

NM2 - 13

**GENERAL  
CORRESPONDENCE  
YEAR(S):**

1999-2007



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

March 19, 2007

Mr. Rodney Bailey  
Environmental Specialist  
MidContinent SBU  
Chevron North America Exploration and Production Company  
15 Smith Road  
Midland, Texas 79705

**RE: February 21, 2007 Inspection Summary of Centralized Landfarm  
Centralized Surface Waste Management Facility Permit NM-2-0013  
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM  
Lea County, New Mexico**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) appreciates Chevron's participation and involvement in the February 21, 2007 inspection of the Chevron Centralized Landfarm Permit NM-2-0013 located in the NE/4 of Section 3, Township 24 South, Range 36 East, NMPM of Lea County, New Mexico. The inspection confirmed OCD's assessment of the file review. The February 21, 2007 inspection revealed that Chevron's permitted landfarm never accepted any oilfield waste and that the construction of the landfarm was never initiated within the permitted area.

It is OCD's understanding that Chevron never commenced construction of the centralized landfarm since the initial permit approval date in 1999. Condition 1 of the Landfarm Construction provision of permit NM-2-0013 states, "construction must be commenced within one (1) year of the permit approval date or the permit will be cancelled." OCD requires Chevron to submit a facility closure request for this facility within 30 days upon receipt of this letter for our review and approval.

If you have any questions, regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs  
Mark Larsen, Larsen & Associates, Inc., Midland, Texas 79710

# OCD ENVIRONMENTAL BUREAU

## SITE INSPECTION SHEET

DATE: 2/21/07 Time: 8:30 AM

Type of Facility: Refinery ☐ Gas Plant ☐ Compressor St. ☐ Brine St. ☐ Oilfield Service Co. ☐  
Surface Waste Mgt. Facility ☒ E&P Site ☐ Crude Oil Pump Station ☐  
Other ☐ \_\_\_\_\_

Discharge Plan No ☒ Yes ☐ GW# \_\_\_\_\_

FACILITY NAME: Texasco / Chevron Centralized SWMF NM-2-013

PHYSICAL LOCATION:

Legal: QTR \_\_\_\_\_ QTR NE Sec 3 TS 24S R 30E County Lea

OWNER/OPERATOR (NAME) Chevron USA Inc.  
Contact Person: Rodney Bailey Tele: # (432) 687-7123 Cell: (432) 894-3551  
MAILING ADDRESS: 15 Smith Road, Midland State TX ZIP 79705  
Owner/Operator Rep's: Rodney Bailey

OCD INSPECTORS: Brad Jones / Carl Chavez

1. **Drum Storage:** All drums containing materials other than fresh water must be stored on an impermeable pad with curbing. All empty drums will be stored on their sides with the bungs in and lined up on a horizontal plane. Chemicals in other containers such as sacks or buckets will also be stored on an impermeable pad and curb type containment.

Site was never used landfarm - No signs of any activity

2. **Process Areas:** All process and maintenance areas which show evidence that leaks and spills are reaching the ground surface must be either paved and curbed or have some type of spill collection device incorporated into the design.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. **Above Ground Tanks:** All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new tanks or

existing tanks that undergo a major modification, as determined by the Division, must be placed within an impermeable bermed enclosure.

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4. Above Ground Saddle Tanks: Above ground saddle tanks must have impermeable pad and curb type containment unless they contain fresh water or fluids that are gases at atmospheric temperature and pressure.

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5. Labeling: All tanks, drums and containers will be clearly labeled to identify their contents and other emergency notification information.

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6. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below-grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing to 3 pounds per square inch above normal operating pressure and/or visual inspection of cleaned out tanks and/or sumps, or other OCD approved methods. The OCD will be notified at least 72 hours prior to all testing.

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7. Underground Process/Wastewater Lines: All underground process/wastewater pipelines must be tested to demonstrate their mechanical integrity at present and then every 5 years thereafter, or prior to discharge plan renewal. The permittee may propose various methods for testing such as pressure testing to 3 pounds per square inch above normal operating pressure or other means acceptable to the OCD. The OCD will be notified at least 72 hours prior to all testing.

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8. Onsite/Offsite Waste Disposal and Storage Practices: Are all wastes properly characterized and disposed of correctly? Does the facility have an EPA hazardous waste number? \_\_\_\_\_ Yes \_\_\_\_\_ No

ARE ALL WASTE CHARACTERIZED AND DISPOSED OF PROPERLY? YES ☐ NO ☐ IF NO DETAIL

BELOW.

Permitted area never used for landfarming activities  
No waste disposed / treated on site  
Result of inspection  
\* Requesting closure of facility

9. Class V Wells: Leach fields and other wastewater disposal systems at OCD regulated facilities which inject non-hazardous fluid into or above an underground source of drinking water are considered Class V injection wells under the EPA UIC program. All Class V wells that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes will be closed unless it can be demonstrated that groundwater will not be impacted in the reasonably foreseeable future. Closure of Class V wells must be in accordance with a plan approved by the Division's Santa Fe Office. The OCD allows industry to submit closure plans which are protective of human health, the environment and groundwater as defined by the WQCC, and are cost effective. Class V wells that inject domestic waste only must be permitted by the New Mexico Environment Department.

ANY CLASS V WELLS    NO ☒ YES ☐ IF YES DESCRIBE BELOW !    Undetermined ☐

10. Housekeeping: All systems designed for spill collection/prevention will be inspected weekly and after each storm event to ensure proper operation and to prevent overtopping or system failure. A record of inspections will be retained on site for a period of five years.

11. Spill Reporting: All spills/releases will be reported pursuant to OCD Rule 116 and WQCC 1203 to the proper OCD District Office.

12. Does the facility have any other potential environmental concerns/issues?

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13. Does the facility have any other environmental permits - i.e. SPCC, Stormwater Plan, etc.?

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14. ANY WATER WELLS ON SITE? NO ☒ YES ☐ IF YES, HOW IS IT BEING USED ?

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15. Documents reviewed:

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Miscellaneous Comments:

*Area never used as landfill - no signs of development*

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Photos taken: \_\_\_\_\_

Documents Reviewed/Collected: \_\_\_\_\_

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Never active



No signs of construction



Rodney Bailey – Chevron representative

Road - only modification to property



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

7001 1940 0004 7920 7577

March 4, 2005

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

ChevronTexaco Exploration & Production, Inc.  
15 Smith Rd.  
Midland, TX 79705

Permit Number: NM-2-0013

Re: Administrative Modification of Landfarm Permits

The Oil Conservation Division (OCD) issued the landfarm permit identified above under OCD Rule 711. As explained in the public notice given prior to the issuance of the permit, the permit was for landfarming to remediate hydrocarbon-contaminated soils. The language of the permit, however, is broader, allowing the facility to accept oilfield contaminated solids which are either exempt from the Federal RCRA Subtitle C (hazardous waste) regulations or are "nonhazardous" by characteristic testing. If this language were interpreted to allow the landfarm to accept oilfield waste contaminated with salts, the salts could compromise the biodegradation capacity of the landfarm. And because salts leach more easily than hydrocarbons, the landfarm may pose a greater threat to groundwater.

According to the terms of the permit identified above, the OCD may change the permit conditions administratively for good cause shown as necessary to protect fresh water, human health and the environment. The OCD has determined that it is necessary to protect fresh water, human health and the environment to modify the permit as follows:

**Effective immediately, the NMOCD permitted landfarm identified above is prohibited from accepting oilfield waste contaminated with salts.**

If the landfarm identified above wishes to accept oilfield waste contaminated with salts, you will need to file an application to modify the permit pursuant to OCD Rule 711.B(1) and follow the notice requirements of OCD Rule 711.B(2). If you have already filed a complete application for permit modification with this office and complied with the notice requirements, the OCD will process the application promptly.

Landfarms that wish to accept oilfield wastes contaminated with salts while their application for permit modification is pending may apply to the Division Director for an emergency order under OCD Rule 1202. Applications for emergency orders will be considered on a case-by-case basis.

This notice is being sent to all entities operating landfarm facilities in New Mexico permitted pursuant to OCD Rule 711, as shown on the attached list.

If you have any questions, please contact Ed Martin at (505) 476-3492 or [emartin@state.nm.us](mailto:emartin@state.nm.us).

Very truly yours,

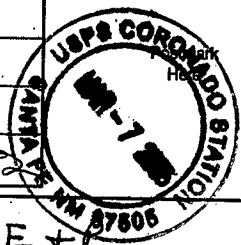
Mark E. Fesmire, P.E.



U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

**OFFICIAL USE**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 4.29</b>



NM-2-013

**Sent To**  
**CHEVRONTExaco E + P**  
Street, Apt. No.,  
or PO Box No. **15 SMITH RD.**  
City, State, ZIP+4 **MIDLAND, TX 79705**

PS Form 3800, January 2001 See Reverse for Instructions

7001 1940 0004 7920 7577



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

September 20, 2004

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

Mr. Rodney Bailey  
ChevronTexaco  
15 Smith Rd.  
Midland, TX 79705

Dear Mr. Bailey:

Since the New Mexico Oil Conservation Division (NMOCD) promulgated Rule 50 covering pits and below-grade tanks, there has arisen a need, in certain circumstances, for operators to transport their drill cuttings off-site and dispose of them.

NMOCD Rule 711, as it pertains to landfarms, does not specifically address the issue of exempt oilfield wastes that may be contaminated with salts. Your landfarm application and permit were written with only hydrocarbon-contaminated soils in mind. Salt-contaminated wastes cause the following problems:

1. Lessening the effectiveness of the biodegradation capacity of your landfarm
2. Rapid leachability causing adverse effects on groundwater

If you want to accept salt-contaminated cuttings or any other salt-contaminated wastes, your 711 permit must be modified to ensure that your acceptance of those wastes will not adversely affect public health or the environment.

Please check one of the following:

☐ I have accepted or intend to accept salt-contaminated wastes in my landfarm. An OCD form C-137, applying for a modification to my 711 permit is attached. Included, as an attachment, is a demonstration that the accepted salt-contaminated soils will not adversely affect groundwater in the foreseeable future. (Closure requirements will also require modification to ensure the protection of groundwater. Should your acceptance of salt-contaminated wastes prove detrimental to groundwater, future liability for such damage rests with the landfarm operator).

☐ I do not intend to accept salt-contaminated wastes in my landfarm. Should this condition change, I will submit an OCD Form C-137 for a modification to my 711 permit at that time.

New Mexico Oil Conservation Division  
Attn: Ed Martin  
1220 S. St. Francis  
Santa Fe, NM 87505

This letter must be returned to the above address no later than October 31, 2004. An extension of time may be granted if you contact this office no later than that date.

