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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

### **Release Notification and Corrective Action**

	OPER	ATOR	🗌 Initial Report 🛛 🖾 Final Repo
Name of Company	OGRID Number	Contact	
Yates Petroleum Corporation	25575	Robert Asher	
Address		Telephone No.	MAR 0 5 2008
105 South 4th Street, Artesia, NM 8	38210	505-748-1471	
Facility Name	API Number	Facility Type	OCD-ARTESIA
Serrano Federal Battery	30-015-28166	Battery	
Surface Owner	Mineral Owne	r	Lease No.
Federal	Federal		NM-92748

### LOCATION OF RELEASE

Unit Letter M	Section 11	Township 19S	Range 25E	Feet from the 660	North/South Line South	Feet from the 660	East/West Line West	County Eddy
	<u> </u>			· · · · · · · · · · · · · · · · · · ·				

Latitude 32.67000 Longitude 104.46139

NATURE	OF RELEASE	
Type of Release	Volume of Release	Volume Recovered
Crude Oil & Produced Water	5 B/O & 95 B/PW	4 B/O & 86 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water tank	6/1/2007 AM	6/1/2007 AM
Was Immediate Notice Given?	If YES, To Whom?	
Yes 🗌 No 🗌 Not Required	Mike Bratcher/ NMOCD District 2	2
By Whom?	Date and Hour	
Sherry Bonham	6/4/2007 PM	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	itercourse.
🗌 Yes 🛛 No	N/A	
If a Watercourse was Impacted, Describe Fully.*		
N/A		
Describe Cause of Problem and Remedial Action Taken.*		
Loss of electrical service to water transfer pump. Water tank ran over.		
Describe Area Affected and Cleanup Action Taken.*		
Area approximately 10' X 100' all contained inside berm, shut wells in, re		
delineation was made and corrective actions taken. Depth to Ground W		
Body: >1000', SITE RANKING IS 10. With enclosed information, Ya	ates Petroleum Corporation reques	ts closure.
I hereby certify that the information given above is true and complete to the		
regulations all operators are required to report and/or file certain release n		
public health or the environment. The acceptance of a C-141 report by the		
should their operations have failed to adequately investigate and remediate		
or the environment. In addition, NMOCD acceptance of a C-141 report d	oes not relieve the operator of respon	sibility for compliance with any other
federal, state, or local laws and/or regulations.		
	TIM GUN CONSERV	VATION DIVISION
Signature: Stold .	by MB	<b>^</b>
	Approved by District Supervisor	
Printed Name: Robert Asher	Approved by District Supervisor Signed By	Mily Denning
	AAAD 9 7 2008	
Title. Environmental Regulatory Agent	Approval DateMAR 3 1 2008	Expiration Date: AA
	/	
E-mail Address: boba@ypcnm.com	Conditions of Approval:	
	$\sim $	Attached
Date Wednesday, March 05, 2008 Phone 505-748-4217	Anal	
Attach Additional Sheets If Necessary		2RP-151
		214-131

