FRANK W. YATES



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (505) 748-1471 S.P. YATES

JOHN A. YATES CHAIRMAN OF THE BOARD

PEYTON YATES

FRANK YATES, JR. EXECUTIVE VICE PRESIDENT

JOHN A. YATES, JR. SENIOR VICE PRESIDENT

March 1, 2007

Mr. Chris Williams NMOCD District 1 1625 N French Drive Hobbs, NM 88240



Re: Lusk AHB Federal 1 Unit B, Section 35, T19S, R32E Lea County, New Mexico

Dear Mr. Williams;

Yates Petroleum Corporation would like to submit the enclosed final report for the above captioned site. All work has been completed as described in the report and in accordance with NMOCD recommended remedial action levels

Please find attached the Final Report C-141.

Should you have any questions, please don't hesitate to contact me. Thank you.

Respectfully,

Sherry Bonham Environmental Regulatory Agent

enclosures

State of New Mexico Energy Minerals and Natural Resources

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

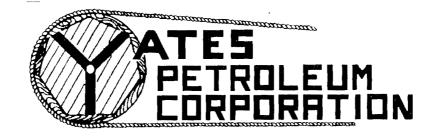
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

						OP	ERATOR			initial Report 🛛 🛛 Final Repo	
lame of Co		CONTRACT		OGRID Nu	mber	Contact			ليما		
ATES PET	ROLEUM	CORPORATI	ON	25575		SHERRY BO					
$05 \text{ S} 4^{11} \text{ S}$	FREET					505 748.147					
acility Nan	ne			PI Number		Facility Type			-	· · · · · · · · · · · · · · · · · · ·	
USK AHB	FEDERAL	1	3	0-025-30808	l	WELL					
Surface Owr FEDERAL	ner			Mineral O FEDERA					Lease N NM-59		
			-	LOC	CATIO	ON OF REI	LEASE				
Jnit Letter 3	Section 35	Township 19S	Range 32E	Feet from the 800	North NOR	n/South Line TH	Feet from the 1650	East/V EAST	Vest Line	County LEA	
	_1	I	I	Latitude_3	2.62164	Longitude	103.73322	_ł			
				NA	TUR	E OF RELI				·	
ype of Rele		MCED WAT	2B			Volume of 8 B/O ANI				Recovered ND 45 B/PW	
CRUDE OIL AND PRODUCED WATER Source of Release FLOW LINE						Date and H 2/4/07 AN	our of Occurrence	;		Hour of Discovery	
√as Immedia	ate Notice Gi		les 🗌 1	No 🗌 Not Requ	ured	If YES, To PAT CAPI	Whom <sup>9</sup> ERTON NMOCD	DISTRIC	T I VIA E	-MAIL	
By Whom <sup>9</sup>						Date and Hour					
SHERRY BC Was a Water	Course Reach	ied?				2/5/07 9.21	Iume Impacting th	ne Watero	ourse		
			Yes 🖾 1	No		N/A	1 0		- 30	31-123	
Describe Cau FLOWLINE	ise of Probler DEVELOPE	n and Remedia D LEAK PU	il Action 1 MPING U	aken * NIT SHUT DOW	N. CLO	DSED VALVE	S FLOWLINE R	EPAIRE	Course 22 22 27 47 57 11 12 20 20 20 20 20 20 20 20 20 20 20 20 20	31-123456189101 <b>9000000000000000000000000000000000000</b>	
escribe Are	a Affected ar	nd Cleanup Ac	tion Taker	*					<u> </u>	26181119191	
APPROXIM.	ATELY 20' 1	X 50° ARÈA I	MPACTE	D VACUUM TR						AFFECTED MATERIALS WERE	
XCAVATE	D AND HAU	ULED TO DIS	POSAL F	ACILITY							
epth to gro	und water:	>100'; Wellh	ead prote	ction area: NO;	Distanc	e to surface w	ater body: >1000	r. site	RANKIN	G: <u>0</u> .	
inal Report	. Requestin	g closure to in	cident.								
II operators a nvironment ailed to adeq	are required t The accepta juately invest	to report and/o ince of a C-14 ligate and remo	file certa report by diate cont	in release notificat the NMOCD mar amination that pos	tions and 'ked as " se a threa	l perform corre 'Final Report'' o at to ground wa	ctive actions for re loes not relieve the ter, surface water.	eleases w e operato , human ł	hich may e r of liabilit icalth or th	• NMOCD rules and regulations ndanger public health or the y should their operations have e environment In addition, or local laws and/or regulations	
	epitalee of a			tere the operator (		asionity for col				DIVISION	
Ignative	5		1							· ·	
<b>`</b>	yen	1-2				Approved by	District Superviso	r. /	1	1. l u	
rinted Name	e Sherry Bo	nham							us l	Alleam	
tle Enviro	nmental Reg	ulatory Agent				Approval Dat	· 6/27/0	2	Expiration	Date: 6/27/07	
-mail Addre	ss sherryb@	<i>i</i> ypcnm com				Conditions of	Approval			Attached	
Date. March	n 1, 2007		Phon	e 505 748.1471							

\* Attach Additional Sheets If Necessary

WTR 200'

RP #1207



## **CLOSURE COMPLIANCE REPORT**

## **LUSK AHB FEDERAL 1**

35 T19S R32E LEA COUNTY, NEW MEXICO

March 1, 2007



### Lusk AHB Federal 1 Yates Petroleum Corporation March 1, 2007

#### INTRODUCTION

This closure report for the Lusk AHB Federal 1 has been developed to comply with Section VII Termination of Remedial Action of the New Mexico Oil and Gas Conservation Division (OCD).