If you have any questions, contact Ed Martin (505) 476-3492 or [emartin@state.nm.us](mailto:emartin@state.nm.us)

Signed \_\_\_\_\_

Date \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

March 4, 2004

**Lori Wrotenbery**

Director

**Oil Conservation Division**

Mr. Rodney Bailey  
ChevronTexaco  
15 Smith Road  
Midland, TX, 79705

**RE: Texaco E & P Inc.,  
Surface Waste Management Facility Permits NM-02-0012 and NM -02-0013  
W/2 of Section 17, Township 24 South, Range 36 East, NMPM, and the  
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM  
Lea County, New Mexico  
Safeco Insurance Company of America, Bond 5858777**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) has reviewed Texaco Exploration and Production Inc. permits NM-02-0012 and NM-02-0013 and financial assurance with Safeco Insurance Company of America, Bond 5858777. Currently the OCD has Texaco Exploration and Production Inc. as the permit and bond holder. Please advise if these documents are accurate or if the operator name needs to be changed and financial assurance updated.

I can be reached at (505) 476-3488 or [mkieling@state.nm.us](mailto:mkieling@state.nm.us).

Sincerely,

Martyne J. Kielling  
Environmental Geologist

xc: OCD Hobbs Office



**THE REPRODUCTION OF**

**THE**

**FOLLOWING**

**DOCUMENT ( S )**

**CANNOT BE IMPROVED**

**DUE TO**

**THE CONDITION OF**

**THE ORIGINAL**

P.O. Box 1558  
1324 North Main  
Eunice, New Mexico 88231  
Telephone 505.394.3481  
FAX 505.394.2601

**ENVIRONMENTAL PLUS, INC.**

Mobile Telephone #  
Ben Miller 505.390.0288  
Pat McCasland 505.390.7864  
Roger Boone 505.390.2725

**Micro-Blaze****Fax**

To: Martyn Keiling NMCD From: Pat McCasland  
Fax: 505.827.8177 Pages: 2  
Phone: 505.827.7153 Date: 7.27.00  
Re: \_\_\_\_\_ CC: \_\_\_\_\_  
☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

## ● Comments:

Martyn,

Here is a letter concerning  
Activities at the Texco Coats landfarm  
in Sec. 3. Rodney ask that I fax  
it to you to establish that work has  
begun.

Thanks

Pat McCasland



STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

cc: Sherry Miller, EPP President

# ENVIRONMENTAL PLUS, INC.

Make copy

STATE OF NEW MEXICO  
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal Time <sup>10:25</sup> ~~7-25-00~~ Date 7-25-00

Originating Party

Pat Macasland  
For Texas

Other Parties

Martynne Kieling

Subject

Pipeline None, only Flow lines, on New Site Sec 3  
No Structures Survey Done to begin construction  
I.

Discussion

3 inch Rain Fill up cell Repaired.  
Nothing left site

Annual Report will be a little late. Pat has sent  
Report to Rodney Bink and he is out of town until  
7-27-00 (Report Due Date)

Conclusions or Agreements

I approved that the Report could  
be a little late. Call was appreciated

Distribution

Sec 17  
Sec 3 Files

Signed

Martynne Kieling



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

April 20, 2000

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-559-573-301**

Mr. Rodney Bailey  
Texaco E&P Inc.  
205 East Bender  
Hobbs, NM 88240

**RE: Surface Waste Management Facility Inspection Report: Permit NM-01-0013**  
**Texaco E & P Inc.**  
**NE/4 of Section 3, Township 24 South, Range 36 East, NMPM,**  
**Lea County, New Mexico**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD) inspected the Texaco E&P Inc. (Texaco) centralized surface waste management facility at the above location on April 12, 2000. At the time of this inspection the Texaco facility had not yet been constructed. Attachment 1 contains photographs taken during the location inspection. Please be advised that construction of the landfarm must be commenced within one (1) year of the permit approval date or the permit will be canceled. The permit NM-01-0013 was approved on July 27, 1999.

A review of Texaco's financial assurance finds that Texaco's \$50,000 State wide blanket bond No. 5858777 is current and active.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyne J. Kielling  
Environmental Geologist

Attachments

xc: Hobbs OCD Office



ATTACHMENT 1:

Page 1

Texaco E&P, Inc. Permit NM-02-0013



Photo 1            04-12-00  
Looking north toward landfarm location



Photo 2            04-12-00  
Looking northwest toward landfarm location



Texaco E & P

**RECEIVED**

JUN 8 1999

Environmental Bureau  
Oil Conservation Division

Date: June 4, 1999

Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
Martyne J. Kieling  
Environmental Geologist

RE: Texaco Exploration and Production, Inc. 711 Facility  
W/2 of Section 17, Township 24S, Range 36E, NMPM,  
Lea County, New Mexico.

Attached is the original certified affidavit of publication from both the Lovington Daily Leader and the Santa Fe New Mexican for the proposed land farm in section 17, T 24S, R 36E. Also attached is original Return Receipt from letters sent to surface owners of record with in one mile of the proposed facility and to the county commission. The letters sent to surface owners addressed the proposed land farm in section 3, T 24S, R 36E and section 17, T 24S, R 36E. If additional information is needed, please notify me at 505-397-0422. Texaco would appreciate immediate attention to this matter. Thank you.

Sincerely,

Rodney Bailey  
SH&E Professional  
Texaco, Hobbs Operating Unit

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Donald Whitten  
Box 1713  
Oracle, AZ 85623

4a. Article Number

2577 009 060

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5-27-99 ST

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X *John Howell*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Lea Co. Extension Sew.  
Courthouse  
Drawer 10 c  
Lovington NM 88260

4a. Article Number

2577 009 061

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5-26-99 SM

5. Received By: (Print Name)

Anne Crawley

6. Signature: (Addressee or Agent)

X *Anne Crawley*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-B-0229

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

<b>SENDER:</b> ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to: Whitten / Lee 4305 N. Garfield Midland, TX. 79705	4a. Article Number Z 577 009 062	Thank you for using Return Receipt Service.
5. Received By: (Print Name)	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
6. Signature: (Addressee or Agent) X <i>Suzanne Whitten</i>	7. Date of Delivery 5-26-99 RO 8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811 December 1994 102595-98-B-0229 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

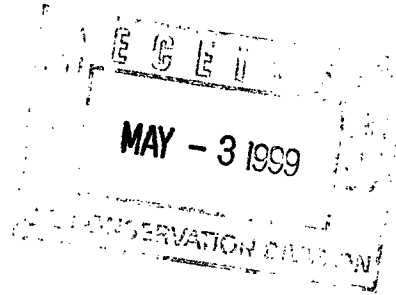
<b>SENDER:</b> ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
3. Article Addressed to: Deep Wells Ranch Star Route Combat Ranch Jal, NM 88252	4a. Article Number Z 577 009 065	Thank you for using Return Receipt Service.
5. Received By: (Print Name)	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
6. Signature: (Addressee or Agent) X <i>Telly</i>	7. Date of Delivery 5-27-99 8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt



Texaco E & P

205 E. Bender Blvd.  
Hobbs NM 88240  
505 393 7191



Date: April 28, 1999

Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
Martyne J. Kieling  
Environmental Geologist

RE: Texaco Exploration and Production, Inc. 711 Facility  
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM  
Lea County, New Mexico.

Attached is the original certified affidavit of publication from both the Lovington Daily Leader and the Santa Fe New Mexican. Also attached are copies of letters sent to surface owners of record within one mile of the proposed facility and to the county commission that the proposed facility is to be located. Each surface owner was also sent a copy of the Notice of Publication.

If you have any questions please call me at 505-397-0422.

Sincerely,

Rodney Bailey  
SH&E Professional  
Texaco Hobbs Operating Unit

(505)  
Cell phone # 369 7111

# The Santa Fe New Mexican

Since 1849. We Read You.

RODNEY BAILEY  
205 E. BENDER  
HOBBS, NM 88240

AD NUMBER: 78604      ACCOUNT: 01001  
LEGAL NO: 65195      P.O.#:  
149 LINES      1 time(s) at \$ 96.91  
AFFIDAVITS: 5.25  
TAX: 6.39  
TOTAL: 108.55

## AFFIDAVIT OF PUBLICATION

### NOTICE OF PUBLICATION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following application has been submitted to the Director of the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

Texaco Exploration and Production Inc., Rodney Bailey, EH & S Coordinator, 205 East Bender, Hobbs, New Mexico, 88240, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the NE/4 of Section 3, Township 24 South, Range 36 East, NMPM, Lea County, New Mexico. Hydrocarbon contaminated soils associated with Texaco's oil and gas production operations will be remediated by spreading them on the ground surface in 12 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is at a depth of 200 feet with a total dissolved solids concentration of approximately 300 parts per million. The facility is underlain by Quaternary dune sands, alluvium and the Ogallala Formation. The Ogallala Formation rests unconformably upon Triassic and Creta-

ceous rocks. The permit application addresses the construction, operations, spill-leak prevention and monitoring procedures to be incorporated at the proposed site.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines there is significant public interest.

If no hearing is held, the Director will approve or disapprove the application based on the information available. If a public hearing is held, the director will approve the application based on the information in the application and information presented at the hearing.

Legal #65195  
Pub. April 14, 1999

STATE OF NEW MEXICO  
COUNTY OF SANTA FE

I, B. Reiner being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTE FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a Newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication #65195 a copy of which is hereto attached was published in said newspaper 1 day(s) between 04/14/1999 and 04/14/1999 and that the notice was published in the newspaper proper and not in any supplement; the first publication being on the 14 day of April, 1999 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/s/

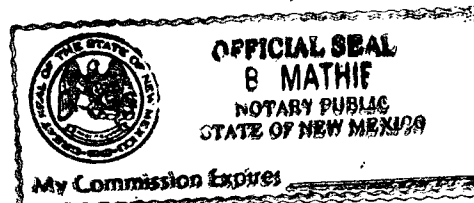
Betty Reiner  
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this  
14 day of April A.D., 1999

Notary

Commission Expires

3-7-2001



# Affidavit of Publication

STATE OF NEW MEXICO )

) ss.

COUNTY OF LEA )

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Notice of Publication

~~and xxxxxxxxx~~ ~~xxxxxx~~

~~County of Lea~~  
~~County of New Mexico~~ was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, ~~once each week on the same day of the week~~ for One (1) Day

~~consecutive weeks~~ beginning with the issue of April 11 1999

and ending with the issue of April 11 1999

And that the cost of publishing said notice is the sum of \$ 49.49

which sum has been (Paid) (Assessed) as Court Costs

Subscribed, and sworn to before me this

day of April 11 1999

Debbie Schilling  
Notary Public, Lea County, New Mexico

My Commission Expires June 22 192002

following application has been submitted to the Director of the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

Texaco Exploration and Production Inc., Rodney Bailey, EH & S Coordinator, 205 East Bender, Hobbs, New Mexico, 88240, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the NE/4 of Section 3, Township 2N, South, Range 36 East, NMPM, Lea County, New Mexico. Hydrocarbon contaminated soils associated with Texaco's oil and gas production operations will be remediated by spreading them on the ground surface in 12 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is at a depth of 200 feet with a total dissolved solids concentration of approximately 300 parts per million. The facility is underlain by Quaternary dune sands, alluvium and the Ogallala Formation. The Ogallala Formation rests unconformably upon Triassic and Cretaceous rocks. The permit application addresses the construc-

tion, operations, spill/leak prevention and monitoring procedures to be incorporated at the proposed site.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

If no hearing is held, the Director will approve or disapprove the application based on the information available. If a public hearing is held, the Director will approve the application based on the information in the application and information presented at the hearing. Published in the Lovington Daily Leader April 11, 1999.

