



**CLOSURE REPORT**

**HUNT APO 1**

**4 T21S R34E  
LEA COUNTY, NEW MEXICO**

**January 23, 2007**

*incident - nPAC0713148137  
application - pPAC07*

*RP#1187*

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986



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

S.P. YATES  
CHAIRMAN EMERITUS

JOHN A. YATES  
CHAIRMAN OF THE BOARD

PEYTON YATES  
PRESIDENT

FRANK YATES, JR.  
EXECUTIVE VICE PRESIDENT

JOHN A. YATES, JR.  
SENIOR VICE PRESIDENT

Ms. Pat Caperton  
NMOCD – District 1  
1625 N French Drive  
Hobbs, NM 88240

January 23, 2007

RE: Hunt APO 1  
Unit L, Sec. 4, T21S, R34E  
Lea County, New Mexico



Dear Pat,

Yates Petroleum Corporation would like to submit for your consideration the enclosed closure report for the above captioned well. The closure report is being submitted to comply with section VII termination of Remedial Action of the New Mexico Oil and gas Conservation Division (OCD) *Guidelines for Remediation of Leaks, Spills and Releases*.

Yates has complied with the closure criteria and based on the analytical report, respectfully requests that no further action is required and requests NMOCD to grant final closure.

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

Sincerely,

Sherry Bonham  
Environmental Regulatory Agent

## **INTRODUCTION**

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

## **BACKGROUND**

Yates Petroleum Corporation (Yates) is the operator of the Hunt APO 1 (API 30-025-27135) site. The initial release was the result of a water pump failure. Yates submitted Initial Report Form C-141 on May 16, 2006. A copy of the Initial Report C-141 is included as Attachment A.

## **RECOMMENDED REMEDIAL ACTION LEVELS**

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

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

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

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

## **HISTORY**

Affected soils were contained within the bermed area. A vacuum truck and crew were called in to recover standing fluids. Approximately 2 barrels of fluids were recovered. On September 14, 2006, Sherry Bonham of Yates Petroleum Corporation went to the Hunt APO 1 for the purpose of obtaining confirmation samples. NMOCD – District 1 was given the requested 48 hour notification and the opportunity to witness sampling event. Samples were obtained using a hand auger. The hand auger was cleaned with Alconox® using a hand scrub brush, rinsed with de-ionized water, and allowed to air dry before beginning each boring. The soil samples were collected directly from the hand auger bucket, placed into

clean, sample jars provided by the analytical laboratory, and placed on ice. Samples were delivered to Environmental Lab of Texas who performed the chemical analyses. The samples were analyzed for Chlorides, TPH by EPA Method 8015B and BTEX by EPA Method 8021B. After reporting sample results to Mr. Larry Johnson NMOCD-District 1 via phone call on October 10, 2006, Mr. Johnson requested additional sampling. The additional sampling was conducted by Mr. Eb Taylor of Talon LPE on October 30, 2006. Mr. Taylor could auger only to a depth of two feet. At that point, refusal was encountered. This refusal was due to encountering a layer of rock. A copy of the laboratory report as well as the sample point diagram is included as Attachment B.

#### **CLOSURE REQUEST**

Given the site ranking as zero, the soil analyses information for TPH and BTEX do not exceed this criteria. Chloride results are submitted for information purposes. Yates Petroleum Corporation respectfully requests this site be closed and no further actions taken. Included is a Final Report C-141 requesting closure.

Respectfully,

A handwritten signature in black ink, appearing to read 'Sherry Bonham', with a stylized, flowing script.

Sherry Bonham  
Environmental Regulatory Agent

## **Attachment A**

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

Form C-141  
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Yates Petroleum Corporation	Contact	Sherry Bonham
Address	105 S 4 <sup>th</sup>	Telephone No.	505.748.1471
Facility Name	Hunt APO State 1 30 025 27135	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner	State	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	4	21S	34E	2310	SOUTH	660	WEST	LEA

Latitude 32.50675 Longitude 103.48073

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 BBL P/W	Volume Recovered	2 BBL P/W
Source of Release	Water Pump Failure	Date and Hour of Occurrence	5/2/06 PM	Date and Hour of Discovery	5/2/06 PM
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	N/A		
By Whom?	N/A	Date and Hour	N/A		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Release was caused by corrosion on inside of 3" line that ate through pipe causing a hole in pipe. Pumper shut in well and shut down equipment. Vacuum truck and crew called in. 3" line repaired.

Describe Area Affected and Cleanup Action Taken.\*

Hole in pipe resulted in produced water release within approximately 20' X 15' bermed area. Vacuum truck and crew called in to vacuum standing fluids. Will assess site for further actions.

