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

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

District IV

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

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes V No ...

(WF5 CLOSSAE) Type of action: Registration of a pit or below		✓
Operator: XTO ENERGY, INC. Telephone:	e-mail address:	
Address: 2700 FARMINGTON AVENUE FARMINGTON, NM 87401		
Facility or well name: RPHARGRAVE J#001E API #: 30-045-	24662 U/L or Qtr/Qtr <u>F</u> SEC	<u>3</u> T <u>27N</u> R <u>10W</u>
County: SAN JUAN Latitude 36.607	23 Longitude <u>-107.88689</u>	NAD: 1927 🗹 1983 🗌
Surface Owner: Federal 🗹 State 🗌 Private 🔲 Indian 🔲		
Pit	Below-grade tank	
Type: Drilling Production Disposal	Volume: bbl Type of fluid: Construction Material:	
Workover Emergency		plain why not.
Lined Unlined 🗹		
Liner Type: Synthetic Thickness mil Clay		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) <u>0</u> (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 No	(20 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 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) <u>0</u> (0 points)
	Ranking Score (TOTAL POINTS):	<u>0</u>
	ationship to other equipment and tanks. (2) Indicate disposal	location: (check the
onsite box if your are burying in place) onsite offsite If offsite, name action taken including remediation start date and end date. (4)Groundwater encour		eneral description of remedial ound surface ft.
and attach sample results. (5)Attach soil sample results and a diagram of sample lo		ound surface it.
Additional Comments:	OCT 2005 F. OIL CONS. DIV. DIST. 3	Meter: <u>39293</u>
I hereby certify that the information above is true and complete to the best of my k		1
tank has been/will be constructed or closed according to NMOCD guidelines	, a general permit , or an (attached) alternative OC	D-approved plan
Date:9/18/05	MIZING, FOR WPS	
Printed Name/Title Mark Harvey for Williams Field Services Sig	nature	
Your certification and NMOCD approval of this application/closure does not relie or otherwise endanger public health or the environment. Nor does it relieve the op regulations.	•	<u> </u>
Approval:		OCT 1 2 2005
Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. Signal	ature Denny teny	Date:

ADDENDUM TO OCD FORM C-144

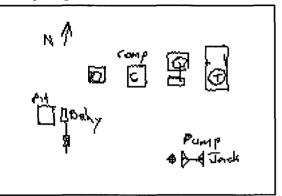
Operator: XTO ENERGY, INC.

API 30-045-24662

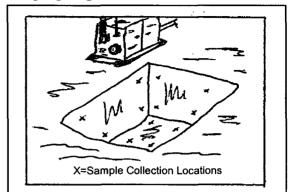
Well Name: R P HARGRAVE J #001E

Meter: 39293

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 12 Ft.

Width 12 Ft.

2 Ft. Depth

Location of Pit Center

Latitude 36.60734

Longitude -107.88734

(NAD 1927)

Pit ID

392931

Pit Type

Glycol Dehydrator

Date Closure Started: 12/20/04

Closure Method:

Excavated, Blended, Treated Soil Returned

Date Closure Completed: 12/20/04

Bedrock Encountered?

Cubic Yards Excavated: 37

Vertical Extent of Equipment Reached?

Description Of Closure Action:

Contaminated soil was removed and treated then returned to the excavation following sampling of the walls and floor.

BEDROCK limited vertical excavation and/or prevented sampling. This condition limits deleterious environmental effects.

Pit Closure Sampling:

Sample ID

Sample Date

Head Space

BTEX Total

(mg/kg)

Benzene (mg/kg)

TPH DRO (mg/kg)

Purpose

Location

Depth

102415JUL04	7/15/04	163	0	1200	ASSESS	Flr	3.5

115020DEC04 12/20/04 0 0 0 EX Confirm Walls 6

120520DEC04 12/20/04 470 205 2600 EX Confirm Flr See Risk Analysis



607318326

Lab Sample No:

Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6084968 Client Project ID: N.M. Pitts