## LEGAL NOTICE NOTICE OF PUBLICATION

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the



Texaco E & P

205 E. Bender Blvd.  
Hobbs NM 88240  
505 393 7191

Date: April 5, 1999

Whitten/Lee  
4305 N. Garfield  
Midland Texas 79705

Re: Public Notice for Texaco Exploration and Production, Inc.  
711 Waste Management Facility ( Landfarm)

Texaco Exploration and Production Inc, has applied for a 711 waste management facility located in NE/4 of section 3, Township 24 South, Range 36 East, NMPM, Lea County. This facility will be used to remediate hydrocarbon soils associated with Texaco's oil and gas productions operations.

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Sincerely,

Rodney Bailey  
SH&E Professional  
Hobbs Operating Unit



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Texaco E & P

203 E. Bender Blvd  
Hobbs NM 88240  
505 393 7191

Date: April 5, 1999

Lea County Extension Service  
Courthouse  
Drawer 10 C  
Lovington, NM 88260

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Rodney Bailey  
SH&E Professional  
Hobbs Operating Unit

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Texaco E & P

205 E. Bender Blvd.  
Hobbs NM 88240  
505 393 7191

Date: April 5, 1999

Donald L. Whiten  
Box 1713  
Oracle Arizona  
85623

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SH&E Professional  
Hobbs Operating Unit

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Texaco E & P

205 E. Bender Blvd  
Hobbs NM 88240  
505 393 7191

Date: April 5, 1999

Deep Wells Ranch  
Star Route  
Combest Ranch  
Jal, New Mexico  
88252

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Rodney Bailey  
SH&E Professional  
Hobbs Operating Unit

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**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

March 26, 1999

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. P-326-936-526**

Mr. Rodney Bailey  
Texaco E & P, Inc.  
205 East Bender  
Hobbs, NM 88240

**RE: Public Notice for Texaco Exploration and Production, Inc. 711 Facility  
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM,  
Lea County, New Mexico.**

Dear Mr. Bailey:

The New Mexico Oil Conservation Division (OCD), has received the Texaco Exploration and Production, Inc. (Texaco) application for a 711 waste management facility dated March 19, 1998. The application proposes the construction of a landfarm 711 facility. The facility is to be located in NE/4 of Section 3, Township 24 South, Range 36 East, NMPM, Lea County, New Mexico.

Based on the information provided with the application Form C-137 and additional information dated October 1, 1998 and January 12, 1999, the OCD has prepared a public notice statement that Texaco must published in the Lovington Daily Leader and in the Santa Fe New Mexican newspapers. Texaco must send the original certified affidavit of publication from both the Lovington Daily Leader and the Santa Fe New Mexican to the OCD Santa Fe office and a copy to the appropriate District office.

In addition, Texaco must give written notice to all surface owners of record within one mile of the proposed facility and to the county commission that the proposed facility is to be located. A copy and proof of such notice will be furnished to the OCD Santa Fe office and a copy to the appropriate District office. The written notice shall include all information provided in the public notice.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyne J. Kielling  
Environmental Geologist

Attachments

xc: Hobbs OCD Office



## NOTICE OF PUBLICATION

Notice is hereby given that pursuant to the New Mexico Oil Conservation Division Regulations, the following application has been submitted to the Director of the Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87505, Telephone (505) 827-7131:

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Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted to him and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

July 27, 1999

**CERTIFIED MAIL**

**RETURN RECEIPT NO. P-326-936-546**

Mr. Rodney Bailey  
Texaco E&P Inc.  
205 East Bender  
Hobbs, NM 88240

**RE: Texaco E & P Inc.  
OCD Rule 711 Permit Approval NM-02-0013  
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM,  
Lea County, New Mexico**

Dear Mr. Bailey:

The permit application for the Texaco E&P Inc. (Texaco) centralized surface waste management landfarm facility located in the NE/4 of Section 3, Township 24 South, Range 36 East, NMPM, Lea County, New Mexico, **is hereby approved** in accordance with the New Mexico Oil Conservation Division (OCD) Rule 711 under the conditions contained in the enclosed attachment. **This permit approval is conditional upon the receipt and approval by the Director of financial assurance in the amount of \$25,000 for this facility or a \$50,000 blanket financial assurance for all of Texaco's centralized surface waste management facilities.** Construction of the facility and/or receipt of contaminated soil shall not commence until the financial assurance has been approved by the Director. The application consists of the original application dated March 19, 1999, and the materials dated October 1, 1998, January 12, 1999 and June 4, 1999 submitted as supplements to the application.

The construction, operation, monitoring and reporting shall be as specified in the enclosed attachment. All modifications and alternatives to the approved landfarming methods must receive prior OCD approval. Texaco is required to notify the Director of any facility expansion or process modification and to file the appropriate materials with the Division.

Please be advised approval of this facility does not relieve Texaco E&P Inc. of liability should your operation result in actual pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Texaco E&P Inc. of responsibility for compliance with

Mr. Rodney Bailey  
July 27, 1999  
Page 2

other federal, state or local laws and/or regulations.

Please be advised that all tanks exceeding 16 feet in diameter and exposed pits, ponds or lagoons must be screened, netted or otherwise rendered nonhazardous to migratory birds. In addition, OCD Rule 310 prohibits oil from being stored or retained in earthen reservoirs or open receptacles.

The facility is subject to periodic inspections by the OCD. The conditions of this permit and the facility will be inspected and reviewed by the OCD no later than five (5) years from the date of this approval.

Enclosed are two copies of the conditions of approval. **Please sign and return one copy to the OCD Santa Fe Office within five working days of receipt of this letter.**

If you have any questions please do not hesitate to contact Martyne J. Kieling at (505) 827-7153.

Sincerely,

A handwritten signature in cursive script, reading "Lori Wrotenbery". The signature is fluid and extends slightly to the right.

Lori Wrotenbery  
Director

LR/mjk

xc with attachments:  
Hobbs OCD Office

**ATTACHMENT TO OCD 711 PERMIT APPROVAL  
PERMIT NM-02-0013  
TEXACO E&P, INC.  
SURFACE WASTE MANAGEMENT FACILITY  
NE/4 of Section 3, Township 24 South, Range 36 East, NMPM,  
Lea County, New Mexico  
(July 27, 1999)**

**LANDFARM CONSTRUCTION**

1. Construction must be commenced within one (1) year of the permit approval date or the permit will be canceled.
2. The facility must be fenced and have a sign at the entrance. The sign must be legible from at least fifty (50) feet and contain the following information: a) name of the facility; b) location by section, township and range; and c) emergency phone number.
3. Contaminated soils may not be placed within one hundred (100) feet of the neighboring property boundary or within twenty-five (25) feet of the facility boundary.
4. Contaminated soils may not be placed within twenty (20) feet of any pipeline or well pad and equipment including existing or former pit locations. In addition, no equipment may be operated within ten (10) feet of a pipeline. All pipelines crossing the facility must have surface markers identifying the location of the pipelines.
5. The portion of the facility containing contaminated soils must be bermed to prevent runoff and runoff. A perimeter berm and individual cell berms no less than one and a half (1½) feet above grade must be constructed and maintained such that they are capable of containing precipitation from a one-hundred year flood for the specific region.

**LANDFARM OPERATION**

1. Disposal may occur only when an attendant is on duty. The facility must be secured when no attendant is present.
2. All contaminated soils received at the facility must be spread and disked within 72 hours of receipt.
3. Soils must be spread on the surface in twelve (12) inch lifts or less.
4. Soils must be disked a minimum of one time every two weeks (biweekly) to enhance

biodegradation of contaminants.

5. Exempt contaminated soils must be placed in the landfarm so that they are physically separate (*i.e.*, bermed) from non-exempt contaminated soils. There may be no mixing of exempt and non-exempt soils.
6. Successive lifts of contaminated soils may not be spread until a laboratory measurement of total petroleum hydrocarbons (TPH) in the previous lift is less than 100 parts per million (ppm), the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and benzene is less than 10 ppm. Comprehensive records of the laboratory analyses and the sampling locations must be maintained at the facility. Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of the remediated soils.
7. Moisture must be added as necessary to enhance bioremediation and to control blowing dust. There may be no ponding, pooling or run-off of water allowed. Any ponding of precipitation must be removed within twenty-four (24) hours of discovery.
8. Enhanced bio-remediation through the application of microbes (bugs) and/or fertilizer requires prior approval from the OCD. Requests for application of microbes or fertilizers must include the location of the area designated for the program, the composition of additives, and the method, amount and frequency of application.
9. Landfarm inspection and maintenance must be conducted on a weekly basis or immediately following a consequential rainstorm or windstorm.

#### **TREATMENT ZONE MONITORING**

1. One (1) background soil sample must be taken from the center portion of the landfarm two (2) feet below the native ground surface prior to operation. The sample must be analyzed for total petroleum hydrocarbons (TPH), major cations/anions, volatile aromatic organics (BTEX), and eight (8) RCRA heavy metals using EPA-approved methods.
2. A treatment zone not to exceed three (3) feet beneath the landfarm native ground surface must be monitored. A minimum of one random soil sample must be taken from each individual cell, with no cell being larger than five (5) acres, six (6) months after the first contaminated soils are received in the cell and then quarterly thereafter. The sample must be taken at two (2) to three (3) feet below the native ground surface.
3. The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major

cations/anions and eight (8) RCRA heavy metals annually.

4. After obtaining the soil samples the boreholes must be filled with an impermeable material such as cement or bentonite.

#### WASTE ACCEPTANCE CRITERIA

1. The facility is authorized to accept only exempt and "non-hazardous" non-exempt oilfield wastes that are generated in the State of New Mexico by Texaco E&P, Inc.
2. The facility is authorized to accept only:
  - a. Oilfield wastes that are exempt from RCRA Subtitle C regulations and that do not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.
  - b. "Non-hazardous" non-exempt oilfield wastes on a case-by-case basis after conducting a hazardous waste characterization including corrosivity, reactivity, ignitability, and toxic constituents. The samples for these analyses must be obtained from the wastes prior to removal from the point of origin and without dilution in accordance with EPA SW-846 sampling procedures. The test for hazardous characteristics for a particular waste may be effective for an extended period of time from the date of analysis if approved by the OCD. In addition the generator must certify that this waste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.
3. At no time may any OCD-permitted surface waste management facility accept wastes that are hazardous by either listing or characteristic testing
4. No free liquids or soils with free liquids may be accepted at the facility.
5. The transporter of any wastes to the facility must supply a certification that wastes delivered are those wastes received from the generator and that no additional materials have been added.
6. Comprehensive records of all material disposed of at the surface waste management facility must be maintained by the permit holder.