A3600009155147

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<u>District I</u> 625 N. French District II	Dr., Hobbs.	NM 88240		-		New Mex	ico ll Resources			Form C-14 Revised October 10, 200				
	Avenue, Art	tesia, NM 88210	}			rvation Di				Submit 2 Copies to appropriat District Office in accordanc				
000 Rio Brazo	is Road, Azte	.c, NM 87410				h St. Franc		with Rule 116 on 1						
	icis Dr., Sant	ta Fe, NM \$750	5	5	Santa F	e, NM 875	05			side of form				
	التقريبي ومعقلوها		Rela	ease Notifi	icatio	n and Co	orrective A	ctior	1					
						ATOR			🛛 Initia	al Report 🔲 Final Repo				
Name of Co Yates Petro		oration		OGRID Ni 25575	imber	Contact Robert Ash	er							
Address		······,		20072		Telephone 1	No.							
105 South Facility Nat		Artesia, NM	<u>I 88210</u>	API Numbe	76	505-748-14 Facility Typ								
Serrano Fed		ry				Battery	···							
Surface Ow	'ner			Mineral	Owner	<del></del>			Lease					
Federal	*		<b></b>	Federal					NM-92	2/48				
Unit Letter	Castion	Township	Done	LOC Feet from the		N OF RE	Fect from the	East/	West Line	County				
M	Section 11	195	Range 25E	660		South	660	1	West	Eddy				
	4		L	Latitude 32	2.67000	Longitude	104.46139							
						OF REL								
Type of Rolo		<u> </u>		<u>+ )+ x</u>	TUIL	Volume of	Release			Recovered				
Crude Oil & Source of Re		Vater	<b></b>			5 B/O & 9 Date and F	5 B/PW lour of Occurrence	e		86 B/PW Hour of Discovery				
Water tank						6/1/2007 A	M		6/1/2007	<u>AM</u>				
Was Immedia	ate Notice (		Yes 🗌	No 🗌 Not F	Required		her/ NMOCD Di	istrict 2						
By Whom?						Date and H 6/4/2007 P								
Sherry Bonha Was a Water		:hed?					lume Impacting t	the Wate	creourse.	<u></u>				
	irse was Im	pacted, Descri	Yes 🛛 ibe Fully.*							·····				
		em and Remed		Taken.* Water tank гап	over,					· · · · · · · · · · · · · · · · · · ·				
Devoribe Are	Affected	and Cleanup A	Lotion Tak	en *						······································				
Area approxi delineation w	mately 10' ] ill be made	X 100' all con and corrective	ntained insi e action tal	de berm, shut w	vells in, r Ground <sup>1</sup>	estored electri Water: 50-99	cal power, vacuu ', Weilhead Prot	m truck lection /	picked up Area: No, 1	fluids, vertical and horizontal Distance to Surface Water				
-	•	ANKING IS I												
hereby certi	fy that the i	nformation giv	ven above	is true and com	plete to t release n	he best of my	knowledge and u	nderstar	nd that pur ions for rel	suant to NMOCD rules and cases which may endanger				
ublic health	or the envir	ronment The	acceptance	≥ofaC-141 rep	ort by th	e NMOCD ma	irked as "Final R	eport" d	oes not rel	ieve the operator of liability				
or the enviror	ment. In a	ddition, NMO	CD accept	ance of a C-141	report d	loes not relieve	the operator of i	cal to gi responsi	bility for c	r, surface water, human health ompliance with any other				
ederal, state,	or local law	ws and/or regu	lations.			<u> </u>	OU CON	SERV	ATION	DIVISION				
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lignature	لل مح	<b>€</b> ₩_5.22Ω				Approved by i	District Supervise	Dr:	NMOCE	)				
Printed Name						M.	AR 31200	8.						
		ulatory Agent	•						Expiration					
	ss: boha@v	/ກຕາມ ເວັນ			I +	Conditions of	Attached							
2-mail Addre	131 0001(H); )	pennieum								Andened				

MARTIN YATES, III

FRANK W. YATES



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471 S.P YATES

JOHN A. YATES CHAIRMAN OF THE BOARD

FRANK YATES, JR.

PEYTON YATES

JOHN A. YATES, JR. DIRECTOR

March 5, 2008

Mr. Mike Bratcher NMOCD District II 1301 West Grand Artesia, NM 88210

MAR 0 5 2008 OCD-ARTESIA

Re: Serrano Federal #1 30-015-28166 Section 11, T19S-R25E Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on June 1, 2007 (5 B/O and 95 B/PW with 4 B/O and 86 B/PW recovered) Soils were excavated and taken to an OCD approved facility; samples were taken on July 11, 2007 and sent to an OCD approved laboratory (analytical reports enclosed). Further excavation of soils was conducted and samples taken (9/25/2008), nitrogen fertilizer and Microblaze was applied and worked into soil. Samples were taken on February 27, 2008 and sent to an OCD approved laboratory (see sample diagram). Site ranking is ten (10), with the depth to ground water 50-99' (approximately 85'). RRAL's based on the site ranking of 0, BTEX (ppm) @ 50 and TPH (ppm) @ 1000. sample results are within these limits. Based on oil/produced water recovered, soils excavated and remedial actions, Yates Petroleum Corporation requests closure

If you have any questions, please call me at 505-748-4217.

