

District I  
P.O. Box 1980, H...  
District II  
P.O. Drawer DD  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Minerals and Natural Resources Department  
DEPUTY OIL & GAS INSPECTOR  
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

## PIT REMEDIATION AND CLOSURE REPORT

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

Address: 5802 US HIGHWAY 64, FARMINGTON, NM 87401

Facility or: NEUMAN 1  
Well Name

Location: Unit or Qtr/Qtr Sec B sec 20 T 31N R 12W County SAN JUAN

Pit Type: Separator X Dehydrator Other

Land Type: BLM X, State, Fee, Other

Pit Location: Pit dimensions: length 20, width 20, depth 20  
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 150' South

Direction from reference: Degrees East North  
of  
West South X

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: 12/4/96 Dated Completed: 12/10/97

Remediation Method: Excavation X (Check all appropriate sections) Landfarmed X Insitu Bioremediation       
Other     

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

General Description Of Remedial Action: EXCAVATED CONTAMINATED SOIL, SPREAD ON SURFACE IN SOIL FARM, PLOWED AND TILED SOIL UNTIL LAB ANALYSES PASSED.

SOIL FARM: LAB TPH BY EPA 418.1 = ND DATE: 12/10/97 TIME: 15:00

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 Pit Bottom  
Sample depth 20'  
Sample date 12/10/97 Sample time 13:45  
Sample Results

Benzene(ppm) ND Pit BANKS  
Total BTEX(ppm) 0.005 TPH = ND  
Field headspace(ppm) 0.0 12/10/97 @ 13:30  
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 3/2/98

SIGNATURE Shawn Adams

PRINTED NAME SHAWN ADAMS  
AND TITLE ENVIRONMENTAL CONSULTANT

Date: 12-11-97

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                      |  | Company                  |  | Company                  |  | Contract Environmental              |  |
| Address                              |  | Dept.                    |  | Mailing Address          |  |                                     |  |
| City, State, Zip                     |  |                          |  | City, State, Zip         |  |                                     |  |
| Sampling Location:                   |  |                          |  | Telephone No.            |  | Telefax No.                         |  |
| LEA 1 Pit + Flow, NEU 101 Pit + Flow |  |                          |  | ANALYSIS REQUESTED       |  |                                     |  |
| Sampler: David Hadden                |  |                          |  |                          |  |                                     |  |
| SAMPLE IDENTIFICATION                |  | SAMPLE DATE              |  | MATRIX                   |  | PRES.                               |  |
| LEA 101 Pit Bottom                   |  | 12-10-97 11:50 AM        |  |                          |  |                                     |  |
| LEA 102 Pit Bank                     |  | 12-10-97 12:00 PM        |  |                          |  |                                     |  |
| LEA 404 Farm Sample A                |  | 12-10-97 12:30 PM        |  |                          |  |                                     |  |
| LEA 405 Farm Sample B                |  | 12-10-97 12:45 PM        |  |                          |  |                                     |  |
| NEU 101 SEP Pit Banks                |  | 12-10-97 1:30 PM         |  |                          |  |                                     |  |
| NEU 102 SEP Pit Bottom               |  | 12-10-97 1:45 PM         |  |                          |  |                                     |  |
| NEU 405 SWEL Flow Pit Banks          |  | 12-10-97 2:00 PM         |  |                          |  |                                     |  |
| NEU 406 SWEL Flow Pit Bottom         |  | 12-10-97 2:15 PM         |  |                          |  |                                     |  |
| NEU 777 Farm                         |  | 12-10-97 3:00 PM         |  |                          |  |                                     |  |
| Relinquished by: David Hadden        |  | Date/Time 12-10-97 11:50 |  | Received by: [Signature] |  | Date/Time 12/10/97                  |  |
| 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: David Hadden          |  | Date 12-10-97            |  | Special Instructions:    |  | HOLD FOR 24 HOURS + 10 WORKING DAYS |  |

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.: *17074*  
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Neuman Separator Pit*  
Project Location: *NEU-101; Pit Banks*  
Sampled by: *DH*  
Analyzed by: *HR*  
Sample Matrix: *Soil*

Date: *10-Dec-97* Time: *13:30*  
Date: *15-Dec-97*

#### 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: *12/17/97*

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.: 17075  
Job No.: 2-1000

Project Name: *Chateau Oil & Gas - Neuman Separator Pit*  
Project Location: *NEU-102; Pit Bottom*  
Sampled by: DH  
Analyzed by: HR  
Sample Matrix: *Soil*