### **REPORTING AND RECORD KEEPING**

1. Analytical results from the treatment zone monitoring including a sample location map will be submitted to the OCD Santa Fe office **by July 27 of each year.**
2. Background sample analytical results must be submitted to the OCD Santa Fe office **within thirty (30) days** of receipt from the laboratory.
3. The applicant must notify the **OCD Hobbs District office within 24 hours** of any fire, break, leak, spill, blowout or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116.
4. All records of testing and monitoring must be retained for a period of five (5) years.
5. The OCD must be notified prior to the installation of any pipelines or wells or other construction within the boundaries of the facility.

### **FINANCIAL ASSURANCE**

1. Pursuant to OCD Rule 711.B.3.a., financial assurance in a form approved by the Director is required from Texaco E&P, Inc. in the amount of **\$25,000** for this facility or **\$50,000** for all of Texaco E&P, Inc.'s centralized surface waste management facilities in the state
2. Financial assurance must be submitted within thirty (30) days of this permit approval or on **August 27, 1999.**
3. The facility is subject to periodic inspections by the OCD. The conditions of this permit and the facility will be reviewed no later than five (5) years from the date of this approval.

### **CLOSURE**

1. The OCD Santa Fe and Hobbs offices must be notified when operation of the facility is discontinued for a period in excess of six (6) months or when the facility is to be dismantled. Upon cessation of landfarming operations for six (6) consecutive months, the operator must complete cleanup of constructed facilities and restoration of the facility site within the following six (6) months, unless an extension of time is granted by the Director.
2. A closure plan to include the following procedures must be submitted to the OCD Santa Fe office for approval:

- a. When the facility is to be closed no new material will be accepted.
- b. Existing landfarm soils will be remediated until they meet the OCD standards in effect at the time of closure.
- c. The treatment zone soils beneath the landfarm cells will be characterized as to the total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) content in order to determine potential migration of contamination beneath the facility.
- d. The area will be contoured, seeded with native grasses and allowed to return to its natural state. If the landowner desires to keep existing structures, berms, or fences for future alternative uses the structures, berms, or fences may be left in place.
- e. Closure will be pursuant to all OCD requirements in effect at the time of closure, and any other applicable local, state and/or federal regulations.

### **CERTIFICATION**

Texaco E&P, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. Texaco E&P, Inc. further acknowledges that these conditions and requirements of this permit may be changed administratively by the Division for good cause shown as necessary to protect fresh water, human health and the environment.

Accepted:

TEXACO E&P, INC.

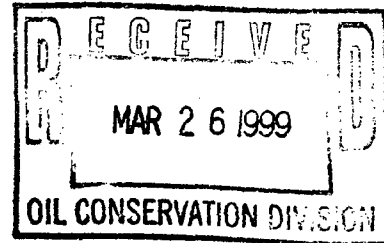
Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_





# Highlander Environmental Corp.

Midland, Texas



March 25, 1999

Ms. Martyne J. Kieling  
Environmental Bureau  
New Mexico Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

**RE: Centralized Landfarm Permit Application for Texaco Exploration and Production, Inc., NE/4 of Section 3, Township 24 South, Range 36 East, Lea County, New Mexico**

Dear Ms. Kieling,

Please find enclosed an additional copy of the centralized soil remediation/landfarm (Facility) permit application, originally submitted on 3/19/99. Highlander Environmental Corp. (Highlander) prepared the application on behalf of Texaco Exploration and Production, Inc., (Texaco). The location for the proposed facility is the northeast quarter (NE/4) of Section 3, Township 24 South, Range 36 East, Lea County, New Mexico. This application replaces an application previously submitted by Texaco for a facility originally proposed for the west 1/2 of Section 17, Township 24 South, Range 36 East, Lea County, New Mexico.

Your expeditious review of the enclosed application is greatly appreciated. Please call me at (915) 682-4559 if you have any questions or need additional information.

Sincerely,  
*Highlander Environmental Corp.*

Mark J. Larson  
Senior Project Manager

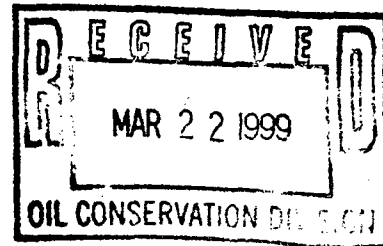
Encl

cc: Mr. Rodney Bailey, Texaco E&P, Inc., Hobbs, NM  
Mr. Chris Williams, OCD District I, Hobbs, NM



## Highlander Environmental Corp.

Midland, Texas



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**APPLICATION FOR WASTE MANAGEMENT FACILITY  
CENTRALIZED SOIL REMEDIATION/LANDFARM  
NE/4 SECTION 3, TOWNSHIP 24 SOUTH, RANGE 36 EAST  
LEA COUNTY, NEW MEXICO**

**Prepared for:**

**Texaco Exploration and Production, Inc.  
205 East Bender  
Hobbs, New Mexico**

**Prepared by:**

**Highlander Environmental Corp.  
1910 N. Big Spring  
Midland, Texas**

**March 1999**



---

*Highlander Environmental Corp.*

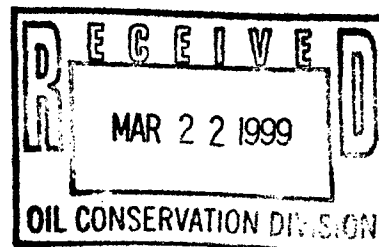
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*Midland, Texas*



## Highlander Environmental Corp.

Midland, Texas



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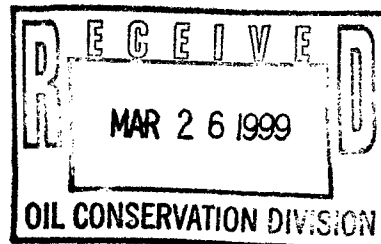
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## Highlander Environmental Corp.

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Encl

cc: Mr. Rodney Bailey, Texaco E&P, Inc., Hobbs, NM  
Mr. Chris Williams, OCD District I, Hobbs, NM

District I - (505) 393-6161  
O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
111 S. First  
Mesita, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Artec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-137  
Originated 8/8/95

Submit Original  
Plus 1 Copy  
to Santa Fe  
1 Copy to appropriate  
District Office

APPLICATION FOR WASTE MANAGEMENT FACILITY

(Refer to the OCD Guidelines for assistance in completing the application)

☐ Commercial

☒ Centralized

1. Type: ☐ Evaporation ☐ Injection ☐ Other  
☒ Solids/Landfarm ☐ Treating Plant

2. Operator: Texaco Exploration and Production, Inc.

Address: 205 East Bender, Hobbs, New Mexico

Contact Person: Rodney Bailey

Phone: (505) 397-0422

3. Location: - /4 NE /4 Section 3 Township 24 South Range 36 East

Submit large scale topographic map showing exact location

4. Is this a modification of an existing facility? ☐ Yes ☒ No

5. Attach the name and address of the landowner of the facility site and landowners of record within one mile of the site.

6. Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.

7. Attach designs prepared in accordance with Division guidelines for the construction/installation of the following: pits or ponds, leak-detection systems, aerations systems, enhanced evaporation (spray) systems, waste treating systems, security systems, and landfarm facilities.

8. Attach a contingency plan for reporting and clean-up for spills or releases.

9. Attach a routine inspection and maintenance plan to ensure permit compliance.

10. Attach a closure plan.

11. Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact groundwater. Depth to and quality of ground water must be included.

12. Attach proof that the notice requirements of OCD Rule 711 have been met.

13. Attach a contingency plan in the event of a release of H<sub>2</sub>S.

14. Attach such other information as necessary to demonstrate compliance with any other OCD rules, regulations and orders.

15. CERTIFICATION

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Rodney Bailey

Title: EH&S Coordinator

Signature: Rodney Bailey

Date: March 19, 1999

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- A.     **Rainfall Data**
- B.     **Chain-of-Custody Record**





**APPLICATION FOR WASTE MANAGEMENT FACILITY  
SOIL REMEDIATION/LANDFARM FACILITY  
LEA COUNTY, NEW MEXICO**

**1.0    TYPE OF OPERATION**

This application is for a centralized soil remediation/landfarm facility, owned and operated by Texaco Exploration and Production, Inc.

**2.0    OPERATOR**

Texaco Exploration and Production, Inc.  
205 East Bender  
Hobbs, New Mexico 88240

Contact Person:        Rodney Bailey  
Phone Number:        (505) 397-0422

**3.0    LOCATION OF LANDFARM**

The proposed waste management facility (Site) will be located in the northeast quarter (NE/4) of Section 3, Township 24 South, Range 36 East, Lea County, New Mexico. Figure 1 and Figure 2 present USGS 1<sup>0</sup> x 2<sup>0</sup> and 7 ½ minute topographic maps, respectively, showing the location and topography for the Site.

The Site is located approximately 9 miles northwest of Jal, New Mexico, and is accessed from the intersection of New Mexico State Highway 18 and Jal-Cooper Cemetery Road, approximately 6 miles north of Jal, New Mexico. Drive approximately 3 miles west on Jal-Cooper Cemetery Road from its intersection with Highway 18. Turn north and drive approximately 2 miles on caliche covered road to Site.

**4.0    EXPANSION REQUEST**

This application is for a new facility, not an expansion request.



## 5.0 LAND & OWNERSHIP

A summary of land ownership for the Site and surrounding area is presented below. Figure 3 presents a diagram of land ownership.

Parcel:	Owner:	Address:
Section 33 Township 23 South Range 36 East	Whitten/Lee, Ltd.	4305 N. Garfield Midland, Texas
Section 34 & 35 Township 23 South Range 36 East	Deep Wells Ranch	Star Route Combest Ranch Jal, New Mexico 88252
Section 2 Township 24 South Range 36 East	Deep Wells Ranch	Star Route Combest Ranch Jal, New Mexico 88252
Section 3 Township 24 South Range 36 East	Texaco E & P, Inc.	205 E. Bender Hobbs, New Mexico 88240
Section 4 (N/2 & N/2 of S/2) Township 24 South Range 36 East	Whitten/Lee, Ltd.	4305 N. Garfield Midland, Texas 79705
Section 4 (S/2 of S/2) & Township 24 South Range 36 East	Donald L. Whitten, et.al.	Box 1713 Oracle, Arizona 85623
Section 9 (S/2 of S/2) & Township 24 South Range 36 East	Donald L. Whitten, et.al.	Box 1713 Oracle, Arizona 85623
Section 10 & 11 (N/2 & N/2 of S/2) Township 24 South Range 36 East	Whitten/Lee, Ltd.	4305 N. Garfield Midland, Texas 79705



## 6.0 FACILITY DESCRIPTION

The Site is located in the northeast quarter (NE/4) of Section 3, Township 24 South, Range 36 East, Lea County, New Mexico, and will be operated as a centralized soil remediation/landfarm facility. Figure 4 presents a drawing for the Site.

