

District I

P.O. Box 100, Hobbs, NM

District II

P.O. Box 100, Hobbs, NM

District III

1000 Rio Brazos Rd., Santa Fe, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Approval

PIT REMEDIATION AND CLOSURE REPORT

Operator: CHATEAU OIL AND GAS Telephone: 505 632-8056

Address: 5802 US HIGHWAY 64, FARMINGTON, NM 87401

Facility Or: CLAYTON 2A

Well Name

Location: Unit or Qtr/Qtr Sec D Sec 02 T 30N R 12W County SAN JUAN

Pit Type: Separator Dehydrator X Other

Land Type: BLM , State , Fee X, Other

Pit Location: Pit dimensions: length 12', width 12', depth 3'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 225' North

Direction from reference: Degrees East North X
of
 West South

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)

50 feet to 99 feet (10 points)

Greater than 100 feet (0 Points) 0

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

Yes (20 points)

No (0 points) 0

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)

200 feet to 1000 feet (10 points)

Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 4/1/97

Dated Completed: 8/6/97

Remediation Method: Excavation N/A
(Check all appropriate sections)

Approx. cubic yards _____

Landfarmed N/A

Insitu Bioremediation _____

Other SOIL VAPOR EXTRACTION UNIT USED TO TREAT CONTAMINATED SOILS

Remediation Location: Onsite X Offsite _____
(ie. landfarmed onsite, name and location of site facility)

General Description Of Remedial Action: Augered in center of earthen pit to install SOIL VAPOR EXTRACTION Unit with Screened monitor well. Pulled vacuum on monitor/EXTRACTION WELL UNTIL UNIT REFLECTED A FULLY REMEDIATED READINGS. Augered FORMERLY CONTAMINATED ZONE AS PROOF.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location five foot intervals beginning with the 5-7' below grade start (PLEASE SEE ATTACHMENT)

Sample depth 5, 10, 15, 20, 25, 30 (SEE ATTACHMENT)

Sample date 8/6/97

Sample time begin 8:15 thereafter 15 minute Intervals

Sample Results

Benzene(ppm) N/A

Total BTEX(ppm) N/A

Field headspace(ppm) (SEE ATTACHMENT)

TPH (SEE ATTACHMENT)

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 8/13/97

SIGNATURE

PRINTED NAME SHAWN A. ADAMS
AND TITLE ENV. CONSULTANT

March 3, 1998

Summary of Clayton #2A

Lab Summary:

