NM1 - 12

GENERAL CORRESPONDENCE

YEAR(S):

2007-1992



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

April 12, 2007

Mr. Jimmie T. Cooper C & C Landfarm, Inc. Box 55 Monument, New Mexico 88265

RE: Request To Add An Additional Six-Inch Lift And/Or Use Soil For Backfilling Or Berming

Permit NM-01-0012 (C & C Landfarm)

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico

Dear Mr. Cooper:

The New Mexico Oil Conservation Division (OCD) has received and reviewed C & C Landfarm (C&C), Inc.'s request, dated March 27, 2007, to add an additional six-inch lift and/or use soil from Cells E and K for backfilling or berming. Based upon the information provided, Cells E and K are hereby approved for the addition of another lift of contaminated soils. Note, that with the addition of successive lifts C&C must resume maintenance and treatment zone monitoring. The treatment zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface. In addition, C&C's request to reuse the soil from these cells is hereby approved with the following uses:

1. Use remediated soils in the berms and roads within the C&C Landfarm facility.

Application of these soils in the approved project list above must not result in run-off into any waters of the U.S. If C&C wants to move the soils from these cells for any other use other than those approved here, separate OCD authorization must be granted. Soils to be removed from the facility must have additional analysis performed, including metals and chlorides.

Please be advised that approval of this request does not relieve the C&C of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve C&C of its responsibility to comply with any other applicable governmental authority's rules and regulations.

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.

Sincerely,

Brad A. Jones

Environmental Engineer

BAJ/baj

cc:

OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, 601 W. Illinois, Hobbs, NM 88242

March 27, 2007

NMOCD Environmental ATTN: Brad Jones 1220 S. Saint Francis Drive Santa Fe, NM 87504

MMIN

RE: C & C Landfarm Cell Lift Sample

Mr. Jones:

Attached is analytical from cells E and K of the lift for C & C Landfarm. A composite sampling was conducted for each cell, taking samples at a depth of 0 to 6 inches. The analytical is below State and permit requirements for adding an additional lift. C & C is requesting to add an additional six inch lift to each of the two cells tested, and/or use the soil in the cells for road repair or berm work.

At your earliest convenience please let me know if this is approved.

Sincerely,

Eddie W. Seay, Agent Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

(505)392-2236

seay04@leaco.net

cc: C & C Landfarm





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242

FAX TO: (505) 392-6949

Sampling Date: 03/19/07 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/LB

Reporting Date: 03/22/07
Project Owner: J. COOPER
Project Name: C&C LANDFARM
Project Location: MONUMENT, NM

Receiving Date: 03/19/07

LAB NO. SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	03/19/07	03/19/07	03/21/07	03/21/07	03/21/07	03/21/07
H12356-1 CELL E	<10.0	60.5	<0.002	<0.002	<0.002	<0.006
H12356-2 CELL K	<10.0	18.6	<0.002	<0.002	<0.002	<0.006
Quality Control	757	777	0.109	0.114	0.110	0.333
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	94.7	97.1	109	114	110.0	111
Relative Percent Difference	6.3	1.0	1.7	<0.1	0.7	1.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021 B

Date



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7000

(303) 333-2320 1 75 (303)	(323) 0/3-/001	FAA (329)6/3-/020		1
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

May 22, 2006 2006 MAY 30 PM 2 03

NM-1-012

NMOCD Environmental ATTN: Ed Martin 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: C & C Landfarm

Quarterly Treatment Zone

Mr. Martin:

Find within the quarterly treatment zone tests from the various cells at C & C Landfarm. Samples were taken at approximately two feet below the cell lift. The sample holes were filled with red clay. An inspection of the landfarm was conducted during sampling and all was in compliance.

If you have any questions, please call.

Thanks,

Eddie W. Seay, Agent Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

(505)392-2236

seay04@leaco.net

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240 FAX TO: (505) 392-6949

Receiving Date: 05/11/06 Reporting Date: 05/16/06 Project Owner: J. COOPER

Project Name: C&C LANDFARM QUARTERLY

Project Location: MONUMENT, NM

Sampling Date: 05/11/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: NF

Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	05/13/06	05/13/06	05/12/06	05/12/06	05/12/06	05/12/06
H11109-1 CELL A	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-2 CELL B	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-3 CELL C	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-4 CELL D	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-5 CELL E	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-6 CELL F	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-7 CELL G	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-8 CELL H	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-9 CELL I	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-10 CELL J	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11109-11 CELL K	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	784	773	0.094	0.101	0.098	0.307
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	98.0	96.6	93.4	101	97.9	102.0
Relative Percent Difference	3.1	0.4	0.2	7.9	7.2	7.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Larry L. Balley

Date

H11109

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

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[†] Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

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ABORATORIES, INC. 111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476 Page 2 of 2

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† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

Forest Floor Page 1 of 1

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD

Sent: Thursday, February 08, 2007 9:11 AM

To: Eddie Seay (seay04@leaco.net)

Subject: C&C Landfarm (Permit NM-01-0012) - Rocks

Dear Mr. Seay,

The New Mexico Oil Conservation Division hereby grants approval of the disposal of rocks, that do not posses any visible signs of petroleum and/or crude oil contamination, generated and collected from landfarming and rock picker activities to be placed in the top soil excavation pit located in the southeast corner of the C & C Landfarm permitted facility boundary. If you have any questions regarding this matter, please do not hesitate to contact me.

Brad A. Jones

Environmental Engineer Environmental Bureau NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

E-mail: brad.a.jones@state.nm.us

Office: (505) 476-3487 Fax: (505) 476-3462



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

February 6, 2007

Mr. Jimmie T. Cooper C & C Landfarm, Inc. Box 55 Monument, New Mexico 88265

RE: Request To Add An Additional Six-Inch Lift And/Or Use Soil For Backfilling Or Berming

Permit NM-01-0012 (C & C Landfarm)

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico

Dear Mr. Cooper:

The New Mexico Oil Conservation Division (OCD) has received and reviewed C & C Landfarm (C&C), Inc.'s request, dated February 1, 2007, to add an additional six-inch lift and/or use soil from Cells A, B, and C for backfilling or berming. Based upon the information provided, Cells A, B, and C are hereby approved for the addition of another lift of contaminated soils. Note, that with the addition of successive lifts C&C must resume maintenance and treatment zone monitoring. The treatment zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface. In addition, C&C's request to reuse the soil from these cells is hereby approved with the following uses:

Use remediated soils in the berms and roads within the C&C Landfarm facility.

Application of these soils in the approved project list above must not result in run-off into any waters of the U.S. If C&C wants to move the soils from these cells for any other use other than those approved here, separate OCD authorization must be granted. Soils to be removed from the facility must have additional analysis performed, including metals and chlorides.

Please be advised that approval of this request does not relieve the C&C of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve C&C of its responsibility to comply with any other applicable governmental authority's rules and regulations.

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.

Sincerely

Brad A. Jones

Environmental Engineer

BAJ/bai

cc:

OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, 601 W. Illinois, Hobbs, NM 88242

February 1, 2007

2007 FEB 5 PM 12 11

NMOCD Environmental ATTN: Brad Jones 1220 S. Saint Francis Drive Santa Fe, NM 87504

RE: C & C Landfarm Cell Samples

Mr. Jones:

Find attached composite sampling of the three cells at C & C Landfarm. The analysis are below the requirement for BTEX and TPH for adding an additional lift. C & C is asking permission to either add an additional lift to these cells or use this soil for backfilling material.

We appreciate your time in this matter. Look forward to hearing from you.

Sincerely,

Eddie W. Seay, Agent

Eldin W Seam

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

(505)392-2236

seay04@leaco.net

cc: C & C Landfarm



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

January 23, 2007

Mr. Jimmie T. Cooper C & C Landfarm, Inc. Box 55 Monument, New Mexico 88265

RE: Request To Add An Additional Six-Inch Lift And/Or Use Soil For Backfilling Or Berming –

Permit NM-01-0012 C & C Landfarm

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico

Dear Mr. Cooper:

The New Mexico Oil Conservation Division (OCD) has received and reviewed C & C Landfarm, Inc.'s request, dated January 17, 2007, to add an additional six-inch lift and/or use soil from cells A, B, and C for backfilling or berming. The submittal included laboratory analytical results for Gas Ranges Organics (GRO) and Diesel Range Organics (GRO). The OCD cannot consider this request for approval until Condition #6 of the "Landfarm Operation" section of Permit NM-01-0012 is demonstrated and satisfied. Condition #6 states:

"Successive lifts of contaminated soils will not be spread until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the pervious lift is less than 100 parts per million (ppm), and the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and the benzene is less than 10 ppm. Comprehensive records of laboratory analyses and the sampling locations will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts and/or removal of the remediated soils."

This request is denied. Please resubmit a request with the appropriate laboratory analytical results. 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.

Sincerely

Brad A. Jones

Environmental Engineer

BAJ/baj

cc:

OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, 601 W. Illinois, Hobbs, NM 88242



NEW NEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

March 3, 2005

Mr. Jim Cooper C & C Landfarm, Inc. P.O. Box 55 Monument, NM 88265

Re: Commercial Waste Management Facility, NMOCD permit NM-1-012

Dear Mr. Cooper:

The New Mexico Oil Conservation Division (NMOCD) inspected the facility shown above on February 8, 2005. The berms at the landfarm have been very well maintained and the soils have apparently been disked and turned on a regular basis. No permit deficiencies were noted.

If you have any questions, contact me at (505) 476-3492 or emartin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin Environmental Bureau

cc: NMOCD, Hobbs



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

October 15, 2002

Lori Wrotenbery
Director
Oil Conservation Division

Mr. Dennis French 807 North Thorp Hobbs, NM 88240

RE:

C&C Landfarm Inc.

NMOCD Permit NM-01-0012

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico,

Dear Mr. French:

Enclosed please find the New Mexico Oil Conservation Division Permit with conditions for C&C landfarm, Inc.(C&C). I inspected the facility on April 13, 2000 and again on June 7, 2001. Enclosed please find the inspection report for April 24, 2000 and the subsequent response by C&C. I was unable to put together a timely inspection report for my June 2001 inspection because of a three-month maternity leave from July to October of 2001.

All quarterly treatment zone monitoring analytical reports have been submitted in a timely fashion since the initial permit was received in 1992. To date there has been no leaching of contaminants to the subsurface. As an example please find enclosed a copy of the most recient treatment zone monitoring report for C&C landfarm.

I have planned an inspection trip to Lea and Eddy counties for early November of this year and will be inspecting C&C along with other permitted surface waste management facilities as time allows. I will forward you a copy of the next inspection report for C&C when it is finalized.

Please call me if you have any further questions regarding this facility.

Sincerely:

Martyne J. Kieling

Environmental Geologist

XC: Hobbs OCD Office

C&C

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

MEMORANDUM OF MEETING OR CONVERSATION

Telephone	Personal	Time	:00	Date_/0 = 0	8.02
Originating Party	Denis French 505-393-57		Other Parties	Martye	Miching _
Subject Quest Lust Ir Potentially	Jons Regarding Speckel, Product Povebosing Lum	C&C L nit Republic al Adjace	and Em	L Environa	motel Courses
I answered	Mot recine His Coc of	duestions	and	He Rea	ues try
Conclusions or Agree	ements T Smil	Duoud I	y gard	and Cc	Himon
Distribution			Signed Man	to gla	8/

Public Regulation Commission

3/6/2000

C & C LAND FARM, INC.

