MARTIN YATES, III

FRANK W. YATES

5.P. YATES 1914-2008



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES JR.
ASSISTANT TO THE PRESIDENT

JAMES S. BROWN

JOHN D. PERINI

RECEIVED

NMOCD ARTESIA

March 12, 2010

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

Re:

Zinnia BKC Federal #1

30-015-27939

Section 27, T20S-R3029E 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 January 14, 2010 (8 bbls of produced water with 0 bbls produced water being recovered). The release was from a failed Murphy switch, causing the stock tank to over flow. Samples were taken on 3/2/2010 and sent to an NMOCD approved laboratory for analysis, based on results (enclosed with a sample diagram), TPH & BTEX are below RRAL's for the site ranking of (10) ten, (chlorides for documentation, results indicate decreasing levels); Yates Petroleum Corporation requests closure.

If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher

Environmental Regulatory Agent

/rca

Enclosure(s)

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

RECEIVED	Form C-141 Revised October 10, 2003
APR 25 2(Submit 2	Copies to appropriate
MMOCD ARTESIA	with Rule 116 on back side of form

Release	Notification	and Corre	octive	Action
ICCICASC	L'OUILLEAUOIL	and Corre	CLIVE	ACUUII

			ICI	ease Notifi O		ATOR	orrective r		nitial Report	\boxtimes	Final Report
Name of C	ompany			OGRID Nu		Contact			ilitiai Kepott		rmai Kepon
Yates Petro	oleum Corp	oration		25575		Robert Ash				•	
Address 104 S. 4 TH	Street					Telephone 1 575-748-14					
Facility Na				API Number	r	Facility Typ		- <u>-</u>			
Zinnia BK		‡ 1		30-015-2793	39	Battery					
Surface Ov	vner			Mineral (Owner				ise No.		
Federal				Federal				N.V.	I-83068		
P**-			r. =			N OF RE					
Unit Letter E	Section 27	Township 20S	Range 29E	Feet from the 1980'	Norti	North	Feet from the 910'	East/West L West	ine County Eddy		
	<u></u>	l	L	Latitude 32.	54599	Longitude	<u> 104.06794</u>	<u> </u>			
			,	NAT	URE	OF RELI					
Type of Rele Produced W						Volume of 8 B/PW	Release	. Volu 0 B/F	me Recovered		
Source of Re				···			lour of Occurrent		and Hour of Di	scovery	,
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was immedi	ale Molice C		Yes [No 🛛 Not R	equired		wnom?	٠			
By Whom?		-				Date and H	our			•	
N/A Was a Water	course Reac	hed?				N/A If YES, Vo	lume Impacting	the Watercours	e.		
		🗆	Yes 🗵			N/A					
If a Watercou	urse was Im	pacted, Descri	be Fully.								
Describe Cau				Taken.* ump causing wate	er tople t	o nun ouan M					_1_
Murphy swit	ch falled, no	t activating ti	e water pr	amp causing water	i tank t	o run over. No	o produced water	to recover, pu	mp started on w	ater tai	nk.
Describe Are				en.* ained within bern	ad batt	ami Vantiaali		linaatian as	1		- alvaia - na
for TPH & B	TEX. Chlor	rides will be d	ocumente	d. If results are a	bove R.	RAL's for TPF	& BTEX with	the site ranking	of ten (10), a v	vork pla	an or
corrective act	tion plan Wil	ll be submitted	i. If result	ts are below RRA Water: 50-99' (a	L's for	TPH & BTEX	Wellhood Protes	iking of ten (10)), a Final Repo	rt C-14 urface	I will be Water
Body: >1000	, SITE RA	NKING IS 1	0. Based	on enclosed anal	ytical i	esults (chlori	des documented	, decreasing cl	hlorides) and a	mount	s released,
Yates Petrol	eum Corpo	ration reques	ts closure	is true and compl	ete to t	he hest of my l	(nowledge and 1)	nderstand that	oursuant to NM	OCD r	ules and
regulations al	l operators a	ire required to	report an	d/or file certain re	elease n	otifications an	d perform correc	tive actions for	releases which	may er	ndanger
public health	or the envir	onment. The	acceptance dequately	e of a C-141 repo investigate and re	rt by th mediat	e NMOCD ma e contaminatio	rked as "Final R	eport" does not	relieve the ope	rator of	f liability
or the enviror	iment. In ac	ldition, NMO	CD accept	ance of a C-141 r	eport d	oes not relieve	the operator of	esponsibility for	or compliance v	vith any	y other
federal, state,	or local law	s and/or regu	ations.				OIL COM	CEDVACTO	NI DIVITOR	NT.	
	()	. ()					OIL CON	<u> SEKVAIIC</u>	<u>N DIVISIO</u>	NT/	
Signature:	(Sin)		•		\dashv						
Printed Name	: Robert Asl	her				Approved by I	District Superviso	or: 			
Title: Enviror	nmental Reg	ulatory Agent			-	Approval Date	<u>:</u>	Expirati	on Date:		
E-mail Addre	ss: boba@y:	ntespetroleum	.com	 		Conditions of a	Approval:		Attached		
Date: Friday,				5-748-4217		2RP-					
Attach Addit			rv	· ————————————————————————————————————			· · · · · · · · · · · · · · · · · · ·				

