

APR 30 2009

# Closure Report

Prepared for  
Oxy USA

**Jones Canyon Satellite**  
Eddy County, NM

2RP-268

Prepared by

***Elke Environmental, Inc.***

P.O. Box 14167 Odessa, TX 79768  
Phone (432) 366-0043 Fax (432) 366-0884

# *Elke Environmental, Inc.*

P.O. Box 14167 Odessa, TX 79768  
Phone (432) 366-0043 Fax (432) 366-0884

April 22, 2009

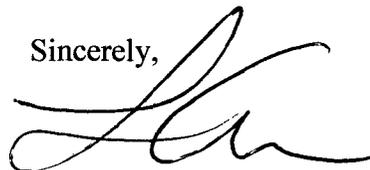
New Mexico Oil Conservation Division  
Attn: Mike Bratcher  
1301 W. Grand Ave  
Artesia, New Mexico 88210

Re: Remediation of Spill at Oxy USA – Jones Canyon Satellite  
UL 'N' Sec. 4 T22S R24E Eddy County

Mr. Mike Bratcher,

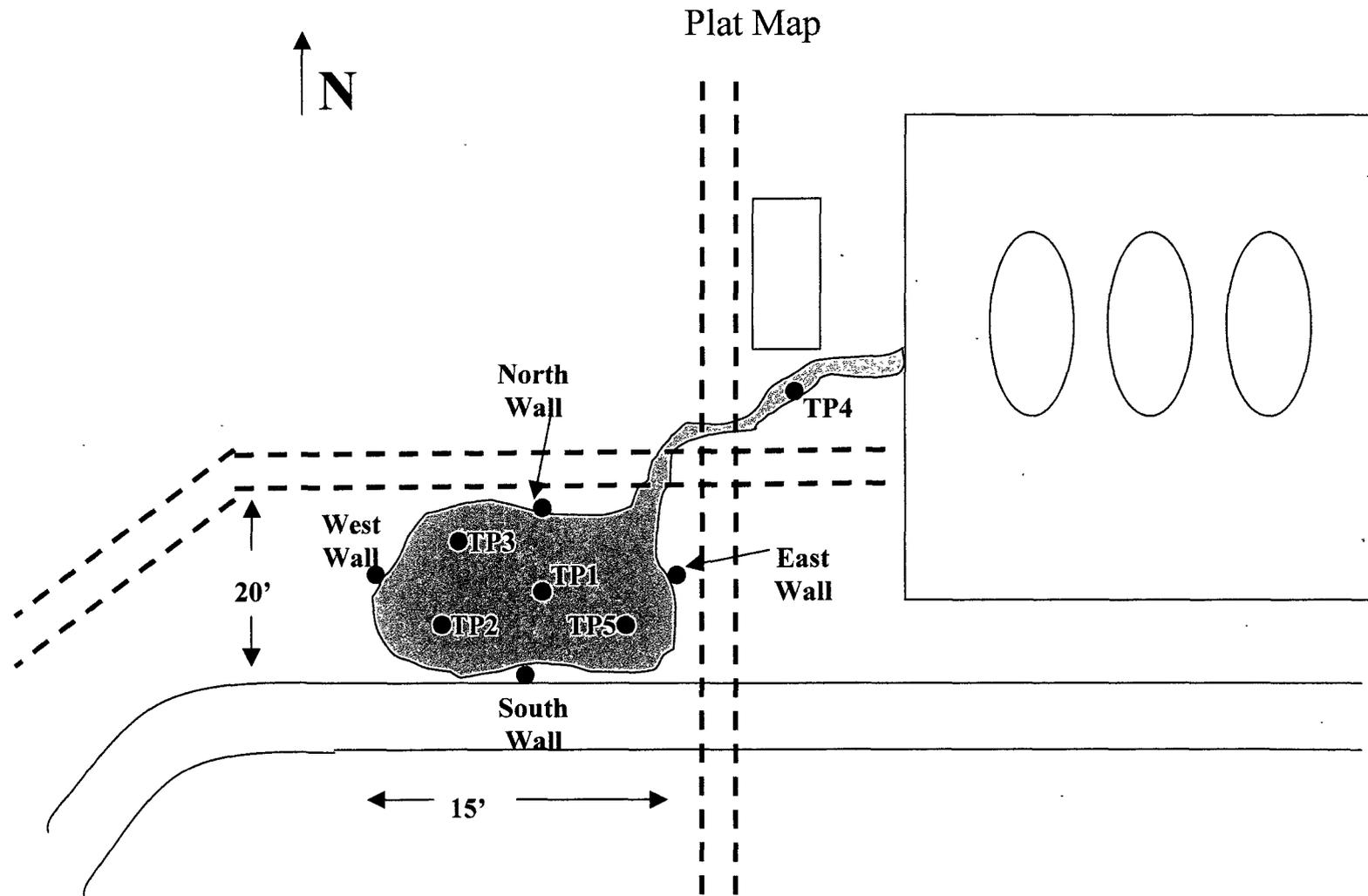
Elke Environmental was contracted by Oxy USA to complete the closure of the spill at the Jones Canyon Satellite. Using the siting criteria outlined on the Final C-141 the ranking for the site is 10 points. The Recommended Action Levels are 250 ppm Chloride, 1,000 ppm TPH and 100 ppm BTEX (Using field vapor analysis). All soil above the RAL's was excavated and hauled to CRI Disposal. Lab confirmations were taken on the bottom of the excavation. Clean native soil was backfilled into the excavation and contoured to the surrounding area. Enclosed are a plat map, field analytical report, lab report and pictures of the remediation. If you have any questions about the enclosed report please contact me at the office.