1580026

MAILING ADDRESS PO BOX 55 MONUMENT NEW MEXICO 88265

SCC Number: 1580026

Tax & Revenue Number: 02185650008

INCORPORATED ON SEPTEMBER 04, 1992, IN NEW MEXICO.

CORPORATION IS A DOMESTIC PROFIT

CORPORATION IS ACTIVE
GOOD STANDING THROUGH: 3/15/2001

PURPOSE OF THE CORPORATION
DISPOSE OF OIL FIELD WASTE AND DEBRIS

CORPORATION DATES

Taxable Year End Date: 12/31/98

Filing Date: 12/02/99

Corporate Existence Expiration Date:

SUPPLEMENTAL POST MARK DATES

Supplemental: 01/06/95 Name Change:

Purpose Change:

PRINCIPAL ADDRESS
419 WEST CAIN HOBBS NEW MEXICO 88240

PRINCIPAL ADDRESS(Outside New Mexico)

REGISTERED AGENT
JIMMIE T. COOPER
419 WEST CAIN HOBBS NEW MEXICO 88240

Designation date: 12/02/99 Agent Post Mark Date: Resignation date:

COOP LICENSE INFORMATION

Number:

Type:

Expiration Year:

COOPER, JIMMIE T. President COOPER, JIMMIE B. Vice President HILLIKER, ADANA Secretary

COOPER, BETTY B. Treasurer

DIRECTORS
Date Election of Directors: 09/30/00

COOPER, BETTY B
419 WEST CAIN HOBBS, NM 88240
COOPER, JIMMIE B
419 WEST CAIN HOBBS, NM 88240
COOPER, JIMMIE T
419 WEST CAIN HOBBS, NM 88240
HILLIKER, ADANA
419 WEST CAIN HOBBS, NM 88240
SEAY, EDDIE
419 WEST CAIN HOBBS, NM 88240

New Search Inquiry Page

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505 (505) 827-7133 Fax: (505) 827-8177



(PLEASE DELIVER THIS FAX)

Mattadore

To: John Rell 214-987-7123

From: Martyne Kieling 827-7153

Date: April 18, 2000

Number of Pages (Includes Cover Sheet) Fof 11

Message:

See Page 4 Reporting # 4

Plunninger Dilling wells Possiby within Landform

Martyne Kieling

If you have any trouble receiving this, please call: (505) 827-7133

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

October 6, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-468

Mr. Eddie W. Seay C&C Landfarm 601 W. Illinois Hobbs, New Mexico 88240

RE:

Approval for additional lifts, C&C Landfarm

NW/4 NE/4 of Section 3, Twn. 20 South, Rng. 37 East, NMPM

Lee County, New Mexico

Dear Mr. Seay:

The New Mexico Oil Conservation Division (OCD) has received C&C's request and analytical results dated August 28, 1998 for authorization to apply another lift to Cells B, D and F. Based on the information provided, Cell-B, Cell-D and Cell F are hereby approved for the addition of a successive lift.

Note that with the addition of successive lifts C&C must continue maintenance and treatment zone monitoring. If C&C wants to move the soils from the facility separate OCD authorization must be granted.

Please be advised that the OCD approval does not relieve C&C of liability should their operation result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve C&C of the responsibility for compliance with other federal, state and/or local regulations.

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

Sincerely,

Martyne J. Kieling

Environmental Geologist

xc:

OCD Hobbs Office

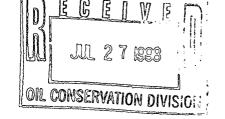


NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION DISTRICT I HOBBS PO BOX 1980, Hobbs, NM 88241 (505) 393-6161 FAX (505) 393-0720

Jennifer A. Salisbury CABINET SECRETARY

July 23, 1: 38



Mark Veteto ME-TEX Oil & Gas, Inc. P.O. Box 2070 Hobbs, New Mexico 88241-2070

Re:

J. Cooper #1 Drilling Pit
J. Cooper #2 Drilling Pit

W/2 NE/4, Sec 3-Ts20s-R37e

New Mexico Oil Conservation Division (NMOCD) is in receipt of your letter dated July 16, 1998 and will file your notice in the NMOCD Hobbs well files. A copy of your letter is being sent to the NMOCD Environmental Bureau for their files.

Please note the NMOCD has had discussions concerning this issue with the NMOCD Environmental Bureau, the Landowner Mr. Jimmy Cooper and yourself. Please note the burying of oilfield waste must be pursuant to NMOCD rules and regulations and must be in a manner that will not pose a threat to ground water, surface water, human health or the environment. Pursuant to conversations with the NMOCD Environmental Bureau, the permitting agency for the C&C landfarm, burying of this waste must not cause the permitted part of the C&C landfarm to become in violation. If this happens then NMOCD Environmental Bureau will address this issue with C&C landfarm.

Please note NMOCD District I acceptance of your letter does not relieve ME-TEX of responsibility for compliance with any other federal, state, or local laws and/or regulations including regulations handled by the NMOCD Environmental Bureau. Also, ME-TEX is hereby advised that NMOCD rules & regulations may not in some circumstances supersede certain landowners rights. Therefore, this surface issue should be resolved between ME-TEX and Mr. Cooper landowner of C&C landfarm.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Chris Williams-NMOCD District I Supervisor

Chris Williams

cc: Roger Anderson-Environmental Bureau Chief, Santa Fe, NM

Mr. Jim Cooper- Landowner of C&C landfarm.



July 16, 1998

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District I - Hobbs P.O. Box 1980 Hobbs, NM 88240

Attn: Wayne Price

Re:

J. Cooper #1 Drilling Pit

J. Cooper #2 Drilling Pit

W/2 NE/4, Sec. 3, T-20S, R-37E, Lea County, NM



Dear Wayne,

As previously discussed, the above mentioned drilling pits are located on C & C Inc.'s land farm. These pits are prepared and ready to be buried on site. The drilling pits were built for the accumulation of drill cuttings as Rule 105 of the Energy and Mineral Department Oil Conservation Division's Rules and Regulations require. Me-Tex Oil & Gas, Inc. recognizes and fully understands the risks and liabilities of burying these pits on C & C's land farm.

Should you have any questions or comments, please call me anytime.

Very truly yours,

Me-Tex Oil &

MV:rh

(505) 397-7750

Kieling, Martyne

To:

Boswell, Jerry C

Subject:

RE: C&C Landfarm

Jerry,

The C&C landfarm Permit # NM-01-0012 was issued April 30,1998 and does contain the requested expansion.

Let me know if there is anything else I can help you with.

Martyne.

From:

Boswell, Jerry C [SMTP:boswejc@texaco.com]

Sent:

Monday, June 22, 1998 9:34 AM Kieling, Martyne

Subject:

RE: C&C Landfarm

Hi Martyne. Has NM OCD issued the new permit for the C&C Landfarm yet? If yes, does the new permit include the requested expansion, or only the originally permitted surface area? Thanks for your help.

Regards, Jerry

> ----Original Message-----

> From: Kieling, Martyne [SMTP:MKieling@state.nm.us]

> Sent:

Tuesday, March 24, 1998 8:43 AM

> To:

'boswejc@texaco.com'

> Subject: C&C Landfarm

> Importance:

High

> Jerry,

> Here is the C&C inspection report that you requested. Please call or

> E-Mail

> if there is anything else I can help you with.

> << lrept497.wpd>>

> Martyne Kieling

> NM OCD << File: Irept497.wpd >>

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

June 2, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-440

Mr. C. Gene Samberson Heidel, Samberson, Newell &Cox P.O. Drawer 1599 Lovington, New Mexico 88260

RE: C & C Landfarm, Inc. 80 Acre Expansion Application

N/2, NW/4, Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico,

Dear Mr. Samberson:

The New Mexico Oil Conservation Division (OCD) received your letter dated May 13, 1998 regarding the above referenced commercial surface waste management facility permit. The concerns listed in your letter are addressed here:

The statement in the cover letter concerning tanks exceeding 16 feet in diameter and exposed pits, ponds, or lagoons is a standard notice that is placed on all 711 permits, including permits for facilities that cannot accept free liquids (see below). This is based on the Oil Conservation Commission Order No. R-8952 put into effect September 1, 1989 covering the protection of migratory birds.

C&C Landfarm Inc. Permit conditions clearly states: Permit NM-01-012, Landfarm Operation, Section 13, "No free liquids or soils with free liquids will be accepted at the facility".

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

Sincerely,

Martyne J. Kieling

Environmental Geologist

xc with attachments:

Hobbs OCD Office

Eddie W. Seay, C&C Landfarm, Inc.

Jimmie T. Cooper, C&C Landfarm, Inc.

LAW OFFICES

HEIDEL, SAMBERSON, NEWELL & COX

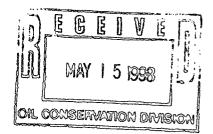
C. GENE SAMBERSON MICHAEL T. NEWELL LEWIS C. COX, III

Patrick B. McMahon

311 NORTH FIRST STREET
POST OFFICE DRAWER 1699
LOVINGTON, NEW MEXICO 88260
TELEPHONE (505) 396-5303
FAX (505) 396-5305

May 13, 1998

F.L. HEIDEL (1913-1986)



Ms. Lori Wrotenbery, Director State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Re:

OCD Rule 711 Permit Approval NM-01-0012

C & C Landfarm, Inc., 160 Acre

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East,

N.M.P.M., Lea County, New Mexico

Dear Ms. Wrotenbery:

I acknowledge receipt of a copy of your letter dated April 30, 1998, to Jimmie T. Cooper, along with a copy of the Attachment contained therein.

I am writing on behalf of S-W Cattle Co. regarding the language contained in the first full paragraph on page 2 of your letter. Specifically, the language regarding tanks exceeding 16 feet in diameter and exposed pits, ponds, or lagoons, seems to indicate that C & C Landfarm, Inc., is authorized under said Permit to have liquids other than fresh water located upon the land embraced in the Permit. My client and I had understood that the landfarm was authorized to accept solid waste only and there would not be liquids other than fresh water located on or involved in the activities conducted in the landfarm operation.

If our understanding is correct that C & C Landfarm, Inc., is not authorized to have liquids on the premises other than fresh water, I request that you so inform C & C Landfarm, Inc., in writing. If I am incorrect, I request that you advise me in writing immediately concerning what liquids, in addition to fresh water, C & C Landfarm, Inc., is authorized to have upon the premises as permitted.

Very truly yours,

HEIDEL SAMBERSON NEWELL & COX

By C. Lene Samberson

CGS:te

pc: S-W Cattle Co.

LAW OFFICES

HEIDEL, SAMBERSON, NEWELL & COX

C. GENE SAMBERSON MICHAEL T. NEWELL LEWIS C. COX. III 311 NORTH FIRST STREET
POST OFFICE DRAWER 1599
LOVINGTON, NEW MEXICO 88260
TELEPHONE (505) 396-5303
FAX (505) 396-5305

F.L. HEIDEL (1913-1985)

Patrick B. McMahon

April 9, 1998



New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

Attention:

Martyne J. Kieling

Environmental Geologist

Via Fax Number (505) 827-8177 and Regular Mail

Re:

C & C Landfarm, Inc., 80 Acre Expansion Application W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, N.M.P.M., Lea County, New Mexico

Gentlemen:

I acknowledge receipt of Ms. Kieling's letter dated March 24, 1998, addressed to me concerning the above captioned matter.