Thank you.

ES PETROLEUM CORPORATION

Robert Asher Environmental Regulatory Agent

/rca Enclosure(s)

### **Summary Report**

Robert Asher Yates Petroleum Corp. 105 South 4th Seuth Artesia, NM, 88210

Report Date: March 4, 2008

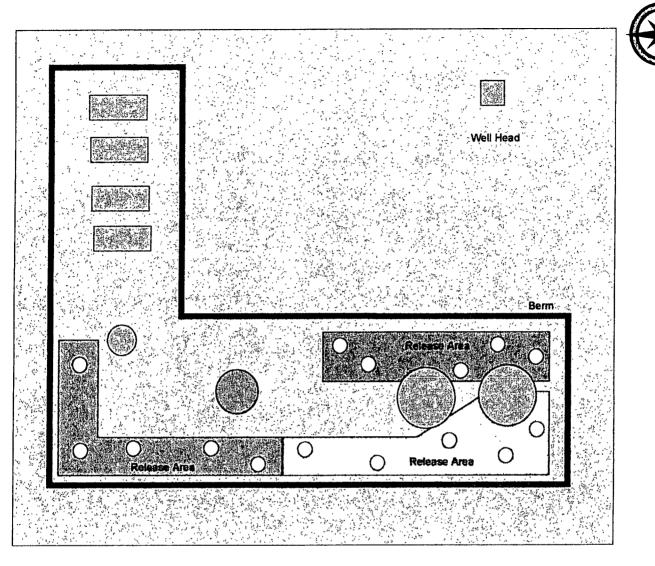
Work	Order:	8622824

Project Location:Eddy County, NMProject Name:Serrano Federal #1Project Number:30-015-28166

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
152022	GS/Comp-001	stoil	2008-02-27	10:58	2008-02-28
152023	GS/Comp-002	soil	2008-02-27	11:19	2008-02-28

		1	BTEX		TPH DRO	TPH GRO
	Benzene	Tohene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	I. A MAL	h & Alz.	(com (Km)	ina/Kal	teration	puzitia.
152022 - GS/Comp-001	<0.6100	<0.0100	<0.0100	0.0502	109	81.8
152023 - GS/Comp-002	<0.0100	0.210	0.826	3.42	242	155

TraceAnalysis. Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock. TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.



Sample ID,	Sample Date	Sample Type	Depth 🖗	BTEX	GRO	DRO	TPH TOTAL	Chlorides
GSPORTANO	7/11/2007	Grab/Auger	1'	47.967	2480	17900	20,380.0	285
SS/Comp.007	9/25/2007	Grab/Auger	1'	ND	94.8	2020	2,114.8	
GS/Comp-002	7/11/2007	Grab/Auger	1'	40.089	921	6360	7,281.0	237
GS/Comp-002	9/25/2007	Grab/Auger	1'	ND	22.1	157.1	179.2	
GS/Comp-003	7/11/2007	Grab/Auger	1'	39.4523	750	3640	4,390.0	201
G6/Comp-003	9/25/2007	Grab/Auger	1'	0.677	400	1100	1,500.0	
Sample ID	Sample Date	Sample Type	S Depth 🗄	BTEX	GRO	DRO	TPH TOTAL	Chlorides
(SS/Compade)	2/27/2008	Grab/Auger	1'	0.0502	81.8	109	190.8	
GS/Comp-002	2/27/2008	Grab/Auger	1'	4.466	155	242	397.0	

Site Ranking is Ten (10). Depth to Ground Water. 50'-99' (approx. 85'). All results are ppm.