Sincerely,



Logan Anderson

Oxy USA  
Jones Canyon Satellite



**Elke Environmental, Inc.**

P.O. Box 14167 Odessa, TX 79768

**Field Analytical Report Form**

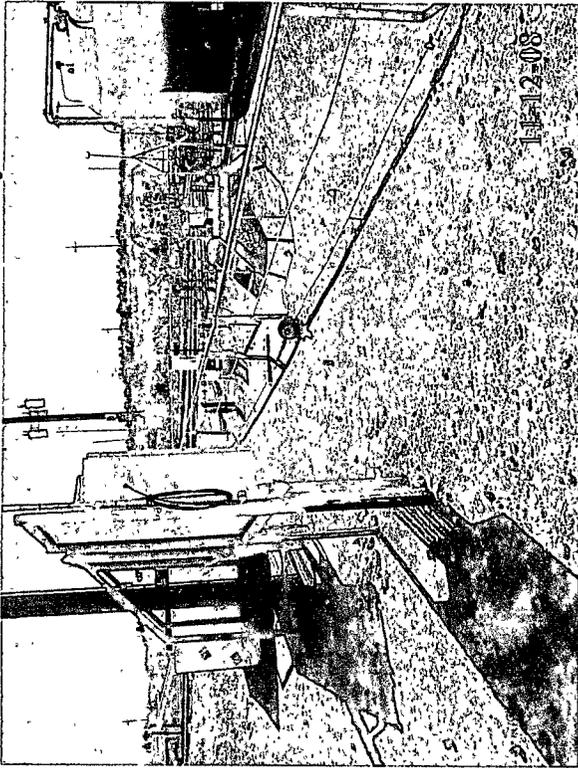
**Client** Oxy USA **Analyst** Curtis Elam / Bobby Steadham