#### BACKGROUND

Yates Petroleum Corporation (Yates) is the operator of the Lusk AHB Federal 1 (API 30-025-30808) site. The initial release was the result of a flow line leak. Yates submitted Initial Report Form C-141 on February 15, 2007. A copy of the Initial Report C-141 is included as Attachment A.

#### **RECOMMENDED REMEDIAL ACTION LEVELS**

Based on Section IV of the Guidelines, the Ranking Criteria for this site is as follows:

٠	Depth to ground water >100'	0
٠	Not in well head protection area	0
•	Distance to surface water body >1000'	<u>0</u>
	TOTAL RANKING SCORE	0

For sites with a Total Ranking Score of 0, the Recommended Remedial Action Levels (RRALs) are:

- Benzene (ppm) 10
- BTEX (ppm) 50
- TPH (ppm) 5000

#### HISTORY

Upon discovery of the leak, a vacuum truck and crew were called in to recover fluids. Approximately 5 barrels of crude oil and 45 barrels of produced water were recovered. The affected soils were excavated and hauled to a NMOCD approved disposal facility. On February 20, 2007, Sherry Bonham of Yates Petroleum Corporation went to the Lusk AHB Federal 1 for the purpose of obtaining confirmation samples. NMOCD – District 1 was given the requested 48 hour notification and the opportunity to witness sampling event. Samples were obtained using a hand auger. The hand auger was cleaned with Alconox® using a hand scrub brush, rinsed with de-ionized water, and allowed to air dry

before beginning each boring. The soil samples were collected directly from the hand auger bucket, placed into clean, sample jars provided by the analytical laboratory, and placed on ice. Samples were delivered to Environmental Lab of Texas who performed the chemical analyses. The samples were analyzed for Chlorides, TPH by EPA Method 8015B and BTEX by EPA Method 8021B. A copy of the laboratory report as well as the sample point diagram is included as Attachment B.

#### **CLOSURE REQUEST**

The soil analyses information for TPH and BTEX do not exceed the RRALs and chloride results are submitted for information purposes. Given the analyses information, there appears to be no risk to human health or the environment. In light of this evaluation, Yates Petroleum Corporation is submitting a Final Closure C-141 and requests NMOCD grant closure to the incident.

Respectfully,

Shang

Sherry Bonham Environmental Regulatory Agent

## **Attachment A**

.

301 W Grand Avenue, Artesia, NM 88210						f New Mexi s and Natural		4		Form C-1 Revised October 10, 20	
District III 000 Rio Brazos District IV				122	0 Sou	ervation Div th St. Franci	is Dr.			Submit 2 Copies to appropri District Office in accordar with Rule 116 on ba	
220 S St Franc	as Dr , Santa F	Fe, NM 87505				Fe, NM 875				side of fo	
			Re	lease Notifi	catio			ction	_		
Name of Con				OGRID Nu	mher	OP Contact	ERATOR			nitial Report 🔄 Final Re	
YATES PET		CORPORATI	ON	25575		SHERRY BO			·		
Address 105 S 4 <sup>TH</sup> ST	REET					Telephone N 505.748.147					
Facility Nam	e			PI Number	<u> </u>	Facility Type					
LUSK AHB		<u> </u>	3	0-025-30808		WELL					
Surface OwnerMineral OwnFEDERALFEDERAL									Lease N NM-59		
						ON OF REI	FASE				
Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the		Vest Line	County	
В	35	195	32E	800	NOR	TH	1650	EAST		LEA	
	L	I	L	Latituda 2'	0 6216	4 Longitude	103 73322	<b>.</b>			
						E OF RELI			WIR	+2005	
Type of Relea	ise				IUK	Volume of				Recovered	
CRUDE OIL Source of Rel		DUCED WATE	ER			8 B/O ANI	D 50 B/PW lour of Occurrence			VD 45 B/PW Hour of Discovery	
FLOW LINE						2/4/07 AM	1		2/4/07 A		
Was Immedia	te Notice Gi		Yes 🗍 N	No 🗌 Not Requ	ired	IFYES, TO Whom? PAT CAPERTON NMOCD DISTRICT I VIA E-MAIL					
Yes No Not Required									······		
By Whom?	By Whom? SHERRY BONHAM					Date and H	lour				
SHERRY BO		hed?				2/5/07 9:21	AM	he Water	2011/50		
SHERRY BO Was a Watero	course Reach		Yes 🛛 1 e Fully.*	No		2/5/07 9:21		he Water	course.		
SHERRY BO Was a Watero If a Watercou N/A	course Reach Irse was Imp	acted, Describ	e Fully.*			2/5/07 9:21 If YES, Vo	AM	be Water	course.		
SHERRY BO Was a Watercou N/A Describe Cau FLOWLINE Describe Are	course Reach irse was Imp ise of Proble DEVELOPF	acted, Describ m and Remedi ED LEAK. PL	e Fully.* al Action 7 JMPING U	<sup>°</sup> aken.* NIT SHUT DOW		2/5/07 9:21 If YES, Vo N/A	I AM Jume Impacting t S. FLOWLINE R	EPAIRE	D.		
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# **Attachment B**



A Xenco Laboratories Company

# Analytical Report

### Prepared for:

Sherry Bonham Yates Petroleum Corp. 105 S. Fourth St. Artesia, NM 88210

Project: Lusk AHB Federal 1 Project Number: None Given Location: B-35-19S-32E

Lab Order Number: 7B21003

(

Report Date: 02/28/07

Yates Petroleum Corp	Project Lusk AHB Federal 1	Fax (505) 748-4662
105 S Fourth St	Project Number None Given	
Artesia NM, 88210	Project Manager Sherry Bonham	

#### ANALYTICAL REPORT FOR SAMPLES

.

