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

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

Approval.

Printed Name/Title __

District #3

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 NMOCD District Office For downstream facilities, submit to Santa Fe

Form C-144

SEP 1 0 20m

June 1 2004

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 BP. America Production Company Telephone (505)326-9200 e-mail address: Address 200 Energy Ct, Farmington, NM 87401 Facility or well name FROST TACK & # 2E API#: 3004524372 U/Lor Qtr/Qtr H Sec 27 T27 N RIOW County San Juan Latitude Longitude NAD 1927 🗌 1983 🗍 Surface Owner, Federal State Private Indian Below-grade tank Type: Drilling Production X Disposal Volume: _____bbi Type of fluid. _____ Construction material: Workover Emergency Double-walled, with leak detection? Yes If not, explain y Lined Unlined Liner type Synthetic Thickness ____mil Clay __ Pit Volume bbl Less than 50 feet Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area (Less than 200 feet from a private domestic Νn (0 points) water source, or less than 1000 feet from all other water sources) 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) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) Ranking Score (Total Points) 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 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 See Attached Documentation 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 (attached) alternative OCD-approved plan 🔲. Date: 11/01/2005 Printed Name/Title Jeffrey C. Blagg, Agent 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 Deputy Oil & Gas Inspector,

	BLAG	G ENGI	NEERING	, INC.	LOCATION NO	:A077
CLIENT: XTO	P.O. BOX	87, BLO	OMFIELD	, NM 87413		
	(505) 632	-1199		COCR NO:	10747
FIELD REPOR	T: PIT CL	OSURE	VERIF	CATION	PAGE No:	<u>l</u> of
LOCATION: NAME: FROS	r Jack B	WELL#: 2	E TYPE	SEP III	1	3-20-03
QUAD/UNIT. H SEC. 27	TWP: 27N RNG	: 10W PM: /	M CNTY: SO	S ST: MM	DATE FINISHED	
QTRIFOOTAGE: /630 N/	790 E 5H	NE CONTR	ACTOR: 3D (CHARLIE)	ENVIRONMENTAL SPECIALIST	JCB
EXCAVATION APPRO	X. <u>18</u> FT. x	_18FT.	x <u>8</u> ft	. DEEP. CUBIC	YARDAGE:	80
DISPOSAL FACILITY:	04-517	re	REMEDIA	TION METHOD:	LANDE	opn_
LANDUSE: RANGE - R	,LM	LEASE: SI	F 77951	<u> </u>	RMATION: 😉	P/bK
FIELD NOTES & REMA	RKS: PIT LOC	ATED APPROX	IMATELY 16	8 FT. <u>5</u> 2	<u>4°₩</u> FROM	I WELLHEAD
DEPTH TO GROUNDWATER: _ <	50 NEAREST W	ATER SOURCE:	>1000	NEAREST SURFA	CE WATER	1000
NMOCD RANKING SCORE: _3	O NMOCD TPH	CLOSURE STD.	100 PF	РМ		
SOIL AND EXCAVAT	ION DESCRIPT	ION:		OVM CALIB. READ	. = /30.2 ppr	n
OOIE / (IV) EXO/(V/(I	ON BEGGINI I	1011.		OVM CALIB. GAS:		
SOIL TYPE. SAND SILTY S	AND / SILT / SILTY (CLAY / CLAY /	GRAVEL / OTH		ampin DATE.	
COHESION (ALL OTHERS): NON	COHESIVE SLIGHTLY			COHESIVE		
CONSISTENCY (NON COHESIVE PLASTICITY (CLAYS) NON PLAS				/ HIGHLY PLASTIC		
DENSITY (COHESIVE CLAYS & SI	LTS): SOFT / FIRM / ST	IFF / VERY STIFF	/ HARD	(RISK ASSE	
MOISTURE DRY KSLIGHTLY MO					KISK HSSE	3530
DISCOLORATION/STAINING OBSI			HAY STREA	rki NG		
SAMPLE TYPE GRABICOMPOS	ITE # OF PTS 5		B A . d A l . a m	1. 7. u. 6. a.	·	D - P
ADDITIONAL COMMENTS.	PIT EXCAVATE TH SAMPLE SP	ADE AFTE	E ANN PSIS	RY DUM COUL	SAMPLE I	- point
	MAUSITYE, BASED					
CONE		FIE	LD 418.1 CALC	ULATIONS		
SCALE SAMP.	TIME SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON DIL	UTION READIN	G CALC. (ppm)
0 FT						
N PIT PERIME	TED				PIT PROFI	_ <u> </u>
145,520W) SEP. PITI	- 7170) 0	VM		11 1 1011	L- L
FROM SCLOSURE	/ /Well	REA	DING			
SHORE @13	8.6.1	SAMPLE ID	FIELD HEADSPACE (ppm)	_		
1		1@ 9'	192	_	18'	
	(2)	3@ 9'	200			
		4 @ 9' 5 @ 9'	180 220	A		\overline{A}
A 18' (5)	A'					
A 18' (5)				8'		/
				\exists \downarrow \bigcup		
	3	1 4 5 6	AND 50			
(H)		CALLELE	AMPLES NALYSIS TIME			,
- 18'-	→ 5		BIEX 092			
			PILED			
P.D = PIT DEPRESSION, B.G. = BEL		BTEX -	PA22E)			
TH = TEST HOLE, ~ = APPROX.; TE TRAVEL NOTES:		2-11-		2 /2 /		
CALLO	JT: 3/20/03	2045	ONSITE:	3/21/03 08	355	