There are no occupied or abandoned residences, public buildings or facilities at the Site. The nearest occupied residence is located approximately 3/4 mile southwest of the Site. An active oil and gas well (Vaughn B-3, #4), located in the southeast corner of the Site, is operated by Tenison Oil and Gas, Inc. A tank battery identified as the Vaughn B-3, operated by Tenison Oil and Gas, Inc., is located near the west side of the Site. Three (3) underground pipelines cross the Site and are shown on Figure 4. The pipelines are located in the northwest, southwest and southeast corners of the Site, respectively. A surface pipeline also runs west from the Vaughn B-3, # 4, as shown on Figure 4. A barbed wire fence currently encloses the north and east sides of the Site. However, the entire Site will be fenced prior to operation, and access will be through a gated entrance that will be locked when an attendant is not present.

Only EPA exempted, non-hazardous oilfield contaminated soil will be accepted at the Site, which will be remediated using landfarming techniques. Figure 5 presents a drawing showing the proposed arrangement of landfarm cells, which will be accessed by roads, approximately 20 feet wide. There will be no office or storage buildings in the proposed landfarm area, nor will the Site store any chemicals, other than that used to operate and maintain facility equipment. The facility will only be used to remediate oilfield-contaminated soils.

## 7.0 FACILITY CONSTRUCTION/OPERATION

### A. Facility Construction

- 1) Location: The facility will be constructed in the NE/4 of Section 3, as shown in Figure 5. A total of 25 cells are proposed for landfarming at the facility. Each cell will measure approximately 250 feet x 850 feet or approximately 4.8 acres. The cell size will not be more than 5 acres. Each cell will be bermed around the perimeter.
- 2) Fences & Signs: The Site will be entirely fenced after permit approval and prior to operation. A sign will be posted at the entrance and will include the following: facility name, legal description and emergency phone number.



- 3) Facility Buffer Zone: A minimum buffer zone of 100 feet will be maintained between the north and east property boundary and landfarm cells.
- 4) Pipeline Buffer Zone: A minimum buffer zone of 20 feet will be maintained between pipelines and landfarm cells. There are four (4) pipelines crossing the Site.
- 5) Facility Berming: Each landfarm cell will be bermed with soil available at the Site to prevent runoff and runoff. Annual rainfall for the area is reported to be less than 10 inches. However, the berms will be constructed with sufficient height to contain a 100-year flood event. According to data obtained from the City of Hobbs Engineering Department, a 100-year flood event of 6.0 inches has been reported for a 24-hour duration storm. Hence, berm height should be more than six inches. A minimum berm height of 18 inches will be maintained for each cell. Flood data obtained from the City of Hobbs Engineering Department is provided in Appendix A.

Proposed cell dimension: 250 feet x 850 feet

Cell area: 4.87 acre

Berm height (proposed): 18 inches (min)

Each cell can hold: 2.38 M gal of storm water

(Approximately 3 times the 100-year flood volume collected in a cell)

- 6) Treatment Zone Monitoring: A background soil sample (SS-1) was collected from a hand auger boring installed near the center of the Site on March 16, 1999. Figure 4 presents the location of soil sample SS-1. The soil sample was collected a depth of 2-3 feet below native ground surface, and submitted under chain-of-custody control to Trace Analysis, Inc., Lubbock, Texas. Analysis include total petroleum hydrocarbons (TPH), major cations and anions, volatile aromatic organics (BTEX), and heavy metals, using EPA approved methods. The laboratory report will be submitted to the New Mexico Oil Conservation Division (OCD), Santa Fe, New Mexico upon completion of the analysis. Appendix B presents a copy of the chain-of-custody record for sample SS-1.

Treatment zone monitoring will consist of collecting one random soil sample from each individual cell. Monitoring will be performed six months after the first contaminated soils are received and then quarterly thereafter. The sample will be collected from a depth of 2 to 3 feet below the native ground surface using a stainless steel bucket



type hand auger. The auger holes will be back filled after obtaining soil samples.

All sampling equipment will be thoroughly washed between sampling events using potable water and laboratory-grade detergent and rinsed with distilled water. The soil samples will be analyzed for TPH and BTEX on a quarterly basis, and major cations and anions, and heavy metals annually using EPA approved methods.

The analytical results from treatment zone soil samples will be submitted to the OCD - Santa Fe office on a semi-annual basis.

- 7) Double-Lined System: The treatment zone at the proposed location is composed of uncemented material hence a double lined system is not proposed for this site.

#### **B. Facility Operation**

The facility will be operated in such way as to not adversely impact groundwater, surface water, public health or the environment. The facility operating procedures will involve the following:

1. Disposal of waste will occur only under the supervision of an attendant on duty. The facility will be secured when no attendant is present.
2. All contaminated soils received at the facility will be spread and disked within 72 hours of receipt.
3. Soils will be spread on the surface in 6 to 12-inch lifts. Texaco has access to tractors that can disk soil deeper than 12 inches. The equipment manufacturer specification indicating disking capacity is enclosed.
4. Soils will be disked every two weeks to enhance biodegradation of contaminants.
5. There will be no mixing of exempt and nonexempt soils.
6. A new layer of contaminated soil will not be spread over an existing layer until the TPH is less than 100 mg/kg and the sum of all aromatic hydrocarbons (BTEX) is less than 50 mg/kg and benzene is less than 10 mg/kg in the existing layer. Laboratory analysis and a sampling location record will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
7. Moisture will only be added to enhance bioremediation or to control dust when necessary. Any ponding of precipitation water will be removed within 72 hours of discovery.



8. Enhanced bio-remediation through addition of microbes or fertilizers will not be practiced at this landfarm.
9. No free liquids or soils with free liquids will be accepted at the facility.
10. Comprehensive records of all material disposed of at the facility will be maintained. The records for each load will include: 1) generator name, 2) the origin (location), 3) date received, 4) quantity, 5) certification of exempt status or analysis for hazardous constituents if non-exempt, 6) exact cell number/location where soil disposed and any addition of moisture, etc.

**C. Characterization & Tracking of Wastes**

The proposed landfarm will accept only oilfield contaminated soils which are exempt from RCRA Subtitle C (hazardous waste) regulations. Tests for hazardous characteristics will be performed if non-hazardous, non-exempt oilfield contaminated solids need to be disposed at the proposed landfarm. The OCD approval will also be sought prior to non-exempt oilfield contaminated soil disposal. At no time will the landfarm accept hazardous waste. All loads received at the facility will be accompanied by a "Certification of Waste Status" signed by a Texaco personnel.

Waste characterization for non-exempt waste will be done prior to removal of waste from the generator's facility in accordance with the EPA SW-846 sampling procedures.

The wastes transported from the generator will be moved to the landfarm without additional materials being added during the transport. A certificate from the transporter stating that no additional materials have been added will be collected.

**8.0 SPILL/LEAK PREVENTION & REPORTING**

No spills are anticipated at the facility since no liquid wastes are accepted at the proposed landfarm. The only time water will be used is for dust control or to enhance remediation. In case of any break, spill, blow out, or undesirable event Texaco will notify the OCD in accordance with Rule 116.

**9.0 INSPECTION, MAINTENANCE & REPORTING**

Berms, fences and the remediation area will be inspected frequently. Any repairs or general maintenance will be performed immediately. Inspection records including date, kinds of inspections, and type of repairs made will



be maintained. A berm height of 2 feet will be maintained all around the cell at all times to prevent runoff or run-on. Berms and cells will be inspected after any significant rainfall or windstorms. During dry and windy months, water will be added periodically to the soil in the cell to prevent blowing dirt.

The waste material transported by the truck will not be accepted without the proper documentation. The procedure as discussed in Characterization and Tracking of Wastes, above will be followed before transporter delivery is accepted. Contaminated soil received at the facility will be spread and disked within 72 hours of receipt. Soils will be spread on the surface in 6 to 12 inch lifts and disked every 2 weeks to enhance remediation of contaminants. Once the soil is laid over the cell, periodic sampling of the cell material will be performed to monitor the remediation progress. This periodic sampling consists of collecting one composite sample from each cell for TPH and BTEX. Enhancing cell remediation by addition of moisture will be considered depending on the remediation progress. Additional lifts of soils will not be spread until laboratory tests on previous lift are below the OCD recommended levels. The OCD recommended remediation levels are 100 mg/kg for TPH, 50 mg/kg for total BTEX and 10 mg/kg for benzene. Records of sampling results and location will be forwarded to the OCD and approval to add new lifts will be requested. If tank bottoms or miscellaneous hydrocarbons are to be remediated at the proposed landfarm Form C-117-A will be filed.

Comprehensive records of all materials accepted at the facility will be documented and logged as described in the Facility Operation section above. All required analytical results and OCD forms will be submitted to the OCD as referenced in the guidelines. The treatment zone will be monitored on a quarterly basis starting six months after commissioning of the cell as discussed in the Treatment Zone Monitoring section above. The treatment zone monitoring results will be submitted to the OCD on a semi-annual basis.

#### 10.0 CLOSURE PLAN

Texaco will notify the OCD of cessation of operations at the landfarm facility one-month in advance. After such notification to the OCD, no new material will be accepted at the landfarm facility. Existing soil at the facility will be remediated to meet the OCD requirements in effect at the time of closure and other state and federal regulations. The landfarm area will then be re-seeded with natural grasses and allowed to return to its natural state.



Six months after the cessation of disposal operations, Texaco will complete the cleanup of constructed facilities and restoration of the facility site within the following six months, unless an extension is granted by the Director.

#### 11.0 SITE CHARACTERISTICS

##### Setting:

The Site is located near the southern edge of the Eunice Plain physiographic subdivision. The Eunice Plain is underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand. In some places the underlying surface consists of alluvial sediments most commonly calcareous silt in buried valleys or Quaternary lake basins.

Annual average precipitation over the site is reported to be between 9 to 10 inches. There are no major surface drainage features within the close vicinity of the Site. The ground surface of the Site slopes very gently to the northeast. The native ground surface elevation varies from about 3400 feet above mean sea level (MSL) near the southwest corner of the Site to about 3880 feet above MSL near the northeast corner of the Site.

##### Soils:

The Pyote and Maljamar fine sands is the predominant soil observed at the Site and is typically composed of approximately 45 percent Pyote fine sand, 45 percent Maljamar fine sand and 10 percent inclusion of Palomas and Kermit soils. The Pyote-Maljamar fine sands has a surface layer of light-brown fine sand about 30 inches thick. The subsoil from about 30 to 40 inches is composed of reddish-yellow to strong brown fine sandy loam. A subsoil of light brown to brown fine sandy loam is present from about 40 to 48 inches, which underlain by a subsoil consisting of pink to light brown fine sandy loam from about 48 to 60 inches.