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1-6	7B21003-01	Soil	02/20/07 10 45	02-21-2007 09 00
SP 1-12	7B21003-02	Soil	02/20/07 10 49	02-21-2007 09 00
SP 2-6	7B21003-03	Soil	02/20/07 11 00	02-21-2007 09 00
SP 2-12	7B21003-04	Soil	02/20/07 11 07	02-21-2007 09 00
SP 3-6	7B21003-05	Soil	02/20/07 11 17	02-21-2007 09 00
SP 3-12	7B21003-06	Soil	02/20/07 11 23	02-21-2007 09 00
SP 4-6	7B21003-07	Soil	02/20/07 11 31	02-21-2007 09 00
SP 4-12	7B21003-08	Soil	02/20/07 11 45	02-21-2007 09 00

Yates Petroleum Corp	Project	Lusk AHB Federal 1	Fax (505) 748-4662
105 S Fourth St	Project Number	None Given	
Artesia NM, 88210	Project Manager	Sherry Bonham	

### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SP 1-6 (7B21003-01) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EB72303	02/23/07	02/23/07	EPA 8021B	
Toluene	ND	0 00200				"	"		
Ethylbenzene	ND	0 00200		п		и	н	"	
Xylene (p/m)	ND	0 00200	••	н		н	"	11	
Xylene (0)	ND	0 00200	"	u		11	"	u	
Surrogate a.a.a-Trifluorotoluene		838%	75-1	25	"	"	"	"	
Surrogate 4-Bromofluorobenzene		886%	75-1	25	"	п	n	"	
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	1	EB72013	02/20/07	02/22/07	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	μ	"	"	н			
Total Carbon Range C6-C28	ND	10 0	U	"	n	41	"	u	
Surrogate I-Chlorooctane		994%	70-1	30	"	"\	۳.	н	
Surrogate 1-Chlorooctadecane		85 8 %	70-1	30	"	"	"	"	
SP 1-12 (7B21003-02) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EB72110	02/21/07	02/22/07	EPA 8021B	
Foluene	ND	0 00200	**	и	ч	"		u	
Ethylbenzene	ND	0 00200					"		
Xylene (p/m)	ND	0 00200	"		н	н	"		
Xylene (o)	ND	0 00200	"	"	u	п	п	4	
Surrogate a.a.a-Trifluorotoluene		101 %	75-1	125	"	н	"	n	
Surrogate 4-Bromofluorobenzene		111%	75-1	25	"	"	"	n	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EB72013	02/20/07	02/22/07	EPA 8015B	
Carbon Ranges >C10-C28	ND	10 0	"		u	н	и	н	
Total Carbon Range C6-C28	ND	10 0	"		**	н	0		
Surrogate 1-Chlorooctane		954%	70-1	130	"	"	"	"	
Surrogate 1-Chlorooctadecane		796%	70-1	30	"	"	"	"	
SP 2-6 (7B21003-03) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EB72303	02/23/07	02/23/07	EPA 8021B	
ſoluene	ND	0 00200			п	"	u	н	
Ethylbenzene	ND	0 00200	u		н	"	п	н	
Xylene (p/m)	ND	0 00200	"		п	"	п	11	
Xylene (o)	ND	0 00200	u	0		**	п	D	
Surrogate a,a.a-Trifluorotoluene		84 4 %	75-1	25	"	"	"	"	
Surrogate 4-Bromofluorobenzene		896%	75-1	25	"	"	"	"	
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	1	EB72013	02/20/07	02/22/07	EPA 8015B	
Carbon Ranges >C10-C28	ND	10 0	п		u .	"	н	**	
Total Carbon Range C6-C28	ND	10 0	н		н	ч		**	

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the sample received in the laboratory. This analytical report must be reproduced in its entirely.

with written approval of Environmental Lab of Texas

Page 2 of 13

Yates Petroleum Corp		Project Lusk AHB Federal I Project Number None Given										
105 S Fourth St Artesia NM, 88210	Project Manager Sherry Bonham											
Organics by GC Environmental Lab of Texas												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note			
SP 2-6 (7B21003-03) Soil				<i>D</i>								
· · · · · · · · · · · · · · · · · · ·		00 7 0/	70	120	1.072012	02/20/07	02/22/07	1.0.4.00150				
Surrogate 1-Chlorooctane		99 2 %	70-1 70-1		LB72013 "	02/20/07	02/22/07	EPA 8015B "				
Surrogate 1-Chlorooctadecane		894%	70-1	150								
SP 2-12 (7B21003-04) Soil												
Benzene	ND	0 00200	mg/kg dry	2	EB72303	02/23/07	02/23/07	EPA 8021B				
Toluene	ND	0 00200	н	"	55	u		н				
Ethylbenzene	ND	0 00200		"		14		н				
Xylene (p/m)	ND	0 00200	п	"		"	п	н				
Xylene (0)	ND	0 00200	п	"		"	" ,	н				
Surrogate a.a.a-Trifluorotoluene		856%	75-1	125	"	"	"	'n	-			
Surrogate 4-Bromofluorobenzene		986%	75-1	125	"	"	"	"				
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	I.	EB72013	02/20/07	02/22/07	EPA 8015B				
Carbon Ranges >C10-C28	ND	10 0	н			"						
Total Carbon Range C6-C28	ND	10 0	п	н	"	"	н	в				
Surrogate 1-Chlorooctane		960%	70-1	130	"	"	"	υ				
Surrogate 1-Chlorooctadecane		856%	70-	130	"	"	"	"				
SP 3-6 (7B21003-05) Soil												
Benzene	ND	0 00200	mg/kg dry	2	EB72303	02/23/07	02/23/07	EPA 8021B				
Toluene	ND	0 00200	"	**	"		n	и				
Ethylbenzene	ND	0 00200				"	u	u				
Xylene (p/m)	ND	0 00200				"		"				
Xylene (o)	ND	0 00200				"	**	п				
Surrogate a.a.a-Trifluorotoluene		826%	75-,	125	"	"	"	"				
Surrogate 4-Bromofluorobenzene		866%	75-1	125	"	"	"	"				
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	1	EB72013	02/20/07	02/22/07	EPA 8015B				
Carbon Ranges >C10-C28	ND	10 0			"	"	u	u				
Total Carbon Range C6-C28	ND	10 0	U .	н	п	н	ц	u				
Surrogate 1-Chlorooctane		876%	70	130	"	"	"	"				
Surrogate 1-Chlorooctadecane		788%	70-1	130	"	"	"	"				