Site Ranking: 10

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: *Sherry Bonham*

Printed Name: Sherry Bonham

Approved by District Supervisor:

Title: Environmental Regulatory Agent Trainee

Approval Date:

Expiration Date:

E-mail Address: sherryb@ypcnm.com

Conditions of Approval:

Attached ☐

Date: 5/16/06

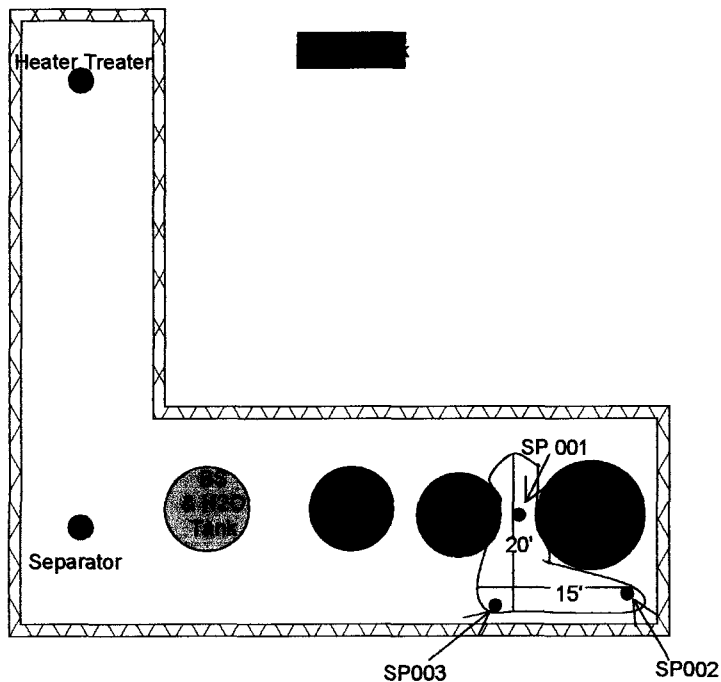
Phone: 505.748.1471

\* Attach Additional Sheets If Necessary

**Attachment B**



Sample Point	Date	GPS
Hunt001	9/14/06	N32.50635 W103.48174
Hunt002	9/14/06	N32.50632 W103.48177
Hunt003	9/14/06	N32.50634 W103.48180
Background	9/14/06	N32.50676 W103.48228
SP1	10/30/06	
SP2	10/30/06	
SP3	10/30/06	



HIGHWAY 176



Hunt APO State 1

Sec. 4 T21S R34E

Lea County, NM

**SPILL SITE DIAGRAM**  
**RELEASE DATE: MAY 2, 2006**

(Not to Scale)



## New Mexico Office of the State Engineer

## POD Reports and Downloads

*Shunt APO State 1*

Township: 21S Range: 34E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic  
☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