On behalf of S-W Cattle Co., the following comments, concerns, and objections are submitted.

One part of Rule 711 governing commercial surface waste disposal facilities requires Applicant to provide geological/hydrological evidence to demonstrate that disposal of oil field waste will not adversely impact fresh water. We are not aware of any hydrological evidence submitted by the Applicant demonstrating that the proposed landfarm expansion will not adversely impact S-W Cattle Co.'s fresh water. The proposed 80 acre expansion of C & C Landfarm adjoins S-W Cattle Co.'s land where S-W Cattle Co. has a windmill located less than 1500 feet from the south boundary line of the 80 acre tract. Our visual examination of the area shows drainage from the 80 acre expansion to be to the south and not to the west as the Application states. The slope or decline from the 80 acre tract is to the south, with S-W Cattle Co.'s windmill being approximately forty feet (40') below the level of the 80 acre expansion. We still believe the runoff from the 80 acre tract will be to S-W Cattle Co.'s windmill. The water level in S-W Cattle Co.'s windmill is approximately eighteen feet (18') below the surface with approximately twenty-five feet (25') of thickness in water sand in the well. The redbed is approximately forty-five feet (45') below the surface of the windmill.

Under these circumstances, S-W Cattle Co. believes that a substantial risk exists for

New Mexico Oil Conservation Division April 9, 1998 Page 2

contamination of its water supply by the proposed expansion.

S-W Cattle Co. does not believe that it should be placed in the position of incurring the expense and effort to demonstrate hydrological evidence supporting the existence of a substantial risk of contamination to its water supply. We believe that the burden of proof is properly upon the Applicant and we do not believe that the Applicant has done so.

S-W Cattle Co. objected to the original Application for a 40 acre landfarm located in the Southwest Quarter of the Northeast Quarter (SW/4NE/4) of said Section 3. It hired an expert; it presented witnesses in a hearing before the Oil Conservation Division; and it expended substantial financial resources to establish the risk to its water supply. That effort was rejected. In view of past experience, we feel that additional efforts to provide hydrological information would not be favorably viewed and would be a waste of our client's resources. However, in our opinion, this proposed 80 acre expansion is even more critically located (as described above) than the original 40 acre landfarm and, therefore, poses substantially more of a risk of contamination to S-W Cattle Co.'s water supply.

S-W Cattle Co. also has a major concern that the proposed bond of \$125,530.00 is inadequate. It is our understanding that this proposed bond would be the only bond required for closure of a 160 acre surface waste disposal facility. We further understand that the rule for surface waste disposal facilities may not authorize increasing the amount of bond at the time the facility permit is reviewed at the end of each five-year period. I am not aware of any financial information being furnished to your office demonstrating that in the event the bond is inadequate to properly complete closure, the corporate entity will have sufficient assets to complete the closure. If the expansion Application is to be granted, I request on behalf of S-W Cattle Co. that, as a condition of the permit, the cost of closure be reviewed periodically, and not less than once every five years, and that the bond amount be increased to meet the then current cost of closure. We anticipate that the OCD may find it necessary in the future to place additional requirements for closure of the facility in order to comply with applicable local and/or state and federal regulations which develop after more experience with the operation and closure of commercial surface waste disposal facilities. We feel certain that if additional requirements should be imposed in connection with closure, the bond is not adequate.

Likewise, we feel sure that the cost of closure will continue to increase and there is no provision for increasing the bond in order to merely keep pace with the increased costs of closure.

Very truly yours,

HEIDEL SAMBERSON NEWELL & COX

By C. Sene Samberson

CGS:te

pc: S-W Cattle Co.

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

March 24, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-409

Mr. Jimmie T. Cooper C & C Landfarm Inc. Box 55 Monument, New Mexico 88265

RE:

OCD Rule 711

C & C Landfarm Inc., 160 Acre

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, NMPM

Lea County, New Mexico,

Dear Mr. Cooper:

The New Mexico Oil Conservation Division (OCD) has reviewed the C&C Landfarm, Inc. (C&C) closure cost estimate and attachments provided in the February 16, 1998 letter. Upon this review the OCD has revised the OCD's closure cost estimate for C&C according to the enclosed attachment.

In addition, please find enclosed a copy of the letter to Mr. C. Gene Samberson of Heidel, Samberson, Newell & Cox. The above letter gives notice to S-W Cattle Co. that C&C Landfarm, Inc. proposed commercial surface waste management expansion has been determined to be approvable subject to the attached conditions.

If no further objections are put fourth by any intervenors by April 10, 1998. The new C&C permit covering both the original 80 acres and the 80 acre expansion will go to the Director for approval.

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

Sincerely

Martyne Kieling

Environmental Geologist

Montyn g Kily

xc with attachments:

Hobbs OCD Office

Eddie W. Seay, C&C Landfarm, Inc.

Revised OCD ENVIRONMENTAL BUREAU CLOSURE COST ESTIMATE For C&C LANDFARM EXPANSION, 80 ACRES MARCH 17, 1998

Quarterly Analytical Analysis for two years on 12 five acre cells

Laboratory Under State Contract: Price per analysis

Quarterly Sampling Time and Labor for 12 Cells

Labor \$55.00/hour Sample 30min per cell

Travel 2 hours

Delivery & Paperwork 2 hours

Total Time = (30 min/cell x 12 cells) + 2 hours + 2 hours = 10 hours

10 hours x \$55.00/hour = \$550.00/sampling event

\$550.00/sampling event x 8 quarters = \$4,400.00 Labor

Disking/Tilling for Two Years Every Two Weeks for 63 acres

Price and Time Quotes from and Equipment Operators and Landfarm Operators:

Small Tractor and Operator \$35.00 /hour 5 acres per hour = 12 min per acre

63 acres x 12min x 52weeks = 39,312 min = 655 hours

655 hours x \$35.00/hour = \$22,925.00 Disking/Tilling

Water for Bioremediation

Price Quotes from Equipment Operators

Water Truck \$120.00/load

\$120.00/load x 10 loads x 12 Events in Two Years = \$14,400.00 Water

Level and Contour Landfarm

Price and Time Quotes from and Equipment Operators

D-6 Dozer and Operator \$75.00/hour

\$75.00/hour x 30 min x 80 acres

= \$3,000.00 Level & Contour Landfarm

Revegetation for 80 Acres

Price and application Quotes from Seed Companies

Equipment an labor cost

Tractor and seed drill \$30.00/hour @ 15 min/acre for 80 acres = \$600.00

Materials Cost

Seed \$10.00/lb @ 5 lb/acre for 80 acres = \$4,000.00

\$1,200.00 + \$4,000.00 = \$4,600.00 Revegetation

Total Closure and Revegetation Cost of an 80 acre Landfarm

\$62,765.00

Total Closure and Revegetation Cost for the Existing 80 acre C&C

Landfarm Plus the 80 acre Expansion = \$125,530.00

Closure cost bonds will be no more than \$250,000.00 per existing facility as per Rule 711.

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

March 24, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-407

Mr. C. Gene Samberson Heidel, Samberson, Newell &Cox P.O. Drawer 1599 Lovington, New Mexico 88260

RE:

C & C Landfarm, Inc. 80 Acre Expansion Application N/2, NW/4, Section 3, Township 20 South, Range 37 East, NMPM Lea County, New Mexico,

Dear Mr. Samberson:

The New Mexico Oil Conservation Division (OCD) permits commercial surface waste management facilities which receive oil field related waste. The C&C Landfarm, Inc. proposed commercial surface waste management expansion has been determined to be approvable subject to the attached conditions. The application and supplemental information submitted are in compliance with all Division rules and regulations, and are open for public inspection at the OCD Santa Fe Office.

Heidel, Samberson, Newell & Cox filed an objection to the application of C&C Landfarm, Inc. on behalf of S-W Cattle Co. If S-W Cattle Co. still objects to the application and wishes to present technical testimony at hearing in Santa Fe, please submit a request for hearing within 15 days of date of this letter or by April 10, 1998. The request should include a concise statement of objections or concerns and a summary of the evidence you will present at hearing. If the Director determines that intervenors such as S-W Cattle Co. Have significant additional information to offer, the matter will be set for hearing. The OCD cannot consider land use or zoning requirements when evaluating surface waste management applications.

If no request for hearing is received by April 10, 1998 then the application will be administratively approved. If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyne J. Kieling

Environmental Geologist

xc with attachments:

Hobbs OCD Office

Mortyn of Thuly

Eddie W. Seay, C&C Landfarm, Inc.

Jimmie T. Cooper, C&C Landfarm, Inc.

CONDITIONS FOR OCD 711 PERMIT APPROVAL PERMIT NM-01-0012 C&C LANDFARM, INC.

W/2 NE/4 and N/2 NW/4, Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. (March 24, 1998)

LANDFARM CONSTRUCTION

- 1. The facility will be fenced and have a sign at the entrance. The sign will 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.
- 2. Contaminated soils will not be placed within one hundred (100) feet of the boundary of the facility.
- 3. Contaminated soils will not be placed within twenty-five (25) feet of any pipelines crossing the landfarm. In addition, no equipment will be operated within ten (10) feet of a pipeline. All pipelines crossing the facility will have surface markers identifying the location of the pipelines.
- 4. The portion of the facility containing contaminated soils will be bermed to prevent runoff and runon. A berm will be constructed and maintained such that it is capable of containing precipitation from a one-hundred year flood for that specific region.
- 5. All above ground tanks located at the facility and containing materials other than fresh water will be bermed to contain one and one-third the volume of the largest tank or all interconnected tanks.

LANDFARM OPERATION

- 1. Disposal will only occur when an attendant is 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 six inch lifts or less.

- 4. Soils will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.
- 5. Exempt contaminated soils will be placed in the landfarm so that they are physically separate (ie. bermed) from non-exempt contaminated soils. There will be no mixing of exempt and nonexempt soils.
- 6. Successive lifts of contaminated soils will not be spread until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 parts per million (ppm), and the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and the benzene is less than 10 ppm. Comprehensive records of the laboratory analyses and the sampling locations will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts and/or removal of the remediated soils.
- 7. The facility is authorized to accept only:
 - a. Oilfield contaminated solids which are exempt from RCRA Subtitle C regulations. These wastes should be accompanied by a OCD Form C-144 "Generator Certificate of Waste Status" from the generator.
 - b. "Non-hazardous" non-exempt oilfield contaminated solids from OCD permitted facilities on a case-by-case basis after conducting an analysis for hazardous characteristics and receiving OCD approval. The test for hazardous characteristics for a particular waste may be effective for one year from the date of analysis, if the subsequent wastes from the same waste stream are accompanied by a statement from the generator that there has been no change in the processes employed or the chemicals stored/used at the facility generating the waste.
 - c. Other non-oilfield contaminated solids which are RCRA Subtitle C exempt or non-hazardous by characteristic testing, if ordered by the Department of Public Safety on an emergency basis as the waste poses an eminent danger to public health. The wastes should be accompanied by a "Verification of Waste Status" demonstrating the exempt or non-hazardous classification of the solids and signed by the appropriate regulatory agency. OCD approval will be obtained prior to accepting the wastes.
- 8. At no time will any OCD permitted landfarms accept wastes which are hazardous by either testing or listing.