Serrano Federal Battery

**EXHIBIT** Sample Diagram (Not to Scale)

**Prepared by Robert Asher Environmental Regulatory Agent** March 5, 2008

**Eddy County, NM** 

Section 11, T19S-R25E

# Analytical Report 290258

for

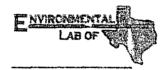
# **Yates Petroleum Corporation**

**Project Manager: Robert Asher** 

Serrano Federal # 1

30-015-28166

01-OCT-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



01-OCT-07

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 290258 Serrano Federal # 1 Project Address: Eddy County

#### **Robert Asher:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 290258. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice. unless otherwise arranged with you. The samples received, and described as recorded in Report No. 290258 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by mimerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY.



### Sample Cross Reference 290258

### **Vates Petroleum Corporation, Artesia, NM**

Serrano Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Sep-25-07 10:48	8 - 12 In	290258-001
GS/Comp-002	S	Sep-25-07 11:08	8 - 12 In	290258-002
GS/Comp-003	S	Sep-25-07 11:29	1 - 1 A	290258-003



### Certificate of Analysis Summary 290258

Yates Petroleum Corporation, Artesia, NM

Project Id: 30-015-28166 Contact: Robert Asher Project Location: Eddy County

### Project Name: Serrano Federal # 1

Date Received in Lab: Wed Sep-,26-07 10:15 am

Report Date: 01-OCT-07 Project Manager: Brent Barron, II

			a de la desente de la constante de la segurita de la constante de la constante de la constante de la constante				
	Lab Id:	2907258-001	290258-002	290258-003			
Analysis Requested	Field 'd	GS+Lomp-001	GS/Comp-002	GS/Comp-003			
2тазыя першэни	Depth	8-12 in	8-12 In	1-1 ft			
	Matrix	SOIL	SOIL	SOIL			
	Sampled:	Sep-15-07 10 48	Sep -25-07-11-08	Sep-25-07-11-29			
BTEX by EPA 8021B Extracted		Sep-27-07 16 00	Sep-27-07 16 00	Sep 27-07 16 00			
Analyza		Sep-27-17 19 43	Sep 27407 20 60	Sep-27-07-20-16	Į		
	Units RL:	mg/kg RL	mg/kg RL	ng/kg RL			
Penzene		ND 0.0012	ND 0.0012	ND 0.0012			
Toluene		ND 0.0010	VD 0.0012	0.0938 0.0012			
Ethylbenzena		ND 0.0011	ND 0.0010	0.0323 0.0012			
m.p-Xylette		ND 0.002~	ND 0.0024	0.3970 0.0024			
o-Xylene		NE) 0.0012	ND 0.0012	0.1-30-0.0012	[		
Total Aylence		ND	ND	0.5509			
Total ETEN		ND	ND	0 677			
Percent Moisture	Extracted.						
	Analyzed:	Sep-26-07 15 30	Sep-26-07 15 30	Sep-26/07/15/ <u>3</u> 0			Į.
	Units RL:	% RI	% RL	% RL			
Percent Moisture		166 100	17.8 1.00	1:0 100			
TPH by SW 8015B	Extracted.	Sep-27-07 17 18	Sep-27-07-17-18	Sep-27 07 17 18	· ······		
Analyze		Sep-27-07-20-5.	Sep-27-07 21 20	Sep-27 07 21 44			
Units. R		mg/kg Ri	mgArg RL	rış/kg RL			
Co-C10 Gasoline Range Hydrocarbons		\$48 120	221 122	4.11 111			1
C10-C23 Diesel Range Hydrocarbons		2020 12.0	135 121	1160 118			
Total TPH		21(4.8	157.1	15-10			

The analytical report and the entry data package it represents, has been made for your exclusive and confidential use. The interpretations indice allo expressed throughout this analytical report represent the been palgment of XE2/CO Laboratories XE2/CO Laboratories resumes no responsibility and mades no waterands to the end use of the data hereby presented Core the fattice is functed to the amount in-second for the work, order unless otherwise agreed to in a writing.