EPA Method 8015 M

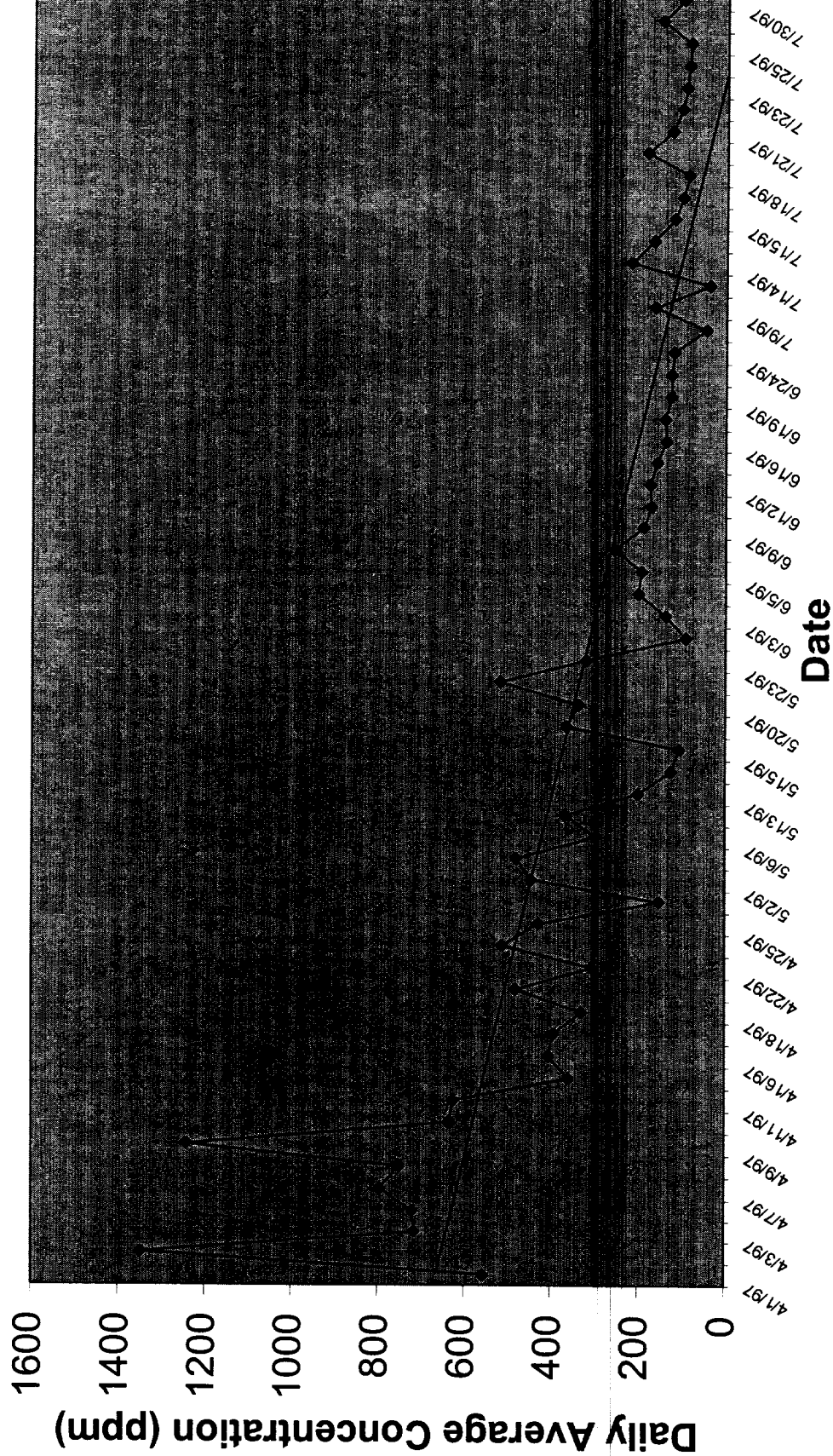
<u>Depth</u>	<u>Gasoline Range Organics</u>	<u>Diesel Range Organics</u>
5-7'	ND	ND
10-12'	6.3 PPM	43 PPM
15-17'	20	109
20-22'	ND	22
25-27'	235	55
30-32'	ND	ND

Field Headspace Summary:

PID (PPM)

<u>Depth</u>	<u>PID (PPM)</u>
5-7'	1.0
10-12'	193
15-17'	177
20-22'	31
25-27'	1600
30-32'	14

Clayton 2A - Soil Vapor Extractoin Unit Discharge



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **13-Aug-97**
 COC No.: **6677**
 Sample No.: **15724**
 Job No.: **2-10000**

Project Name: **Chateau Oil & Gas - Clayton 2A SUE Unit**
 Project Location: **CLAY-900**
 Sampled by: **SA**
 Analyzed by: **DC/HR**
 Sample Matrix: **Soil**

Date: **6-Aug-97** Time: **8:15**
 GRO Date: **11-Aug-97**
 DRO Date: **13-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,036	12.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	220	9.4	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	81	80	(80-120)	2	20%
Diesel Range (C10-C28)	81	82	(84-118)	2	20%

Method: **SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography**

Approved by: 
 Date: **8/13/97**

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **13-Aug-97**
COC No.: **6677**
Sample No.: **15725**
Job No.: **2-10000**

Project Name: **Chateau Oil & Gas - Clayton 2A SUE Unit**
Project Location: **CLAY-901**

Sampled by: **SA** Date: **6-Aug-97** Time: **8:30**
Analyzed by: **DC/HR** GRO Date: **11-Aug-97**
Sample Matrix: **Soil** DRO Date: **13-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	6.3	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	43	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,036	12.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	220	9.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	81	80	(80-120)	2	20%
Diesel Range (C10-C28)	81	82	(84-118)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
Date: **8/13/97**

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ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **13-Aug-97**
 COC No.: **6677**
 Sample No.: **15726**
 Job No.: **2-10000**

Project Name: **Chateau Oil & Gas - Clayton 2A SUE Unit**
 Project Location: **CLAY-902**
 Sampled by: **SA**
 Analyzed by: **DC/HR**
 Sample Matrix: **Soil**

Date: **6-Aug-97** Time: **8:45**
 GRO Date: **11-Aug-97**
 DRO Date: **13-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	20	mg/kg	5	mg/kg
Diesel Range Organics (C10 - C28)	109	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,036	12.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	220	9.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	81	80	(80-120)	2	20%
Diesel Range (C10-C28)	81	82	(84-118)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *DC*Date: *8/13/97*