- 9. All loads received at the facility will be accompanied by the following:
 - a. A OCD Form C-144 "Generator Certificate of Waste Status" signed by the waste generator or "Verification of Waste Status" issued by the New Mexico Environment Department (NMED) or the appropriate agency from another state for wastes regulated by that agency. The state agency verification is based on specific information on the subject waste submitted by the generator and demonstrating the exempt or non-hazardous classification of the waste.
 - b. The analytical results of Hazardous Waste Characterization for non-exempt waste including corrosivity, reactivity, ignitability, and toxic constituents and a certification that no listed hazardous wastes are contained within the wastes. The samples for these analyses and results will be obtained from the wastes prior to removal from the generator's facility and without dilution in accordance with EPA SW-846 sampling procedures.
 - c. All generators submitting waste to a OCD Permitted 711 Waste Management Facility must include a Naturally Occurring Radioactive Material (NORM) status declaration which is included in the OCD Form C-144 "Generator Certificate of Waste Status". The generator must declare that the waste if not exempted pursuant to 20 NMAC 3.1 subpart 1403, was surveyed for NORM and does not contain a maximum radiation exposure reading or NORM concentrations do not exceed that listed in 20 NMAC 3.1 Subpart 1403.C and D.
- 10. The transporter of all wastes to the facility will supply a certification that wastes delivered are those wastes received from the generator and that no additional materials have been added.
- 11. Moisture will be added as necessary to enhance bioremediation and to control blowing dust. There will be no ponding, pooling or run-off of water allowed. Any ponding of precipitation will be removed within seventy-two (72) hours of discovery.
- 12. Enhanced bio-remediation through the application of microbes (bugs) and/or fertilizers will only be permitted after prior approval from the OCD. Request for application of microbes will include the location of the area designated for the bio-remediation program, composition of additives, and the method, amount and frequency of application.
- 13. No free liquids or soils with free liquids will be accepted at the facility.

14. Comprehensive records of all material disposed of at the facility will be maintained at the facility. The records for each load will include: 1) the generator, 2) the origin, 3) date received, 4) quantity, 5) certification of exempt status or analysis for hazardous constituents if non-exempt, 6) transporter, and 7) exact cell location and any addition of microbes, moisture, fertilizers, etc.

TREATMENT ZONE MONITORING

- 1. One (1) background soil sample will be taken from the center portion of the landfarm two (2) feet below the native ground surface prior to operation. The sample will be analyzed for total petroleum hydrocarbons (TPH), major cations/anions, volatile aromatic organics (BTEX), and heavy metals using approved EPA methods.
- 2. A treatment zone not to exceed three (3) feet beneath the landfarm native ground surface will be monitored. A minimum of one random soil sample will 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 will be taken at two (2) to three (3) feet below the native ground surface.
- 3. The soil samples will be analyzed using approved EPA methods for TPH and BTEX quarterly, and for major cations/anions and heavy metals annually.
- 4. After obtaining the soil samples the boreholes will be filled with an impermeable material such as cement or bentonite.

REPORTING

- 1. Analytical results from the treatment zone monitoring will be submitted to the OCD Santa Fe office within thirty (30) days of receipt from the laboratory.
- 2. The applicant will notify the OCD Hobbs District office within 24 hours of any break, spill, blow out, or fire or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116.
- 3. Authorization from the OCD Santa Fe office will be obtained prior to application of successive lifts and/or removal of the remediated soils.
- 4. The OCD will be notified prior to the installation of any pipelines or wells within the

boundaries of the facility.

5. The OCD Santa Fe and Hobbs District office will 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. A closure plan for the facility will be provided.

BOND

1. Pursuant to OCD Rule 711 a surety or cash bond in the amount of \$125,530. in a form approved by the Division, is required by C&C Landfarm, Inc. prior to expanding the centralized surface waste management facility. Rule 711.B.3.c. outlines the following schedule:

25% of the total amount be submitted with in two (2) years of the effective date of the Rule or \$31,382 by January 1, 1997;

50% of the total amount be submitted with in two (2) years of the effective date of the Rule or \$62,765 by January 1, 1998;

75% of the total amount be submitted within three (3) years of the effective date of the Rule or \$94,148 by January 1, 1999;

total amount with in four (4) years of the effective date or \$125,530 by January 1, 2000.

CLOSURE

- 1. The OCD Santa Fe and Hobbs District office will 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 shall 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 for the facility will be provided including the following OCD closure procedures:
 - a. When the facility is to be closed no new material will be accepted;

C&C Landfarm, Inc.
Permit Conditions, 711 Permit NM-01-0012
March 24, 1998
Page 6

- b. Existing landfarm soils will be remediated until they meet the OCD standards in effect at the time of closure;
- c. The area will be reseeded with natural grasses and allowed to return to its natural state;
- d. 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

C&C Landfarm, Inc., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein. C&C Landfarm, 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:	
C&C LANDFARM, INC.	
by	

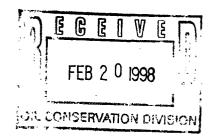
EDDIE SEAY CONSULTING

PEAK CONSULTING SERVICES

601 W. ILLINOIS HOBBS, NEW MEXICO 88240 (505) 392-2236 FAX (505) 392-6949

ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS





February 16, 1998

EMNRD - OCD Environmental Bureau 2040 S. Pacheco St. Santa Fe. NM 87505 ATTN: Martyne J. Kieling

, , ,

RE: C & C Landfarm Expansion

Dear Ms. Kieling:

Find within additional information concerning C & C's expansion request. Within are additional maps, information and analysis which should help to expedite our application. If you have any questions or need additional information, please call.

Sincerely,

Eddie W. Seay, Agent

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 Revised 6/25/97

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					
	X Solids/Landfarm Treating Plant					
2.	Operator: C & C Landfarm, Inc.					
	Address: Box 55 Monument, NM 88265 Eddie W. Seay or (505)392-2236					
	Contact Person: Jim Cooper Phone: (505)397-2045					
3.	Location: N 1/2 A NV 1/4 /4 Section 3 Township 20 S. Range 37 E. Submit large scale topographic map showing exact location					
4.	Is this a modification of an existing facility? Yes X 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 ₂ 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: Eddie W. Seay Title: Agent					
	Signature: 2-16-98					

CONSTRUCTION OF PROPOSED SITE

The 80 acre site which is proposed will be fenced with a barbed wire fencing material, and a gate entering from the east off of the original landfarm only. A 100 ft. buffer zone will be kept and maintained around the facility. A trench will be cut on the outside of berm at a depth of approximately 2 ft. This trench will divert any fluid (IE rain) from running onto landfarm. The berm will be constructed on the edge of the landfarm around the perimeter and also dividing each cell. The berm will be constructed of ambient material and will be approximately 3 ft. tall and 3 ft. wide. Any fluid which gets into the landfarm will be contained and vacuumed up and disposed of at an approved OCD facility.

- 1) 4 stran barbed wire fence around site.
- 2) 100 ft. buffer zone.
- 3) Trench between berm and buffer zone to divert rainwater.
- 4) 3 x 3 berm and the perimeter and between cells.
- 5) Sid Richardson 4 in. gas pipeline buried 36 in.. a 50 ft. buffer zone will be maintained and also the line will be marked and identified.
- 6) Texas-New Mexico 6 in. oil line buried 2 ft. is within our buffer zone area, and will not be bothered except the line will be marked and identified.
- 7) No cell larger than 5 acres and no landfarming on any pipeline.

BERMS AND TRENCHES

During May 1992, Lea Co. did have its recorded 100 year flood. We received ten inches of rain in less than 24 hours. At this time, we had in place the trenches and berms around our existing facility. During this time, no water ran onto the farm area, it all diverted around to the west. An inspection was made by OCD representative, Chris Eustice, ten days following the flood. A report containing this information is within our original file. We feel this system is adequate to use on the new 80 acre site since it has been tested. This berming will also contain any rainfalls which gather inside landfarm so it can be vacuumed up and disposed at an OCD approved facility.

7A(1) C & C will add water and do additional disking of the soil to prevent blowing and with the disking and mix of water will aerate the soil and minimize odors.

Berms are inspected on a regular basis and repaired as needed. Inspections are made on at least a weekly schedule because not only wind and rain erode the berms, but trucks and equipment also.

- 7A(2) Quarterly sampling of the treatment zone will be conducted to detect any leaking from the landfarm cells. with sampling, testing and reporting as OCD requires.
- Estimated closure cost attached.

No cell will be larger than 5 acres; excluding roads, berms, buffer zones and pipelines, it is estimated that the area to be used for landfarm is approximately 60 acres. Upon approval of permit, a survey will be done and an accurate plat submitted noting size and location.

9. The S & W windmill in question has been mapped and is located between 2800-3000 ft. south of the south edge of the proposed landfarm site. (Map attached) Also, an updated water analysis was conducted on this well, and results are within.

A surface contour map was constructed from information in well files obtained from OCD office, also a USGS contour map is enclosed. The surface slope at the proposed site in Units C & D is to the west. The contours in the general area gradually slopes NW with a 2 ft. high approximately 1/2 mile south of the south edge of the proposed landfarm site, from this point, the slope is to the SE. With the slope of the surface and with the berms which will be constructed 3 ft. high, this should contain any runoff even during a 100 yr. flood, because we have already been tested on the original site. Also contained within this report is a redbed contour map submitted with the original application. The redbed dips NW. (Maps attached)

ESTIMATED CLOSURE PLAN COST C & C LANDFARM EXPANSION 80 ACRES

Quarterly Analysis for 2 yrs. on 12 five acre cells. Laboratory prices:

BTEX \$ 40.00 X 8 quarters X 12 cells = \$ 3,840.00 TPH \$ 50.00 X 8 quarters X 12 cells = 4,800.00 Metals \$200.00 X 2 years X 12 cells = 4,800.00

Analysis Totals \$13,440.00

Quarterly sampling time and labor for 12 cells.

The local laboratory, Cardinal Laboratories, will collect the samples and send you a report provided they get the analytical work. This only seems reasonable since they are local.

Disking/Tilling for 2 years every 2 weeks for 63 acres. Prices and time quotes from different companies. Tractor and disk with operator = \$35.00 per hour. 5 to 7 acres per hr. 63 acres would take 12.5 hrs. X 52 wks. = 655.2 hrs. 655.2 X \$35.00 = \$22,932.00

Water for Bioremediation.

Water truck \$1.00 per barrel delivered. \$120.00 per load \$120.00 X 10 loads X 12 events = \$14,400.00 for water.

Leveling and contouring landfarm.

Price and time quotes from operators.

D-8 cat dozer - \$75.00 per hr.

1 acre per 30 min.

 $$75.00 \times 30 \text{ min.} \times 80 \text{ acres} = $3000.00 \text{ for leveling.}$

Revegetation for 80 acres.

Equipment and labor.

Tractor w/drill \$30.00 per hr. @ 15 min per acre. 80 acres X 15 min. per acre X \$30.00 = \$600.00

Material cost.

