MARTIN YATES, III 1912-1985

FRANK W. YATES

S.P. YATES 1914-2008



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

JOHN A. YATES
CHAIRMAN OF THE BOARD
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ASSISTANT TO THE PRESIDENT

JAMES S. BROWN

JOHN D. PERINI



March 16, 2010

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

Re:

Jackson EM Com. #1

30-015-21564

Section 25, T17S-R25E Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corporation would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated February 22, 2010. Scope of work described in the plan will be conducted as soon as the work plan is approved, and a contractor can be scheduled.

If you have any questions call me at (575) 748-4217

Thank you.

YATES PETROLEUM CORPROATION

Robert Asher

**Environmental Regulatory Agent** 

Enclosure(s)

Yates Petroleum Corporation

Jackson EM Com. #1 Work Plan

Section 25, T17S-R25E

Eddy County, New Mexico

777727 March 16,2010777777777

#### I. Location

The well is located approximately 5 miles south of Artesia, NM, approximately 1.3 miles west of 13<sup>th</sup> Street (CR 48) and 1.2 miles northwest of Blevins Road (CR50), as represented by the attached Artesia, NM, USGS Quadrangle Map.

#### II. Background

On February 22, 2010, Yates submitted to the NMOCD District II office a Form C-141 for a release of 54 barrels of condensate and 9 barrels of produced water with no condensate or produced water recovered. This release occurred 2/11/2010. The NMOCD was notified of the release (voicemail and e-mail). The total affected area is approximately 20 feet by 10 feet. Initial delineation samples were taken and analyzed at NMOCD approved laboratory. Results and a sample diagram are enclosed.

#### III. Surface and Ground Water

Area surface geology is Paleozoic. The nearest groundwater of record is listed on the New Mexico Office of the State Engineers web site shows the depth to groundwater is approximately 150 feet (Unit Letter P, Section 25, T17S-R25E) making the site ranking for this site a zero (0). Any watercourses in the area are dry and intermittent, except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

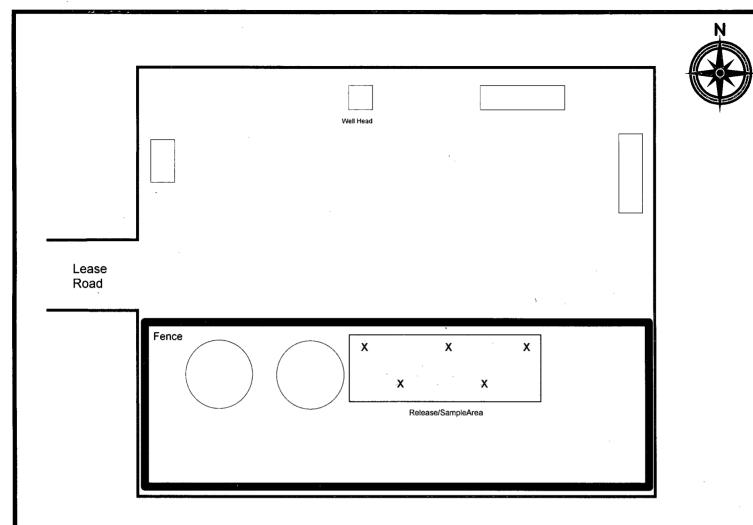
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

#### IV. Soils

The area consists of soils that are loamy, interspersed with caliche and clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

#### V. Scope of Work

Based on analytical results (GS/Comp-003, sample depth of 3 feet, BTEX at 70.24), Yates Petroleum Corporation will have a contractor excavate impacted soils (approximately 20' X 10' X 3') and stockpile on plastic. Currently the battery area is unbermed, clean soils will be brought in and blended with impacted soils (soils also will be aerated to flash off BTEX contaminants) this process will be done twice within a thirty (30) day period. Grab samples will be obtained, these samples will be sent to an NMOCD approved laboratory and analyzed for BTEX. If results are above RRAL's for BTEX, nitrogen fertilizer will be applied, mixed/aerated and water applied, again this process will be done twice within a thirty (30) day period and then re-sampled. When analytical results are below RRAL's for BTEX, Yates will request a sampling event and then closure of the site (Final C-141 submitted). Upon final approval the excavated area will be backfilled with the remediated stockpiled materials and a containment berm will be constructed around the battery area.



