

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd. Aztec, 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
DEPUTY OIL & GAS INSPECTOR

(Revised 3/9/94)
JUL 28 1996

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Elliott Oil Company Telephone: 505-622-5840

Address: P.O. Box 1355 Roswell, NM 88201

Facility Or: Southern Union 1

Well Name

Location: Unit or Qtr/Qtr Sec B Sec 3 T 29 R 13 County San Juan

Pit Type: Separator Dehydrator Other Abandoned pit- source unknown

Land Type: BLM , State , Fee X, Other

Pit Location: Pit dimensions: length 50, width 50, depth 22
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 30 feet

Direction from reference: 0 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

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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: April 24, 1996 Date Completed: landfarming

Remediation Method: Excavation X Approx. cubic yards 1500-2000
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Location: Onsite _____ Offsite X _____
(ie. landfarmed onsite, name and location of offsite facility) Elliott Oil- Southern Union 1E

General Description Of Remedial Action: Excavated using trackhoe until bedrock
was found. Moved soil to another location for landfarming. Risk assessment
was done and is attached. Excavation was backfilled with clean fill. Some
contaminated soil was left in place after consulting the NMOCD and BLM.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Note: Landfarm is still in place so no final
Closure Sampling: _____ results available at this time.

(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____

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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 5-1-96

SIGNATURE Randy J. Elledge

PRINTED NAME
AND TITLE

Randy J. Elledge (Agent)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-078643
2. Name of Operator Elliott Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. (505) 622-5840 P.O. Box 1355 Roswell, NM 88201	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec. 3 TWN 29 N RNG 13 W	8. Well Name and No. Southern Union 1B
	9. API Well No. 30-045-08854
	10. Field and Pool, or Exploratory Area Basin Dakota
	11. County or Parish, State San Juan

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>Remediation</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

April 24-29, 1996

During the process of installing a leak detection system, a contaminated pit was found and excavated for remedial purposes.

See attached

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DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Agent Date 4-29-96
(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instruction on Reverse Side**

OIL and GAS PROPERTY MANAGEMENT
ENVIRONMENTAL SERVICE

4-29-96

Elliott Oil Company
P.O. Box 1355
Roswell, NM 88201

RE: Abandoned Unlined Surface Impoundment On The Southern Union #1B. Section 3, TWN 29 N,
RNG 13 W, 990 from the North and 1500 from the East.

Dear Sirs,

On April 24, 1996, Elliott Oil Company was required to implement a leak detection system on the steel pit on the Southern Union 1B location. A backhoe was deployed to dig a hole for the installation process. At a depth of one foot highly contaminated soil was found. At this point, Cimarron Oil Field Service, notified Joe Elledge Oil & Gas (Agent) about what had been encountered. At this point I went to the location to perform an evaluation of the contaminates found. The contamination levels were found to be very high and a sample was taken at four feet. Laboratory analysis was requested for Total Petroleum Hydrocarbons by EPA Method 418.1. The results were 16,200 ppm.

At this point I notified the BLM (Bill Liess), and the NMOCD (Denny Foust). Mr. Foust came to the location to further enhance my evaluation. The location is out of the vulnerable area, however, it is in the middle of a residential area. Therefore, he felt this impoundment should be treated with much precaution. I advised the backhoe operator to excavate to the full reach of the equipment being used. Maximum depth reached at this point was 14 feet. Contamination levels were still very high.

A trackhoe was brought in to continue the excavation to greater depths. We reached bedrock at 22 feet. This formation contained the contaminants from traveling in a down gradient direction. The final dimensions of the excavation are 50x50x24. At this point the NMOCD was notified of my findings. I felt that groundwater was not threatened due to the underlying bedrock. The elevation of the well site is 5608 feet. The elevation of the river is 5260 feet. Groundwater at this depth (348 feet) would not be reached by this source. Another water source that was considered for protection is the Farmington Reservoir. Its elevation (5470 feet) in comparison to the well site (5608 feet) allows 138 feet safety zone.

The BLM and the NMOCD felt that I should define the parameters of the plume and the contaminant levels. Three sample holes were dug to be sampled at a depth of 9 feet. They are shown on the attached pages. Laboratory analysis for TPH by EPA Method 418.1 was done. Sample hole 1 tested at 115 ppm. Sample hole 2 tested at 16,327 ppm. Sample hole 3 tested at 72 ppm. The NMOCD witnessed sample hole 1 and sample hole 2. Mr. Foust and I agreed that the high contamination of sample hole 2 was coming from El Paso's closed dehydrator pit. Mr. Foust notified El Paso of their problem.