Seed \$10.00 per lb. at 5# per acre X 80 acres = \$4000.00 Total = \$4,600.00 for seed and revegetation

Total estimated closure for 80 acres = \$58,373.00

Total estimated closure for expansion and existing landfarm = \$116,746.00

Keep in mind that as time passes, cells would have become remediated and no disking or other work will need to be done, so the cost will be much cheaper.

I certify that I am authorized to make this application for C & C Landfarm, Inc., and that this application was prepared by me or under my supervision and direction and the date and facts stated herein are true, correct and complete to the best of my knowledge, and I will abide by all the rules set forth by the OCD and the written requirements in attachment

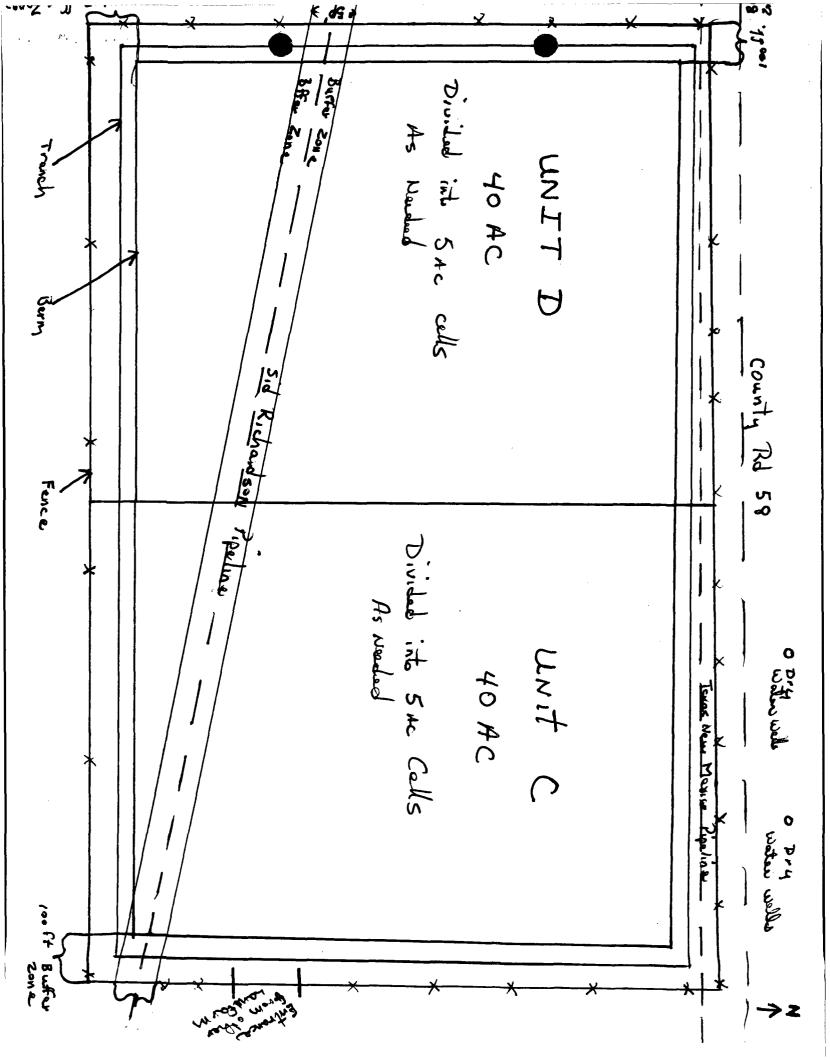
Agent

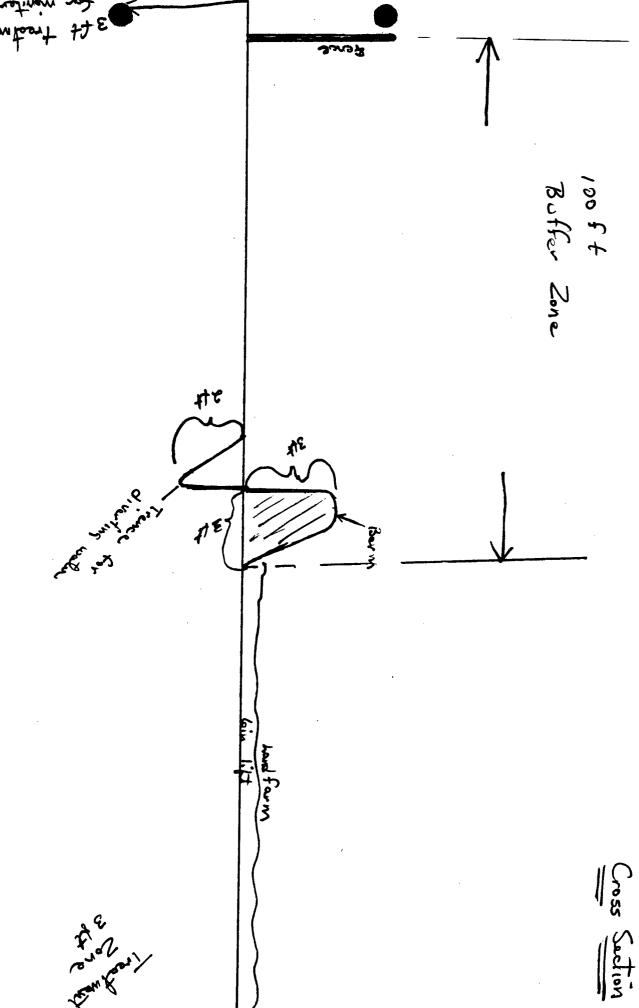
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Operator

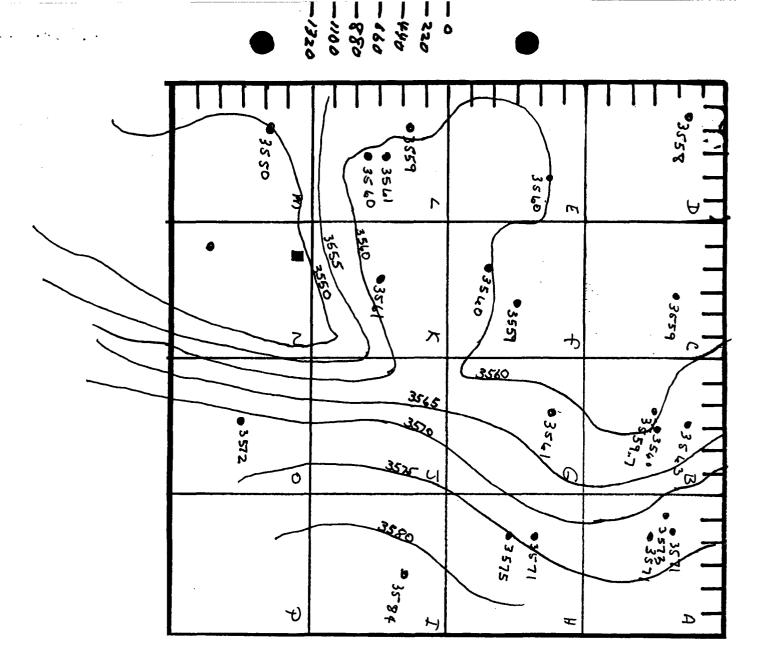
Date 2-17-98

Eddie W. Seay





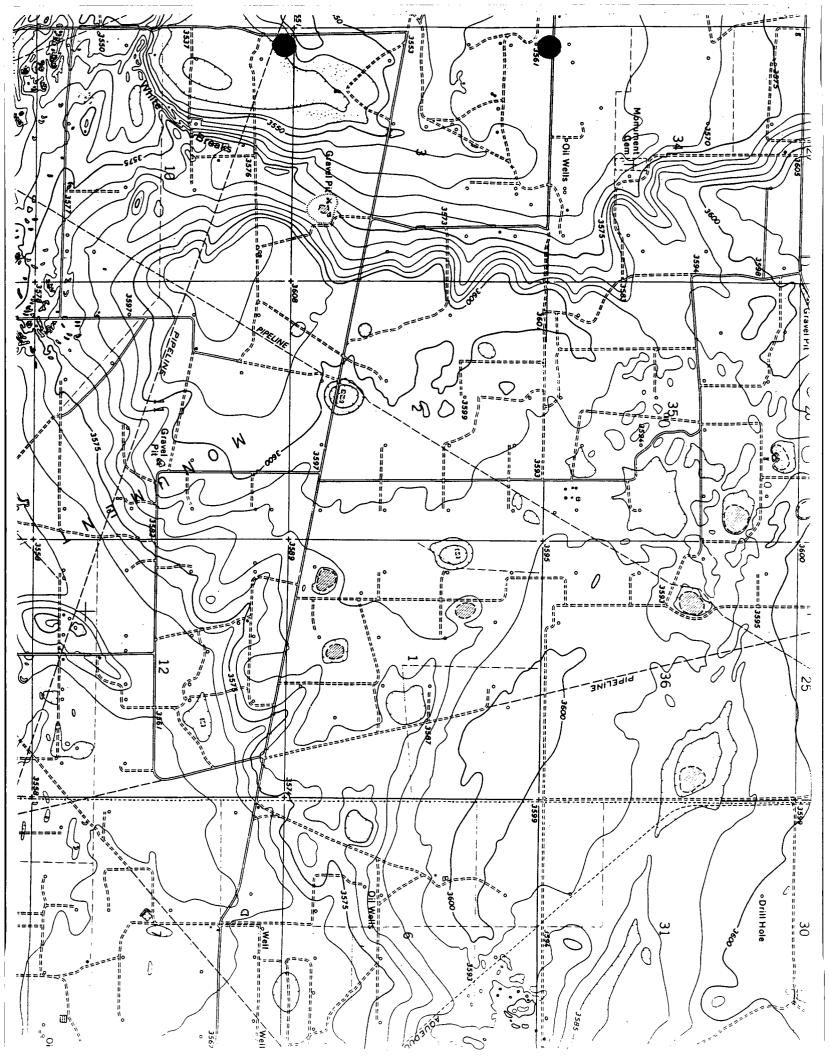
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3-20-37 Lea G.

