

District I

State of New Mexico

SUBMIT 1 COPY TO

P.O. Box 1000 Santa Fe, NM 87504-2088

Energy, Minerals and Natural Resources Department

APPROPRIATE

District II

DISTRICT OFFICE

P.O. Box 1000 Santa Fe, NM 87504-2088

AND 1 COPY TO

District III

OIL CONSERVATION DIVISION

SANTA FE OFFICE

1000 Rio Brazos Rd. Santa Fe, NM 87504-2088

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 5802 US HIGHWAY 64, FARMINGTON, NM 87401

Facility Or: LEA 1

Well Name

Location: Unit or Qtr/Qtr Sec K Sec 30 T 31N R 12W County SAN JUAN

Pit Type: Separator Dehydrator Other

Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 70', width 72', depth 10'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 150' EAST

Direction from reference: Degrees East North
of
 West South

Depth To Ground Water:

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

RECEIVED
APR - 1 1998
OIL CON. DIV.
DIST. 3

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) 10

RANKING SCORE (TOTAL POINTS):

10

Date Remediation Started: 1-7-97

Dated Completed: 12-10-97

Remediation Method: Excavation X

Approx. cubic yards 1,867

(Check all appropriate sections)

Landfarmed X

Insitu Bioremediation

Other _____

Remediation Location: Onsite ☒ Offsite ☐

i.e. landfarmed onsite,

and location of

offsite facility)

General Description Of Remedial Action: EXCAVATED CONTAMINATED SOILS.

SPREAD ON LOCATION IN SOIL FARM TURNED SOIL FARMS USING FARM

IMPLEMENTS.

Soil Farm: Sample A 418.1 = ND 12-10-97 12:30

12-10-97

12:30

Sample B 418.1 = ND 12-10-97 12:45

12-10-97

12:45

Ground Water Encountered: No ☒ Yes ☐ Depth _____

No ~~X~~

Yes

Depth

Final Pit:

Sample location Pit bottom Center

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample depth 10-11' (sandrock)

Sample date 12/10/97

Sample time 11:50

Sample Results

Benzene (ppm) ND

Total BTEX (ppm) 0.003

Field headspace (ppm) 0.0 ppm

TPH ND

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 3/2/48

SIGNATURE

PRINTED NAME SHAWN ADAMS

AND TITLE ENVIRONMENTAL CONSULTANT

CHAIN OF CUSTODY RECORD

ON SITE

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

TECHNOLOGIES, LTD.

Date: 12-11-97

Purchase Order No.:		Job No.		Name		Title	
Name: CHATEAU		Company: CHATEAU ENVIRONMENTAL		Mailing Address:		City, State, Zip:	
Address:		Telephone No.:		Telefax No.:			
City, State, Zip:							
Sampling Location:		LEA 1 Pit + Farm, NEWMAN Pits + Farm		ANALYSIS REQUESTED			
Sampler:		David Hadden					
REPORT RESULTS TO		Number of Containers		LAB ID			
Name		DATE		TIME		PRES.	
LEA 101 Pit Bottom		12-10-97		11:50 AM			
LEA 102 Pit Bank		12-10-97		12:10 PM			
LEA 404 Farm, NEUA		12-10-97		12:30 PM			
LEA 405 Farm, NEUA		12-10-97		12:35 PM			
NEU 101 SEP Pit Banks		12-10-97		12:30 PM			
NEU 102 SEP Pit Bottom		12-10-97		12:35 PM			
NEU 405 OVERFLOW Pit Banks		12-10-97		12:40 PM			
NEU 406 OVERFLOW Pit Bottom		12-10-97		12:45 PM			
NEU 797 Farm		12-10-97		12:45 PM			
Relinquished by: David Hadden		Date/Time: 12-11-97 (11:00)		Received by: [Signature]		Date/Time: 12/11/97 (11:00)	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Method of Shipment:				Rush		10 Working Days	
Authorized by: [Signature]		Date: 12-11-97		Special Instructions: HILLIER + [Signature]		+ ATTORNEY	

White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

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: *15-Dec-97*
COC No.: *6689*
Sample No.: *17070*
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Lea #1*
Project Location: *LEA-101; Pit Bottom*
Sampled by: *DH* Date: *10-Dec-97* Time: *11:50*
Analyzed by: *HR* Date: *15-Dec-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	ND	ND	mg/kg
<i>Laboratory Fortified Spike Soil - QCSS1</i>	843	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
<i>17070-6689</i>	<LOQ	15.0

Approved by: *[Signature]*

Date: *12/16/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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City, State: *Farmington, NM 87499*

Date: *12-Dec-97*
COC No.: *6689*
Sample No.: *17070*
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Lea #1*
Project Location: *LEA-101; Pit Bottom*
Sampled by: *DH*
Analyzed by: *DC*
Sample Matrix: *Soil*