**Site** Jones Canyon Satellite

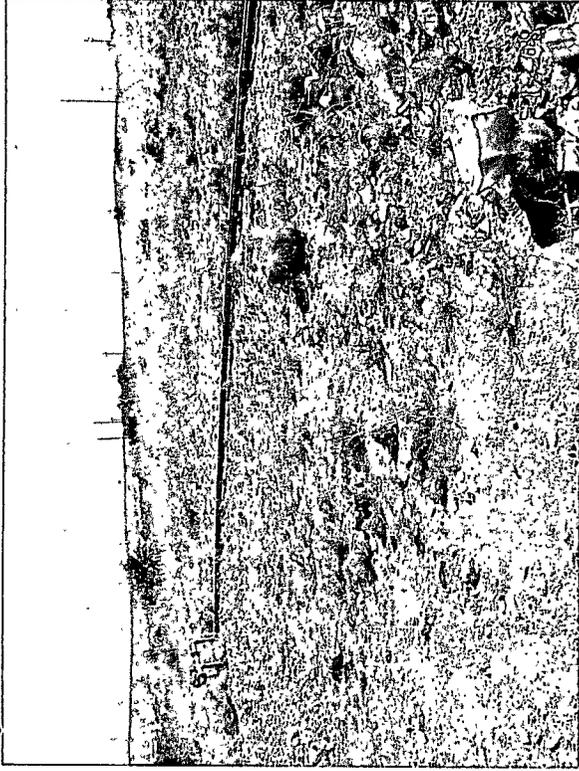
Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP1	12-17-08	Surface	96,800	200		32° 24.892' N 104° 30.236' W
TP1	4-7-09	4"	87	239	17.8	32° 24.892' N 104° 30.236' W
TP2	12-17-08	Surface	94,700	210		32° 24.891' N 104° 30.237' W
TP2	4-7-09	4"	162	209	12.4	32° 24.891' N 104° 30.237' W
TP3	12-17-08	Surface	96,700	200		32° 24.893' N 104° 30.237' W
TP3	4-7-09	4"	109	239	9.7	32° 24.893' N 104° 30.237' W
TP4	12-17-08	Surface	96,100	180		32° 24.896' N 104° 30.232' W
TP4	4-7-09	4"	268	249	11.4	32° 24.896' N 104° 30.232' W
TP5	12-17-08	Surface	96,500	100		32° 24.891' N 104° 30.235' W
TP5	4-7-09	4"	149	239	10.0	32° 24.891' N 104° 30.235' W
North Wall	4-8-09	2"	68	239	9.7	32° 24.894' N 104° 30.236' W
South Wall	4-8-09	2"	119	209	13.7	32° 24.890' N 104° 30.236' W
East Wall	4-8-09	2"	211	239	14.1	32° 24.892' N 104° 30.234' W
West Wall	4-8-09	2"	87	249	6.8	32° 24.892' N 104° 30.238' W

**Analyst Notes** \_\_\_\_\_

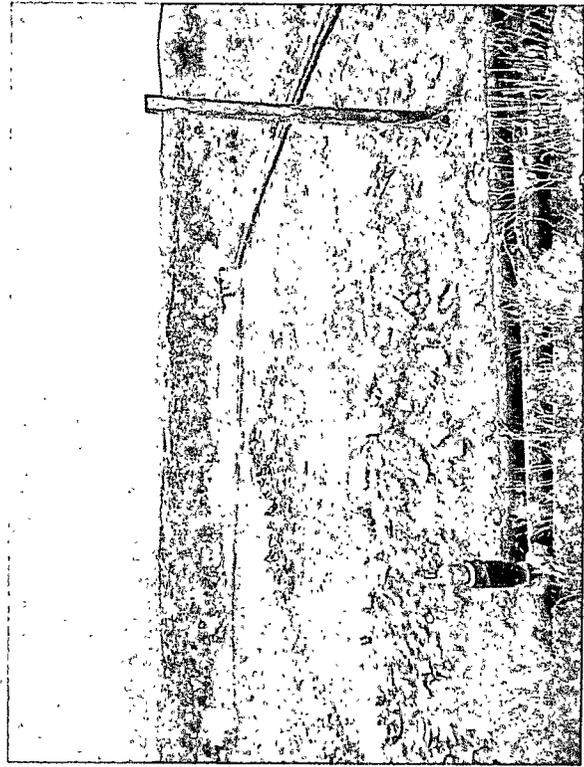
Oxy USA – Jones Canyon Satellite



Site before remediation activities.



Site before remediation activities.



Site after excavation of impacted soil.



Site after backfill of clean native soil.