5/21/11

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District I[1301 W. Grand Avenue, Artesia, NM 38210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

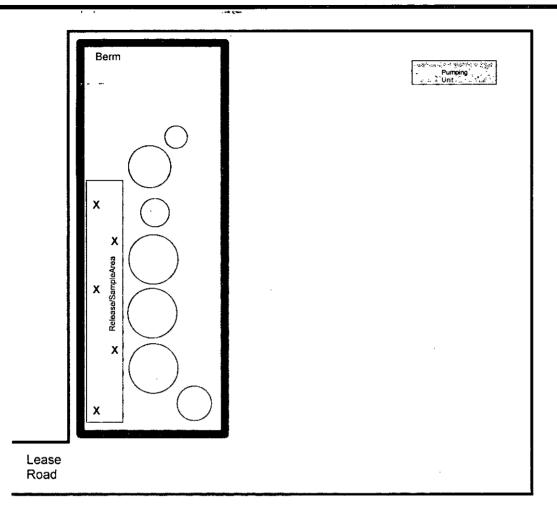
State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

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

				ase Notific	atio	n and Co	rrective A	ction			
		4329	7			TÓR			Initia	l Report 🔲 Fina	l Report
Name of Co Yates Petro		oration		OGRID Nun 25575		Contact Robert Ash	٠,٠			•	ļ
Address		otudon				Telephone	Ñο.				
104 S. 4 TH S Facility Nat				API Number		575-748-14 Facility Typ					
Zinnia BKC		1		30-015-2793	- 1	Battery	e			• _	_
Surface Ow	mer			Mineral C	Wher				Lease !	Vο	
Federal				Federal					NM-83		
				LOCA	ATIO	N OF RE	LEASE				
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						OF REL					
Type of Rele						Volume of				Recovered	
Produced Wa						8 B/PW Date and I-	lour of Occurrence		0 B/PW Date and	Hour of Discovery	
Water Tank Was Immedia	nte Notice C	Siven?				1/14/2010; If YES, To			1/14/201	D; PM	
Was Intifficult	ale Hedde C		Yes 🗌	No 🗵 Not Ro	quircd	N/A	THOM:				
By Whom?		· · · · · · · · · · · · · · · · · · ·				Date and H	lour				
Was a Water	course Read	hed'			- :: -:	If YES, Vo	lume Impacting	the Water	coursé.		
If a Waterro	itse was Im	pacted, Descr	Yes 🗵		<u> </u>	N/A					
N/A											
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							o produced water		er, partip	THE COUNTY OF TH	
Describe Are An approxim	a Affected a ate area of f	and Cleanup A	letion Tak water rem:	en.* sined within bern	ned batti	ery. Vertical	and horizontal de	lineation	samples	will be taken and analysi	s ran
for TPH & B	TEX. Chic	rides will be d	locumente	d. If results are a	bove RI	RAL's for TP	H & BTEX with	the site of	inking of	ten (10), a work plan or	1
submitted rec	questing clos	sure. Depth t	o Ground	Mater: 50-99' (approxi	imately 70'),	X with the site rate Wellhead Protes	ction Arc	en (10), a ea: No, D	Final Report C-141 will istance to Surface Wat	i bc er
Body: >1000	', SITE RA	NKING IS 1	a.								(
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to ti	he best of my	knowledge and u	inderstand	that pur	suant to NMOCD rules :	ınd
public health	or the envir	onment. The	acceptanc	e of a C-141 repo	at by the	e NMQCD m	arked as "Final R	ob "nogs	cs not rel	eases which may endang ieve the operator of liab	liry
should their o	perations h	ave failed to a	dequately	investigate and re	emedian	e contaminati	on that pose a thr	eat to gro	und water	r, surface water, human ompliance with any other	health
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Signature:	(Se)	<u> </u>							11	,	