Project Sample Number: 6084968-004

Criefic Troject Ib. With Trees

Client Sample ID: 102415JUL04 Matrix: Soil

Date Collected: 07/15/04 10:24 Date Received: 07/23/04 09:10

Citetic Sample 10: 10241530L04				Matrix: 3011	l	Date Received: 07/23/04 09:10			
Parameters	Results	Units	Report Limit	DF Ar	nalyzed	Ву	CAS No.	Qua1	RegLmt
GC Semivolatiles									
Total Extractable Hydrocarbons	Prep/Method:	0A2 / 0A2							
Mineral Spirits	ND	mg/kg	. 12.	1.2 07/27	04 21:05	RMN1			
Jet Fuel	ND	mg/kg	12.	1.2 07/27	/04 21:05	RMN1			
Kerosene	ND	mg/kg	12.	1.2 07/27	/04 21:05	RMN1			
Diesel Fuel	ND	mg/kg	12.	1.2 07/27	/04 21:05	RMN1	68334-30-5		
Fuel 011	ND	mg/kg	12.	1.2 07/27	/04 21:05	RMN1	68334-30-5		
Motor 0il	ND	mg/kg	12.	1.2 07/27	/04 21:05	RMN1			
Total Petroleum Hydrocarbons	1200	mg/kg	12.	1.2 07/27	/04 21:05	RMN1		3	
n-Tetracosane (S)	137	*		1.0 07/27	/04 21:05	RMN1	646-31-1		
p-Terphenyl (S)	142	% .		1.0 07/27	/04 21:05	RMN1	92-94-4		
Date Extracted	07/27/04			07/27	/04				
Organics Prep			·						
Percent Moisture	Method: SM 2	540G							
Percent Moisture	15.9	*	•	1.0 07/27	/04	DPB			
GC Volatiles									• •
Aromatic Volatile Organics	Prep/Method:	EPA 5030	Medium Soil / E	PA 8021					
Benzene	ND	ug/kg	1200	23.5 07/28	/04 01:10		71-43-2		
Ethylbenzene	13000	ug/kg	1200	23.5 07/28	/04 01:10		100-41-4		
Toluene	, ND	ug/kg	1200	23.5 07/28	/04 01:10		108-88-3		
Xylene (Total)	150000	ug/kg	3000	23.5 07/28	/04 01:10		1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		1.0 07/28	/04 01:10)	98-08-8		

Date: 08/02/04

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

9608 Loiret Blvd. Lenexa, KS 66219

Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6090504

Client Project ID: N. Mex. Pits Program

Lab Sample No: 607796539 Project Sample Number: 6090504-024 Date Collected: 12/20/04 12:05

Client Sample ID: 120520DEC04 Matrix: Soil

trix: Soil Date Received: 01/04/05 08:50

Citent Sample 10. 12032002004			11d6 17. 3011				240			
Parameters	Results	Units	Report Limit	_DF	Analyzed	Ву	CAS No.	Qua1	RegLmt	
GC Semivolatiles										
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2								
Mineral Spirits	ND	mg/kg	12.	1.2	01/07/05 17:41	RMN1				
Jet Fuel	ND	mg/kg	12.	1.2	01/07/05 17:41	RMN1				
Kerosene	ND	mg/kg	12.	1.2	01/07/05 17:41	RMN1				
Diesel Fuel	ND	mg/kg	12.	1.2	01/07/05 17:41	. RMN1	68334-30-5			
Fuel Oil	ND	mg/kg	12.	1.2	01/07/05 17:41	RMN1	68334-30-5			
Motor Oil	ND	mg/kg	12.	1.2	01/07/05 17:41	. RMN1				
Total Petroleum Hydrocarbons	2600	mg/kg	12.	1.2	01/07/05 17:41	RMN1		4		
n-Tetracosane (S)	165	X		1.0	01/07/05 17:41	. RMN1	646-31-1	9		
p-Terphenyl (S)	90	. %		1.0	01/07/05 17:41	RMN1	92-94-4			
Date Extracted	01/06/05				01/06/05					
Organics Prep										
Percent Moisture	Method: SM 2	540G								
Percent Moisture	15.7	* *		1.0	01/06/05	ALJ1				
GC Volatiles										
Aromatic Volatile Organics	Prep/Method:	EPA 5030 M	edium Soil / E	PA 802	1					
Benzene	ND	ug/kg	5400	109	01/07/05 17:19	SHF	71-43-2			
Ethylbenzene	12000	ug/kg	5400	109	01/07/05 17:19	SHF	100-41-4			
Toluene	13000	ug/kg	5400	109	01/07/05 17:19	SHF	108-88-3			
Xylene (Total)	180000	ug/kg	14000	109	01/07/05 17:19	SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	97	*		1.0	01/07/05 17:19	SHF	98-08-8	2,7		

Date: 01/12/05

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219

> Phone: 913.599.5665 Fax: 913.599.1759

Lab Project Number: 6090504

Client Project ID: N. Mex. Pits Program

Lab Sample No: 607796521 Project Sample Number: 6090504-023 Date Collected: 12/20/04 11:50