Proposed landfarm expansion

Sturface contours taken
from well information OCD







ANALYTICAL RESULTS FOR **EDDIE SEAY CONSULTING** ATTN: EDDIE SEAY 601 W. ILLINOIS **HOBBS, NM 88240** FAX TO:

Receiving Date: 01/29/98 Reporting Date: 01/30/98 Project Number: C&C

Project Name: COOPER-SW WINDMILL

Project Location: MONUMENT, NM

Sampling Date: 01/28/98

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

325.3

TPH LAB NUMBER SAMPLE ID (mg/L) (mg/L)

ANALYSIS [DATE:	01/30/98	01/30/98
H3429-1	S&W WINDMILL,	<1.0	708
	SECT. 3		
Quality Cont	rol	202	472
True Value (OC .	200	500
% Recovery		101	94.4
Relative Per	cent Difference	1.4	4.0

moss fallook

METHODS: EPA 600/4-79-020

418.1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pageof	ANALYSIS REQUEST										120747						of the applicable 30 days part due at the rate of 24% per annum from the original date of invoice, straines, and at costs of collections, including attorney's fees.	☐ Yes ☐ No Additional Fax #:		cattle 6		
East Marland, Hobbs, NM 88240 5) 393-2326 Fax (505) 393-2476		BILL TO PO#:	Company:	Attn:	Address:	Clty:	State: Zip:	Phone #:	Fax#:	PRES. SAMPLING	OTHER: OTHER: OTHER: DATE TIME	J 1/28 31:30 J	•			In contract or tort, shall be limited to the amount peld by the clent	writing and received by Cardnai within 30 days after completion o implicing, loss of use, or loss of profite incurred by client, its subsi- such claim is based upon any of the above stated resears or oth-	Date: Phone Result ☐ Yes (/29 Received By: Fax Result: ☐ Yes (/29 ReMARKS: ☐ Yes (/40 Per Park)	y: (Lab Staff)	1	n CHECKED BY: (Initials)	
ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 Eas (915) 673-7001 Fax (915) 673-7020 (505) 33] ,	1 2 2 S	inors	Zip:			Project Owner: Cool s	54-W Window.	S.M.	MATRIX	Sample I.D. CORP. # CONTAINERS GROUNDWATER WASTEWATER SOIL SOIL SOIL	Stw windmil 111	7			PLEASE NOTE: LIBBITY and Damages. Candrat's liability and client's exchasive remedy for any claim sirsing whether based in contract or lost, shall be finited to the amount peld by the client for the	analyses. At plains including those for negligence and any other cause whatecover shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no every shall Cardinal be likely of included an consequent damages, including whose the formation and the proposition of the plants incurred by olders, its subsidiaries, and not a service and or restrict the negligence and services have noted as not cardinal recorders and visiting in based uson settled restant or otherwise.	Sampler Relinquished: Sampler Relinquished: Time: Time:	Received By	Time:	Circle One) Sample Condition Cool Intact Bus - Other: In No In No	
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† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240 FAX TO:

Receiving Date: 02/05/98 Reporting Date: 02/17/98 Project Owner: COOPER

Project Name: C&C LANDFARM
Project Location: MONUMENT, NM

Sampling Date: 02/05/98 Sample Type: SOIL

Sample Condition: COOL & INTACT

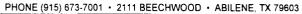
Sample Received By: AH Analyzed By: GP/AH

TCLP METALS

LAB NUMBER	R SAMPLE ID	As	Ag	Ва	Cd	Cr	Pb	Hg	Se
		ppm							
ANALYSIS D	ATE:	02/16/98	02/06/98	02/11/98	02/12/98	02/12/98	02/12/98	02/10/98	02/06/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3445-1	C&C EXPANSION	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	BACKGROUND								
									-
Quality Contro		0.095	2.358	4.945	2.025	5.026	5.006	0.0087	0.0485
True Value Q		0.100	2.500	5.000	2.000	5.000	5.000		0.0500
	<u> </u>						100		97
% Recovery	4	95	94	99	101	101			
Relative Stan	dard Deviation	7.5	0.5	14.6	0.9	1.9	4.7	8.9	10.1
METHODS: E	PA 1311, 600/4-91/0	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

Date





ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240 FAX TO:

Receiving Date: 02/05/98 Reporting Date: 02/09/98 Project Owner: COOPER

Project Name: C&C LANDFARM
Project Location: MONUMENT, NM

Sampling Date: 02/05/98 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH Analyzed By: AH/BC

Na Ca Mg K Conductivity T-Alkalinity
LAB NUMBER SAMPLE ID (mg/Kg) (mg/Kg) (mg/Kg) (u mhos/cm) (mgCaCO₃/Kg)

ANALYSIS [DATE:	02/09/98	02/06/98	02/06/98	02/06/98	02/06/98	02/06/98
H3445-1	C&C EXPANSION	72	58	23	16.2	139	192
	BACKGROUND						
Quality Conf	trol	NR	55	51	NR	1445	NR
True Value (JC .	NR	50	50	NR	1413	NR
% Accuracy		NR	110	102	NR	102	NR
Relative Percent Difference		NR	9.1	1.9	NR	0.3	NR

METHODS:	SM3500-Ca-D 3500-Mg E	8049	120.1	310.1

CI	SO ₄	CO ₃	HCO ₃	pН
(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(s.u.)

ANALYSIS [DATE:	02/06/98	02/06/98	02/06/98	02/06/98	02/06/98
H3445-1	C&C EXPANSION	160	<1	0	234	8.11
	BACKGROUND					
Quality Conf	rol	472	101	NR	NR	6.97
True Value (QC .	500	100	NR	NR	7.00
% Accuracy		94.4	101	NR	NR	99.6
Relative Per	cent Difference	4.0	0	NR	NR	0.4

METHODS: SM4500-CI-B 375.4 310.1 310.1 150.1

Chemist) Holinghe

Date



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88240

FAX TO:

Receiving Date: 02/05/98 Reporting Date: 02/06/98

Project Owner: COOPER

Project Name: C&C LANDFARM

Project Location: MONUMENT, NM

Sampling Date: 02/05/98

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

LAB NUMB	ER SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE:	02/06/98	02/05/98	02/05/98	02/05/98	02/05/98
H3445-1	C&C EXPANSION	<10	<0.020	<0.020	<0.020	<0.060
	BACKGROUND					
Quality Con	trol	203	0.102	0.104	0.102	0.306
True Value	QC	200	0.100	0.100	0.100	0.300
% Recovery	1	102	102	104	102	102
Relative Pe	rcent Difference	3.6	2.7	2.2	1.4	0.9

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8260

Burgess V. A. Cooke, Ph. D.

Date

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INAL LABORATORIES, INC.

2111 Beechwood, A (915) 673-7001 Fa

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	ax (915) 673-7020	\bilene, TX 79603
	(505) 393-2326 Fax (505) 393-2476	101 East Marland, Hobbs, NM 88240
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Relinquished By:	Sampler Relinquished	LEASE NOTE: Liability and Damag nelyses. Al daims including those N service. In no event shall Cardinal bo						H3445-1	LAB I.D.	FOR LAB USE ONLY	l	Broject Name: C+C	Project #: C+C L	Fax #:	Phone #: 392-7236	City: Halles	Address: (29 / 4	Project Manager: E	Company Name: とる
Date:	Date:	es. Cardinal's liability and olient's exclusive medigence and any other cause whater liable for incidental or consequental dam or related to the performance of services.				Birney Proper.	Rant a	C+C Expansion	Sample I.D.		Monument N.M		Love for M Project Owner:		236	State: ˌኢ)'nˌZip:	~ 7	رکو کھر	della Soan
S Received By: (Lab Staff)	Sampler Relinquished: Date: Phone Result: Phone	PLEASE NOTE: Liability and Damages. Cardinate liability and olient's exclusive remedy for any claim enting whether based in contract or for, shall be limited to the amount paid by the dear for the problems. At claims including these for negligance and any other cause whatboower shall be amend waived unless made in writing and neceived by Cardinal within 30 days safe completion of the explicable service. In no event shall Cardinal be table for incidental or consequential demangers, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiation, in the contract of the state of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the store of stated reasons or otherwise.						V 2 V	(GRAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX			GOPER			p: 87240		J	Gasultino
		id in contract or tort, shall be limited to the s n writing and received by Cardinal within 30 terruptions, loss of use, or loss of profits in or such claim is based upon any of the abov						a)5	OTHER: ACID: IOE/COOL OTHER: DATE	PRES. SAMPLING	┪	Phone #:	State: Zip:	City:	Address: CQ	Attn:	Company:	BILL TO PO#:	
REMARKS: Backs	Phone Result Yes	mount paid by the client for days after completion of the curred by client, its subsidi-						1.00 J	TPH] C	<u>L</u>	4.	18.						
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for Mc1 D 3-2	☐ No Additional Fax #:	Terms and Conc 30 days past due and all coets of o							(TCLE) V	<u>n</u>	عل	āl	\$						ANALYSIS
Backsmund for New expansion Unit C+D 3-20-37		Terms and Conditions: Interest will be changed on all accounts more train 30 days past due at the rate of 24% par annum from the original date of involce and all costs of collections, including attorney's fees.																	REQUEST
NG 12N		por on all accounts more the m from the original date of it is fees.																	
		avoice,																	

Cool Intact

Yes Yes

No No No

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)



ENVIRONMENTAL PLUS, INC.

STATE APPROVED LAND FARM
PHONE (505)394-3481
P.O. BOX 969
EUNICE, NEW MEXICO 88231

LABOR>	\$13.00	PER	HR
TRUCK DRIVER>			
Truck w/tandem	\$35.00	PER	HR
TRUCK W/LOW BOY>	\$48.00	PER	HR
PICKUP>	\$11.00	PER	HR
6 YARD DUMP TRUCK>	\$23.00	PER	HR
12 YARD DUMP TRUCK>	\$30.00	PER	HR
410 JOHN DEERE BACKHOE/LOADER>			
690 JOHN DEERE TRACKHOE>	\$75.00	PER	HR
790 JOHN DEERE TRACKHOE>	\$85.00	PER	HR
920 CAT LOADER>	\$35.00	PER	HR
966 CAT LOADER	\$50.00	PER	HR
850 JOHN DEERE W/RIPPER	\$60.00	PER	HR
2390 CASE FARM TRACTOR W/24" OFFSET DISC-DRILL>	\$52.00	PER	HR
FORD OR COBOTA W/DISC - TILLER - OR BRUSH HOG MOWER>	\$35.00	PER	HR
CONTAMINATED SOIL (IN)>	\$23.00	PER	ΥD
FILL DIRT (OUT)	\$ 3.00	PER	מע
CONTAMINATED SOIL (IN)> FILL DIRT (OUT)> CALICHE (OUT)>	\$ 2.50	PER	ΥD
ENVIRONMENTAL PLUS, INC.			
BY			

MID-TEX CONSTRUCTION CONFANY

P.O. BOX 3047 ODESSA, TX 79760 915-381-2710 OR 1-800-331-6326

STANDARD EQUIPMENT AND LABOR RATES

UNIT	COST PER HOUR
D-5 Dozer	\$65.00
D-6 Dozer	75.00
D-6R Dozer	85.00
D-7 Dozer w/ripper	100.00
120-G Motor Grader	55.00
130-G Motor Grader	57.00
963 Track Loader	80.00
950 Rubber Tired Loader	75.00
613 Elevating Scraper - 12 cy	80.00
623 Elevating Scraper - 23 cy	135.00
410 Rubber Tired Backhoe	45.00
12 cy Dump Truck	47.00
24 cy Dump Truck	75.00
790 Trackhoe - 55000	125.00
60 BBL Water Truck	42.00
100 BBL Water Truck	47.00 -
Grid Roller (Less Pull Tractor)	40.00
Vibratory Roller	45.00
175 Compressor	55.00
Shooter	30.00
Drill Operator	20.00
Haul Truck w/lowboy	65.00
4 Wheel Drive Pickup	20.00
2 Wheel Drive Pickup	15.00
Tractor w/disc	40.00 ←
Project Manager	30.00
Superintendent or Foreman	25.00
Operator/Pusher	22.00
Laborer	20.00
2 Ton Gang Truck	25.00
1/2 or 3/4 Ton Pickup w/Tools	20.00



PIPELINE AND PLANT CONSTRUCTION ENVIRONMENTAL AND REMEDIATION SERVICES

505 394-2588 1-800-782-5901 FAX 505 394-2299 P.O. BOX 970 EUNICE, NM 88231 505 887-9755 887-7931 FAX 505 887-0369 P.O. BOX 98 CARLSBAD, NM 88220 915 550-8210 FAX 915 368-4031 2858 STEVEN ROAD WEST LOOP 338 ODESSA, TX 79769