**OIL and GAS PROPERTY MANAGEMENT
ENVIRONMENTAL SERVICE**

On April 25, 1996, I performed an evaluation on the type of soils encountered. My findings are as follows:

From ground level to two feet the soil consists of a well graded sand. I believe this a combination of fill material and blow sand. At two feet the soil consists of a sandy clay with low to medium plasticity. This layer was four to five feet thick. The formation tends to dip in a Southwest direction. The following layer consists of a clayey gravel approximately 6 feet thick. This consists of a gravel-sand-clay mixture. At this point, we encountered a ten feet thick zone of sand, gravel, and cobble mixture. This is a very porous formation, therefore allowing contaminants to travel both horizontal and vertical. At a depth of 22 feet bedrock was encountered. This consists of a coarse grain sandstone.

Approximately 2000 cubic yards of contaminated soil was removed from this excavation. It will be land farmed on the Southern Union 1E location. This is a much larger location and will be a much more efficient land farm. The Southern Union 1E and the Southern Union 1B are operated by Elliott Oil Company and have the same lease number. Therefore, it is no problem to move the contaminated soil from one location to the other for remedial purposes.

Some contaminated soil was left in this excavation. However, after extensive research and a thorough excavation, I believe that there is very little risk in groundwater contamination from the Southern Union 1B abandoned pit. The entire location is built on bedrock that is found 22 feet below the surface. First possible groundwater is well below 100 feet. The excavation was backfilled with clean fill dirt and slightly domed to allow for settling and erosion.

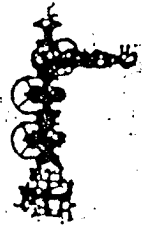
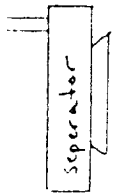
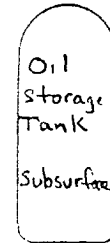
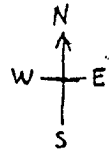
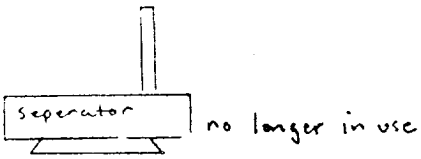
If you have questions or comments feel free to call me at (505) 327-9267 or 320-4969.

Sincerely,

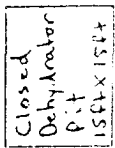
Randy J. Elledge

cc: Elliott Oil Company
NMOCD(Denny Foust)
NMOCD(Bill Olson)
BLM(Bill Liess)