##### Hydrology:

Groundwater in the vicinity of the study area is obtained from the Dockum group, Ogallala formation and Quaternary age alluvium. In some parts of southern Lea County, the Ogallala and Quaternary forms a continuous water table aquifer. There are no water wells located on the Site or in Section 3. According to files at The New Mexico State Engineer's office, Roswell, New Mexico, there are no wells within 1 mile of the Site.

Sediments of Quaternary age can be observed in southern Lea County in the form of alluvial deposits, probably of both Pleistocene and Recent age, and dune sands of Recent age. The alluvium seems to have deposited in topographically low areas where the Ogallala formation had been stripped





away. The dune sands mantle the older alluvium and the Ogallala formation over most of the area. At the surface it is generally calcareous silt, probably derived from reworked caliche.

The Ogallala formation consists chiefly of sediments deposited by streams that had their headwaters in the mountainous regions to the west and northwest. The Ogallala formation rests unconformably upon an erosional surface of the underlying Triassic and Cretaceous rocks. The Ogallala is made of beds and lenses of clay, silt, sand, and gravel. Caliche occurs as a secondary deposit in many places over Ogallala formation. Altitude of the water table in Ogallala is reported at 3,200 feet MSL at the proposed landfarm site. The water table slopes southeastward.

Uncontaminated water from the Ogallala formation is high in silica (49 to 73 ppm), and contains moderate concentrations of calcium and magnesium. The dissolved solids content is relatively low, being typically less than 1,100 ppm. Groundwater from a windmill located approximately three miles southwest of the Site, was collected and tested for major cations and anions in June 1998. The total dissolved solids (TDS) content of the sample was less than 300 mg/l.

The hydrogeologic data presented in this section was derived from the report, "Geology and Ground Water Conditions in Southern Lea County, New Mexico", published by the New Mexico Institute of Mining & Technology (Ground Water Report 6), published in 1961.

#### **12.0 PROOF OF NOTICE**

Texaco is seeking this permit for construction of a centralized landfarm facility. Notice requirements do not apply for centralized facilities as per OCD Rule 711.

#### **13.0 H<sub>2</sub>S CONTINGENCY PLAN**

The H<sub>2</sub>S contingency plan is not applicable, as H<sub>2</sub>S is not generated at the landfarm facility.

#### **14.0 ADDITIONAL INFORMATION**

Texaco will furnish the OCD with a \$25,000 bond upon approval of this centralized landfarm permit as per Rule 711.





## Figures



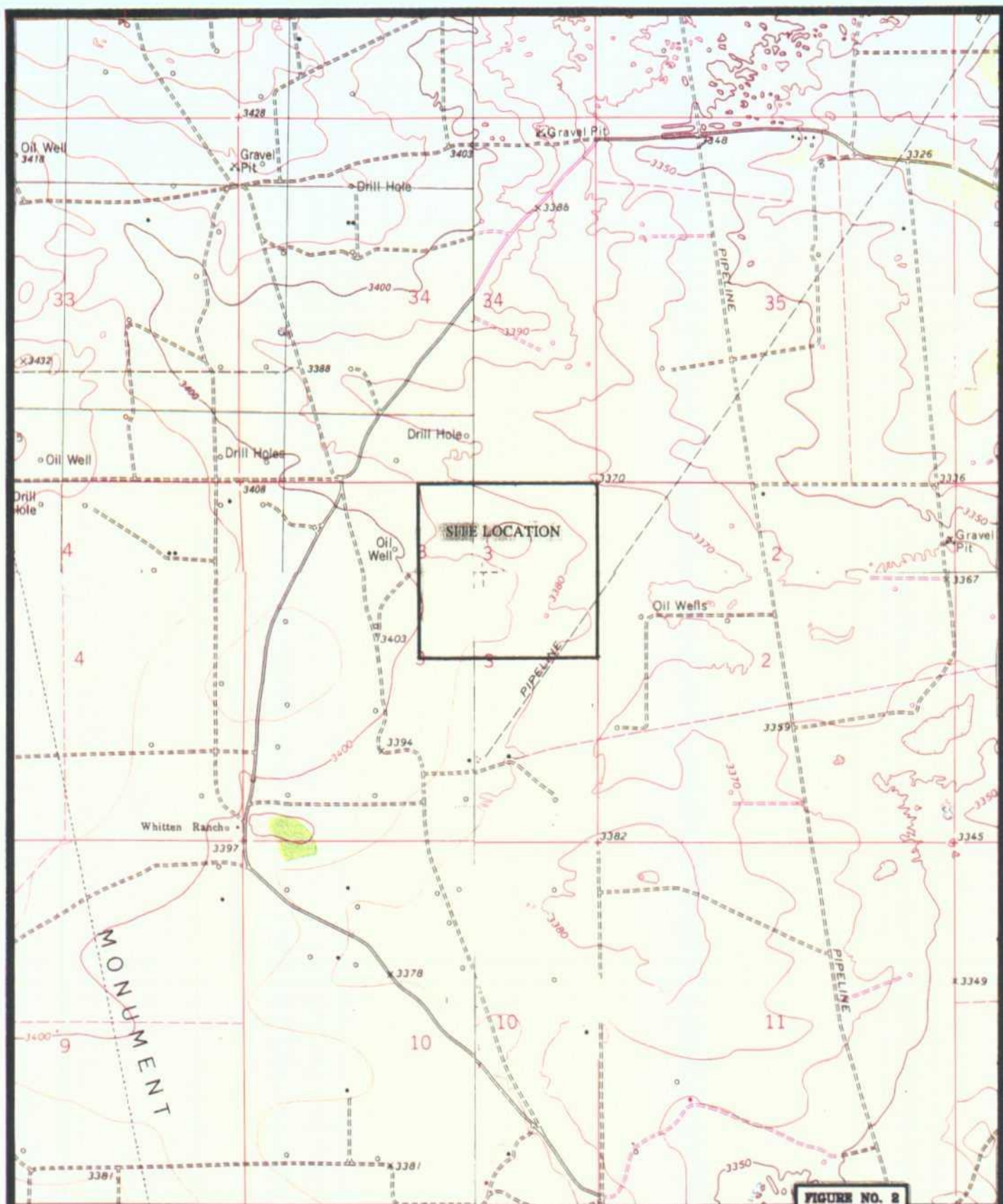


FIGURE NO. 2

LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION  
& PRODUCTION, INC.

TOPOGRAPHIC  
MAP

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

TAKEN FROM U.S.G.S.  
RATTLESNAKE CANYON, EAST LAKE,  
CUSTER MOUNTAIN, & JAL NW, NM  
7.5' QUADRANGLE



LEGEND

□ SITE LOCATION

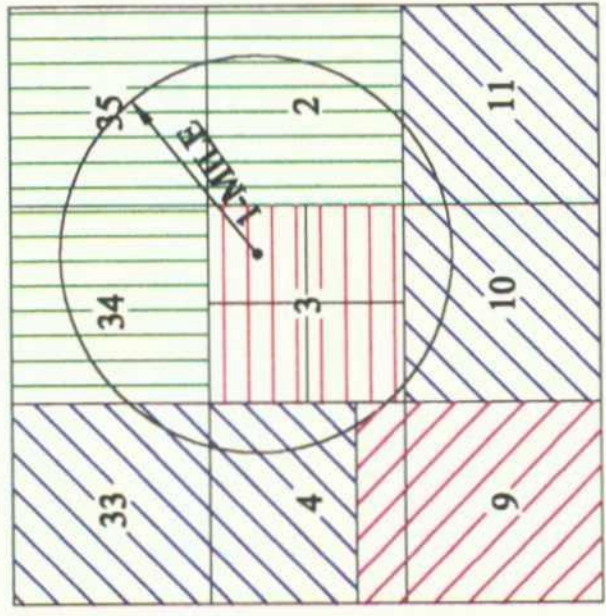
SCALE: 1"=2000'







T-23 SOUTH  
T-24 SOUTH



R. 36 EAST | R. 37 EAST

WHITTEN/LEE, LTD.  
MIDLAND, TEXAS

DONALD L. WHITTEN, ET.AL.  
ORACLE, ARIZONA

DEEP WELLS RANCH  
JAL, NEW MEXICO

TEXACO EXPLORATION & PRODUCTION, INC.  
HOBBBS, NEW MEXICO

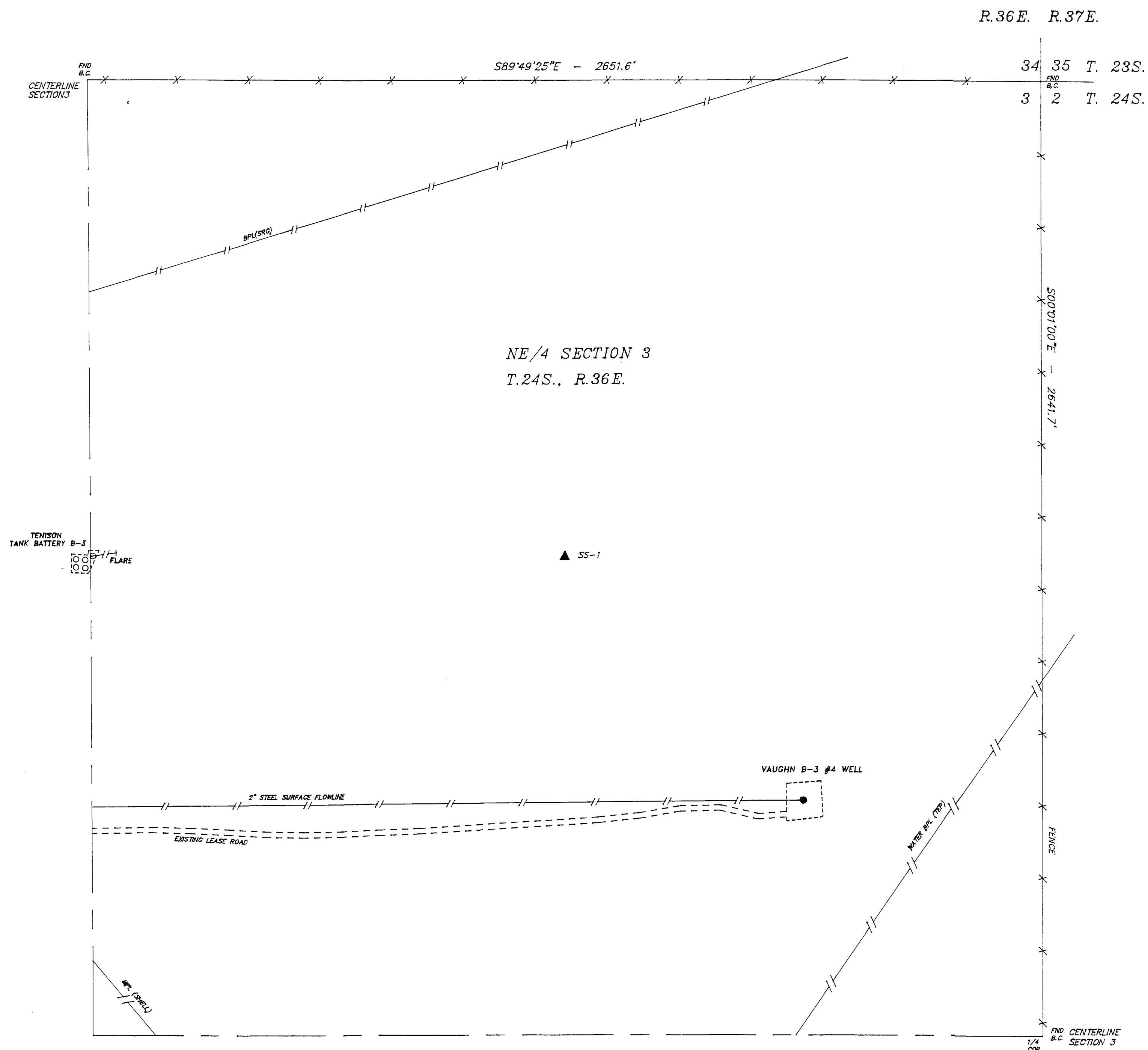
• SITE LOCATION (NE/4, SECTION 3)