Sample ID	Sample Date	Sample Type	Depth	Benzene	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Gomp-001	3/2/2010	Grab/Auger	1'	ND	14.279	728	91.8	819.8	798
GS/Comp-002	3/2/2010	Grab/Auger	2'	ND	16.410	1070	117	1187	236
GS/Comp-003	3/2/2010	Grab/Auger	3'	0.1450	70.240	1200	142	1342	175

**Site Ranking is Zero (0).** Depth to Ground Water >100' (approx. 150', per New Mexico State Engineer Office). All results are ppm. Chloride results are for documentation. BSL - Below Subsurface Level. **X - Sample Points** 



Jackson EM Com. #1 30-015-21564 Section 25, T17S-R25E

**Eddy County, NM** 

## **SAMPLE DIAGRAM (Not to Scale)**

Xenco Laboratories: #364311 & 364313 Report Date: 3/14/2010

Prepared by Robert Asher Environmental Regulatory Agent

# **Analytical Report 364311**

for

# **Yates Petroleum Corporation**

Project Manager: Robert Asher

Jackson EM Com. # 1 30-015-21564

14-MAR-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





14-MAR-10

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

Reference: XENCO Report No: 364311

Jackson EM Com. # 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 364311. 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. 364311 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, II

Odessa Laboratory Manager

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## **Sample Cross Reference 364311**



## Yates Petroleum Corporation, Artesia, NM

Jackson EM Com. #1

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
GS/Comp-001	S	Mar-03-10 10:41	1 - 1 ft	364311-001
GS/Comp-002	S	Mar-03-10 11:09	2 - 2 ft	364311-002
GS/Comp-003	S	Mar-03-10 11:34	3 - 3 ft	364311-003

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कारण महीत्री पंजाने का क्षेत्र कर्षण है। या का प्राप्त का प्रेम का कारण का स्थाप में की मिलिए हैं हैं। समित्र के में का का अन्य में का खादक है जा का अने का का कारण का महिला का मुक्ति हैं।



#### CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Jackson EM Com. #1



Project ID:

30-015-21564

Work Order Number: 364311

Report Date: 14-MAR-10

Date Received: 03/04/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-796840 TPH by SW 8015B

SW8015B\_NM

Batch 796840, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data

not confirmed by re-analysis

Samples affected are: 364311-002.

Batch: LBA-796849 Percent Moisture

AD2216A

Batch 796849, Percent Moisture RPD is outside the QC limit. This is most likely due to sample

non-homogeneity.

Samples affected are: 364311-002, -001, -003.

Batch: LBA-797351 BTEX by EPA 8021

SW8021BM

Batch 797351, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is

suspected; data confirmed by re-analysis

Samples affected are: 364308-005 D,364311-002,364311-003,364311-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data

confirmed by re-analysis

Samples affected are: 364311-001,364311-003,364311-002.

Final Ver. 1.000



# Certificate of Analysis Summary 364311

## Yates Petroleum Corporation, Artesia, NM

Project Name: Jackson EM Com. #1

SAME OF

Project Id: 30-015-21564 Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Mar-04-10 09:35 am