Printed Narne	:: Robert As	her			,	Approved by	District Supervis	gr: M	14 B	KHALLER-	
Title: Enviror	mental Reg	ulatory Ageni				Approval Date	· 4/31/11	6	xpiration	Dota	
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Date: Monday				575-748-4217			diation per C s. SUBMIT RE				
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							5/2/	Ti.	•	るハバ	1-1





Sample ID	Sample Area	Sample Date	-Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-000.5	Battery Area	3/2/2010	Grab/Auger	6"	ND	ND	47.7	47.7	2010
GS/Comp-001.0	Battery Area	3/2/2010	Grab/Auger	12"	ND	ND	27.4	27.4	1540
GS/Comp-001.5	Battery Area	3/2/2010	Grab/Auger	18"	ND	ND	25.6	25.6	1250

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 70').

All results are ppm. Chloride results are for documentation. BSL - Below Subsurface Level. X - Sample Points



Zinnia BKC Federal #1

30-015-27939

Section 27, T20S-R29E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Laboratories: #364138 & 364139

Report Date: 3/10/2010

Prepared by Robert Asher Environmental Regulatory Agent

Analytical Report 364138

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Zinnia BCK Federal # 1 30-015-27939

10-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)



10-MAR-10



Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St.

Artesia, NM 88210

Reference: XENCO Report No: 364138

Zinnia BCK 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 364138. 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. 364138 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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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 364138



Yates Petroleum Corporation, Artesia, NM

Zinnia BCK Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-000.5	S	Mar-02-10 14:32	6 - 6 In	364138-001
GS/Comp-001.0	S	Mar-02-10 14:50	12 - 12 In	364138-002
GS/Comp-001.5	·s	Mar-02-10 15:06	18 - 18 In	364138-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Zinnia BCK Federal # 1



Project ID:

30-015-27939

Work Order Number: 364138

Report Date: 10-MAR-10

Date Received: 03/03/2010

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, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is

suspected; data not confirmed by re-analysis

Samples affected are: 364138-003.

Batch: LBA-796984 BTEX by EPA 8021

SW8021BM

Batch 796984, 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is

suspected: data not confirmed by re-analysis

Samples affected are: 363830-004 D,364138-002.

SW8021BM....

Batch 796984, Ethylbenzene, o-Xylene RPD is outside the QC limit. This is most likely due to

sample non-homogeneity.

Samples affected are: 364138-002, -001, -003.