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LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **13-Aug-97**
 COC No.: **6677**
 Sample No.: **15727**
 Job No.: **2-10000**

Project Name: **Chateau Oil & Gas - Clayton 2A SUE Unit**
 Project Location: **CLAY-903**

Sampled by: **SA** Date: **6-Aug-97** Time: **9:00**
 Analyzed by: **DC/HR** GRO Date: **11-Aug-97**
 Sample Matrix: **Soil** DRO Date: **13-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	22	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,036	12.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	220	9.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	81	80	(80-120)	2	20%
Diesel Range (C10-C28)	81	82	(84-118)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

Date: **8/13/97**

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: Shawn Adams
Company: Contract Environmental Services, Inc.
Address: P.O. Box 3376
City, State: Farmington, NM 87499

Date: 13-Aug-97
COC No.: 6677
Sample No.: 15728
Job No.: 2-10000

Project Name: Chateau Oil & Gas - Clayton 2A SUE Unit
Project Location: CLAY-904

Sampled by: SA Date: 6-Aug-97 Time: 9:15
Analyzed by: DC/HR GRO Date: 11-Aug-97
Sample Matrix: Soil DRO Date: 13-Aug-97

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	235	mg/kg	50	mg/kg
Diesel Range Organics (C10 - C28)	55	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,036	12.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	220	9.4	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	81	80	(80-120)	2	20%
Diesel Range (C10-C28)	81	82	(84-118)	2	20%

Method: SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: 
Date: 8/13/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **13-Aug-97**
 COC No.: **6677**
 Sample No.: **15729**
 Job No.: **2-10000**

Project Name: **Chateau Oil & Gas - Clayton 2A SUE Unit**
 Project Location: **CLAY-905**
 Sampled by: **SA**
 Analyzed by: **DC/HR**
 Sample Matrix: **Soil**

Date: **6-Aug-97** Time: **9:30**
 GRO Date: **11-Aug-97**
 DRO Date: **13-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	2,036	12.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	220	9.4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	81	80	(80-120)	2	20%
Diesel Range (C10-C28)	81	82	(84-118)	2	20%

Method: **SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography**

Approved by:

Date: **8/13/97**

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

6677

Date: 8-8-97

Page 1 of 1

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Name CHATEAU OIL & GAS		Company CONTRACT ENVIRONMENTAL			
		Company		Mailing Address			
		Address		City, State, Zip			
		City, State, Zip		Telephone No.		Telefax No.	
Sampling Location:				ANALYSIS REQUESTED			
NORTHWEST #3 SEPARATOR RT							
Sampler: C. Munkres							
SAMPLE IDENTIFICATION		SAMPLE DATE		MATRIX		PRES.	
301 B SEP RT BOTTOM 14'		8-6-97 3:30 PM					
302 C BANK COMPOSITE		8-6-97 4:30 PM					
CLAY - 900 CLAYTON 2A SUE UNIT 8149		8-15		5-7'			
- 901		"		"		10-12'	
- 902		"		"		8-45	
- 903		"		"		20-22'	
- 904		"		"		25-27'	
- 905		"		"		30-32'	
Relinquished by: [Signature]				Date/Time 8-8-97 10:00 AM		Received by: [Signature]	
Relinquished by: [Signature]				Date/Time 8-8-97		Received by: [Signature]	
Relinquished by: [Signature]				Date/Time 8-8-97		Received by: [Signature]	
Method of Shipment:				Rush		24-48 Hours	
Authorized by: [Signature]				Date 8-8-97		Special Instructions: 1000 FOR 8015 IF 418.1 IS HIGH	

-Lester
 8/8/97
 Clayton 2A SUE
 Proof

NOTES: CAME TO LOCATION TO CONFIRM SUE
 Unit removed contamination. Drilled 1 auger
 to 32' BESIDE (2.5') original monitor well.
 GROUT HOLE TO SURFACE. LEFT LOCATION.
 DISCONNECTED SUE HOISING.

GROUT - 4 BAGS CEMENT
 1 BAG HOLE PLUG
 1 BAG GEL

SAMPLE No.	LOCATION	PID (PPM)
1	5-7'	1.0
2	10-12'	193
3	15-17'	177
4	20-22'	31
5	25-27'	1600
6	30-32'	14
7		Fence/Barn
8		
9		
10		

1600 Delus
 14 P.
 Fence/Barn

SUE
 Unit

4
+
2

DEHy

→

mw

2.5'

Proof
 Auger
 to 32'

Have PID^s to Chester 10:00 Good enough info
 Do NOT DRILL another HOLE.