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Yates Petroleum Corp	Project	Lusk AHB Federal 1	Fax (505) 748-4662
105 S Fourth St	Project Number	None Given	
Artesia NM, 88210	Project Manager	Sherry Bonham	

#### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SP 3-12 (7B21003-06) Soil									
Benzene	ND	0 00200	mg/kg dry	ź	EB72303	02/23/07	02/23/07	EPA 8021B	
Toluene	ND	0 00200	н	11		"	μ.		
Ethylbenzene	ND	0 00200	н	н	u	n		**	
Xylene (p/m)	ND	0 00200	"	н	"	н		**	
Xylene (o)	ND	0 00200	"	u	"	н	п		
Surrogate. a.a.a-Trifluorotoluene		826%	75-12	25	"	"	"	"	
Surrogate 4-Bromofluorobenzene		844%	75-12	25	"	"	"	"	
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	1	EB72013	02/20/07	02/22/07	EPA 8015B	
Carbon Ranges >C10-C28	ND	10 0			*	u	п		
Total Carbon Range C6-C28	ND	10 0			11	н	**	U	
Surrogate 1-Chlorooctane		113 %	70-1	30	"	<sup>1</sup> "	"	n	
Surrogate 1-Chlorooctadecane		984%	70-1	30	"	"	"	"	
SP 4-6 (7B21003-07) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EB72303	02/23/07	02/26/07	EPA 8021B	
Toluene	ND	0 00200	U U		"	"			
Ethylbenzene	ND	0 00200	u –		**		"		
Xylene (p/m)	ND	0 00200	н	"	"		"		
Xylene (o)	·ND	0 00200	0	н	*	"	"	п	
Surrogate a,a,a-Trifluorotoluene		76 2 %	75-12	25	"	"	n	"	
Surrogate 4-Bromofluorobenzene	*	908%	75-12	25	"	"	"	"	
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	l	EB72013	02/20/07	02/22/07	EPA 8015B	
Carbon Ranges >C10-C28	319	10 0	9	0	0	и	"	υ	
Total Carbon Range C6-C28	319	10 0	0	п	н	u	"		
Surrogate 1-Chlorooctane		996%	70-1	30	"	"	"	"	
Surrogate 1-Chlorooctadecane		93 2 %	70-1.	30	"	"	"	"	
SP 4-12 (7B21003-08) Soil									
Benzene	ND	0 00200	mg/kg dry	2	EB72303	02/23/07	02/23/07	EPA 8021B	
Toluene	ND	0 00200	"	"		п	"	"	
Ethylbenzene	ND	0 00200	"	"		н	"	"	
Xylene (p/m)	ND	0 00200	"	**		0	"		
Xylene (0)	ND	0 00200		"	u		*1	u	
Surrogate a,a,a-Trifluorotoluene		810%	75-12	25	"	"	"	n	
Surrogate 4-Bromofluorobenzene		870%	75-12	25	"	"	"	"	
Carbon Ranges C6-C10	ND	10 0	mg/kg dry	1	EB72109	02/21/07	02/22/07	EPA 8015B	
Carbon Ranges >C10-C28	82.3	10 0		"	а		**	U	
Total Carbon Range C6-C28	82.3	10 0	"		п	ц	"	"	

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105 S Fourth St	Project Number	None Given	
Artesia NM, 88210	Project Manager	Sherry Bonham	

#### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP 4-12 (7B21003-08) Soil Surrogate 1-Chlorooctane		106 %	70-1	30	EB72109	02/21/07	02/22/07	EPA 8015B	
Surrogate 1-Chlorooctadecane		886%	70-1	30	"	"	"	"	