FIGURE NO.3

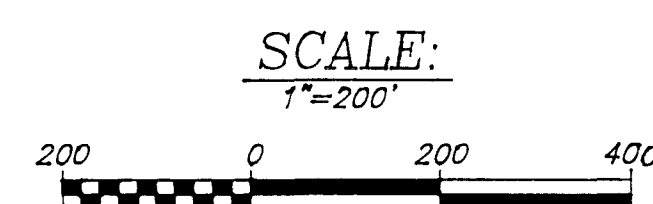
LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION & PRODUCTION, INC.
LAND OWNERSHIP WITHIN 1 MILE
HIGHLANDER ENVIRONMENTAL MIDLAND, TEXAS

DATE	1/12/96
DRAWN BY	JDA
CHECKED BY	
FILE	
DATE	

SCALE: 1"= 1 MILE



LEGEND	
●	OIL WELL LOCATION
—//—	PIPELINE
▲ SS-1	SOIL SAMPLE LOCATION



DATE:  
3/16/99

DWN. BY:  
JDA

FILE:  
C:\TEXACO\1036\NE-3

FIGURE NO. 4

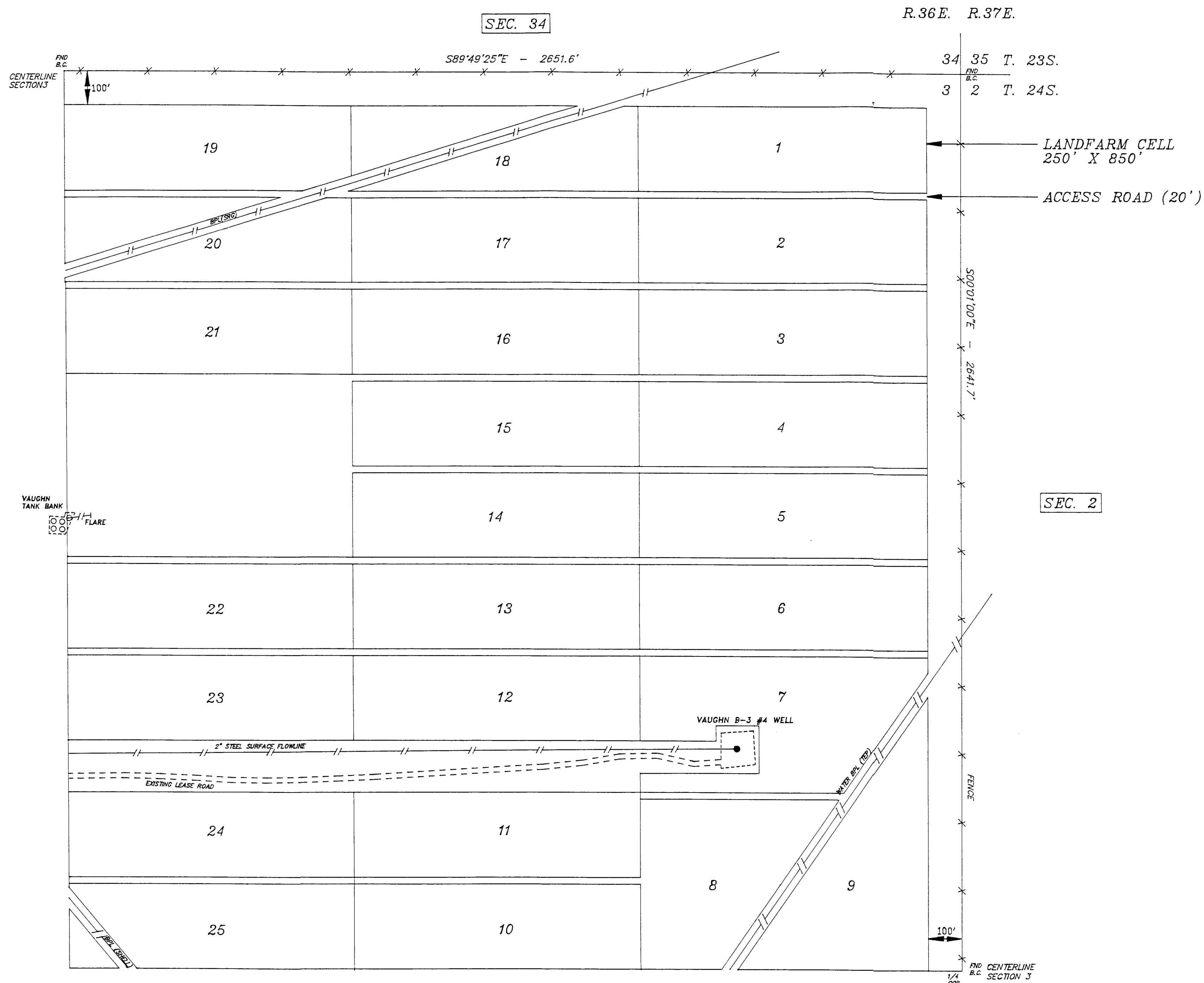
LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION  
& PRODUCTION, INC.

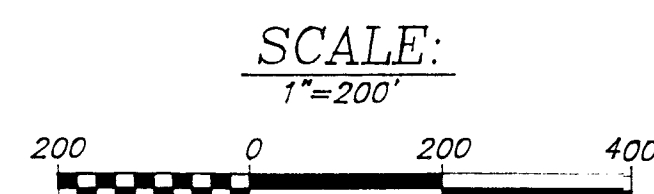
SITE DRAWING

HIGHLANDER ENVIRONMENTAL  
MIDLAND, TEXAS





LEGEND	
•	OIL WELL LOCATION
—//—	PIPELINE
10	LANDFARM CELL & NUMBER



DATE:  
3/18/99  
DWN. BY:  
JDA  
FILE:  
C:\TEXACO\1036\CELL

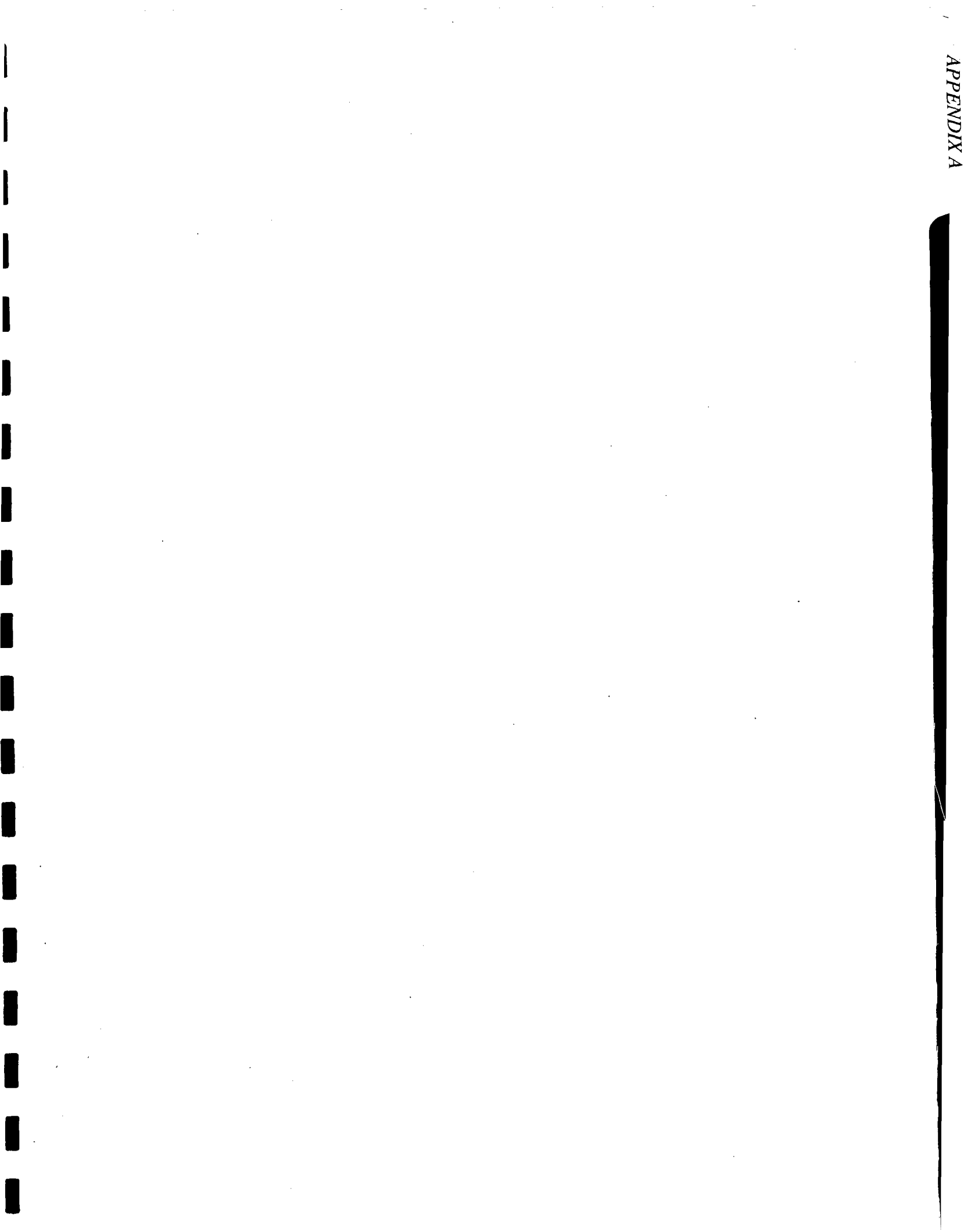
FIGURE NO. 5

LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION & PRODUCTION, INC.
PROPOSED LANDFARM CELL ARRANGEMENT
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS



## Appendices





## Appendix A

### Rainfall Data



City of Hobbs Engineer's Office

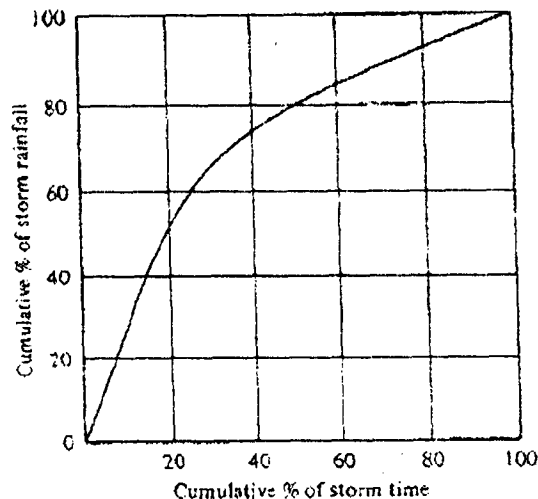
Based on discussions with the City of Hobbs, it was determined that the runoff associated with the 5-, 25-, and 100-year frequency storm events under both the 6-hour and 24-hour durations would be analyzed.