revised: 09/04/02

Well Name:
Pit Type:
Well Site location:

Jack Frost B #2E Separator Pit (III) Unit H, Sec. 27, T27N, R10W

Depth to Groundwater: Horizontal Distance to Surface Water: Wellhead Protection Area:

< 1000 ft. > 1000 ft.

50 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when backhoe reached vertical practical extent.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Groundwater levels located on or near the well pad are estimated to be at a greater depth below shallow shall bedrock encountered approximately thirteen (13) feet below grade during previous on-site pit closures conducted in July, 1994.
- 2. Topographic information and on-site inspection does not indicate off site lateral fluid migration near the pit.

Based upon the information given, it is postulated that the subsurface vertical impact to groundwater is very unlikely. XTO requests pit closure approval on this location.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / XTO	Project #:	94034-010
Sample ID:	5-Pt. Comp.	Date Reported:	03-22-03
Laboratory Number:	25155	Date Sampled:	03-21-03
Chain of Custody No:	10747	Date Received:	03-21-03
Sample Matrix:	Soil	Date Extracted:	03-21-03
Preservative:	Cool	Date Analyzed:	03-22-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	378	0.2
Diesel Range (C10 - C28)	577	0.1
Total Petroleum Hydrocarbons	955	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: Jackfrost B #2E - Sep. III

Analyst

Paviotini My Walters

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

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Client:	Blagg / XTO	Project #:	94034-010
Sample ID.	5-Pt. Comp.	Date Reported:	03-22-03
Laboratory Number:	25155	Date Sampled:	03-21-03
Chain of Custody:	10747	Date Received:	03-21-03
Sample Matrix:	Soil	Date Analyzed:	03-22-03
Preservative:	Cool	Date Extracted:	03-21-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	18.2	1.8	
Toluene	658	1.7	
Ethylbenzene	785	1.5	
p,m-Xylene	2,650	2.2	
o-Xylene	1,470	1.0	
Total BTEX	5,580		

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: Jackfrost B #2E - Sep. #

Review Musters

CHAIN OF CUSTODY RECORD

Client / Project Name			Project Locatio						カン	ΔΝΑΙΥ	SIS / PAF	RAMETER	 RS			-
BLAGG/X	(TO		JACKFR	OST B	> # ZE	- 5	EP	111		7117121		17 (17) = 1 = 1				
Sampler:	1 6		Client No.					ľ					F	Remarks	;	
7.0.3	7699		9403	341-0	10		No. of Containers	HOH BOIN	Grex 802							
Sample No./	Sample	Sample	Lab Number		Sample		Non Z	F &	5 8							
Identification	Date	Time			Matrix											
5-Pt. Comp.	3/2/0:	092	02515	>	SOIL		1	\times	X							
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Hefinquished by: (Signatur	e)		-			Hecen	ved by: (Signatu	re)							١
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				and the rest of the	5796 U.S	Hiah	way 6	4	No.							
					ington, N							Hecei	ved Intact		_	
					(505)						·····	Cool - I	ce/Blue Ice			