Batch: LBA-797201 Percent Moisture

None



Project Id: 30-015-27939 Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 364138 Vates Petroleum Corporation, Artesia, NM

Project Name: Zinnia BCK Federal # 1

Date Received in Lab: Wed Mar-03-10 09:33 am

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

	Lab Id:	364138-001	364138-002	364138-003	
Analysis Donnastal	Field Id:	GS/Comp-000.5	GS/Comp-001.0	GS/Comp-001.5	
Anniyasa wequesteu	Depth:	ul 9-9	12-12 In	18-18 In	
	Matrix:	SOIL	SOIL	SOIL	-
	Sampled:	Mar-02-10 14:32	Mar-02-10 14:50	Mar-02-10 15:06	
BTEX by EPA 8021	Extracted:	Mar-05-10 15:00	Mar-05-10 15:00	Mar-05-10 15:00	
	Analyzed:	Mar-06-10 03:30	Mar-06-10 03:53	Mar-06-10 04:15	
	Units/RL:	mg/kg R.L.	nig/kg RL	mg/kg RL	
Benzene		ND 0.0012	ND 0,0013	ND 0.0013	
Toluene		ND 0.0025	ND 0,0025	ND 0.0026	
Ethylbenzene		ND 0.0012	ND 0.0013	ND 0.0013	
m,p-Xylenes		ND 0.0025	ND 0.0025	ND 0.0026	
o-Xylene		ND 0.0012	ND 0.0013	ND 0.0013	
Xylenes, Total		ND 0.0012	ND 0.0013	ND 0,0013	
Total BTEX	-	ND 0.0012	ND 0,0013	ND 0.0013	
Percent Moisture	Extracted:				
	Analyzed:	Mar-04-10 12:45	Mar-04-10 12:45	Mar-04-10 12:45	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture		20.1 1.00	21.1 1.00	23.3 1.00	
TPH by SW 8015B	Extracted:	Mar-05-10 14:44	Mar-05-10 14:44	Mar-05-10 14:44	
	Analyzed:	Mar-06-10 14:39	Mar-07-10 13:08	Mar-07-10 13;34	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		ND 18.8	0.61 GN	19.7 UD 19.7	
C10-C28 Diesel Range Hydrocarbons		47.7 18.8	27.4 19.0	25.6 19.7	
Total TPH	-	47.7 18.8	27.4 19.0	25.6 19.7	

This analytical report, and the entire date package it represents, has been made for your exclusive and confidential use. The interpretations and results expersaced throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility will make an warranty to the end use of the disc herely presented. Our liability is timited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Allanta - Corpus Christi Since 1990

Odessa Laboratory Manager

į,

Page 5 of 13



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

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	Phone	Fax
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

^{*} Outside XENCO's scope of NELAC Accreditation.

Preservation & # of Containers Matrix III	The property of the part The
C C C C C C C C C C	TPH: 8015B, BTEX: 8021B & Chlorides. Please show ALL results as mg/kg. Thank you.
### FEE POT COMPANY FEE POT	TPH: 8015B, BTEX: 8021B & Chlorides. Please show ALL results as mg/kg. Thank you.
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### FEET CHLORIDES FARE POT CHLORIDES SEPTIMENT	
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npier Signature: boba@yatespetroleum.com Analyzu For.	575-748-4217 Report Format: X Standard
Ephone No. 575-748-4262 Report Format: X Standard TRRP TRRP mpler Signature: ————————————————————————————————————	Artesia, NM 88210
State/Zip: Artesia NM 88210	
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npany Address: 105 South 4th Street "State/Zip: Artesia, NM 88210 pote: 105632 Pote: 105632 Pote: 105632 Pote: 105632 Report Format: X Standard TRRP Lax No: 375-748-4662 potential: boba@yatespetroleum.com Analyze For.	Yales Petroleum Corporation
mpany Name Yales Petroleum Corporation Project #: 30-015-27939 mpany Address: 105 South 4th Street Project Loc: Eddy County "State/Zip: Artesia NM 88210 PO #: 105632 ephione No: 575-748-4217 Fax No: \$75-748-4882 Report Format: X Standard T TRRP T mpler Signature: Analyze For. Analyze For.	NUCELI ASIICE
mpany Name Yales Petroleum Corporation Project #: 30-015-27939 mpany Address: 105 South 4th Street Project Loc: Eddy County //State/Zip: Artesia NM 88210 PO #: 105632 ephione No: 575-748-4217 Fax No: \$75-748-4882 Report Format: X Standard T TRRP T mpler Signature: Analyze For. Analyze For. 27 (M. Co.) 101A: TRRP TOTAL	Gooler # YPC
Project Name: Zinnia BCK Federal #1 Project Name: Zinnia BCK Feder	Fax:
Project Name: Zinnia BCK Federal #1 Project Name: Zinnia BCK Feder	42500 Wast 1.20 East
12800 West 1-20 East Phone: 432-563-1900	b of Texas