**New Mexico Office of the State Engineer  
POD Reports and Downloads**

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

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

**AVERAGE DEPTH OF WATER REPORT 11/13/2008**

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	21S	24E	02				1	260	260	260
C	21S	24E	10				1	160	160	160
C	21S	24E	20				1	90	90	90
C	21S	24E	22				1	80	80	80
C	21S	24E	23				1	50	50	50
C	21S	24E	24				1	28	28	28
C	21S	24E	26				1	150	150	150
C	21S	24E	28				1	83	83	83
C	21S	24E	29				1	20	20	20

Record Count: 9

**New Mexico Office of the State Engineer  
POD Reports and Downloads**

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

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

**AVERAGE DEPTH OF WATER REPORT 11/13/2008**

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	22S	24E	12				2	400	585	493
C	22S	24E	15				2	100	100	100
C	22S	24E	19				1	218	218	218
C	22S	24E	21				2	400	400	400
C	22S	24E	24				1	213	213	213
C	22S	24E	26				1	500	500	500
C	22S	24E	27				2	22	22	22
C	22S	24E	30				1	149	149	149
C	22S	24E	31				1	240	240	240
C	22S	24E	32				2	245	245	245
C	22S	24E	36				1	22	22	22

Record Count: 16

# Analytical Report 329962

for

**Elke Environmental, Inc.**

**Project Manager: Logan Anderson**

**Oxy USA**

**Jones Canyon Satellite**

**20-APR-09**



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

Texas certification numbers:

Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



20-APR-09

Project Manager: **Logan Anderson**  
**Elke Environmental, Inc.**  
4817 Andrews Hwy  
P.O. Box 14167 Odessa, tx 79768  
Odessa, TX 79762

Reference: XENCO Report No: **329962**  
**Oxy USA**  
Project Address:

**Logan Anderson:**

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 329962. 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. 329962 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.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

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



**Sample Cross Reference 329962**



**Elke Environmental, Inc., Odessa, TX**

Oxy USA

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
TP 1 @ 4"	S	Apr-07-09 11:40	4 In	329962-001
TP 2 @ 4"	S	Apr-06-09 16:00	4 In	329962-002
TP 3 @ 4"	S	Apr-06-09 16:40	4 In	329962-003
TP 4 @ 4"	S	Apr-06-09 17:00	4 In	329962-004
TP 5 @ 4"	S	Apr-06-09 16:50	4 In	329962-005



# Certificate of Analysis Summary 329962

Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: Jones Canyon Satellite

Contact: Logan Anderson

Date Received in Lab: Mon Apr-13-09 08:00 am

Report Date: 20-APR-09

Project Location:

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	329962-001	329962-002	329962-003	329962-004	329962-005	
	<i>Field Id:</i>	TP 1 @ 4"	TP 2 @ 4"	TP 3 @ 4"	TP 4 @ 4"	TP 5 @ 4"	
	<i>Depth:</i>	4 In					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Apr-07-09 11:40	Apr-06-09 16:00	Apr-06-09 16:40	Apr-06-09 17:00	Apr-06-09 16:50	
<b>Anions by EPA 300</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-13-09 12:17					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		207 10.0	66.3 5.19	102 10.7	180 10.2	165 10.4	
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-13-09 12:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		ND 1.00	3.63 1.00	6.18 1.00	2.30 1.00	4.16 1.00	
<b>TPH By SW8015 Mod</b>	<i>Extracted:</i>	Apr-17-09 16:58					
	<i>Analyzed:</i>	Apr-18-09 02:58	Apr-18-09 03:24	Apr-18-09 03:50	Apr-18-09 04:16	Apr-18-09 05:07	
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 15.1	ND 15.6	ND 16.0	ND 15.4	ND 15.7	
C12-C28 Diesel Range Hydrocarbons		20.6 15.1	ND 15.6	ND 16.0	45.6 15.4	62.8 15.7	
C28-C35 Oil Range Hydrocarbons		ND 15.1	ND 15.6	ND 16.0	ND 15.4	ND 15.7	
Total TPH		20.6 15.1	ND 15.6	ND 16.0	45.6 15.4	62.8 15.7	

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. 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.