Report Date: 14-MAR-10
Project Manager: Brent Barron, II

Analysis Requested    Lab Id:
Depth:   1-1 ft   2-2 ft   3-3 ft   SOIL
Depth:   H-1   H   SOIL   SO
Matrix:   SOIL   SOIL   SOIL   SOIL   SOIL   SOIL   SOIL   SOIL   SOIL   Mar-03-10 11:34
Sampled:   Mar-03-10 10:41   Mar-03-10 11:34   Mar-03-10 11:34
Analyzed:         Mar-09-10 22:49         Mar-09-10 23:12         Mar-09-10 23:34           Benzene         ND 0.0558         ND 0.0569         0.1450 0.0556           Foluene         1.321 0.1116         1.860 0.1137         7.339 0.1111           Ethylbenzene         2.197 0.0558         2.204 0.0569         9.056 0.0556           mp-Xylenes         6.792 0.1116         8.470 0.1137         39.65 0.1111           D-Xylene         3.969 0.0558         3.876 0.0569         14.05 0.0556           Xylenes, Total         10.761 0.0558         12.346 0.0569         53.70 0.0556           Total BTEX         14.279 0.0558         16.410 0.0569         70.24 0.0556
Units/RL:   mg/kg   RL   mg/kg   ng/kg   n
ND   0.0558   ND   0.0569   0.1450   0.0556     Toluene
Toluene       1.321 0.1116       1.860 0.1137       7.339 0.1111         Ethylbenzene       2.197 0.0558       2.204 0.0569       9.056 0.0556         m,p-Xylenes       6.792 0.1116       8.470 0.1137       39.65 0.1111         p-Xylene       3.969 0.0558       3.876 0.0569       14.05 0.0556         Xylenes, Total       10.761 0.0558       12.346 0.0569       53.70 0.0556         Total BTEX       14.279 0.0558       16.410 0.0569       70.24 0.0556
Ethylbenzene       2.197 0.0558       2.204 0.0569       9.056 0.0556         m,p-Xylenes       6.792 0.1116       8.470 0.1137       39.65 0.1111         p-Xylene       3.969 0.0558       3.876 0.0569       14.05 0.0556         Xylenes, Total       10.761 0.0558       12.346 0.0569       53.70 0.0556         Total BTEX       14.279 0.0558       16.410 0.0569       70.24 0.0556
m,p-Xylenes     6.792     0.1116     8;470     0.1137     39.65     0.1111       o-Xylene     3.969     0.0558     3:876     0.0569     14.05     0.0556       Xylenes, Total     10.761     0.0558     12:346     0.0569     53.70     0.0556       Total BTEX     14.279     0.0558     16.410     0.0569     70.24     0.0556
3.969     0.0558     3.876     0.0569     14.05     0.0556       Xylenes, Total     10.761     0.0558     12.346     0.0569     53.70     0.0556       Total BTEX     14.279     0.0558     16.410     0.0569     70.24     0.0556
Xylenes, Total     10.761 0.0558     12.346 0.0569 53.70 0.0556       Total BTEX     14.279 0.0558     16.410 0.0569 70.24 0.0556
Total BTEX 14.279 0.0558 16.410 0.0569 70.24 0.0556
Percent Moisture Extracted:
Analyzed: Mar-05-10 17:00 Mar-05-10 17:00 Mar-05-10 17:00
Units/RL: % RL % RL % RL
Percent Moisture 11.3 1.00 12.1 1.00 10.2 1.00
TPH by SW 8015B
Analyzed: Mar-07-10 14:01 Mar-07-10 14:29 Mar-07-10 14:56
Units/RL: mg/kg RL mg/kg RL mg/kg RL
C6-C10 Gasoline Range Hydrocarbons 728 16.9 1070 1200 16.7
C10-C28 Diesel Range Hydrocarbons 91.8 16.9 91.8 16.9 17.1 17.1 142 16.7
Total TPH 820 16.9 4187-417.1 1342 16.7

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000



## Flagging Criteria



- 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.
- 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 OC 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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- \* Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

# age 12 of 13

# **XENCO-Environmental Lab of Texas**

#### **CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Robert Asher							-								Proje	ct N	ame:	Jac	ksc	<u>n E</u>	M C	om.	<u>. #1</u>					
	Company Name	Yates Petroleum Corpora	tion			<u> </u>										_	F	roje	ct #:	<u>30-</u>	015	-215	64							
	Company Address:	105 South 4th Street							3								Pro	ject	Loc:	Edd	ly Co	ounty								
	City/State/Zip:	Artesia, NM 88210			:	· ·		$\langle i \rangle^2$	4									P	O #:	105	632									
	Telephone No:	575-748-4217				_ Fax No:	:	575	-741	8-46	62				•	Rep	ort F	orma	st:	×	Stan	ndard			TR	RP	١	N	IPDE	S
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LAB # (lab use only)	FIEI	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ice	HNO <sub>3</sub>	HCI	H-SO.	NaOH Na.S.O.	None	Other ( Specify)	DW=Drinking Water SL*Studge GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other TPH: 418.1 80.15M &	TX 1005 TX 10	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metais: As Ag Ba Cd Cr Pb Hg Se Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 2	
O	GS/C	Comp-001	1'	1'	3/3/2010	10:41 AM	L	-	X	_	_	$\perp$	_	$\perp$		s	<u> x</u>	<del></del>		$\dashv$	$\bot$	$\downarrow$	$\downarrow$	X	Ш	Ц	X	$\bot$	1	X
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03	GS/0	Comp-003	3'	3'	3/3/2010	11:34 AM		1	X	$\dashv$	+	+	+	+-		S	- ×	-	$\sqcup$	$\dashv$	+	+	+	X	$\vdash$	H	X	+	╀	X
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# Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