Brent Barron Odessa Laboratory Director



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference. or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit: therefore, the concentration is reported as estimated
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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	Phone	Fax
11381 Meadowglen Lane Sunte L Houston, Tx 77082-2647	(281) 589-0692	(281) 589-0695
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N Falkenburg Rd , Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(3115) 823-8555

Env	vironment	al Lab of Te	s.xa	\$					1260 Orie:		test i	-20	East		us	го	OYR	PEC	OR	D A	ND	ž	Hace	ne: (	432	-567	)/JE 1:480 1:471	Ó				
	Project Manager:	Robert Asher								-							Pr	ojec	t Na	<b>14</b> :4)	Sa	nar	¢ F	ede	na)	神]						*
	Company Name	Ystes Petroleum Corporatio			···	1996 Tagle 19-4 40 min - a deau Rule						441 <b>6</b> ~ A		<b>1111-1</b> 1-11				P	0;00	法部.	30	01	5-25	9181	6							
-	Company Address	105 South 4th Street		قود باد کندادی		**********						- بطاقهم	tanın arası		<b>24</b> -34-24		1	Proj	ect i	. <b>0</b> 41)	Ede	<u>y C</u>	sur.t	¥								
	City/State/Zip	Artesia, NM 88210			والمراجع	1911						*****							þ	0 și	105	632	****		وروريد م						** 7-4*	
	Telephone No:	505-748-9217			ور بر در	Fax No		50	3-7-48-	4(93)	2					ŧ	Repor	1 F0	rm a	t:		13ta	ntar	RC	ł		TRR	p	С		POE	5
	Sampler Signature	Leecl.	فمنقبه ومحافظ	<b></b>		e-mail:		bo	ba(	Î'γ <b>I</b>		m c	<u>iom</u>				4											-			in all all the	-
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AB # (lab use criy)	FIE		Beginning Depth	Ending Ocpth	Date Gamphat	Tare Santrad	tests Pittystes	Trial # of Contanens		HVE	54 2	1000, 1000 1000 1000 1000 1000 1000 100	Hand C.	Nans	اللالطان ا القياصينانية	UN-Drawn Wider St. Subje	ind - incentioned Induced Induced Induction		54 i 1966	Latar (5 8, 22 4, 42, 43	12	HAR I EYA I CES	市中に いい 留守水 きま	Vo'utitas	Servenciebios	erex administry of the such	нù	X0X#	Choras		RUSH TAT (Prescrate) 24 .	
OI	GSA	Comp-001	8"	12"	9/25/2007	10:48 AM	1		X		$\uparrow$		+	t	<b>†</b>		8	Tx	+	†~-	Ê					X			Ì	1	Ē	Ť
Q2	GSA	Comp-002	8"	12"	9/25/2007	11.08 A.M		1	X								5	L	I							X			Ţ			
03	GSA	Comp-003	<u>4</u> 1		9/25/2007	11:29 AM		1						<b>-</b>			\$	ľ				 				×			 			+
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Special	Instructions:	TPH: 8015B & (		8021	B. Please s	L how ETEX re	1	l Is a	s mg	/Hg	Th	ani	(yai	1 '. T	- <u>1</u>	ita		_L	7.8	8.0 VC L.0	ingl XCs Vels	e Co Fries an d	ntida of t	ners Heed ainer		1137 4137		<u> </u>	{S	12000	N N N N	<b>.</b>
Rohan F Relinger Relingul	shed by	Date Date	<b>†</b>	6 PM ITTR	Reconned by				رون میکند. رون میکندرین	1844 ay 1479 1844 ay 1479						ile ile	+-		71 <b>1</b> 0	- Ci 37	istod impli by by	ly na Ha Sam Court Court	ints i inct l iphan rian? 272	on ci Deliv Cion Cion	aolei Hirod Int Ru UP	9 1613 7 15	DH.		( ( Fedi		N N N .048 : **	l Ste
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### Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Client	lates
Date/ Time.	97607 1015
Lah ID#	ZAUSSE
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### Sample Receipt Checklist