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#### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Piepaied	Analyzed	Method	Notes
SP 1-6 (7B21003-01) Soil									
Chloride	J [2.98]	5 00	mg/kg	10	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	2.7	0 1	%	1	EB72201	02/21/07	02/22/07	% calculation	
SP 1-12 (7B21003-02) Soil									
Chloride .	J [2.21]	5 00	mg/kg	10	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	3.3	01	%	1	EB72201	02/21/07	02/22/07	% calculation	
SP 2-6 (7B21003-03) Soil									
Chloride	J [3.44]	5 00	mg/kg	10	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	3.4	01	%	1	EB72201	02/21/07	02/22/07	% calculation	
SP 2-12 (7B21003-04) Soil									
Chloride	J [1.85]	5 00	mg/kg	10	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	3.2	01	%	1	EB72201	02/21/07	02/22/07	% calculation	
SP 3-6 (7B21003-05) Soil									
Chloride	390	10 0	mg/kg	20	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	2.8	01	%	1	EB72201	02/21/07	02/22/07	% calculation	
SP 3-12 (7B21003-06) Soil									
Chloride	456	10 0	mg/kg	20	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	3.4	01	%	1	EB72201	02/21/07	02/22/07	% calculation	
SP 4-6 (7B21003-07) Soil									
Chloride	533	10 0	mg/kg	20	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	12.2	01	%	I	EB72201	02/21/07	02/22/07	% calculation	
SP 4-12 (7B21003-08) Soil									
Chloride	91.2	5 00	mg/kg	10	EB72712	02/27/07	02/27/07	EPA 300 0	
% Moisture	1.5	01	%	1	EB72201	02/21/07	02/22/07	% calculation	

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Yates Petroleum Corp				sk AHB Fede	eral 1				Fax (505)	748-4662
105 S Fourth St		Project Ni	umber Noi	ne Given						
Artesia NM, 88210		Project Ma	mager She	erry Bonham						
	О	rganics by	- GC - Q	uality Co	ontrol					
		Environn	nental L	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB72013 - Solvent Extraction (GC)										
Blank (EB72013-BLK1)				Prepared (	02/20/07 A	nalyzed 02	2/22/07			
Carbon Ranges C6-C10	ND	10 0	mg/kg wet		100041 3 10 000 4 10 100 801 - 1					
Carbon Ranges >C10-C28	ND	10 0								
Total Carbon Range C6-C28	ND	10.0	в							
Surrogate 1-Chlorooctane	64 2		mg/kg	50.0		128	70-130			
Surrogate 1-Chlorooctadecane	52 8		"	50 0		106	70-130			
LCS (EB72013-BS1)				Prepared (	02/20/07 A	nalyzed 02	2/21/07			
Carbon Ranges C6-C10	524	10 0	mg/kg wet	500		105	75-125			
Carbon Ranges >C10-C28	480	10 0	**	500		96 0	75-125			
Fotal Carbon Range C6-C28	1000	10 0	**	1000		100	75-125			
Surrogate 1-Chlorooctane	61.4		mg/kg	50 0		123	70-130			
Surrogate 1-Chlorooctadecane '	411		"	50.0		82.2	70-130			
Calibration Check (EB72013-CCV1)				Prepared (	02/20/07 A	nalyzed 02	2/22/07			
Carbon Ranges C6-C10	256		mg/kg	250		102	80-120			
Catbon Ranges >C10-C28	300		ų	250		120	80-120			
Total Carbon Range C6-C28	556			500		111	80-120			
Surrogate 1-Chlorooctane	63 3		"	50.0		127	70-130		•	
Surrogate 1-Chlorooctadecane	47.6		"	50 0		952	70-130			
Matrix Spike (EB72013-MS1)	Sou	arce: 7B20011	-05	Prepared (	02/20/07 A	nalyzed 02	2/22/07			
Carbon Ranges C6-C10	562	10 0	mg/kg dry	531	ND	106	75-125			
Carbon Ranges >C10-C28	514	10 0		531	ND	96 8	75-125			
Fotal Carbon Range C6-C28	1090	10 0	**	1060	ND	103	75-125			
Surrogate 1-Chlorooctane	595		mg/kg	50.0		119	70-130		0	
Surrogate 1-Chlorooctadecane	419		"	50 0		83 8	70-130			
Matrix Spike Dup (EB72013-MSD1)	Sou									
Carbon Ranges C6-C10	562	10 0	mg/kg dry	531	ND	106	75-125	0 00	20	
Carbon Ranges >C10-C28	517	10 0		531	ND	97 4	75-125	0 582	20	
Fotal Carbon Range C6-C28	1080	10 0		1060	ND	102	75-125	0 922	20	
Surrogate 1-Chloroostane	62.6		mg/kg	50.0		125	70-130			
urrogate 1-Chlorooctadecane	44 2		"	500		884	70-130			