	Valor Detraleura					•
Client:	Yates Petroleum			4.		
Date/ Time:	3.4.10 9:35					
Lab ID#:	364311 / 364313					•
Initials:	AL					
		4				
	Sample Receipt	Checklist				
				C	Client Initials	\$
	ature of container/ cooler?	(Yes)	No	o4 °C		
	g container in good condition?	Yes	No			
#3 Custody	Seals intact on shipping container/ cooler?	(Yes)	No	Not Present		
#4 Custody	Seals intact on sample bottles/ container?	Yes	No	Not Present		
#5 Chain o	of Custody present?	(Yes)	No			· ·
#6 Sample	instructions complete of Chain of Custody?	Yes	No			
	of Custody signed when relinquished/ received?	Yes	No	Maria de la companya		
	of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid		
	ner label(s) legible and intact?	Yes	No	Not Applicable		, i
	e matrix/ properties agree with Chain of Custody?	Yes	No	14 1 120, 14.		
	ners supplied by ELOT?	(Yes)	No	A Company of the company		1
	es in proper container/ bottle?	(Yes)	No	See Below		
	es properly preserved?	(Yes)	No	See Below	민생동	
	e bottles intact?	Yes	No	1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	vations documented on Chain of Custody?	(Yes	No	promise and a second		10000
	ners documented on Chain of Custody?	Ø €	No			
	ent sample amount for indicated test(s)?	Yes	No	See Below		
	nples received within sufficient hold time?	Yes	No	See Below		1
	ntract of sample(s)?	Yeş	No	Not Applicable		1
	samples have zero headspace?	Yes	No	Not Applicable		1
	Variance Docu	mentation				<b>-</b> .
Contact:	Contacted by:		_	Date/ Time:		
Regarding:		•				
rregurenig.						
Corrective A	Action Taken:					
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Check all th	at Apply: See attached e-mail/ fax Client understands and wou	ild like to pro	reed with	analysis		
	Cooling process had begun	-		•		

# **Analytical Report 364313**

for

# **Yates Petroleum Corporation**

Project Manager: Robert Asher

Jackson EM Com. # 1 30-015-21564

14-MAR-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





14-MAR-10

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

Reference: XENCO Report No: 364313

Jackson EM Com. # 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 364313. 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. 364313 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, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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# **Sample Cross Reference 364313**



## Yates Petroleum Corporation, Artesia, NM

Jackson EM Com. #1

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
GS/Comp-001	S	Mar-03-10 10:41	1 - 1 ft	364313-001
GS/Comp-002	S	Mar-03-10 11:09	2 - 2 ft	364313-002
GS/Comp-003	S	Mar-03-10 11:34	3 - 3 ft	364313-003



#### CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Jackson EM Com. #1



Project ID:

30-015-21564

Work Order Number: 364313

Report Date: 14-MAR-10 Date Received: 03/04/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-796849 Percent Moisture

AD2216A

Batch 796849, Percent Moisture RPD is outside the QC limit. This is most likely due to sample

non-homogeneity.

Samples affected are: 364313-001, -003, -002.

Batch: LBA-797785 Inorganic Anions by EPA 300

None

Final Ver. 1.000



# Certificate of Analysis Summary 364313

## Yates Petroleum Corporation, Artesia, NM

Project Name: Jackson EM Com. #1



Project Id: 30-015-21564 Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Mar-04-10 09:35 am

Report Date: 14-MAR-10 Project Manager: Brent Barron, II

								110ject Manager.	Divine Durion, II	
	Lab Id:	364313-00	01	364313-0	002	364313-0	03			
Analysis Dogwooted	Field Id:	GS/Comp-0	001	GS/Comp-	002	GS/Comp-	003			
Analysis Requested	Depth:	1-1 ft		2-2 ft		3-3 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Mar-03-10 1	0:41	Mar-03-10	11:09	Mar-03-10 1	1:34			
Anions in Soil By EPA 300.0	Extracted:									
	Analyzed:	Mar-11-10 1	4:20	Mar-11-10	14:20	Mar-11-10 1	4:20			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		*	
Chloride		798	18.9	263	9.55	175	9.35			
Percent Moisture	Extracted:									
	Analyzed:	Mar-05-10 1	7:00	Mar-05-10	17:00	Mar-05-10 1	7:00			
	Units/RL:	%	RL	%	RL	%	RL		•	
Percent Moisture		11.3	1.00	12.1	1.00	10.2	1.00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Brent Barron, II Odessa Laboratory Manager

Final Ver. 1.000

Page 5 of 11



## Flagging Criteria



- 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.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit
- \* Outside XENCO's scope of NELAC Accreditation.