Date: 10-Dec-97 Time: 13:45  
Date: 15-Dec-97

#### Laboratory Analysis

| Parameter                                | Results as Received | Limit of Quantitation | Unit of Measure | Method           |
|------------------------------------------|---------------------|-----------------------|-----------------|------------------|
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Approved by: *[Signature]*  
Date: *12/17/97*

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

Date: *12-Dec-97*  
COC No.: *6689*  
Sample No.: *17075*  
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Neuman Separator Pit*  
Project Location: *NEU-102; Pit Bottom*  
Sampled by: *DH* Date: *10-Dec-97* Time: *13:45*  
Analyzed by: *DC* Date: *11-Dec-97*  
Sample Matrix: *Soil*

#### Laboratory Analysis

| Parameter           | Results<br>as Received | Unit of<br>Measure | Limit of<br>Quantitation | Unit of<br>Measure |
|---------------------|------------------------|--------------------|--------------------------|--------------------|
| <i>Benzene</i>      | ND                     | ug/kg              | 1                        | ug/kg              |
| <i>Toluene</i>      | 2                      | ug/kg              | 1                        | ug/kg              |
| <i>Ethylbenzene</i> | ND                     | ug/kg              | 1                        | ug/kg              |
| <i>m,p-Xylene</i>   | 2                      | ug/kg              | 1                        | ug/kg              |
| <i>o-Xylene</i>     | 1                      | ug/kg              | 1                        | ug/kg              |
| <i>TOTAL</i>        | 5                      | 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*

P.O. BOX 2606 • FARMINGTON, NM 87499  
- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



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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.: *17078*  
Job No.: *2-1000*

Project Name: *Chateau Oil & Gas - Neuman*  
Project Location: *NEU-777; Farm*  
Sampled by: *DH*  
Analyzed by: *HR*  
Sample Matrix: *Soil*

Date: *10-Dec-97* Time: *15:00*  
Date: *15-Dec-97*

#### Laboratory Analysis

| Parameter                                | Results as Received | Limit of Quantitation | Unit of Measure | Method           |
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|---------------------------|------|-----------|
| <i>17070-6689</i>         | <LOQ | 15.0      |

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

# Evidence.

CHATEAU OIL & GAS

NEUMAN #1 SEPERATOR PIT

12-4-96 #1 CENTER BOTTOM 20' 191. PPM

12-4-96 #2 NORTH BANK @ 19' 356 PPM

12-4-96 #3 EAST BANK @ 19' 7.2 PPM

12-4-96 #4 SOUTH BANK @ 19' 296 PPM

12-4-96 #5 WEST BANK @ 12' 131 PPM

METER

STEEL  
PIT

WELL  
HEAD

CONDENSATE  
TANK

SEPERATOR

OLD PITS

DEHYDRATOR 4 PIT. WFS

EXCAVATED Size 20'X20'X20'

## TANK DRAIN Pit

12-5-96 #1 EAST BANK @ 19' 5.8 PPM

12-5-96 #2 SOUTH BANK @ 19' 4.2 PPM.

12-5-96 #3 WEST BANK @ 19' 8.4 PPM

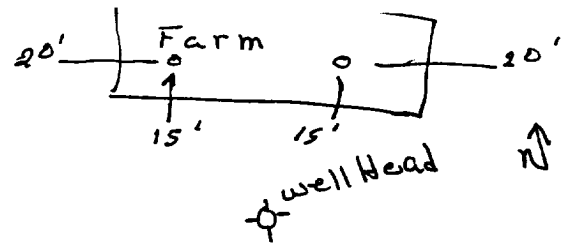
12-5-96 #4 NORTH BANK @ 19' 582.0 PPM

12-5-96 #5 BOTTOM CENTER @ 20' 482.0 PPM.

EXCAVATED Size 20'X20'X20'

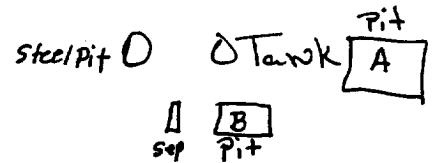
\* CREW PULLED OFF THIS JOB TO MEET JICARILLA  
DEADLINE!

12-10-97



Neuman #1

A Pit Bottom 0.0 PPM  
 1 Pit Comp 0.0 PPM  
 B Pit Comp 0.0 PPM  
 BPit Bottom 0.0 PPM



A Pit

South 17' Bottom 19'  
 East 17'  
 West 10'  
 North 17'

B Pit

South 17' Bottom 19'  
 East 18'  
 West 17'  
 North 18'

Farm 40' x 150' x 1.5'

Comp 0.0 PPM