TAT brebnet2

Environmental Lab of Texas / Corrective Action Report- Sample Log-In

Client Initals
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Below
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Analytical Report 364139

for

Yates Petroleum Corporation

Project Manager: Robert Asher-

Zinnia BCK Federal # 1 30-015-27939

10-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 (AALII), 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)



10-MAR-10

Project Manager: Robert Asher Yates Petroleum Corporation

105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 364139

Zinnia BCK 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 364139. 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. 364139 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 364139



Yates Petroleum Corporation, Artesia, NM

Zinnia BCK Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-000.5	S	Mar-02-10 14:32	6 - 6 In	364139-001
GS/Comp-001.0	S	Mar-02-10 14:50	12 - 12 In	364139-002
GS/Comp-001.5	S	Mar-02-10 15:06	18 - 18 In	364139-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Zinnia BCK Federal # 1



Project ID:

30-015-27939

Work Order Number: 364139

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

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-796843 Percent Moisture

None -

Batch: LBA-797400 Inorganic Anions by EPA 300

E300MI

Batch 797400, Chloride recovered below QC limits in the Matrix Spike.

Samples affected are: 364139-002, -003, -001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

E300MI

Batch 797400, Chloride RPD is outside the QC limit. This is most likely due to sample non-

homogeneity.

Samples affected are: 364139-002, -003, -001.



Project Id: 30-015-27939 Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 364139

Yates Petroleum Corporation, Artesia, NM

Project Name: Zinnia BCK Federal #1

Date Received in Lab; Wed Mar-03-10 09:33 am

Report Date: 10-MAR-10

Project Manager: Brent Barron, II

	ran ta:	100-661406	200-661-506	500-751 +05	
Analysis Daggered	Field Id:	GS/Comp-000.5	GS/Comp-001.0	GS/Comp-001.5	
Thursten Acquesten	Depth:	ul 9-9	12-12 In	18-18 In	
	Matrix:	SOIL	SOIL	SOIL	
-	Sampled:	Mar-02-10 14:32	Mar-02-10 14:50	Mar-02-10 15:06	
Anions in Soil By EPA 300.0	Extracted:				
	Analyzed:	Mar-10-10 02:20	Mar-10-10 02:20	Mar-10-10 02:20	
	Units/RL:	ıng/kg RL	nig/kg RL	mg/kg . RL	
Chloride	_	2010 105	1540 106	1250 110	
Percent Moisture	Extracted:				
	Analyzed:	Mar-04-10 17:00	Mar-04-10 17:00	Mar-04-10 17:00	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture		20.1 1.00	21.1 1.00	23.3 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 warrang to the end use of the data hereby presented. Our liability is limited to the annount invoiced for this work order unless otherwise agreed to in writing.

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Odessa Laboratory Manager Brent Barron, II

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

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·	Phone	Fax
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

^{*} Outside XENCO's scope of NELAC Accreditation.