DITCHING

HOURLY EQUIPMENT RATES (continued)

850 COMBINATION TRACTOR	>\$	42.00	PER HR	
D4 COMBINATION TRACTOR	>\$	34.00	PER HR	
561 COMBINATION TRACTOR	>\$	42.00	PER HR	
D4 TACK RIG				
D6B CAT DOZER				
D6D CAT DOZER	• т			
D7 CAT DOZER				
D8 CAT DOZER				
D7 CAT W/AUGER BACKFILLER				
EZ7 PADDING MACHINE				
920 CAT LOADER/FORKLIFT				
966 CAT LOADER/FORKLIFT	>\$	40.00	PER HR	
CASE FORKLIFT	>\$	33.00	PER HR	
FARM TRACTOR W/SHREDDER OR DRILL	>\$	29.00	PER HR	_
3 INCH TO 8 INCH TAPING MACHINE				
8 INCH TO 12 INCH TAPING MACHINE				
12 INCH TO 16 INCH WRAPSTER				
30 INCH TO 36 INCH WRAPSTER	•			
2 INCH TO 12 INCH SQUEEZER	Ţ			
3 BARREL DOPE POT	T T			
10 BARREL DOPE POT				
SANDBLASTING EQUIPMENT				
PORTABLE PAINT RIG				
TANDEM PIPE TRAILER	Ţ			
UTILITY TRAILER				
PIPE STRAIGHTENING MACHINE				
BORING MACHINE W/ WATER TRUCK				
TWIN DRILL OR AIR TRACK				
PAVEMENT BREAKER OR HAND DRILL				
PORTABLE HAND GRINDER	> \$	4.50	PER HR	

Page 4

WELDING BACKHOE WORK FABRICATION •

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

New Mexico Energy Minerals and Natural Resources Department D Oil Conservation Division 2040 South Pacheco Street SEP 04 1997

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

Environmental Bureau
Oil Conservation Division

Form C-137 Originated 8/8/95 Revised 6/25/97

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)

	(Refer to the OCD Guidelines for assistance in completing the application)
	X Commercial Centralized
1.	Type: Evaporation Injection Other
	X Solids/Landfarm Treating Plant
2.	Operator: C & C Landfarm, Inc.
	Address: Box 55, Monument, NM 88265
	Contact Person: Eddie W. Seay Phone: (505)392-2236
3.	Location: W 1/2 NE /4 Section 3 Township 20 Range 37 Submit large scale topographic map showing exact location complete location attached.
4.	Is this a modification of an existing facility? Yes X 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 ₂ 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:Eddie W. Seay Title:Agent
	Name: Eddie W. Seay Title: Agent Signature: 9-1-97
	\

List of names and addresses of record of all landowners within 1 mile of the proposed expansion.

SW Cattle Co. P.O. Box 549 Hobbs, NM 88241

Coy R. Doyal Box 188 Monument, NM 88265

Jimmy B. Cooper P.O. Box 36 Monument, NM 88265

Carlyle J. Hall P.O. Box 163 Monument, NM 88265

Joe R. Williams Box 215 Monument, NM 88265

Jimmy T. Cooper Box 55 Monument, NM 88265

State of New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504

Witt V. Laughlin, Est. Elsie Reeves P.O. Box 90706 White Mountain Lake, AZ 85912

Velton O. Setzler P.O. Box 205 Monument, NM 88265

Roger Villalobos 913 Sayers Dr. Hobbs, NM 88241

Village of Monument Monument, NM 88265 List of names & addresses continued:

Arthur Travis Schwertfeger Family Trust 413 West Blanco Dr. Hobbs, NM 88241

Dorotea Cadena Box 244 Eunice, NM 88231

Larry or Patsy Hunt P.O. Box 208 Monument, NM 88265

Robert L. Rodgers, Jr. Star Rt. A, Box 51 Monument, NM 88265

Sarah Phillips 1323 E. Central Amarillo, TX 79108

Carolyn J. Taylor 7411 Valdez Hobbs, NM 88241

Glyn Mark Stone P.O. Box 20 Monument, NM 88265

INFORMATION

The location of the site is the W 1/2 of the NE 1/4 of Section 3, Township 20 S., Range 37 E., Lea County, New Mexico. The site covers 80 acres in Unit B & G.

- (D) The 80 acre site in use at this time contains the following:
 - 1) 4 strain barbed fence around the site.
 - 2) Buffer zone around the perimeter.
 - 3) Berm and trench around site to direct runoff and runon.
 - 4) Gates with locks.
 - (Diagram of facility within)
- (E) Only exempt oil and gas waste will be accepted at the landfarm unless special approval by OCD environmentalist. The material accepted will have documentation as to where, what company, who delivered it and signed by an authorized company person. Also, C & C will require analysis of the material before accepting it.

The material will be hauled in by truck, spread into six inch lifts and disked every other week.

Each cell's treatment zone will be tested on a quarterly basis for BTEX, TPH and for metals yearly, with analysis and report sent to Santa Fe OCD.

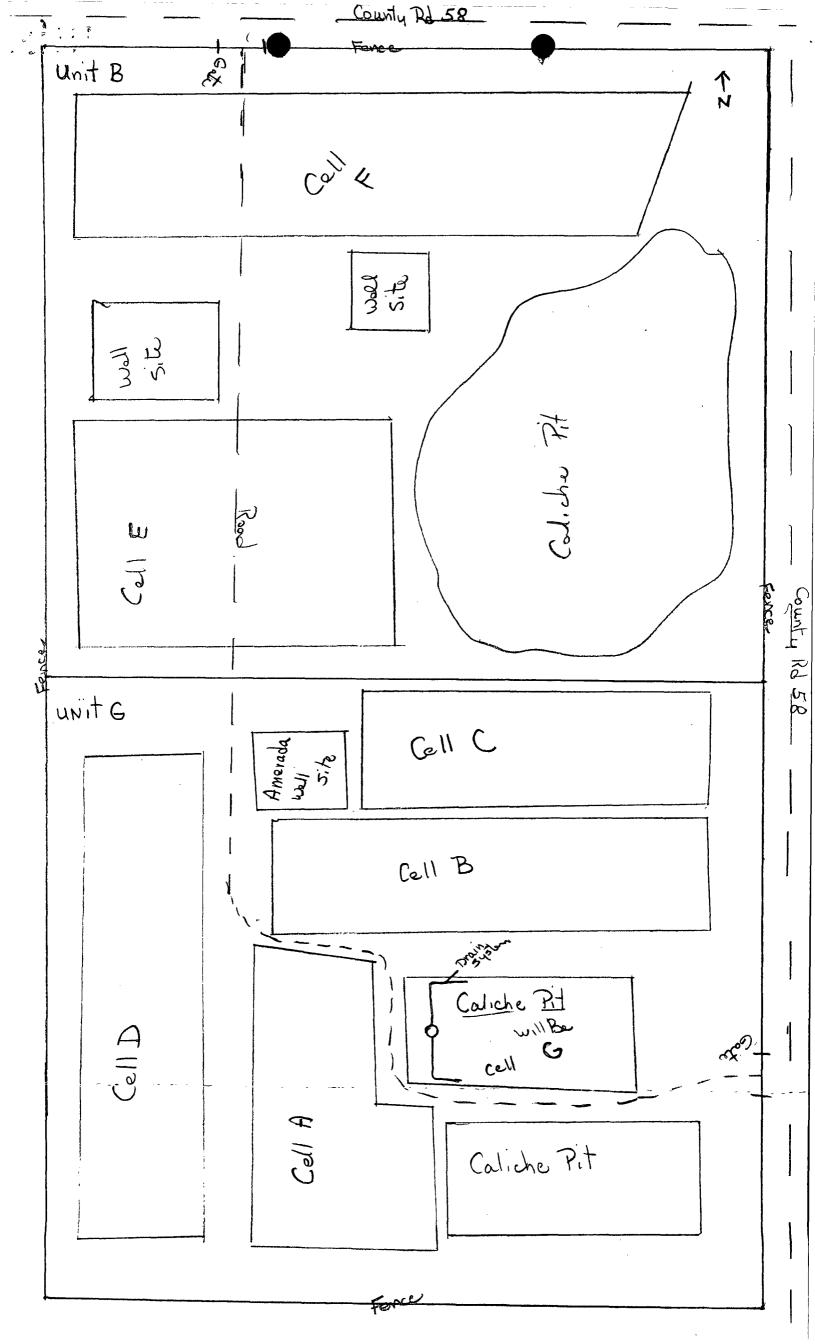
- (F) C & C will adhere to OCD Rule 116.
 - 1) Report any accidental discharge by phone immediately.
 - 2) Clean up and/or remediate according to OCD policy.
 - 3) File written reports as necessary.
- (G) Personnel will be on location at all times when material is being hauled. Gates will be kept locked and secured. Any water that accumulates on the property from rain will be vacuumed and hauled. Water may be added to landfarm from time to time for dust control and to enhance remediation.
- (H) An open system such as a landfarm, should not have an H2S problem. If H2S becomes a problem, proper testing and notice will be conducted.

- (I) Once C & C has stopped operations, it is estimated it will take approximately two years to finish remediating what soil is left in landfarm.
 - 1) Quarterly analysis for two years.
 BTEX, TPH and Metals Cost: \$ 1,600.00
 - 2) Disk and tilling for two years every other week. We presently contract this at a cost of \$8,000.00 per year, For two years

 Cost: \$16,000.00
 - 3) After area has been remediated, to level area and seed will approximately Cost: \$ 900.00

Total Closure Cost: \$18,500.00

4) We currently have in place a \$25,000.00 bond.



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New Mexico

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

AUG 1 2 1997

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

Form C-137

Originated 8/8/95

Revised 6/25/97

Environmental Bureau
Oil Conservation Division

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	Address: Box 55 Monument, NM 88265									
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14.	Attach such other information as necessary to demonstrate compliance with any other OCD rules, regulations and orders.									
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	Name: Eddie W Seav									

Date: 8-8-97

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Sarah Phillips 1323 E. Central Amarillo, TX 79108

Carolyn J. Taylor 7411 Valdez Hobbs, NM 88241

Glyn Mark Stone P.O. Box 20 Monument, NM 88265

Land farm Existing z← O Dry wells Divided into SAC Cells UNIT C 40 AC a Dry Water wills as Needed County Rd 58 Sid Richardson Hire Divided into 5AC Cells A L HND 40 AC as needed,

CONSTRUCTION OF PROPOSED SITE

The 80 acre site which is proposed, will be fenced with a barbed wire fence with an entrance from the existing landfarm only. A buffer zone will be kept around facility to divert any runoff from adjacent properties. A berm inside the trench will be maintained as a secondary precaution to prevent runoff or runon of facility. All cells will be disked and monitored and no cell will be built on an existing pipeline. There will be no buildings or storage of any kind on the facility and only waste approved by OCD will be admitted.

- 1) 4 stran barbed fence around site.
- 2) Buffer zone.
- 3) Trench between berm and buffer zone.
- 4) Berm around the perimeter.
- 5) Sid Richardson Pipeline 4 in. gas line buried 36 in.
- 6) Texas-New Mexico Pipeline 6 in. oil line buried 2 ft.
- 7) Access from other landfarm only.
- 8) Proposed cells not to exceed 5 acres. All cells will be kept off pipeline.