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	04/00		Drainat #		N/A
	QA/QC		Project #:		
Sample ID:	03-22-TPH QA	/QC	Date Reported:		03-22-03
Laboratory Number:	25139		Date Sampled:		N/A
Sample Matrix:	Methylene Chlori	de	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		03-22-03
Condition.	N/A		Analysis Request	ed:	TPH
	I-Cal Date	. I-Cal RE:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	0.20%	0 - 15%
· (1) (1) (1) (2) (2) (2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		Control of the contro	and the state of market and the state of the		*** ₁
`Blank`Cônc. (mg/L;-mg/Kg)		¿Concentration		Detection Lim	iť
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
The state of the s	was the same of th			and a sold of 1 of 2	5 e
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference A	· 1540 - 4/45 - 7/46 - C	l se
Gasoline Range C5 - C10	740	737	0.4%	0 - 30%	
Diesel Range C10 - C28	39.3	39.2	0.3%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accent Range
Gasoline Range C5 - C10	740	250	988	99.8%	75 - 125%
Diesel Range C10 - C28	39	250	289	100%	75 - 125%
Diesei Kange Civ - Czo	Sa	230	203	100 /0	75 - 12570

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:

QA/QC for samples 25139 - 25147, 25155.

Analyst

Priotini My Walters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	* ***			<u> </u>	
Client	N/A	F	Project #:	1	N/A
Sample ID	03-22-BTEX QA/Q	C [Date Reported:	(3-22-03
Laboratory Number.	25139	[Date Sampled:	1	N/A
Sample Matrix	Soil		Date Received.		N/A
Preservative	N/A		Date Analyzed:		03-22-03
Condition.	N/A	A	Analysis:	í	BTEX
Calibration and Detection Limits (ug/L)	ical RE	C-Cal RF: Accept: Rang	%Diff: e 0 - 15%	Blank	Detect Limit
Benzene	4 1274E-002	4.1398E-002	0.3%	ND	0.2
Toluene	4 8348E-002	4 8445E-002	0.2%	ND	0.2
Ethylbenzene	7 9848E-002	8.0088E-002	0.3%	ND	0.2
p,m-Xylene	7.6417E-002	7.6647E-002	0.3%	ND	0.2
o-Xylene	7 1539E-002	7 1683E-002	0.2%	ND	0.1
Duplicate Conc. (ug/kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	170 1,020 324 1,430 594	169 1,000 318 1,420 596	0.2% 2.0% 2.0% 0.7% 0.4%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Spike Conc. (ug/Kg)	Sample	ŢŢijŢijŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ	Spiked Sample	% Recovery &	Accept Range
Benzene	170	50.0	219	99.5%	39 - 150
Toluene	1,020	50.0	1,060	99.1%	46 - 148
Ethylbenzene	324	50.0	372	99.4%	32 - 160
p,m-Xylene	1,430	100	1,520	99.3%	46 - 148
o-Xylene	594	50.0	642	99.7%	46 - 148
o Agrerio	334	33.0	042	55.1 /6	70 - 170

ND - Parameter not detected at the stated detection limit

References

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 25139 - 25144, 25147, 25155.

