06-28-04
Chain of Custody:	12456	Date Received:	06-29-04
Sample Matrix:	Soil	Date Extracted:	06-29-04
Preservative:	Cool	Date Analyzed:	06-30-04
Condition:	Cool & Intact		

	Analytical	
Parameter	Result	Units

Conductivity @ 25° C	1.480	mmhos/cm
Calcium	156	mg/Kg
Magnesium	0.06	mg/Kg
Sodium	174	mg/Kg
Sodium Absorption Ratio (SAR)	3.8	ratio
Exchangeable Sodium Percent (ESP)	4.2	percent
Chloride	497	mg/Kg

Reference:

U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments:

Bolack C #19 4-Pt. Composite.

Analyst P. Opinion

/ Misting Weller
Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

July 7, 2004

Mr. Denny Foust New Mexico Oil Conservation Div. 1000 Rio Brazos Rd Aztec, New Mexico 87410

Re: XTO Energy Inc.

Request for Closure of Lined Drilling Reserve Pit

Bolack C 19, (O) Sec. 31 - T27N - R8W, San Juan County, NM

Dear Mr. Foust:

Referencing correspondence dated June 18, 2004 requesting closure of a lined reserve drilling pit at the subject location, XTO Energy Inc. has requested that Blagg Engineering, Inc. (BEI) conduct additional sampling of the pit contents to validate parameters and conduct a bench scale study of mixing gypsum to reduce salt content. Based on this additional sampling XTO Energy is requesting NMOCD approval to close in place the lined drilling reserve pit at the Bolack C 19 well. The additional sampling at the site conducted on June 28, 2004 indicates that current SAR, EC and ESP test results are within NMOCD closure guidelines, last published May 28, 2004. Additionally, the bench scale study indicates that the addition of gypsum to the pit contents is successful at reducing salt content.

Pursuant to section VII (A) (3) (a) (iii) of the NMOCD guidelines, XTO is requesting approval to close the pit in place by mixing clean soil in the pit contents to provide physical stability and backfilling with a minimum of 3 feet of clean soil. A completed Form C-144, a field sampling report (with diagram of pit and sampling locations) and laboratory analytical test results are attached for your review. XTO will wait for NMOCD approval before proceeding with the pit closure. Please contact myself at (505)632-1199, or XTO regulatory compliance representatives Jeff Clement or Brenda Waller at (505)324-1090 if you need additional information.

Respectfully submitted, Blagg Engineering, Inc.

Jeffrey C. Blagg, President

NMPE 11607

Attachments: Site Map, lab data summary

cc: Ms. Brenda Waller - XTO Farmington

Mr. Jeff Clement - XTO Farmington Mr. Terry Matthews - XTO Farmington

File: xto.bolackc19.2.wpd