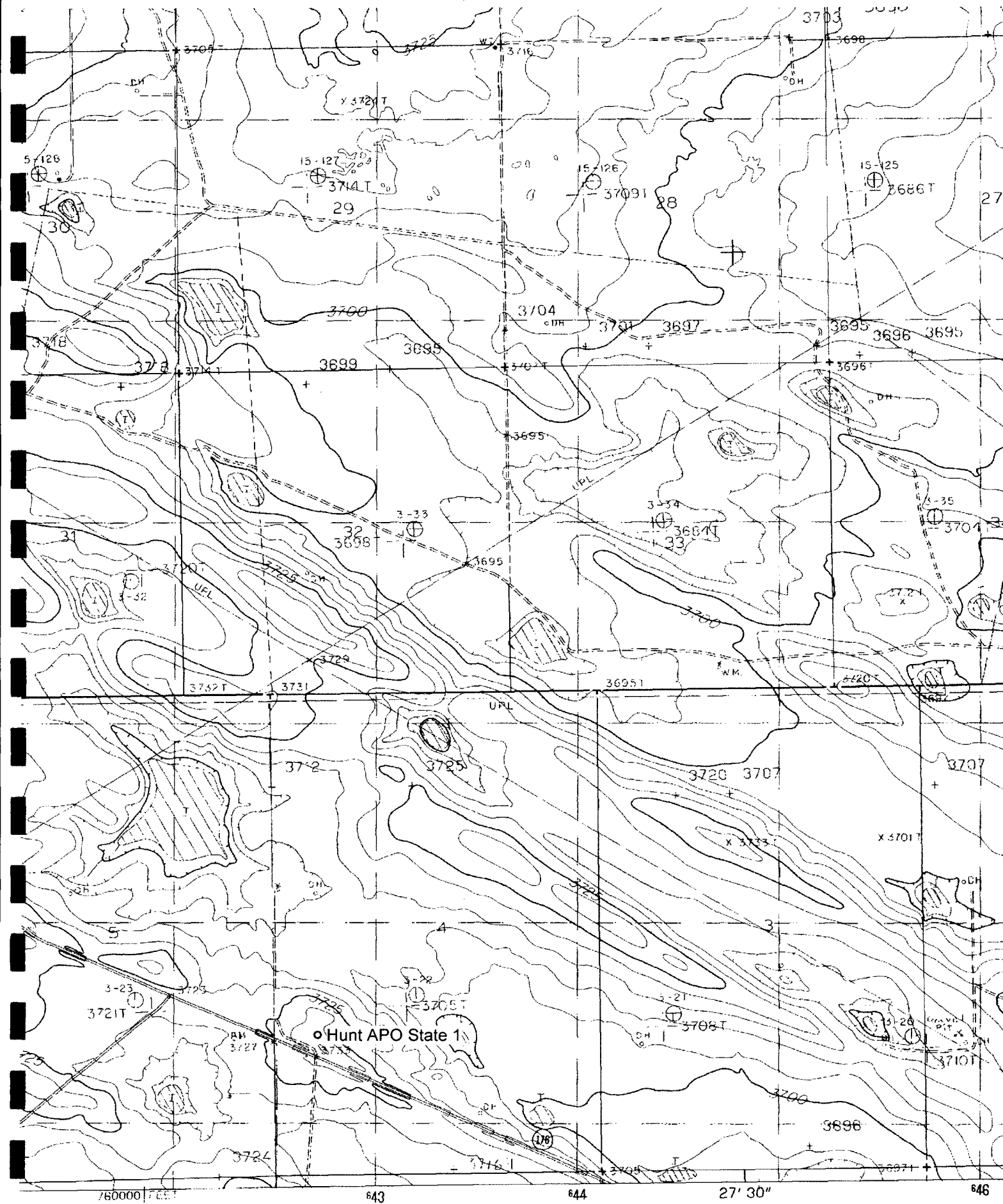
iWATERS Menu

Help

## AVERAGE DEPTH OF WATER REPORT 01/08/2007

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	21S	34E	06				1	112	112	112
CP	21S	34E	21				2	110	128	119

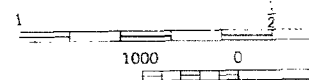
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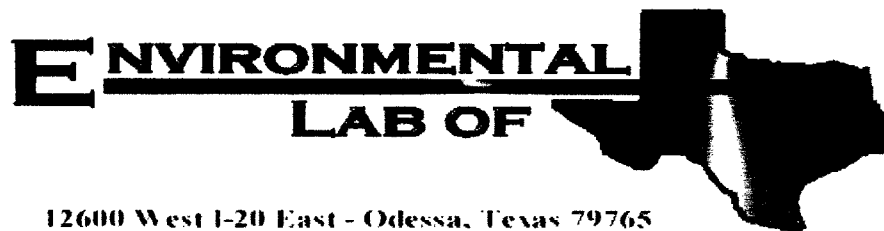


BY THE UNITED STATES GEOLOGICAL SURVEY  
USGS, NOS/NOAA

FROM AERIAL PHOTOGRAPHS TAKEN 1978

'Monument SW; NM' Scale: 1" = 0.379Mi 610M 2,000Ft, 1 Mi = 2.640", 1 cm = 240M





## Analytical Report

**Prepared for:**

Sherry Bonham

Yates Petroleum Corp.

105 S. Fourth St.

Artesia, NM 88210

Project: Hunt APO State 1

Project Number: L-4-T21S-R34E

Location: Lea County, NM

Lab Order Number: 6I15003

Report Date: 09/21/06

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

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Hunt001 10"	6I15003-01	Soil	09/14/06 11:20	09-15-2006 09:45
Hunt002 10"	6I15003-02	Soil	09/14/06 11:45	09-15-2006 09:45
Hunt003 11"	6I15003-03	Soil	09/14/06 12:00	09-15-2006 09:45
HuntBG004 8"	6I15003-04	Soil	09/14/06 12:30	09-15-2006 09:45

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

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Hunt001 10" (6115003-01) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI61509	09/15/06	09/18/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EI61506	09/15/06	09/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.0 %	70-130		"	"	"	"	
<b>Hunt002 10" (6115003-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI61509	09/15/06	09/15/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EI61506	09/15/06	09/16/06	EPA 8015B	
Carbon Ranges >C10-C28	J [6.52]	10.0	"	"	"	"	"	"	J
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.6 %	70-130		"	"	"	"	
<b>Hunt003 11" (6115003-03) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI61509	09/15/06	09/15/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0401	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0477	0.0250	"	"	"	"	"	"	
Xylene (o)	J [0.0189]	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		85.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C10	J [8.59]	10.0	mg/kg dry	1	EI61506	09/15/06	09/16/06	EPA 8015B	J
Carbon Ranges >C10-C28	1170	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	1170	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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

Project: Hunt APO State 1  
Project Number: L-4-121S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Hunt003 11" (6115003-03) Soil</b>									
Surrogate: 1-Chlorooctane		102 %	70-130		EI61506	09/15/06	09/16/06	EPA 8015B	
Surrogate: 1-Chlorooctadecane		120 %	70-130		"	"	"	"	
<b>HuntBG004 8" (6115003-04) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EI61509	09/15/06	09/15/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EI61506	09/15/06	09/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-130		"	"	"	"	

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

Project: Hunt APO State 1  
Project Number: L-4-121S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Hunt001 10" (6115003-01) Soil</b>									
% Moisture	12.0	0.1	%	1	EI61808	09/15/06	09/18/06	% calculation	
<b>Hunt002 10" (6115003-02) Soil</b>									
% Moisture	12.2	0.1	%	1	EI61808	09/15/06	09/18/06	% calculation	
<b>Hunt003 11" (6115003-03) Soil</b>									
% Moisture	14.2	0.1	%	1	EI61808	09/15/06	09/18/06	% calculation	
<b>HuntBG004 8" (6115003-04) Soil</b>									
% Moisture	9.3	0.1	%	1	EI61808	09/15/06	09/18/06	% calculation	

Environmental Lab of Texas

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

Project: Hunt APO State 1  
Project Number: L-4-121S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI61506 - Solvent Extraction (GC)**

**Blank (EI61506-BLK1)**

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C10	ND	10.0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	"							
Total Carbon Range C6-C28	ND	10.0	"							
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130			

**LCS (EI61506-BS1)**

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C10	570	10.0	mg/kg wet	500		114	75-125			
Carbon Ranges >C10-C28	428	10.0	"	500		85.6	75-125			
Total Carbon Range C6-C28	998	10.0	"	1000		99.8	75-125			
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	48.4		"	50.0		96.8	70-130			