				Client Initia
#1	Temperature of container/ cooler?	Yes	No	3.5 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Mes	No	Not Present
#.4	Custody Seals intact on sample bottles/ container?	6)	No	Not Present
#5	Chain of Custody present?	65	No	
<b>#</b> 6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
48	Chain of Custody agrees with sample label(s)?	Ves	No	D written on Cont / Co
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	ares.	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	Sop Below
# 14		Ves	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#"¢	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yee	No	See Below
<b>≠</b> 18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcomract of sample(s)?	Yes	No	Not Applicable
#20	VCC samples have zero headspace?	Yes	No	Nut Applicable

#### Variance Documentation

Contact.	Contacted by.		Date/ Time:	
Regarding.				
		and water and the second s		
Corrective Action Taken.				
				·····

Check all that Apply

See attached e-mail/ fax

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

# Analytical Report 285838

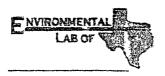
for

# **Yates Petroleum Corporation**

**Project Manager: Robert Asher** 

Serrano Federal # 1 30-015-28166

20-JUL-07



#### 12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675



20-JUL-07



Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 285838 Serrano Federal # 1 Project Address: Eddy County

#### **Robert Asher:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 285838. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No 285838 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectful

Brent Barron

**Odessa Laboratory Director** 

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### Certificate of Analysis Summary 285838

Yates Petrokum Corporation. Artesia, NM Project Name: Serrano Federal#1



.

Project Id: 30-015-28166 Contact: Robert Asher Project Location: Eddy County

#### Date Received in Lab: Thu Jul-12-07 12:00 pm

Report Date: 20-J.L-07

Project Manager: Brent Barron, II

	Lab 1d	28 335-001	285338-(0)2	285838-003			
An alumin Der an and al	Field 1d;	GS+Comp-001	GSA10mp-002	GS/Comp-003			
Analysis Requested	Depth:	I-1 ít	1-1 ft	1-1 ft			
	Afairix.	son.	NOIL .	SOU.			
	Sampled	Jul-11-07 09-24	Jul-11-07-09-38	Jul-11-07 10 00			
BTEX by EPA 8021B	Extracted	Jul-13-07 14 56	Jui-12-07 14 56	Jul-13-07 14-55			
DESIT DY ST COULTD	Analyzed	Jul-14-07 08 36	Jul-14-07 08 57	Jul-14-07/09/17			
	Units RL:	mgkg RL	mgAg EL	myke Rl.			
lienzene		1 134 0 0279	0.9989 0.1112	0.3643 01182	]	]	
Toluene		8 545 0 027'	8 509 01112	7 033 0 1183			
f thylbenzene		2 543 0 0279	2 \$05 0 1112	3 280 0 118.1		· · · · · · · · · · · · · · · · · · ·	
ni p-Xylette		21-06 C 055*	20.64 0.2225	21,80 0 2366			
o-Nylene		9.685 C.027**	7437 01112	7 175 0 1183			*****
Totel Xylenes		35 745	28 077	28 772			**************************************
Totel BTEX		47,967	40) (1399	19 4:23			
Percent Moisture	Extracted:						
	Analyzed:	Jul-12-07 17 55	Jul-12-07 18 00	Jul-12-07 18 05			
	Units/RL:	<sup>a</sup> r RL	% &L	*6 RL			
Percent Moisture		10.4	30.1	15.5			
TPH by SW 8015B	Extracted:	Jul-16-07 12:00	Jul-16-07 12 00	Jul-16-07 12 00			
	Analyzed:	Jul-16-07 18 30	Jul-16-07 18 56	Jul-16-07 19 21			
	Units/RL:	myrky RL	marky FL	mg/kg RL			
Co-C10 Gasoline Range Hydrocathons		2480 558	921 556	780 118		1	
(10-C28 Diesel Range Hydrocarbons		17900 55.8	6360 55.6	3640 118			
Total Chloride by SW 9253	Extracted.						
A WEAR CHAPTERS DJ 15 TT 7400	Analyzed	Jul-18-07 13.00	Jul-15-07 13 0)	Jul-18-0713-00			
	Units/RL:	mgkg RL	marky RL	mg/kը ԲI,			
1°h]oride		285 5.58	237 5.56	201 591	1	1	1

the analytical separt, and the entire data package it represents has been made for your evolution e and confidential use. The independence and results expressed throughout this analytical region represent the lossing against of VENCO Laboratories. MeRCO Laboratories insumes no responsibility and makes to warrants to the end use of the data breely presented "an liability to implicible comparison of the second region of the second use of the data breely presented."