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	Phone: 432-563-1800 Fax: 432-563-1713	Zinnia BCK Federal #1	Project #: 30-015-27939	Eddy County	105632	X Standard TRRP		Analyze For.		5H GG	ions (CI, SCA, Alkalın) RR / ESP / CEC etals: As Ag Sa Cd Cr platites mivolaties CEX sets 18/5030 or E'	7S	< >	< :	×										Laboratory Comments: Sample Combiners Integet (公司是) VOCs Free of Headspace?	્ંજ	an oppley(s) Delivered	by Sampler(Client Rep. ? by Couner? UPS DHL	Temperature Upon Receipt:
'RECORD AN		Project Name: 2	Project#:	Project Loc: Eddy County	PO #; 105632	Report Format:			+	1901 108 9001	-Non-Potable Specify C	۵۷ ۹۲ >	\dagger	1	×										XIII	Time Cust	San San	2	9:32 Tem
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CHAIN	12600 West I-20 East Odessa, Texas 79765					975-748-4862	boba@yatespetroleum.com		Preservation & # of Containers		60° HO9 HO9	H :	< >	\ \ \	×										٠.				nn
- * *		Cooler # YPC	- ` .		, . <u>-</u>	Fax No: \$7	e-mail:				belgmeS ami	1914	2.32 FIM	Z:50 PM	3:06 PM 1										Please show ALL results as mg/kg			Č	hea H
f Texas										· ·	baldma2 ata	O COCC	4	4	3/2/2010										& Chlorides.	Received by:		Received by:	Received by ELO
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ental		er	Yates Petroleum Corporation	4th Street	1 88210	217	7277									ŀ							920	JES JRT	TPH: 8015B, BTEX: 8021B	Dafe	03/02/10	Date ———	Date
XENCO-Environmental Lab or		Project Manager: Robert Asher	Company Name Yates Petro	Š	City/State/Zip: Artesia, NM 88210		Inte	3	3040138	324139		FIELD CODE	GS/Comp-uou.c	GS/Comp-001.0	GS/Comp-001.5								Solido tuo Tuo nosa na	ON SEPARATE REPORT		1	PLA WOL		ex
XENC		Proj	Con	Con	ĊijŹ	Telé	San	(lab use only)	ORDER #:		(Auo een gen) # g	v ć	5 6	.7 ₀	33										Special Instructions:	Relinquished by:	Robert Asher	Reimquished by:	Reinquished by:

AND THE PROPERTY OF THE PARTY O

Emirgnmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Variance/ Conective Action Rep	cor- cample	- Log 111	•		
lient lates Petroleum			•		
ate/ Time: 3.3.10 9:33					1
ab ID#: 364138 / 364139				:}]
nitials: AL				•	
Sample Receipt	Checklist			Client Init	ials
#1 Temperature of container/ cooler?	(Yes)	No	3.6 °C		Ī
#2 Shipping container in good condition?	(Yes)	No			
Custody Seals intact on shipping container/ cooler?	Hes	No	Not Present	1	
44 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present		
#5 Chain of Custody present?	(Yes)	No			
#6 Sample instructions complete of Chain of Custody?	Yes	No			
#7 Chain of Custody signed when relinquished/ received?	Y 293	No		İ	
#8 Chain of Custody agrees with sample label(s)?	7es	No	iD written on Cont/Lid		
#9 Container label(s) legible and intact?	Yes	No	Not Applicable		
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No			<u>. </u>
#11 Containers supplied by ELOT?	(Yes)	No			
#12 Samples in proper container/ bottle?	(१९६)	No	See Below		
#13 Samples properly preserved?	₹ (ES)	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?	₹	No			
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	I	
#18 All samples received within sufficient hold time?	Yes	No	See Below	I	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	I	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	T_{-}	J
Contact: Contacted by:	mentation	,	Date/ Time:		The state of the s
Regarding:					
Corrective Action Taken:					
Check all that Apply: See attached e-mail/fax Client understands and wor Cooling process had begun	-		•		