**Calibration Check (EI61506-CCV1)**

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C10	216		mg/kg	250		86.4	80-120			
Carbon Ranges >C10-C28	295		"	250		118	80-120			
Total Carbon Range C6-C28	511		"	500		102	80-120			
Surrogate: 1-Chlorooctane	59.3		"	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	55.1		"	50.0		110	70-130			

**Matrix Spike (EI61506-MS1)**

Source: 6I15001-01

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C10	589	10.0	mg/kg dry	528	ND	112	75-125			
Carbon Ranges >C10-C28	427	10.0	"	528	ND	80.9	75-125			
Total Carbon Range C6-C28	1020	10.0	"	1060	ND	96.2	75-125			
Surrogate: 1-Chlorooctane	61.2		mg/kg	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	52.7		"	50.0		105	70-130			

**Matrix Spike Dup (EI61506-MSD1)**

Source: 6I15001-01

Prepared: 09/15/06 Analyzed: 09/16/06

Carbon Ranges C6-C10	609	10.0	mg/kg dry	528	ND	115	75-125	3.34	20	
Carbon Ranges >C10-C28	452	10.0	"	528	ND	85.6	75-125	5.69	20	
Total Carbon Range C6-C28	1060	10.0	"	1060	ND	100	75-125	3.85	20	
Surrogate: 1-Chlorooctane	61.8		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	54.0		"	50.0		108	70-130			

Environmental Lab of Texas

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105 S. Fourth St.  
Artesia NM, 88210

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI61509 - EPA 5030C (GC)**

**Blank (EI61509-BLK1)**

Prepared & Analyzed: 09/15/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	36.8		ug/kg	40.0		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			

**LCS (EI61509-BS1)**

Prepared & Analyzed: 09/15/06

Benzene	1.36	0.0250	mg/kg wet	1.25		109	80-120			
Toluene	1.15	0.0250	"	1.25		92.0	80-120			
Ethylbenzene	1.21	0.0250	"	1.25		96.8	80-120			
Xylene (p/m)	2.48	0.0250	"	2.50		99.2	80-120			
Xylene (o)	1.20	0.0250	"	1.25		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.8		ug/kg	40.0		87.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

**Calibration Check (EI61509-CCV1)**

Prepared: 09/15/06 Analyzed: 09/18/06

Benzene	52.3		ug/kg	50.0		105	80-120			
Toluene	46.8		"	50.0		93.6	80-120			
Ethylbenzene	45.0		"	50.0		90.0	80-120			
Xylene (p/m)	93.1		"	100		93.1	80-120			
Xylene (o)	45.8		"	50.0		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.5		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	33.8		"	40.0		84.5	80-120			

**Matrix Spike (EI61509-MS1)**

Source: 6I15001-01

Prepared: 09/15/06 Analyzed: 09/18/06

Benzene	1.43	0.0250	mg/kg dry	1.32	ND	108	80-120			
Toluene	1.22	0.0250	"	1.32	ND	92.4	80-120			
Ethylbenzene	1.26	0.0250	"	1.32	ND	95.5	80-120			
Xylene (p/m)	2.58	0.0250	"	2.64	ND	97.7	80-120			
Xylene (o)	1.22	0.0250	"	1.32	ND	92.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/kg	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.4		"	40.0		91.0	80-120			

Environmental Lab of Texas

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Page 6 of 9

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

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

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

**Batch EI61509 - EPA 5030C (GC)**

**Matrix Spike Dup (EI61509-MSD1)**

**Source: 6I15001-01**

**Prepared: 09/15/06 Analyzed: 09/18/06**

Benzene	1.46	0.0250	mg/kg dry	1.32	ND	111	80-120	2.74	20	
Toluene	1.24	0.0250	"	1.32	ND	93.9	80-120	1.61	20	
Ethylbenzene	1.27	0.0250	"	1.32	ND	96.2	80-120	0.730	20	
Xylene (p/m)	2.64	0.0250	"	2.64	ND	100	80-120	2.33	20	
Xylene (o)	1.25	0.0250	"	1.32	ND	94.7	80-120	2.46	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	39.8		ug/kg	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.8	80-120			

Environmental Lab of Texas

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Page 7 of 9

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

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

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

**Batch EI61808 - General Preparation (Prep)**

**Blank (EI61808-BLK1)**

Prepared & Analyzed: 09/18/06

% Solids 99.8 %

**Duplicate (EI61808-DUP1)**

Source: 6I15001-01

Prepared & Analyzed: 09/18/06

% Solids 94.4 % 94.7 0.317 20

Environmental Lab of Texas

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Page 8 of 9

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

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

### Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date: 9/21/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 9 of 9

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

Project Name: Hunt APO State 1

Project #: L-4-T21S-R34E

**Project Loc:** Lea County

PO #: 1032420

Fax No: 505-748-4585

**Report Format:**

e-mail: sherryb@vpcnm.com

[illegible]

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

Client: Vates Pet.  
 Date/ Time: 9/15/06 9:45  
 Lab ID #: 6E150  
 Initials: CK