Brent Barron

Odessa Laboratory Director



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit: therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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	Phone	Fax
11381 Meadowgien Lane Sune L Houston, Tx 77082-2647	(281) 589-0692	(281) 589-0695
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St. Mianu Lakes, FL 33014	(305) 823-8500	(305) 823-8555



### Form 2 - Surrogate Recoveries



Project Name: Serrano Federal # 1

Work Order #: 285838		Project I	<b>D:</b> 30-015-28	166	
Lab Batch #: 700420 Sample: 285838-0	001/SMP Ba	tch: 1 Matri	ix: Soit		
Units: mg/kg	st	JRROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Aniouní [B]	Recovery %R  D]	Control Limits %R	Flags
4-Diumuffluurobenzene	0 1180	0,0506	236	75-125	
			1	1	[
Lab Batch #: 700420 Sample: 285838-0			x: Soil	CONTRACT.	
Units: mg/kg	SU SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	'l rue Amoum [B]	Recovery %R [D]	Control Limits %R	Flags
+Bromofluorobenzene	0,0564	0.0500	113	75-125	
		0.0,487		73-123	
Lab Batch #: 700420 Sample: 285838-0	03 ' SMP Bat	ch: 1 Matri	<b>x:</b> Soil		
Units: mg4g	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount {B}	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
4-Bromofluorobenzene	0.0619	0.0500	124	75-125	
Lab Batch #: 700420 Sample: 285839-0	DIS'MS Bat	ch: 1 Matri:	r: Soil		
Units: mg/kg	su	RROGATE RI	COVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amouni [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0,0286	0,0500	57	75-125	u.
Lab Batch #: 700420 Sample: 285839-00	)I SD/ MSD Bat	ch:   Matrix	e Soit		أليسيبي بخاسيي
Units: mg/kg	SU	RROGATE RE	COVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0256	0,0500	51	75-125	*

\*\* Surrogates outside lunits. data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

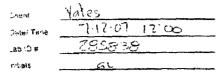
Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.

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Project Manager	Roter Ashe											~				<b>F1</b> 0j	rei	Nort	e j	5.71	anc	F	100	121 #	<u>1</u>						***
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#### Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

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#### Sample Receipt Checklist

	Charles and the company of the compa			
		1000000		Client Initi
1	Temperature of container/ cooler?	(Ves)	No	0.0 .0
2	Shipping container in good candiliari?	Yes	No	
3	Custory Seels intact on shipping container/ cooler?	Xes	No	Not Present
٨	Custody Seals intact on sample bollies/ container?	Ye;	No	Not Present
5	Chain of Custody present?	Yas	No	
5	Sample instructions complete of Chain of Custody?	Yes	No	
7	Chain of Custody signed when relinquished/ received?	Yes	No	1
£	Chain of Custody agrees with sample label(s)?	1 Sea	Nü	1D written on Cont / Lid }
3	Container label(s) legible and intact?	(as	No	Not Applicable
10	Sample matro/ properties agree with Chain of Custody?	Yes)	No	1
11	Containers supplied by ELOT?	123	No	
1)	Samples in proper container/ bottle?	Yes	No	See Below
13	Samples properly preserved?	Yes	No	See Below
14	Sample bottles intact?	Yes	No	
15	Preservations documented on Chain of Custody?	(Yes)	No	
16	Containers documented on Chain of Custody?	Yes	No	
17	Sufficient sample amount for indicated text(s)?	Yes	No	See Below
15	All samples received within sufficient hold time?	(69)	No	Spelletnu
19	Subcontract of sample(s)?	Yes	Na	Not Applicable
20	VOC samples have zero headspace?	Yes	No	Not Applicable

#### Variance Documentation

Page 13 of 13