Point rainfall intensities were obtained from the National Oceanic and Atmospheric Administration (NOAA) Atlas 2, Volume IV, New Mexico 1973. Point rainfall intensities utilized for this analysis are included in Table III-1.

**Table III-1**  
**Point Rainfall Intensities**

Rainfall Event	6-Hour Duration	24-Hour Duration
5-year	2.8 inches	3.5 inches
25-year	3.8 inches	4.8 inches
100-year	4.7 inches	6.0 inches

To be consistent with the methodology used for the FEMA Flood Insurance Study, the Huff rainfall distribution for a first quartile storm was utilized. Figure III-1 shows a mass diagram for this type rainfall distribution under the 50 per cent probability. This type storm distribution pattern was developed from the analysis of numerous western watersheds with characteristics similar to the Hobbs study area. Using the first quartile storm produces a rainfall peak early in the rainfall distribution pattern, similar to the passage of the intense pre-frontal squall lines associated with thunderstorms. More detail on the precipitation data used in this analysis may be found in Appendix A.



Time distribution of storm rainfall, median first quartile curve for point rainfall. (After F. A. Huff, "Time Distribution of Rainfall in Heavy Storms," Water Resources Research, 3, No. 4 (1967): 1007-1019.)

**Figure III-1**

NMERDI 2-72-4523

**NEW MEXICO CLIMATE MANUAL:  
SOLAR AND WEATHER DATA**

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Keith W. Haggard

*Contributors:*  
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Earl K. Fosdick  
Loren W. Crow

November 1985

**New Mexico Energy Research and Development Institute**

Most of the temperature and precipitation data are taken from the "Monthly Climate Summaries" furnished by the Office of the State Climatologist. The standard deviations of monthly mean temperatures were taken from NCDC records: 1951-1980. The design temperatures were developed from the most recent 25 years of NCDC weather records using the graphical method proposed by Loren W. Crow in "Study of Weather Design Conditions for ASHRAE, Inc.," Research Project No. 23, 1963.

## SECTION II: DESCRIPTION OF PRECIPITATION DATA

The precipitation data are given as long-term, means and extremes on a monthly and annual basis. The data are derived from the daily weather observations recorded at 63 stations in New Mexico. Except for El Paso, these were furnished by the New Mexico State Climatologist in the "Monthly Climate Summaries."

### TOTAL PRECIPITATION - MEAN

Definition These data consist of the long-term means of monthly and annual total precipitation. Total precipitation refers to accumulated precipitation amounts over the specified period (i.e., month or year). Precipitation refers to all types of hydrometeors, such as snow, hail, rain, etc. It is the measure of the liquid water content of all hydrometeors. For example, ten inches of snow is equal to approximately one inch of liquid water. Units are inches of liquid water.

Data Source The means of total precipitation are derived from the daily totals measured by a properly exposed raingauge.

Accuracy Wind and local obstructions can introduce uncertainty in precipitation measurements. The use of these values at sites other than where they were measured can result in significant errors, especially in the mountainous areas of the state.

**TOTAL PRECIPITATION - HIGH**

Definition These data consist of the highest monthly and annual values of total precipitation. These values represent the wettest months and year on record.

Total precipitation refers to accumulated precipitation amounts over the specified period (i.e. month or year). Precipitation refers to all types of hydrometeors, such as snow, hail, rain, etc. It is a measure of the liquid water content of all hydrometeors. For example, ten inches of snow is approximately equal to one inch of liquid water. Units are inches of liquid water.

Data Source Monthly and annual values of total precipitation are derived from the daily totals measured by a properly exposed raingauge.

Accuracy Winds and local obstructions can introduce uncertainty in all precipitation measurements. The use of these values at sites other than where they were measured can sometimes result in significant errors, especially in the mountainous areas of the state.

**TOTAL PRECIPITATION - 24-HR MAX**

Definition These data consist of the greatest total precipitation amount measured over a 24-hour period for the month and the greatest 24-hour amount within the several years of records used.

Total precipitation refers to accumulated precipitation amounts over the specified period (i.e. month or year). Precipitation refers to all types of hydrometeors, such as snow, hail, rain, etc. It is a measure of the liquid water content of all hydrometeors. For example, ten inches of snow, in most cases, is approximately equal to one inch of liquid water. Units are inches of liquid water.

Data Source These extreme values are derived from the daily totals of precipitation measured by a properly exposed raingauge.



Accuracy Winds and local obstructions can introduce uncertainty in all precipitation measurements. The use of these values at sites other than where they were measured can sometimes result in significant errors, especially in the mountainous areas of the state.

Application In sizing rain gutters and storm drainage systems, designers require the greatest rainfall intensity that can be expected at a particular building site. The maximum 24-hour precipitation total should not be used to represent the greatest rainfall intensities, since the 24-hour totals will usually have fallen in a time period much less than 24 hours. For example, during a severe summer rainstorm at Las Cruces on August 29, 1935, 6.49 inches fell in 24 hours. Of that 6.49 inches, 1.06 inches came down in ten minutes: a very high intensity.

Rainfall intensities for durations shorter than 24 hours can be estimated using a procedure described in Precipitation - Frequency Atlas of the Western United States: Volume IV - New Mexico. This report is published by the National Oceanic and Atmospheric Administration (NOAA).

#### TOTAL SNOWFALL - MEAN

Definition These data consist of the long-term means of monthly and annual, total snowfall. "Total snowfall" refers to the total amount of fresh snowfall over the specified period (i.e., month or year). The depth of fresh snow is measured after each snowfall, and later totaled for the month or year. Units are inches of fresh snow.

"Snowfall" should not be confused with "snowdepth", which is the depth of accumulated snow on the ground.

For most New Mexico locations, fresh snow usually does not remain on the ground for more than a few days. However, at locations near 8,000 feet or higher, snow begins to accumulate on the ground over the winter season.

Data Source The mean total snowfall values are tabulated from daily snowfall totals. Daily snowfall is measured with either a raingauge stick or ruler.

TABLE 34 CLIMATE DATA SUMMARY

## FOR JAL

LATITUDE: 32° 06'

LONGITUDE: 103° 12'

ELEVATION: 3060 ft.

PERIOD OF RECORD: 1932-1981  
 Period applies to the temperature and precipitation data. For information on data sources, see p.85.

## PRECIPITATION

MONTH	TOTAL PRECIPITATION (INCHES WATER)			TOTAL SNOWFALL (INCHES)	
	MEAN	HIGH	24-HR MAX	MEAN	HIGH
JAN	0.45	3.30	0.95	2	12
FEB	0.39	2.13	0.78	1	7
MAR	0.37	1.76	1.08	1	6
APR	0.67	3.15	2.20	0	0
MAY	1.34	3.21	2.47	0	0
JUN	1.22	3.45	2.21	0	0
JUL	1.62	5.73	2.09	0	0
AUG	1.81	6.06	3.99	0	0
SEP	1.93	7.64	4.00	0	0
OCT	1.22	6.90	5.64	0	0
NOV	0.41	3.30	0.84	1	16
DEC	0.38	2.12	0.54	1	8
ANN	11.85	21.00	5.64	5	17

## TEMPERATURE (°F)

MONTH	LONG-TERM AVERAGES			STANDARD DEVIATION OF MEANS	HEATING DEG.-DAYS (base 57°F)	HEATING DEG.-DAYS (base 65°F)	COOLING DEG.-DAYS (base 70°F)	COOLING DEG.-DAYS (base 75°F)	ALL-TIME EXTREMES		MONTHLY MEAN EXTREMES	
	MAX	MIN	MEAN						HIGH	LOW	HIGH	LOW
JAN	60	28	44	3.45	411	652	0	0	85	-11	52	35
FEB	66	32	49	3.40	243	451	0	0	89	-6	56	43
MAR	73	38	56	3.41	129	298	6	0	98	10	62	49
APR	82	48	65	2.84	13	89	29	7	102	22	70	58
MAY	89	56	73	2.08	0	5	122	40	107	34	78	69
JUN	97	65	81	2.07	0	0	331	189	112	40	86	76
JUL	97	68	83	2.39	0	0	404	256	112	50	86	78
AUG	96	66	81	2.15	0	0	343	197	110	50	85	77
SEP	89	60	75	2.49	0	0	171	78	108	38	80	67
OCT	81	48	65	2.63	11	86	25	6	100	20	69	59
NOV	69	36	52	3.31	191	396	0	0	88	8	61	46
DEC	62	29	46	2.77	346	589	0	0	84	3	51	40
ANN	80	48	64		1344	2566	1432	773	112	-11	65	62

## SUMMER DESIGN TEMPERATURES

## WINTER DESIGN TEMPERATURES

DESIGN DRY BULB (°F)			DAILY TEMPERATURE RANGE	DESIGN WET BULB (°F)			MEDIAN SUMMER WET BULB	MEDIAN OF ANNUAL EXTREMES	DESIGN DRY BULB		COINCIDENT WIND SPEED
0.1%	0.5%	2.0%		0.1%	0.5%	2.0%			0.2%	0.6%	
105	102	99	29	74	72	71	67	8	13	17	1

NOTE: The percentage levels are based on the total number of hours in a 365 day year (8760 hours).

For explanations of this table see: p.86 for precipitation; p.90 for temperature; and p.98 for design temperatures.



## Appendix B

### Chain-of-Custody Record



# HIGHLANDER ENVIRONMENTAL CORP.

**Midland, Texas 79705**

**Fax (915) 882-3848**

[illegible][illegible]

Please fill out all copies - Laboratory retains yellow copy - Project Manager retains pink copy Accounting receives Gold copy.  
Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy Accounting receives Gold copy.

3 samples - HS