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

  
Brent Barron  
Odessa Laboratory Director



# 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.
- \* Outside XENCO's scope of NELAC Accreditation.

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

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

**Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America**

4143 Greenbriar Dr, Stafford, Tx 77477  
 9701 Harry Hines Blvd , Dallas, TX 75220  
 5332 Blackberry Drive, San Antonio TX 78238  
 2505 North Falkenburg Rd, Tampa, FL 33619  
 5757 NW 158th St, Miami Lakcs, FL 33014  
 12600 West I-20 East, Odessa, TX 79765  
 842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



# Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 329962,

Project ID: Jones Canyon Satellite

Lab Batch #: 756246

Sample: 8406371-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/17/09 23:04

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	49.1	50.0	98	70-135	

Lab Batch #: 756246

Sample: 8406371-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/17/09 23:30

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	47.5	50.0	95	70-135	

Lab Batch #: 756246

Sample: 8406371-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 04/17/09 23:56

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.7	100	89	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

Lab Batch #: 756246

Sample: 329962-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 02:58

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	48.8	50.0	98	70-135	

Lab Batch #: 756246

Sample: 329962-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 03:24

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.7	100	89	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders : 329962,

Project ID: Jones Canyon Satellite

Lab Batch #: 756246

Sample: 329962-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 03:50

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	100	97	70-135	
o-Terphenyl	55.7	50.0	111	70-135	

Lab Batch #: 756246

Sample: 329962-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 04:16

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	58.2	50.0	116	70-135	

Lab Batch #: 756246

Sample: 329962-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 05:07

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.9	100	90	70-135	
o-Terphenyl	51.1	50.0	102	70-135	

Lab Batch #: 756246

Sample: 330010-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 09:50

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	51.3	50.0	103	70-135	

Lab Batch #: 756246

Sample: 330010-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 04/18/09 10:15

### SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	52.4	50.0	105	70-135	

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Blank Spike Recovery



**Project Name: Oxy USA**

**Work Order #: 329962**

**Project ID: Jones Canyon Satellite**

**Lab Batch #: 755752**

**Sample: 755752-1-BKS**

**Matrix: Solid**

**Date Analyzed: 04/13/2009**

**Date Prepared: 04/13/2009**

**Analyst: LATCOR**

**Reporting Units: mg/kg**

**Batch #: 1**

## BLANK/BLANK SPIKE RECOVERY STUDY

Anions by EPA 300  Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.6	106	80-120	

Blank Spike Recovery [D] = 100\*[C]/[B]

All results are based on MDL and validated for QC purposes.



# BS / BSD Recoveries



Project Name: Oxy USA

Work Order #: 329962

Analyst: BHW

Lab Batch ID: 756246

Units: mg/kg

Sample: 8406371-1-BKS

Date Prepared: 04/17/2009

Batch #: 1

Project ID: Jones Canyon Satellite

Date Analyzed: 04/17/2009

Matrix: Solid

## BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1020	102	1000	993	99	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	998	100	1000	969	97	3	70-135	35	

Relative Percent Difference RPD =  $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] =  $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] =  $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



# Form 3 - MS Recoveries



Project Name: Oxy USA

Work Order #: 329962

Lab Batch #: 755752

Project ID: Jones Canyon Satellite

Date Analyzed: 04/13/2009

Date Prepared: 04/13/2009

Analyst: LATCOR

QC- Sample ID: 329962-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

## MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
	Chloride	207	201	411	101	80-120

Matrix Spike Percent Recovery [D] =  $100 \cdot (C-A)/B$   
 Relative Percent Difference [E] =  $200 \cdot (C-A)/(C+B)$   
 All Results are based on MDL and Validated for QC Purposes



# Form 3 - S / MSD Recoveries



Project Name: Oxy USA

Work Order #: 329962

Project ID: Jones Canyon Satellite

Lab Batch ID: 756246

QC- Sample ID: 330010-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 04/18/2009

Date Prepared: 04/17/2009

Analyst: BHW

Reporting Units: mg/kg

### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1070	1120	105	1070	1160	108	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	18.1	1070	1080	99	1070	1130	104	5	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit



# Sample Duplicate Recovery



Project Name: Oxy USA

Work Order #: 329962

Lab Batch #: 755752

Date Analyzed: 04/13/2009

QC- Sample ID: 329962-001 D

Reporting Units: mg/kg

Project ID: Jones Canyon Satellite

Analyst: LATCOR

Matrix: Soil

Date Prepared: 04/13/2009

Batch #: 1

## SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by EPA 300  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	207	207	0	20	

Lab Batch #: 755765

Date Analyzed: 04/13/2009

QC- Sample ID: 329960-006 D

Reporting Units: %

Date Prepared: 04/13/2009

Analyst: BEV

Matrix: Soil

Batch #: 1

## SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	18.0	17.2	4	20	

Spike Relative Difference RPD  $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.