Date: *10-Dec-97* Time: *11:30*
Date: *11-Dec-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	1	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	2	ug/kg	1	ug/kg
<i>o-Xylene</i>	ND	ug/kg	1	ug/kg
<i>TOTAL</i>		3		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *12/12/97*

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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: *15-Dec-97*
COC No.: *6689*
Sample No.: *17071*
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Lea #1*
Project Location: *LEA-102; Pit Bank*
Sampled by: *DH* Date: *10-Dec-97* Time: *12:00*
Analyzed by: *HR* Date: *15-Dec-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

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<i>Laboratory Fortified Blank Soil - QCBS2</i>	ND	ND	mg/kg
<i>Laboratory Fortified Spike Soil - QCSS1</i>	843	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
<i>17070-6689</i>	<LOQ	15.0

Approved by: *[Signature]*
Date: *12/17/97*

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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: *15-Dec-97*
COC No.: *6689*
Sample No.: *17072*
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Lea #1*
Project Location: *LEA-404; Farm Sample A*
Sampled by: *DH* Date: *10-Dec-97* Time: *12:30*
Analyzed by: *HR* Date: *15-Dec-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	ND	ND	mg/kg
<i>Laboratory Fortified Spike Soil - QCSS1</i>	843	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
<i>17070-6689</i>	<LOQ	15.0

Approved by: *JFC*

Date: *12/17/97*

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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: **15-Dec-97**
COC No.: **6689**
Sample No.: **17073**
Job No.: **2-1000**

Project Name: **Chateau Oil & Gas - Lea #1**
Project Location: **LEA-405; Farm Sample B**
Sampled by: **DH**
Analyzed by: **HR**
Sample Matrix: **Soil**

Date: **10-Dec-97** Time: **12:45**
Date: **15-Dec-97**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	843	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
17070-6689	<LOQ	15.0

Approved by:

Date:

[Signature]
12/17/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Test Pits

LEA 1

Excav.	PID	Depth
Bottom =	10.5	@ 10'
N	17.2	"
S	5.2	"
W	3.6	" 500 PM
E	32.5	@ 9'

Stringer from West Bank Running
West beyond equip to west

Test Pit west - seg. 0-8' clean
30' west

70' x 72' Excav.

2-segs teeth on sandstone

N-most - 1' in rock - clean below

Middle 2' in rock - clean below

S-most Clean rock to 6' - no deeper

Most samples 1200-2000+

Doesn't want to shut-in well

-leave open and just sit on it
for a month or so

CHATEAU OIL & GAS

LEA # 1

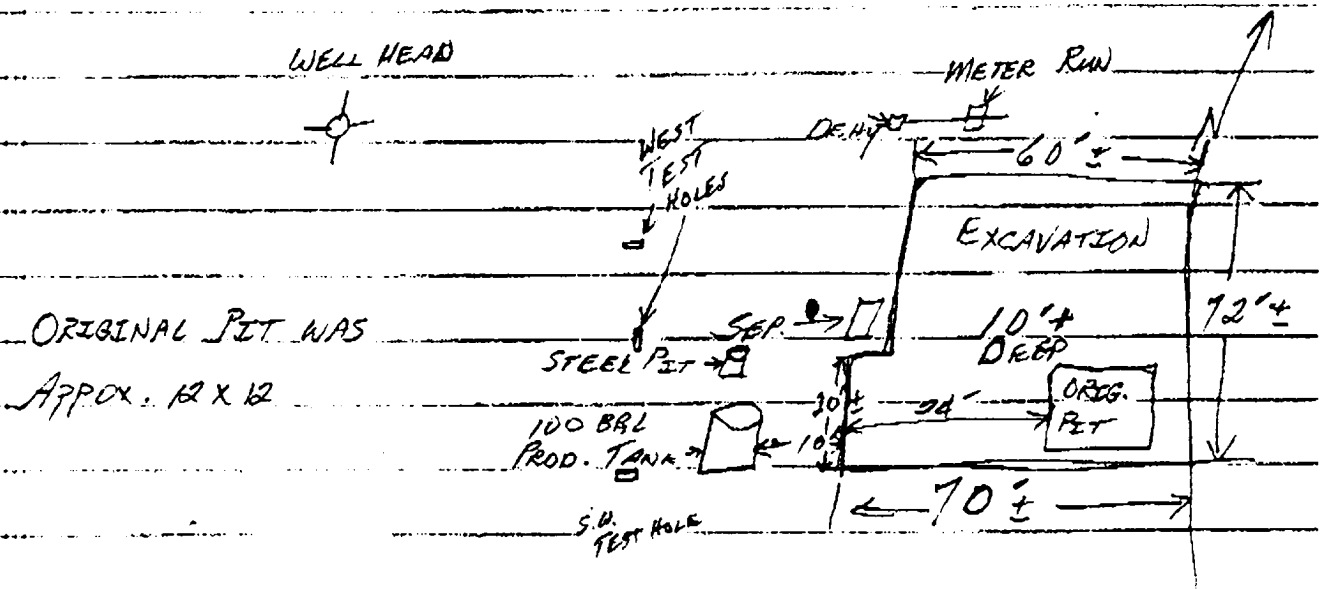
1-7-97 BOTTOM 10' 10.5 PPM 1:30 PM

1-7-97 N. BANK @ 10' 17.2 PPM 2:00 P.M.