**Sample Receipt Checklist**

				Client Initials
Temperature of container/ cooler?	Yes	No	<u>60 4.5° C</u>	
Shipping container in good condition?	<u>Yes</u>	No		
Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
Chain of Custody present?	<u>Yes</u>	No		
Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
Containers supplied by ELOT?	<u>Yes</u>	No		
Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
Samples properly preserved?	<u>Yes</u>	No	See Below	
Sample bottles intact?	<u>Yes</u>	No		
Preservations documented on Chain of Custody?	<u>Yes</u>	No		
Containers documented on Chain of Custody?	<u>Yes</u>	No		
Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

**Variance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

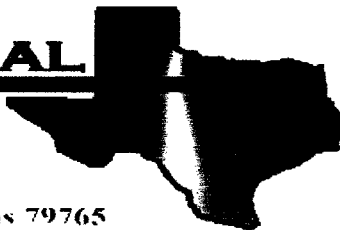
Regarding: \_\_\_\_\_

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

# **E**NVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Sherry Bonham

Yates Petroleum Corp.

105 S. Fourth St.

Artesia, NM 88210

Project: Hunt APO State 1

Project Number: L-4-T21S-R34E

Location: Lea County, NM

Lab Order Number: 6I15003

Report Date: 09/21/06

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

Project: Hunt APO State 1  
Project Number: L-4-T21S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IIunt001 10"	6I15003-01	Soil	09/14/06 11:20	09-15-2006 09:45
Hunt002 10"	6I15003-02	Soil	09/14/06 11:45	09-15-2006 09:45
IIunt003 11"	6I15003-03	Soil	09/14/06 12:00	09-15-2006 09:45
HuntBG004 8"	6I15003-04	Soil	09/14/06 12:30	09-15-2006 09:45



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

Project: Hunt APO State 1  
Project Number: L-4-121S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Hunt001 10" (6I15003-01) Soil</b>									
Chloride	766	20.0	mg/kg Wet	2	EI61817	09/18/06	09/18/06	SW 846 9253	
<b>Hunt002 10" (6I15003-02) Soil</b>									
Chloride	277	20.0	mg/kg Wet	2	EI61817	09/18/06	09/18/06	SW 846 9253	
<b>Hunt003 11" (6I15003-03) Soil</b>									
Chloride	596	20.0	mg/kg Wet	2	EI61817	09/18/06	09/18/06	SW 846 9253	
<b>HuntBG004 8" (6I15003-04) Soil</b>									
Chloride	ND	20.0	mg/kg Wet	2	EI61817	09/18/06	09/18/06	SW 846 9253	

Environmental Lab of Texas

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Page 2 of 4

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

Project: Hunt APO State 1  
Project Number: L-4-121S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

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

**Batch EI61817 - Water Extraction**

**Blank (EI61817-BLK1)**

Prepared & Analyzed: 09/18/06

Chloride ND 5.00 mg/kg Wet

**LCS (EI61817-BS1)**

Prepared & Analyzed: 09/18/06

Chloride 90.4 mg/kg 100 90.4 80-120

**Matrix Spike (EI61817-MS1)**

Source: 6I15001-01

Prepared & Analyzed: 09/18/06

Chloride 510 10.0 mg/kg Wet 500 10.6 99.9 80-120

**Matrix Spike Dup (EI61817-MSD1)**

Source: 6I15001-01

Prepared & Analyzed: 09/18/06

Chloride 500 10.0 mg/kg Wet 500 10.6 97.9 80-120 1.98 20

**Reference (EI61817-SRM1)**

Prepared & Analyzed: 09/18/06

Chloride 50.0 5.00 mg/kg Wet 50.0 100 80-120

Environmental Lab of Texas

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Page 3 of 4

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

Project: Hunt APO State 1  
Project Number: L-4-121S-R34E  
Project Manager: Sherry Bonham

Fax: (505) 748-4662

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

9/21/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 4 of 4

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

Project Name: Hunt APO State 1

Project #: L-4-T21S-R34E

**Project Loc: Lea County**

PO #: 1032420

Fax No: 505-748-4585

e-mail: [sherryb@vpcnm.com](mailto:sherryb@vpcnm.com)

4029/055

[illegible]

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Vates Pct.  
 Date/ Time: 9/15/06 9:45  
 Lab ID #: W1150  
 Initials: CK

### Sample Receipt Checklist

Client Initials

1	Temperature of container/ cooler?	Yes	No	<u>60 9.5°C</u>	
2	Shipping container in good condition?	<u>Yes</u>	No		
3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
5	Chain of Custody present?	<u>Yes</u>	No		
6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
11	Containers supplied by ELOT?	<u>Yes</u>	No		
12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
13	Samples properly preserved?	<u>Yes</u>	No	See Below	
14	Sample bottles intact?	<u>Yes</u>	No		
15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
19	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

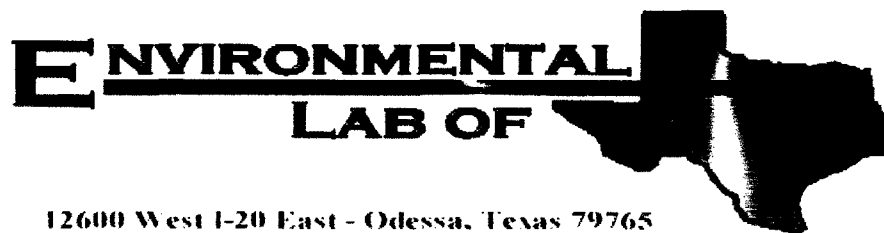
### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