Analyst

Review

	NEERING, INC. OMFIELD, NM 87413 32-1199 C.D.C. ND 13403					
FIELD REPORT: LANDFARM/COMP	OST PILE CLOSURE VERIFICATION					
QUAD/UNIT H SEC: 27 TWP: 27 RNG: 10W I	PM: NMCNTY: 57 ST: NM DATE FINISHED					
OTR/FOOTAGE: SELVE CONTRACTOR:	ENMIDONIVENTAL					
SOIL REMEDIATION: REMEDIATION SYSTEM: LANDFARM LAND USE: RANGE - BLM	APPROX. CUBIC YARDAGE LIFT DEPTH (ft): 1-2					
FIELD NOTES & REMARKS: NMOCD RANKING SCORED DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCED						
SOIL TYPE SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / DTHER SOIL COLOR:						
ADDITIONAL COMMENTS	I CALCULATIONS					
	(9) ML. FREON DILUTION READING CALC PPM					
SKETCH/SAMPLE LOCATIONS AN						
LANDEREN PERIMETER	OVM CALIB. READ. 53.3 ppm OVM CALIB. GAS = 100 ppm; RF = 052 TIME: 9: 10 (a) pm DATE: 3/31/05					
52	OVM RESULTS LAB SAMPLES					
	SAMPLE PIO (PPM) SAMPLE ANALYSIS TIME RESULTS					
29 0 3	LF-1 6.0 LF-1 (80158) 0935					
FROM WELL	P.C 2/19/03 + 3/20/03					
HEAD SAUNCE PT.	SCALE PROD. SEP. III O FT					
TRAVEL NOTES: CALLOUT: NA revised. 07/16/01	ONSITE:3/31/05					



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

Client:	Blagg / XTO Energy	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	04-04-05
Laboratory Number:	32491	Date Sampled:	03-31-05
Chain of Custody No:	13403	Date Received:	03-31-05
Sample Matrix:	Soil	Date Extracted:	04-01-05
Preservative:	Cool	Date Analyzed:	04-04-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	15.8	0.1
Total Petroleum Hydrocarbons	15.8	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:

Frost, Jack B #2E Landfarm 5 Pt. Composite Sample.

Analyst

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A		
Sample ID:	04-04-TPH QA/	QC	Date Reported:	04-04-05			
Laboratory Number:	32490		Date Sampled:	N/A			
Sample Matrix:	Methylene Chlori	de	Date Received:	N/A			
Preservative:	N/A		Date Analyzed:		04-04-05		
Condition:	N/A		Analysis Request	ed:	TPH		
	I-Cal Date	:I⊧Cal RF:	C-CallRF:	% Difference	Accept Range		
Gasoline Range C5 - C10	04-01-05	1.9097E-002	1.9078E-002	0.10%	0 - 15%		
Diesel Range C10 - C28	04-01-05	2.2011E-002	2.1989E-002	0.10%	0 - 15%		
,							
Blank Conc. (mg/L - mg/Kg)	Will view as a	Concentration		Detection Lim	it		
Gasoline Range C5 - C10	AMERICAN STATE OF THE STATE OF	ND	CTO 2008/1952, 200 1944 1944 1944 1945 2000 2000 200 2000 2000 2000 2000 200	0.2	* * * *		
Diesel Range C10 - C28		ND		0.1			
Total Petroleum Hydrocarbons		ND		0.2			
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range			
Gasoline Range C5 - C10	10.2	10.1	1.0%	0 - 30%	P15		
Diesel Range C10 - C28	3,610	3,600	0.3%	0 - 30%			
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range		
Gasoline Range C5 - C10	10.2	250	260	99.8%	75 - 125%		
Diesel Range C10 - C28	3,610	250	3,850	99.7%	75 - 125%		
_			•				

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:

QA/QC for Samples 32490 - 32493, 32495 - 32497.

Analyst

CHAIN OF CUSTODY RECORD

13403

Client / Project Name BLRSS / X7	TO ENE	 REY	Project Location FROST, JACK B # 25		ANALYSIS / PARAMETERS								
BLAGG XTO ENERLY Sampler:		Client No. 94034-010		Į.	TPH (3015 B)				Remarks				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Cont	(goisb)	3)			PRESERVED C SPT. COMPOSITE			L MPL
LF-1	3/31/05	0135	32491	5012	1	✓				LAND	シャベリ	n	
	on Vil	, , 	3/	/ /	eived by:	(Signatu	ure)	Tol.			Date		ime 34
Relinquished by: (Signat					eived by:	(Signatu	ıre)		_				
Relinquished by: (Signat	ture)			Rece	eived by:	(Signatu	ıre)						
			E	OVIROTE	CH INC.					Sample Receipt			
				5796 U.S. High Farmington, New M							Y	N	N/A
(505) 632-0										Cool - Ice/Blue Ice	-		