1-7-97 S BANK @ 10' 5.2 PPM 2:30 P.M.

1-7-97 W BANK @ 10' 3.6 PPM 5:00 P.M. S.W. TEST HOLE

1-7-97 E. BANK @ 9' 32.5 PPM 1:50 P.M.



ORIGINAL PIT WAS

APPROX. 12 X 12

hit sandvade @ 10'

test hole did not go to lab

8" strip of crumbly sandvade

samples underneath 8" strata

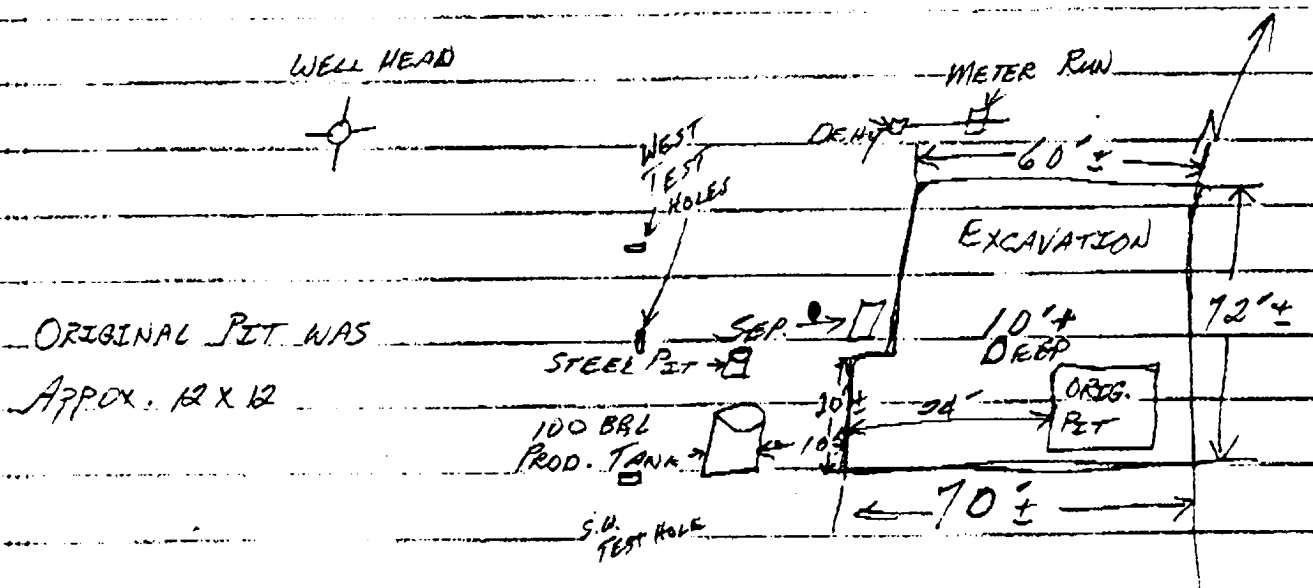
started in October

Cody + David 1st started

CHATEAU OIL & GAS

LEA # 1

1-1-97 BOTTOM 10' 10.5 PPM 1:30 PM
 1-1-97 N. BANK @ 10' 17.2 PPM 2:00 P.M.
 1-1-97 S BANK @ 10' 5.2 PPM 2:30 P.M.
 1-1-97 W BANK @ 10' 3.6 PPM 5:00 P.M. S.W. TEST HOLES
 2-97 E. BANK @ 9' 32.5 PPM 1:50 P.M.



12-10-97

LeA #1

Bottom 0.0 P.P.M

Bank Comp 0.0 P.P.M.

North Bank @ 9'

South Bank @ 8'5"

East Bank @ 9'

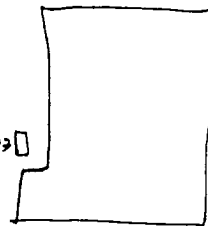
West Bank @ 9'



steel pit → □

sap → □

TANK → □



Farm

Comp A = 0 0.0 PPM

Comp B = X 0.0 PPM

Farm 150' X 150' X 2.5'