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Yates Petroleum Corp 105 S Fourth St Artesta NM, 88210		Project N	Project Lus umber Nor anager She	ne Given					Fax (505)	748-4662
- <u></u>	0	rganics by								
		Environr	nental L	ab of Te	exas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Lunits	RPD	RPD Limit	Notes
Batch EB72109 - Solvent Extraction (GC)										
Blank (EB72109-BLK1)				Prepared	02/21/07 A	nalyzed (	)2/22/07			
Carbon Ranges C6-C10	ND	10 0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10 0	79							
Total Carbon Range C6-C28	ND	10 0	"							
Surrogate 1-Chlorooctane	59.4		mg/kg	50.0		119	70-130			
Surrogate 1-Chlorooctadecane	527		"	50.0		105	70-130			
LCS (EB72109-BS1)				Prepared	02/21/07 A	nalyzed (	)2/22/07			
Carbon Ranges C6-C10	575	10 0	mg/kg wet	500		115	75-125			
Carbon Ranges >C10-C28	478	10 0	"	500		95 6	75-125			
Total Carbon Range C6-C28	1050	10 0	**	1000		105	75-125			
Surrogate 1-Chlorooctane	573		mg/kg	50.0		115	70-130			
Surrogate 1-Chlorooctadecane	49 O		"	50.0		98 O	70-130			
Calibration Check (EB72109-CCV1)				Prepared	02/21/07 A	nalyzed (	)2/23/07			
Carbon Ranges C6-C10	236		mg/kg	250		94 4	80-120			
Carbon Ranges >C10-C28	241		"	250		96 4	80-120			
Total Carbon Range C6-C28	477		"	500		95 4	80-120			
Surrogate 1-Chlorooctane	543		"	50.0		109	70-130			
Surrogate 1-Chlorooctadecane	45 2		n	50.0		904	70-130			
Matrix Spike (EB72109-MS1)	Sou	irce: 7B21012	2-01	Prepared	02/21/07 A	nalyzed (	)2/23/07			
Carbon Ranges C6-C10	557	10 0	mg/kg dry	543	ND	103	75-125			r
Carbon Ranges >C10-C28	519	10 0	н	543	47 1	86 9	75-125			
Total Carbon Range C6-C28	1080	10 0	u	1090	47 l	94 8	75-125			
Surrogate 1-Chlorooctane	564		mg/kg	50.0		113	70-130			
Surrogate 1-Chlorooctadecane	45 2		"	50.0		904	70-130			
Matrix Spike Dup (EB72109-MSD1)	Sou	ırce: 7 <b>B2</b> 1012	2-01	Prepared	02/21/07 A	nalyzed (	02/23/07			
Carbon Ranges C6-C10	557	10 0	mg/kg dry	543	ND	103	75-125	0 00	20	
Carbon Ranges >C10-C28	506	10 0		543	47 I	84 5	75-125	2 54	20	
Total Carbon Range C6-C28	1060	10.0		1090	47 1	92 9	75-125	1 87	20	
Surrogate 1-Chlorooctane	511		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	40.1		"	50.0		80.2	70-130			

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Yates Petroleum Corp 105 S Fourth St		P Project Nu	umber Nor	k AHB Fede ne Given					Fax (505)	748-4662
Artesia NM, 88210		Project Ma	mager She	rry Bonham						
	0	rganics by	- GC - Q	uality Co	ontrol					
		Environn	nental L	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB72110 - EPA 5030C (GC)										
Blank (EB72110-BLK1)				Prepared &	Analyzed	02/21/07				
Benzene	ND	0 00100	mg/kg wet				· · · ·			
Toluene	ND	0 00100								
Ethylbenzene	ND	0 00100								
Xylene (p/m)	ND	0 00100	u							
Xylene (o)	ND	0 00100								
Surrogate a,a,a-Trifluorotoluene	567		ug/kg	50.0		113	75-125		· · ·	
Sur rogate 4-Bromofluorobenzene	58.0		"	50.0		116	75-125			
LCS (EB72110-BS1)				Prepared &	z Analyzed	02/21/07				
Benzene	0 0590	0 00100	mg/kg wet	0 0500		118	80-120			
Toluene	0 0542	0 00100	"	0 0500		108	80-120			
Ethylbenzenc	0 0535	0 00100		0 0500		107	80-120			
Xylenc (p/m)	0 108	0 00100		0 100		108	80-120			
Xylene (0)	0 0475	0 00100	U	0 0500		95 0	80-120			
Surrogate_a,a,a-Trifluorotoluene	58 2		ug/kg	50 0		116	75-125			
Surrogate 4-Bromofluorobenzene	61.4		"	50 0		123	75-125			
Calibration Check (EB72110-CCV1)			X	Prepared (	)2/21/07 A	nalyzed 02	2/22/07			
Benzenc	57 9		ug/kg	50 0		116	80-120			
Foluene	54 4		u	50 0		109	80-120			
Ethylbenzene	54 0			50 0		108	80-120			
Xylene (p/m)	106			100		106	80-120			
Xylene (0)	48 0			50 0		96 0	80-120			
Surrogate a,a,a-Trifluorotoluene	55 9		"	50 0		112	75-125			
Surrogate 4-Bromofluorobenzene	61 2		"	50.0		122	75-125			
Matrix Spike (EB72110-MS1)	Sou	irce: 7B20009	-02	Prepared (	)2/21/07 A	nalyzed 02	2/22/07			
Benzene	0 106	0 00200	mg/kg dry	0 104	ND	102	80-120			
Foluene	0 0981	0 00200	н	0 104	ND	94 3	80-120			
Ethylbenzene	0 102	0 00200	н	0 104	ND	98-1	80-120			
Xylene (p/m)	0 196	0 00200	u	0 207	ND	94 7	80-120			
Xylene (0)	0 0865	0 00200		0 104	ND	83 2	80-120			
Surrogate a,a,a-Trifluorotoluene	44 4		ug/kg	50 O		88.8	75-125			
Surrogate 4-Bromofluorobenzene	55 0		"	50.0		110	75-125			

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#### **Organics by GC - Quality Control**

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Lunits	RPD	Limit	Notes

#### Batch EB72110 - EPA 5030C (GC)

Matrix Spike Dup (EB72110-MSD1)	Sou	rce: 7B20009	-02	Prepared 0	2/21/07 A	nalyzed 02/	22/07			
Benzene	0 104	0 00200	mg/kg dry	0 104	ND	100	80-120	1 98	20	
Toluene	0 0964	0 00200	••	0 104	ND	92 7	80-120	171	20	
Ethylbenzene	0 100	0 00200		0 104	ND	96 2	80-120	1 96	20	
Xylene (p/m)	0 193	0 00200		0 207	ND	93 2	80-120	1 60	20	
Xylene (0)	0 0858	0 00200	**	0 104	ND	82 5	80-120	0 845	20	
Surrogate a,a,a-Trifluorotoluene	43 2		ug/kg	50.0		864	75-125			
Surrogate 4-Bromofluorobenzene	543		"	50.0		109	75-125			