Client Sample ID: 115020DEC04 Matrix: Soil

Date Received: 01/04/05 08:50

- · · · - · · · · · · · · · · · · · · · · · · ·									
Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Qual	RegLmt
GC Semivolatiles								-	
Total Extractable Hydrocarbons	Prep/Method:	OA2 / OA2							
Mineral Spirits	ND	mg/kg	10.	1.0	01/11/05 12:55	RMN1			
Jet Fuel	ND	mg/kg	10.	1.0	01/11/05 12:55	RMN1			
Kerosene	ND	mg/kg	10.	1.0	01/11/05 12:55	RMN1	•		
Diesel Fuel	ND	mg/kg	10.	1.0	01/11/05 12:55	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	10.	1.0	01/11/05 12:55	RMN1	68334-30-5		•
Motor Oil	ND	mg/kg	10.	1.0	01/11/05 12:55	RMN1			
n-Tetracosane (S)	98	*		1.0	01/11/05 12:55	RMN1	646-31-1		
p-Terphenyl (S)	101	*		1.0	01/11/05 12:55	RMN1	92-94-4		
Date Extracted	01/06/05				01/06/05				
Organics Prep									
Percent Moisture	Method: SM 2	540G							
Percent Moisture	3.8	*		1.0	01/06/05	ALJ1			
GC Volatiles									
Aromatic Volatile Organics	Prep/Method:	EPA 5030 M	edium Soil / EF	PA 802:	l				
Benzene	ND	ug/kg	52.		01/07/05 16:51	SHF	71-43-2		
Ethylbenzene	ND	ug/kg	52.	1.0	01/07/05 16:51	SHF	100-41-4		
Toluene	ND	ug/kg	52.	1.0	01/07/05 16:51	SHF	108-88-3		
Xylene (Total)	ND	ug/kg	130		01/07/05 16:51		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	*		1.0	01/07/05 16:51	SHF	98-08-8	2	

Date: 01/12/05

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REPORT OF LABORATORY ANALYSIS

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Environmental Services 188 CR 4900 Bloomfield, NM 8413

Pit Closure and Retirement Addendum-Risk Assessment

This site is located in the NMOCD / USBLM defined "Non Vulnerable Area". These agencies have predetermined that historical use of unlined pits in this area have limited potential to adversely affect ground water. This is primarily due to the depth to ground water, lack of vertical migration of contaminants, and distant proximity to river drainages.

The sample analyzed for confirmation at this site exhibited elevated levels of total petroleum hydrocarbons (TPH) and / or BTEX. Toxicity information indicates that the measured levels pose little risk to human health and the environment. This conclusion is based in part on the information below:

Toxicity Information

Toxicity values for TPH have not been established due to the variability of the chemical makeup of TPH. Normally, the toxicity is based on the toxicity of particular constituents of concern that may be present and which are evaluated based on health-based standards. The most common constituents examined include benzene, ethylbenzene, toluene, and xylene.

In the absence of constituents of concern or when the concentrations of the constituents of concern are low, the acceptable level of TPH is established by considering the following:

- No liquid product should remain in the soil
- The TPH should not harm vegetation
- The TPH concentrations should not create an odor nuisance
- Hydrocarbon vapors which may emanate from the impacted soil should not generate harmful or explosive vapors
- Site monitoring should indicate that TPH levels are stable or declining

Environmental and Site Conditions

Based on an evaluation of site topography and available well data, this site is believed to have ground water greater than 100' below ground surface. The absence of continuous transport mechanisms limits continued migration of contaminants in soil. Notwithstanding, **bedrock** was discovered at the pit (i.e. excavation) bottom. This condition retards vertical migration of contaminants and serves to significantly limit potential groundwater impact.

While residual TPH and/or BTEX exists at this site, closure of this site is warranted for the following reasons:

- 1. The majority of soils that exhibited high levels of TPH and BTEX have been treated to enhance degradation in-situ
- 2. Residual TPH concentrations are below levels considered problematic based on the criteria above.
- 3. Discharge at the site has been eliminated to prevent any future impacts to soils.
- 4. Depth to groundwater is estimated at greater than 100'.
- 5. Vertical migration of contamination is limited due to bedrock.
- 6. TPH / BTEX concentrations will not increase and will degrade over time from natural and enhanced processes occurring in-situ.
- 7. Further excavation at the site is not practicable due to bedrock.

Since there are no nearby receptors or domestic water sources, this site poses little risk to human health and the environment. Closure is justified based on the relatively low total petroleum hydrocarbon (TPH) concentration and the fact that all closure criteria cannot be practically attained. Additional information may be found in the Technical Background Document titled: Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.