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4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

# age 10 of 11

# **XENCO-Environmental Lab of Texas**

#### **CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Robert Ashe	r						~.									Pr	ojec	t Na	me:	Jac	kso	n E	M C	om.	#1					
	Company Name	Yates Petrole	eum Corporat	tion_				:		<i>:</i>							_		Pı	rojec	:t #:	30-	01 <u>5</u> -	-215	64							
	Company Address:	105 South 4t	h Street			· · · · · · · · · · · · · · · · · · ·			. :								-	ı	roje	ect l	.oc:	Edd	у Со	unty								
	City/State/Zip:	Artesia, NM	88210				·		j	:.·							_			P	) #: <sub>.</sub>	105	332									••••
	Telephone No:	575-748-421	7				Fax No	· :	575	-748	8-460	52					. F	Repor	t Fo	rma	t: i	X.	Stan	dard			TRE	RP		] NF	PDES	÷
	Sampler Signature:		ees C	۰ مر	-		e-mail	:		b	oba	@уа	atesp	etro	leur	n.c	om				_							<u>.                                    </u>				
(lab use	only)	7																	⊢			TC		Anai	lyze I	For:	$\Box$		$\top$	$\top$	-	l
	1#: 364311 J	/3643	13						J.	·	rese	vato	on & # c	of Cor	ntaine	rs	I M	atrix -	88	Т		TOT	AL:	<u>.</u>	丰	Ę					6, 72 hrs	
LAB# (lab use only)	FIEL	LD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	<b>63</b> 1	нио,	ŦĊ	H <sub>2</sub> SO,	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)		GW = Groundwater S=Soil/Solid NP=Nan-Potable Specify Other	TPH: 418.1 8015M 801	TPH: TX 1005 TX 1006	Cations (Ca. Mg, Na. K)	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metais: As Ag Ba Cd Cr Pb Hg Se Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI	N.O.R.M.	Chlarides		RUSH TAT (Pre-Schedule) 24, 45,	Standard TAT
0	GS/0	Comp-001		1'	1'	3/3/2010	10:41 AM	L	1	x				$\perp$			_	s_	х				1	$\perp$		х			X	$\perp$	П	х
20	GS/0	Comp-002		2'	2'	3/3/2010	11:09 AM	L	1	X	_			_		L		<u>s</u>	х		_	$\perp$	$\bot$	$\perp$	_	X	Ц	4	X	$\bot$	Ц	X
03	GS/0	Comp-003		3'	3'	3/3/2010	11:34 AM	_	1	×	$\dashv$	$\dashv$	+	+	$\vdash$		$\vdash$	<u>s</u>	X	-	$\dashv$	+	+	+	+	×		$\dashv$	X	+	╂╂	X
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# **Environmental Lab of Texas**

Variance/ Corrective Action Report- Sample Log-In

Client:	Yates Petroleum					•
Date/ Time:	3.4.10 9:35					
Lab ID#:	364311 / 364313			s e		
Initials:	AL					•
				•		
	Sample Receipt	Checklist			N:+  :4:- -	_
#1 Tempera	ature of container/ cooler?	(Yes)	No	.4 °Cl	lient Initials	5 
	container in good condition?	Yes	No	89 0		,
	Seals intact on shipping container/ cooler?	Yes	No	Not Present		
	Seals intact on sample bottles/ container?	Yes	No	Not Present		
	f Custody present?	(Yes)	No	Not Flesent		
	instructions complete of Chain of Custody?	Yes	No			
		Yes	No			
	f Custody signed when relinquished/ received?  f Custody agrees with sample label(s)?	Tes	No	ID written on Cont./ Lid		
	er label(s) legible and intact?	Yes	No			1.72
	e matrix/ properties agree with Chain of Custody?	Yes	No	Not Applicable		Part of the second
	ners supplied by ELOT?	Yes	No	The second secon		
	es in proper container/ bottle?	/Yes	No	See Below		ار این
		Yes	No			
	es properly preserved?	Yes		See Below	A STATE OF THE STA	
	e bottles intact?		No No	The state of the s		ar dital
	vations documented on Chain of Custody?	(Yes	No:			1.0300
	ners documented on Chain of Custody?	(Yes)	<u>No</u>			1.46
	ent sample amount for indicated test(s)?	Yes	<u>No</u>	See Below		<b>.</b>
	pples received within sufficient hold time?	Yes	No	See Below		-
	ntract of sample(s)?	Yes	<u>No</u>	Not Applicable	ļ	-
#20 VOC s	amples have zero headspace?	Yes	No	Not Applicable	L	]
	Variance Docu	mentation				
Contact:	Contacted by:			Date/ Time:		
	,					
Regarding:	,					
Corrective A	ction Taken:					
		<del></del>				
Check all the						
	Client understands and wou					
	Cooling process had begun	shortly after	sampling	event		