#### Batch EB72303 - EPA 5030C (GC)

Blank (EB72303-BLK1)				Prepared & Ana	lyzed 02/23/07		
Benzene	ND	0 00100	mg/kg wet				
Toluene	ND	0 00100					
Ethylbenzene	ND	0 00100	"				
Xylene (p/m)	ND	0 00100	n				
Xylene (0)	ND	0 00100					
Surrogate a,a,a-Trifluorotoluene	40.8		ug/kg	50.0	81.6	75-125	
Surrogate 4-Bromofluorobenzene	46 5		"	50.0	93 0	75-125	

LCS (EB72303-BS1)				Prepared & Anal	yzed 02/23/07	
Benzenc	0 0519	0 00100	mg/kg wet	0 0500	104	80-120
Toluene	0 0468	0 00100	"	0 0500	93.6	80-120
Ethylbenzene	0 0456	0 00100		0 0500	91.2	80-120
Xylene (p/m)	0 0938	0 00100	"	0 100	93 8	80-120
Xylene (o)	0 0420	0 00100	"	0 0500	84 0	80-120
Surrogate a,a,a-Trifluorotoluene	45 7		ug/kg	50.0	91.4	75-125
Surrogate 4-Bromofluorobenzene	52 4		"	50 0	105	75-125

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#### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

		Donosterra		Smiles	Samar		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Batch EB72303 - EPA 5030C (GC)										
Calibration Check (EB72303-CCV1)				Prepared (	)2/23/07 A	nalyzed 02	2/24/07			
Benzene	44 2		ug/kg	50 0		88 4	80-120			
Toluene	40 8			50 0		816	80-120			
Ethylbenzene	40.6		"	50 0		812	80-120			
Xylene (p/m)	82 0		*	100		82 0	,80-120			
Xylene (o)	40 0		"	50 0		80 0	80-120			
Surrogate a,a,a-Trifluorotoluene	413		"	50 0		82.6	75-125			
Surrogate 4-Bromofluorobenzene	43 0		"	50 0		86 0	75-125			
Matrix Spike (EB72303-MS1)	Sou	irce: 7B21003	-01	Prepared (	)2/23/07 A	nalyzed 02	2/26/07			
Benzene	0 0949	0 00200	mg/kg dry	0 103	ND	92 1	80-120			
Toluene	0 0854	0 00200		0 103	ND	82 9	80-120			
Ethylbenzene	0 0836	0 00200	"	0 103	ND	812	80-120			
Xylene (p/m)	0 171	0 00200	**	0 206	ND	83 0	80-120			
Xylene (0)	0 0837	0 00200	н	0 103	ND	813	80-120			
Surrogate a,a,a-Trifluorotoluene	40.2		ug/kg	50 0		80.4	75-125			1 421
Surrogate 4-Bromofluorobenzene	46 0		"	50 0		920	75-125			
Matrix Spike Dup (EB72303-MSD1)	Sou	arce: 7B21003	-01	Prepared (	)2/23/07 A	nalyzed 02	2/26/07			
Benzene	0 0911	0 00200	mg/kg dry	0 103	ND	88 4	80-120	4 10	20	
Toluene	0 0844	0 00200	**	0 103	ND	819	80-120	121	20	
Ethylbenzene	0 0825	0 00200		0 103	ND	80-1	80-120	1 36	20	
Xylene (p/m)	0 170	0 00200	"	0 206	ND	82 5	80-120	0 604	20	
Xylene (o)	0 0824	0 00200		0 103	ND	80 0	80-120	161	20	
Surrogate a,a,a-Trifluorotoluene	42 1		ug/kg	50.0		84.2	75-125			
Surrogate 4-Bromofluorobenzene	45 1		n	50.0		90-2	75-125			

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105 S Fourth St		Project Nu	-	ne Given						
Artesia NM, 88210				erry Bonham						
General C	hemistry Para	meters by	EPA /	Standard	Method	s - Qua	lity Con	trol		
		Environm	iental L	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB72201 - General Preparation (	Prep)					_				
Blank (EB72201-BLK1)				Prepared (	)2/21/07 Ar	alyzed 02	/22/07			
% Solids	100		%							
Duplicate (EB72201-DUP1)	Sou	rce: 7B20004-	01	Prepared (	)2/21/07 Ar	alyzed 02	/22/07			
% Solids	93 7		%		93 4			0 321	20	
Batch EB72712 - General Preparation (	WetChem)								,	
Blank (EB72712-BLK1)				Prepared &	z Analyzed	02/27/07				
Chlonde	ND	0 500	mg∕kg							
LCS (EB72712-BS1)				Prepared &	k Analyzed	02/27/07				
Chlonde	10 7	0 500	mg/kg	10.0		107	80-120			
Calibration Check (EB72712-CCV1)				Prepared &	z Analyzed	02/27/07				
Chlonde	10 3		mg/kg	10 0		103	80-120			
Duplicate (EB72712-DUP1)	Sou	rce: 7B21003-	01	Prepared &	2 Analyzed	02/27/07	-			
				· · ·				55 2	20	
Chlonde	1 69	5 00	mg/kg		2 98			552	20	R2.
Chloride Duplicate (EB72712-DUP2)		5 00 rce: 7B21015-		Prepared &	2 98 2 Analyzed	02/27/07		22	20	R2,
				Prepared &		02/27/07		0 383	20	R2.
Duplicate (EB72712-DUP2)	<b>Sou</b> 78 1	rce: 7B21015-	06 mg/kg		Analyzed					R2.
Duplicate (EB72712-DUP2) Chlonde	<b>Sou</b> 78 1	rce: 7B21015- 5 00	06 mg/kg		2 Analyzed 78 4		80-120	0 383		R2
Duplicate (EB72712-DUP2) Chloride Matrix Spike (EB72712-MS1)	Sou 78 1 Sou 109	rce: 7B21015- 5 00 rce: 7B21003-	06 mg/kg 01 mg/kg	Prepared &	2 Analyzed 78 4 2 Analyzed	02/27/07	80-120	0 383		R2