OIL and GAS PROPERTY MANAGEMENT
ENVIRONMENTAL SERVICE

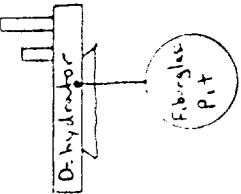


Test hole 3
2 1/2 ft x 9 ft x 9 ft

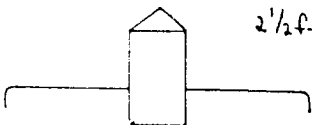


Test hole 2
2 1/2 ft x 9 ft x 9 ft

Unlined Surface Impoundment
Excavation
50 ft x 50 ft x 22 ft



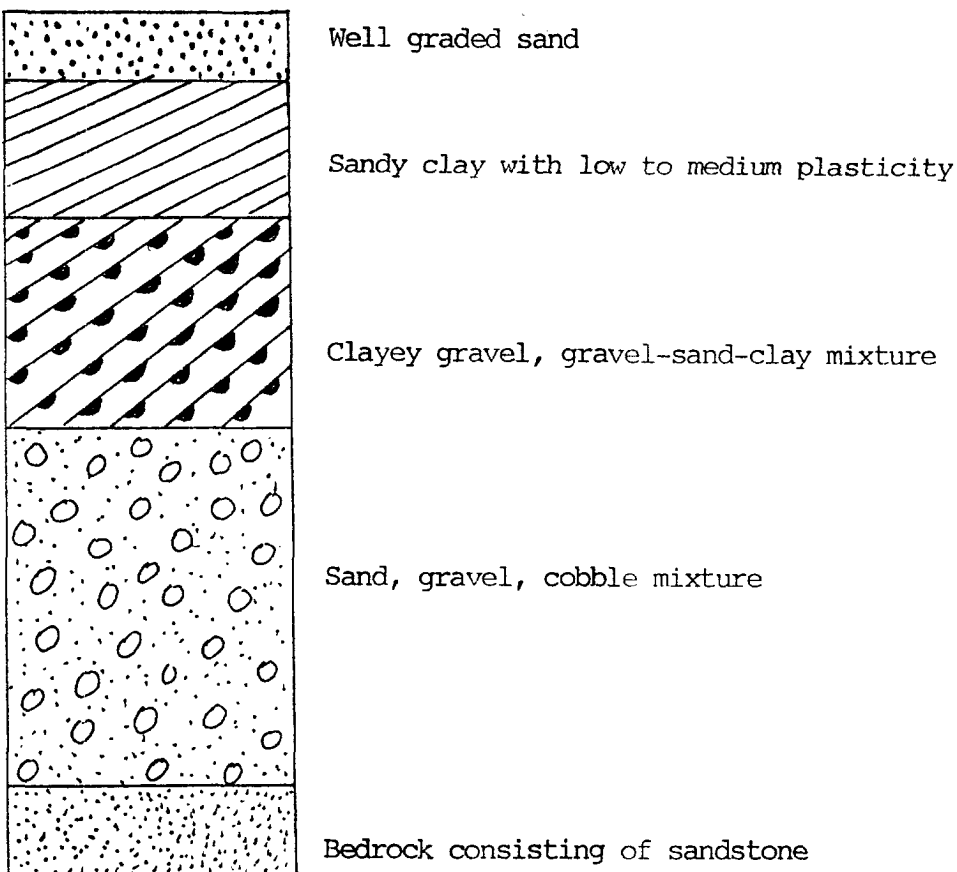
Test hole 1
2 1/2 ft x 9 ft x 9 ft



**OIL and GAS PROPERTY MANAGEMENT
ENVIRONMENTAL SERVICE**

ott Oil Company

3 W, 990 from the North and 1500 from the East



ified Soil Classification System.

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: **Randy J. Elledge**
 Company: **Joe Elledge Oil and Gas**
 Address: **P.O. Box 111**
 City, State: **Farmington, NM 87499**

Date: **29-Apr-96**
 COC No.: **3967**
 Sample No. **10746**
 Job No. **2-1000**

Project Name: **Elliot Oil Company - Southern Union 1B**
 Project Location: **SAM1; Southwest @ 9ft.**
 Sampled by: **RE** Date: **25-Apr-96** Time: **13:46**
 Analyzed by: **HR** Date: **29-Apr-96**
 Sample Matrix: **Soil**

Laboratory Analysis


<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
Total Petroleum Hydrocarbons, TPH	115	25	mg/kg	EPA Method 418.1

Quality Assurance Report**Laboratory Fortified Blank/Spike Soil**

<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Acceptable Range</i>	<i>Unit of Measure</i>
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSSI	895	828 - 1024	mg/kg

Duplication

<i>Laboratory Identification</i>	<i>(% RSD)</i>	<i>Limit (% RSD)</i>
10731-4021	<0.1	15.0

Approved by: 
 Date: **4/29/96**

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Randy J. Elledge*
Company: *Joe Elledge Oil and Gas*
Address: *P.O. Box 111*
City, State: *Farmington, NM 87499*

Date: 29-Apr-96
COC No.: 3967
Sample No. 10747
Job No. 2-1000

Project Name: *Elliot Oil Company - Southern Union 1B*
Project Location: *SAM2; West @ 9ft.*
Sampled by: RE Date: 25-Apr-96 Time: 14:06
Analyzed by: HR Date: 29-Apr-96
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	16327	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	895	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
10731-4021	<0.1	15.0

Approved by: *JaG.*
Date: *4/29/96*

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— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Randy J. Elledge*
Company: *Joe Elledge Oil and Gas*
Address: *P.O. Box 111*
City, State: *Farmington, NM 87499*

Date: 29-Apr-96
COC No.: 3967
Sample No. 10748
Job No. 2-1000

Project Name: *Elliot Oil Company - Southern Union 1B*
Project Location: *SAM3; North @ 9ft.*
Sampled by: RE Date: 25-Apr-96 Time: 10:53
Analyzed by: HR Date: 29-Apr-96
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	72	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	895	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
10731-4021	<0.1	15.0

Approved by:

Date:

Ja4
4/29/96

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: **Randy J. Elledge**
Company: **Joe Elledge Oil and Gas**
Address: **P.O. Box 111**
City, State: **Farmington, NM 87499**

Date: **26-Apr-96**
COC No.: **3966**
Sample No. **10726**
Job No. **2-1000**

Project Name: **Elliott - Southern Union 1B**
Project Location: **SU1B1**
Sampled by: **RE** Date: **24-Apr-96** Time: **10:55**
Analyzed by: **HR** Date: **25-Apr-96**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	16200	25	mg/kg	EPA Method 418.1


Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	835	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
10704-4020	<0.1	15.0

Approved by: 
Date: **4/26/96**

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