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

**Prepared for:**

Eb Taylor

Talon LPE- Hobbs

318 East Taylor Street

Hobbs, NM 88240

Project: Hunt APO #1

Project Number: YATESP030SPL

Location: Lea County, NM

Lab Order Number: 6J30008

Report Date: 11/03/06

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1 24"	6J30008-01	Soil	10/30/06 07:47	10-30-2006 11:20
SP-2 24"	6J30008-02	Soil	10/30/06 08:00	10-30-2006 11:20
SP-3 24"	6J30008-03	Soil	10/30/06 08:20	10-30-2006 11:20

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-1 24" (6J30008-01) Soil</b>									
Chloride	<b>2320</b>	50.0	mg/kg	100	EK60101	11/01/06	11/01/06	EPA 300.0	
<b>SP-2 24" (6J30008-02) Soil</b>									
Chloride	<b>2160</b>	50.0	mg/kg	100	EK60101	11/01/06	11/01/06	EPA 300.0	
<b>SP-3 24" (6J30008-03) Soil</b>									
Chloride	<b>2960</b>	50.0	mg/kg	100	EK60101	11/01/06	11/01/06	EPA 300.0	

Environmental Lab of Texas

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Page 2 of 4



Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YAT/ESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EK60101 - Water Extraction</b>										
<b>Blank (EK60101-BLK1)</b>				Prepared & Analyzed: 11/01/06						
Chloride	ND	0.500	mg/kg							
<b>LCS (EK60101-BS1)</b>				Prepared & Analyzed: 11/01/06						
Chloride	11.0	0.500	mg/kg	10.0		110	80-120			
<b>Calibration Check (EK60101-CCV1)</b>				Prepared & Analyzed: 11/01/06						
Chloride	10.8		mg/L	10.0		108	80-120			
<b>Duplicate (EK60101-DUP1)</b>				Source: 6J30008-01		Prepared & Analyzed: 11/01/06				
Chloride	2290	50.0	mg/kg		2320			1.30	20	
<b>Duplicate (EK60101-DUP2)</b>				Source: 6J30008-03		Prepared & Analyzed: 11/01/06				
Chloride	3130	50.0	mg/kg		2960			5.58	20	
<b>Matrix Spike (EK60101-MS1)</b>				Source: 6J30008-01		Prepared & Analyzed: 11/01/06				
Chloride	3600	50.0	mg/kg	1000	2320	128	80-120			M1
<b>Matrix Spike (EK60101-MS2)</b>				Source: 6J30008-03		Prepared & Analyzed: 11/01/06				
Chloride	4470	50.0	mg/kg	1000	2960	151	80-120			M1

Environmental Lab of Texas

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Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

### Notes and Definitions

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

11/3/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Talon LPE  
 Date/ Time: 10-30-06 @ 1120  
 Lab ID #: 6530008  
 Initials: JMM

### Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	3.0 °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample Instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by EL0T?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

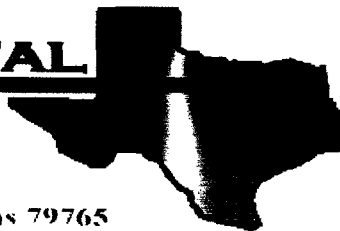
Corrective Action Taken:

\_\_\_\_\_  
 \_\_\_\_\_

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

# ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Eb Taylor

Talon LPE- Hobbs

318 East Taylor Street

Hobbs, NM 88240

Project: Hunt APO #1

Project Number: YATESP030SPL

Location: Lea County, NM

Lab Order Number: 6J30008

Report Date: 11/03/06

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1 24"	6J30008-01	Soil	10/30/06 07:47	10-30-2006 11:20
SP-2 24"	6J30008-02	Soil	10/30/06 08:00	10-30-2006 11:20
SP-3 24"	6J30008-03	Soil	10/30/06 08:20	10-30-2006 11:20

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-1 24" (6J30008-01) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ63103	10/30/06	10/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ63106	"	10/31/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		128 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		82.4 %	70-130		"	"	"	"	
<b>SP-2 24" (6J30008-02) Soil</b>									
Benzene	ND	0.0250	mg/kg dry	25	EJ63103	10/30/06	10/31/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	80-120		"	"	"	"	
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EJ63106	"	10/31/06	EPA 8015B	
Carbon Ranges >C10-C28	19.3	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	19.3	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		126 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.2 %	70-130		"	"	"	"	
<b>SP-3 24" (6J30008-03) Soil</b>									
Benzene	0.252	0.0250	mg/kg dry	25	EJ63103	10/30/06	10/31/06	EPA 8021B	
Toluene	1.10	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.631	0.0250	"	"	"	"	"	"	
Xylene (p/m)	3.47	0.0250	"	"	"	"	"	"	
Xylene (o)	1.17	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		134 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		134 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C10	361	10.0	mg/kg dry	1	EJ63106	"	10/31/06	EPA 8015B	
Carbon Ranges >C10-C28	1540	10.0	"	"	"	"	"	"	
Total Carbon Range C6-C28	1900	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 9

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-3 24" (6J30008-03) Soil</b>									
Surrogate: 1-Chlorooctane		129 %	70-130		EJ63106	10/30/06	10/31/06	EPA 8015B	
Surrogate: 1-Chlorooctadecane		106 %	70-130		"	"	"	"	



Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4638

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SP-1 24" (6J30008-01) Soil</b>									
% Moisture	11.3	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
<b>SP-2 24" (6J30008-02) Soil</b>									
% Moisture	11.7	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	
<b>SP-3 24" (6J30008-03) Soil</b>									
% Moisture	12.1	0.1	%	1	EJ63101	10/30/06	10/31/06	% calculation	

Environmental Lab of Texas

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Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ63103 - EPA 5030C (GC)**

**Blank (EJ63103-BLK1)**

Prepared & Analyzed: 10/30/06

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/kg	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	41.1		"	40.0		103	80-120			

**LCS (EJ63103-BS1)**

Prepared & Analyzed: 10/30/06

Benzene	1.44	0.0250	mg/kg wet	1.25		115	80-120			
Toluene	1.38	0.0250	"	1.25		110	80-120			
Ethylbenzene	1.45	0.0250	"	1.25		116	80-120			
Xylene (p/m)	2.93	0.0250	"	2.50		117	80-120			
Xylene (o)	1.44	0.0250	"	1.25		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.0		ug/kg	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	80-120			

**Calibration Check (EJ63103-CCV1)**

Prepared: 10/30/06 Analyzed: 10/31/06

Benzene	52.3		ug/kg	50.0		105	80-120			
Toluene	45.6		"	50.0		91.2	80-120			
Ethylbenzene	46.8		"	50.0		93.6	80-120			
Xylene (p/m)	90.5		"	100		90.5	80-120			
Xylene (o)	41.3		"	50.0		82.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.8		"	40.0		87.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.4		"	40.0		83.5	80-120			

**Matrix Spike (EJ63103-MS1)**

Source: 6J30008-02

Prepared: 10/30/06 Analyzed: 10/31/06

Benzene	1.52	0.0250	mg/kg dry	1.42	ND	107	80-120			
Toluene	1.43	0.0250	"	1.42	ND	101	80-120			
Ethylbenzene	1.40	0.0250	"	1.42	ND	98.6	80-120			
Xylene (p/m)	3.11	0.0250	"	2.83	ND	110	80-120			
Xylene (o)	1.21	0.0250	"	1.42	ND	85.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.4		ug/kg	40.0		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.8		"	40.0		102	80-120			

Environmental Lab of Texas

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Page 5 of 9

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ63103 - EPA 5030C (GC)**

Matrix Spike Dup (EJ63103-MSD1)		Source: 6J30008-02		Prepared: 10/30/06 Analyzed: 10/31/06						
Benzene	1.58	0.0250	mg/kg dry	1.42	ND	111	80-120	3.67	20	
Toluene	1.50	0.0250	"	1.42	ND	106	80-120	4.83	20	
Ethylbenzene	1.54	0.0250	"	1.42	ND	108	80-120	9.10	20	
Xylene (p/m)	3.22	0.0250	"	2.83	ND	114	80-120	3.57	20	
Xylene (o)	1.27	0.0250	"	1.42	ND	89.4	80-120	4.81	20	
Surrogate: a,a,a-Trifluorotoluene	34.3		ug/kg	40.0		85.8	80-120			
Surrogate: 4-Bromofluorobenzene	44.0		"	40.0		110	80-120			

**Batch EJ63106 - Solvent Extraction (GC)**

Blank (EJ63106-BLK1)		Prepared: 10/30/06 Analyzed: 10/31/06								
Carbon Ranges C6-C10	ND	10.0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	"							
Total Carbon Range C6-C28	ND	10.0	"							
Surrogate: 1-Chlorooctane	64.1		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	53.8		"	50.0		108	70-130			

LCS (EJ63106-BS1)		Prepared: 10/30/06 Analyzed: 10/31/06								
Carbon Ranges C6-C10	556	10.0	mg/kg wet	500		111	75-125			
Carbon Ranges >C10-C28	451	10.0	"	500		90.2	75-125			
Total Carbon Range C6-C28	1010	10.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	64.2		mg/kg	50.0		128	70-130			
Surrogate: 1-Chlorooctadecane	42.2		"	50.0		84.4	70-130			

Calibration Check (EJ63106-CCV1)		Prepared: 10/30/06 Analyzed: 10/31/06								
Carbon Ranges C6-C10	510		mg/kg	500		102	80-120			
Carbon Ranges >C10-C28	429		"	500		85.8	80-120			
Total Carbon Range C6-C28	939		"	1000		93.9	80-120			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: 1-Chlorooctadecane	104		"	100		104	70-130			

Environmental Lab of Texas

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Page 6 of 9

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ63106 - Solvent Extraction (GC)**

Matrix Spike (EJ63106-MS1)		Source: 6J27010-03		Prepared: 10/30/06		Analyzed: 10/31/06				
Carbon Ranges C6-C10	636	10.0	mg/kg dry	600	ND	106	75-125			
Carbon Ranges >C10-C28	499	10.0	"	600	ND	83.2	75-125			
Total Carbon Range C6-C28	1130	10.0	"	1200	ND	94.2	75-125			
Surrogate: 1-Chlorooctane	62.3		mg/kg	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	36.4		"	50.0		72.8	70-130			
Matrix Spike Dup (EJ63106-MSD1)		Source: 6J27010-03		Prepared: 10/30/06		Analyzed: 10/31/06				
Carbon Ranges C6-C10	635	10.0	mg/kg dry	600	ND	106	75-125	0.157	20	
Carbon Ranges >C10-C28	500	10.0	"	600	ND	83.3	75-125	0.200	20	
Total Carbon Range C6-C28	1130	10.0	"	1200	ND	94.2	75-125	0.00	20	
Surrogate: 1-Chlorooctane	61.8		mg/kg	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		73.0	70-130			

Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EJ63101 - General Preparation (Prep)**

**Blank (EJ63101-BLK1)** Prepared: 10/30/06 Analyzed: 10/31/06

% Solids 100 %

**Duplicate (EJ63101-DUP1)** Source: 6J26007-01 Prepared: 10/30/06 Analyzed: 10/31/06

% Solids 94.0 % 93.9 0.106 20

**Duplicate (EJ63101-DUP2)** Source: 6J30001-04 Prepared: 10/30/06 Analyzed: 10/31/06

% Solids 94.2 % 94.4 0.212 20

**Duplicate (EJ63101-DUP3)** Source: 6J30014-01 Prepared: 10/30/06 Analyzed: 10/31/06

% Solids 90.0 % 90.1 0.111 20

Environmental Lab of Texas

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Talon LPE- Hobbs  
318 East Taylor Street  
Hobbs NM, 88240

Project: Hunt APO #1  
Project Number: YATESP030SPL  
Project Manager: Eb Taylor

Fax: (505) 393-4658

### Notes and Definitions

S-04      The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

dry      Sample results reported on a dry weight basis

RPD      Relative Percent Difference

LCS      Laboratory Control Spike

MS      Matrix Spike

Dup      Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

11/3/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

Environmental Lab of Texas

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### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

SB Taylor

Project Name: **HUNT APO** #2

334

Project #: Y4735P 030 SP2

318 E. Taylor

Project Loc: **EX County, NM**

5825 W 88th St

PO#:

32 238-6388

Fax No.:

505 393-4658

**Report Format:**

15

**e-mail:**

e Taylor e Thompson. Con

(lab use only)

ORDER # 53003

[illegible]

**Special instructions:**

CHLORIDES NEED TO BE ON SEPARATE REPORT

**Refiniquished by:**

Date	Time
------	------

**Received by:**

Relinquished by:

Date	Time
------	------

Received by:

**Relinquished by:**

Date	Time
------	------

Received by ELOI:

Date	Time
------	------

17

100

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

Client: Talon LPE  
Date/ Time: 10-30 06 @ 1120  
Lab ID #: 6530008  
Initials: JMM

**Sample Receipt Checklist**

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

**Variance Documentation**

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

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



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

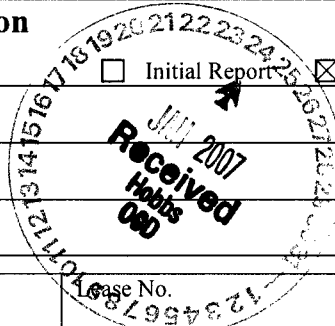
Form C-141  
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Name of Company YATES PETROLEUM CORPORATION	OGRID Number 25575	Contact SHERRY BONHAM
Address 105 S 4 <sup>TH</sup> STREET		Telephone No. 505.748.1471
Facility Name HUNT APO STATE 1	API Number 30-025-27135	Facility Type TANK BATTERY
Surface Owner STATE	Mineral Owner STATE	Lease No. 123456789



LOCATION OF RELEASE

Unit Letter L	Section 4	Township 21S	Range 34E	Feet from the 2310	North/South Line SOUTH	Feet from the 660	East/West Line WEST	County LEA
------------------	--------------	-----------------	--------------	-----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.50675 Longitude 103.48073

NATURE OF RELEASE

Type of Release PRODUCED WATER	Volume of Release 15 BBL P/W	Volume Recovered 2 BBL P/W
Source of Release WATER PUMP FAILURE	Date and Hour of Occurrence 5/2/06 PM	Date and Hour of Discovery 5/2/06 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* RELEASE WAS CAUSED BY CORROSION ON INSIDE OF 3" LINE THAT ATE THROUGH PIPE CAUSING A HOLE IN PIPE. PUMPER SHUT IN WELL AND SHUT DOWN EQUIPMENT. VACUUM TRUCK AND CREW CALLED IN. 3" LINE REPAIRED.		
Describe Area Affected and Cleanup Action Taken.* HOLE IN PIPE RESULTED IN PRODUCED WATER RELEASE AFFECTING APPROXIMATELY 20' X 15' AREA. ALL FLUIDS WERE CONTAINED WITHIN THE BERMED AREA. VACUUM TRUCK AND CREW CALLED IN TO VACUUM STANDING FLUIDS. DEPTH TO GROUND WATER: >100'; WELLHEAD PROTECTION AREA: NO; DISTANCE TO SURFACE WATER BODY: >1000'. SITE RANKING: 0. <b>FINAL REPORT. REQUESTING CLOSURE TO INCIDENT.</b>		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		OIL CONSERVATION DIVISION	
Printed Name: Sherry Bonham		Approved by District Supervisor:	
Title: Environmental Regulatory Agent		Approval Date: 5.4.07	Expiration Date: —
E-mail Address: sherryb@ypcnm.com		Conditions of Approval:	
Date: January 22, 2007 Phone: 505.748.1471		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

FUTURE SAMPLE SUBMITTALS  
WILL REQUIRE TABLE  
FORM FORMAT,

RP# 1187