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2

105 S F	etroleum Corp ourth St NM, 88210	Project Project Number Project Manager	None Given	Fax (505) 748-4662
		Notes and De	finitions	
R2	The RPD exceeded the acceptance limit			
J	Detected but below the Reporting Limit,	, therefore, result is an estimate	d concentration (CLP J-Flag)	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the re	porting limit		
NR	Not Reported			
dry	Sample results reported on a dry weight basis	3		
RPD	Relative Percent Difference			
LCS	Laboratory Control Spike			
MS	Matux Spike			
Dup	Duplicate			

Brent Barron, Laboratory Director/Corp. Technical Director

Report Approved By-

Celey D. Keene, Org Tech Director

Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg Tech Director

2/28/2007

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If you have received this material in error, please notify us immediately at 432-563-1800

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Date:

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Project Manager:	Sherry Bonham				·							_	Pr	oject	Nam	»е: <u>L</u>	<u>.us</u>	sy.	AI	HB	FE	DERI	<u>91-</u>	L
Company Name	Yates Petroleum Corpo	ration												Pr	oject	#:								
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City/State/Zip	Artesia, NM 88210											_			PO	#:	##	10	93	24	20	)		
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LAB # (Iab use only) Ell		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtored Total #. of Containers	lce	HNOJ HCI	H <sub>3</sub> SO <sub>4</sub>	NaUH Na <sub>2</sub> S <sub>7</sub> O,	None Olher ( Socolv)	DW-Drinking Water SI,#Skudge	GW = Groundwater S=Soli/Solid MP=Non-Potable Specify Other			Cations (Ca, Mg, Na, K) Anicos (C) SO4 Alkalicity)	SAR / ESP / CEC	Melals' As Ag Ba Cd Cr Pb Hg Se	Volatiles	Serrivolatilos BTEX 802185:030 or BTEX 8260	RCI	CHUDRIDE		
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### Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

ient	Vates Pet
ate/ Time:	2/21/07 9:00
b ID # :	7621003-01
tiale	

#### Sample Receipt Checklist

#### **Client Initials** No °C Temperature of container/ cooler? Nes 3.0 11 Yes> No Shipping container in good condition? Custody Seals intact on shipping container/ cooler? Yes No Not Present Custody Seals intact on sample bottles/ container? Yes No Not Present Yes No *‡*5 Chain of Custody present? Sample instructions complete of Chain of Custody? Yes No Chain of Custody signed when relinquished/ received? (Yes) No Chain of Custody agrees with sample label(s)? (Yes) *‡*8 No ID written on Cont./ Lid Container label(s) legible and intact? Yes No Not Applicable Sample matrix/ properties agree with Chain of Custody? Yes No 0 Containers supplied by ELOT? Yes No 111 Samples in proper container/ bottle? Yes > No 2 See Below 3 Samples properly preserved? Yes No See Below Sample bottles intact? Yes. 114 No Preservations documented on Chain of Custody? Yes No Containers documented on Chain of Custody? Yes No 6 *t*17 Sufficient sample amount for indicated test(s)? Yes No See Below <u>+1</u>8 All samples received within sufficient hold time? Yés No See Below Subcontract of sample(s)? Yes No Not Applicable °20 VOC samples have zero headspace? Yes No Not Applicable

#### **Variance Documentation**

Date/ Time:

Contact.

\_\_\_\_

prrective Action Taken:

leck all that Apply:

See attached e-mail/ fax

Contacted by:

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

## SAMPLE SYNOPSIS

### SITE NAME: LUSK AHB FEDERAL 1 Latitude: <u>32.62164</u> Longitude: <u>103.73322</u> SAMPLE DATE: <u>02/20/07</u>

Section: <u>35</u> Township: <u>198</u> Range: <u>32E</u> UNIT LETTER: <u>B</u> SITE RANKING: <u>0</u>

SAMPLE POINT AND DEPTH	GPS	TPH (ppm)	BTEX (ppm)	CHLORIDES (ppm)	ph
SP1-6 @ 6"	32.62154N 103.73370W	ND	ND	[[2.98]	
SP1-12 @ 12"	32.62154N 103.73370W	ND	ND	[2.21]	
SP2-6 @ 6"	32.62149N 103.73363W	ND	ND	J[3.44]	
SP2-12 @ 12"	32.62149N 103.73363W	ND	ND	J[1.85]	
SP3-6 @ 6"	32.62143N 103.73382W	ND	ND	390	
SP3-12 @ 12"	32.62143N 103.73382W	ND	ND	456	
SP4-6 @ 6"	32.62150N 103.73381W	319	ND	533	
SP4-12 @ 12"	32.62150N 103.73381W	82.3	ND	91.2	

## ND: ANALYTE NOT DETECTED AT OR ABOVE THE REPORTING LIMIT

## J: DETECTED BUT BELOW THE REPORTING LIMIT; THEREFORE, RESULT IS AN ESTIMATED CONCENTRATION (CLP J-FLAG)