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

Client: Elko Env.  
Date/ Time: 4.13.09 8:00  
Lab ID #: 329902  
Initials: AL

**Sample Receipt Checklist**

	Yes	No	Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 °C
#2 Shipping container in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Present
#5 Chain of Custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID written on Cont / Lid
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#13 Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#14 Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Below
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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  
 220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy Minerals and Natural Resources

NOV - 7 2008

OCD-ARTESIA Revised October 10, 2003

Form C-141



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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	OXY USA	192463	Contact	Kelton Beaird
Address	102 S Main Carlsbad, NM 88220		Telephone No. (O)	505-887-8337 C) 575-390-1903
Facility Name	Jones Canyon 4 #1		Facility Type	Satellite with well
Surface Owner BLM			Mineral Owner BLM	
Lease No.			30-015-28076	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	4	22S	24E					Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Produced Water/ Oil	Volume of Release	6bbls wtr, 1bbls oil	Volume Recovered	0 bbls
Source of Release	Flowline	Date and Hour of Occurrence		Date and Hour of Discovery	11-2-08 @ 11:30pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos/ BLM Sherry Bohnam/NMOCD			
By Whom?	Kelton Beaird	Date and Hour	See above		
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.\*

The flow line was pitted and thin. Pressure from the closed valve caused line to bust

Describe Area Affected and Cleanup Action Taken.\* Area affected was on location and down the lease road. Visible contamination will be picked up and conformation samples (TPH, BTEX and Chlorides) will be submitted per NMOCD for closure

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:

Printed Name: Kelton Beaird

Title: HES Specialist

E-mail Address: kelton\_beaird@oxy.com

Date: 11-4-08

Approved by District Supervisor:

Approval Date: 11-18-08

Expiration Date: 01-18-09

Conditions of Approval:

Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD

Attached

2RP - 268

Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date.

\* Attach Additional Sheets If Necessary

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

15E0832350384

**Release Notification and Corrective Action**

30-015-28076

**OPERATOR**

Initial Report  Final Report

Name of Company – OXY USA	192463	Contact – Kelton Beaird
Address – P O Box 1988 / 102 South Main St	Carlsbad, NM	Telephone No. – 575-887-8337
Facility Name – Jones Canyon Satellite		Facility Type – Satellite Battery

Surface Owner – Federal	Mineral Owner – Federal	Lease No. API # 30-015-28076
-------------------------	-------------------------	------------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	4	22S	24E					Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

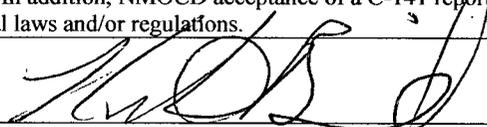
Type of Release – Produced Water/Oil	Volume of Release – 6/1 bbls	Volume Recovered – 0 bbls
Source of Release – Flowline	Date and Hour of Occurrence – 11-2-08	Date and Hour of Discovery – 11-2-08 @11:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos – BLM / Sherry Bohnam – OCD	
By Whom? – Kelton Beaird	Date and Hour 11-2-08 @ 11:30pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Flowline was pitted and thin. Pressure from closed valve caused line to bust. The groundwater in the surrounding area shows < 100' and >50' using the SEO data and the ChevronTexaco groundwater map for a ranking of 10 points. The wellhead protection area ranking is 0 points. The Surface Body of Water ranking is 0 points. The total points for the site is 10 points. The following are the recommended action levels for the site : Chloride – 250 ppm, TPH – 1,000 ppm, BTEX – 100 ppm(field vapor analysis).

Describe Area Affected and Cleanup Action Taken.\* All soil above the RAL's was excavated and hauled to CRI Disposal. Lab confirmations were taken on the bottom of the excavation. Clean native soil was backfilled into the excavation and contoured to the surrounding area.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Kelton Beaird	Approved by  District Supervisor	
Title: HES Specialist	Approval Date: MAY 05 2009	Expiration Date: N/A
Email Address: kelton_beaird@oxy.com	Conditions of Approval: N/A	Attached <input type="checkbox"/>
Date: 4-22-09	Phone: 575-887-8337	

\* Attach Additional Sheets If Necessary

2BP-268