INFORMATION

(E) Only exempt oil and gas waste will be accepted at the landfarm unless special approval by OCD environmentalist. The material accepted will have documentation as to where, what company, who delivered it and signed by an authorized company person, also C & C will also require analysis of the material before accepting it.

The material will be hauled in by truck, spread into six inch lifts and disked every other week.

Each cell's treatment zone will be tested on a quarterly basis for BTEX, TPH and for metals yearly, with analysis and report sent to Santa Fe OCD.

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 - 2) Disk and tilling for two years every other week. We presently contract this on our existing 80 acres at a cost of \$8,000.00 per year, for two years

 Cost: \$16,000.00
 - 3) After area has been remediated, to level area and seed will approximately Cost: \$ 900.00

Total Closure Cost: \$18,500.00

HYDROLOGY AND GEOLOGY OF PROPOSED SITE

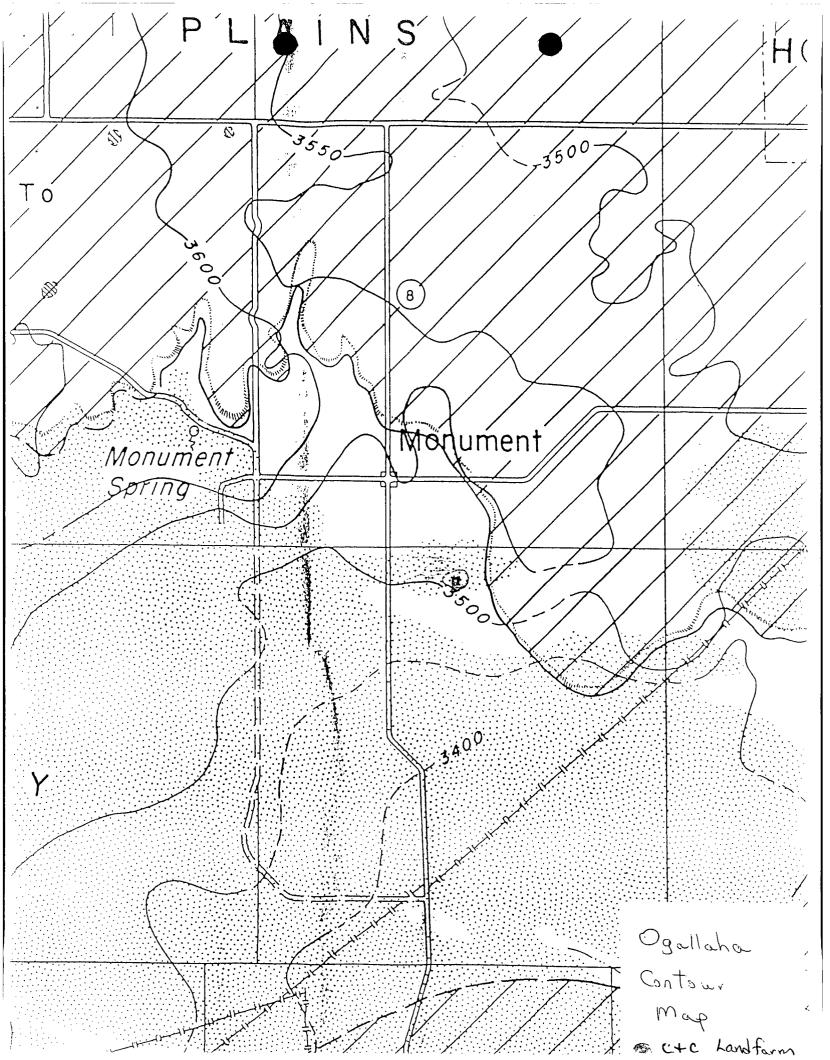
Geographically, the site is situated near the western boundary of the southern extension of the High Plains in southeastern New Mexico. The proposed site is an 80 acre tract located in Unit C & D, Sect. 3, T. 20 S., R. 37 E., Lea Co., NM. The site is adjacent to the existing C & C Landfarm which is permitted by the OCD. The site, which is bordered by County Road 58 to the north, has a gradual surface slope to the west. The site is situated below the white breaks or caprock area where little or no water is found. Research of State Engineer records and USGS files show no fresh water was recorded or found within the area of review. Three water wells were drilled in Sect. 34 adjacent to the proposed site. All wells, drilled by Van Noy Drilling, were recorded as dry holes with redbeds at 29 ft. (Logs attached) The redbed in this area range in thickness from 600 to 1000 ft. from logs of oil wells in the area. (Attached)

The only water wells within the area are a windmill approximately 1 mile south of the site, and a water well 3/4 mile northwest of site. A copy of a recent analysis is within. These wells were not listed on State Engineer's list of water wells.

For the past several years that C & C has been permitted to operate and monitor its existing facility, no water has been found in the monitor wells or the caliche pits, which are excavated down to top of redbeds, and we have found no water on the proposed site. I feel that without the presence of water and the preventive measures of the trench and berms to prevent runoff and runon of water, and the constant and consistent monitoring of the treatment zone below the proposed site and the existing facility, this should be a safe site for the disposal and remediation of oilfield contaminated soils.

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38 20S 37E 04 221321 09/09/58 47 708 GAL L 39 20S 37E 04 221321 07/14/77 106 1070 GAL L 30 20S 37E 04 221321 10/25/79 214 1506 65F GAL L 31 20S 37E 04 221321 2/06/85 81 964 GAL L 32 20S 37E 05 222144 11/29/79 258 1611 TBG L 32 20S 37E 05 222144 9/26/84 314 1729 TBG L 34 20S 37E 07 24331 11/09/79 1268 4232 TBG L 35 20S 37E 07 24331 2/13/85 2680 8160 68F TBG L 36 20S 37E 08 244124 11/29/79 868 3734 57F TBG L 39 20S 37E 08 244124 11/29/79 868 3734 57F TBG L 30 20S 37E 08 423223 10/25/79 520 2396 66F TBG L 30 20S 37E 08 423223 9/26/84 886 3806 TBG L	 										
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20S 37E 04 221321 10/25/79 214 1506 65F GAL L 20S 37E 04 221321 2/06/85 81 964 GAL L 20S 37E 05 222144 11/29/79 258 1611 TBG L 20S 37E 05 222144 9/26/84 314 1729 TBG L 45 20S 37E 07 24331 11/09/79 1268 4232 TBG L 20S 37E 07 24331 2/13/85 2680 8160 68F TBG L 48 20S 37E 08 244124 11/29/79 868 3734 57F TBG L 07620 51 20S 37E 08 423223 10/25/79 520 2396 66F TBG L 52 20S 37E 08 423223 9/26/84 886 3806 TBG L	39	205	37E	04	221321	07/14/77	106	1070		GAL	L
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52 20S 37E 08 423223 9/26/84 886 3806 TDG L 53 54 55 56	_	7)				2.00	, S.				
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(a) [56]	55	×				the Marine					
	56	i}						6.18 (April 1997) 6.18 (4.18 (
(57)	57		٠								

DIAD HOUSE	DOM 100 770 A& 111466	3692.00	32	Λ	٥	62 PLU	e u		ž.
1/09/19 USG	DOM 195.37E.04.111444			0	0			75. (75/0	0.00
4/07/22 OCC	IRR 195.37E.04.11333	3592.00 DP	350		0	()	, -	25-12260	
5/09/08 SEO	IRR 195.37E.04.11333	3492.00 DP	35	670	0	68 087		25-12260	0
1/09/22 SEO	IRR 195.37E.04.11333	3692.00 DP	91	907	0	66 087		25-12260	0
-7/07/13 SEO	IRR 195.37E.04.11333	3692.00 DP	30	920	- 0	0 077		25-12260	0
4/09/19 SED	IRR 195.37E.04.11333	3692.00 DP	28	583	0	67 108	4	25-12260	0
0/06/14 SED	IRR 195.37E.04.11333	3692.00 DP	71	565	0	0 119	Ó	25-12260	0
9/10/17 SEO	IRR 195.37E.04.411122	3974.00 DP	34	607	0	66			Ú
4/09/19 SED	IRR 195.37E.04.411122	3974.00 DP	42	649	0	65 108	4		Û
- 0/11/21 BCC	STK 195.37E.04.41200	3672.00 DP	195	0	Ō	0	p	25-12262	0
0/11/22 DCC	DOM 198.37E.04.412231	3672.00 YT	37	0	Ō	ò	P	25-12263	Ô
5/12/21 SED			. Во	1114	0	63	•	25-1226 3	0
7/06/17 SED	DOM 195.37E.04.412231	3672.00 YT	88	1161		0 067	,	25-12263	0
19/10/19 SED	STK 198.37E.04.412231	3672.00 DP	48	746	0	65 068		25-12263	0
34/09/26 SEO		3672.00 DP	65	903	0	64 058	δ.	25-12263	9
19/10/24 SED	STK 198.37E.08.31111	3698.00 DP	48	731	0	65		25-12267	0
19/10/19 SED	STK 198.37E.16.233212	3650.00 DP	44	680	0	Ģ		25-12274	ŷ
[14/11/08 SEB	STK 198.37E.16.233212	3650.00 DP	34	510	0	65 128	4	25-12274	e
10/06/14 SEO	STK 195.37E.16.233212	3650.00 DP	7 5	611	0	65 119	0	25-12274	Q
19/10/19 SEO	STK 198.37E.17.43143	3665.00 DP	46	698	0	6 6		25-12276	Ű
14/09/26 SED		3665.00 DP	78	797	Û	64 118	4	25-12276	Ô
79/10/24 SED		3703.00 DP	62	728	Ö	69	•	25-12278	0
34/11/08 SEO			45	661	Ö	0 128	4	25-12278	Ô
70/06/14 SED		3642.00 DP	225	1140		65 119		rd 15710	0
					0		ν	20 (227	
79/10/24 SEO		3677.00 DF	116	968	0	68		25-12279	0
79/11/07 SEO		3615.00 DP	86	1027	0	62		25-12281	0
34/11/07 SEO			61	777	0	<i>6</i> 7 128		25-12281	0
190/06/19 SEO		3615.00 DP	85	937	Û	63 119	0	25-12281	0
34/09/26 SED	DOM 195.37E.28.42421	3586.00 YT	60	757	0	0 118	4		0
70/06/19 SEO	DOM 198.37E.28.42421	3586.00 YT	55	716	0	0 119	0		0
79/11/29 SEO	STK 195.37E.28.42422	3584.00 DP	58	733	0	0 068	13	25-12282	0
84/07/15 USG		3589.00 YT	91	865	0	75	U		0
58/09/09 SEO		3589.00 YT	73	678	Ô	0	บ		0
79/11/29 SED			88	947		Ö	-		0
94/09/26 SEO	* · · · · · · · · · · · · · · · · · · ·		151	1001	0	0 118	i å		0
ľ.	DOM 195.37E.30.444123								0
		4	115	935	0			05 (8860	•
79/10/25 SEO			224	1582	0	78		25-12898	0
	DOM 195.37E.32.411343		260	1601	0	0			0
	DDM 195.37E.32.411343		134	1057	0	0 128	34		0
I.	IRR 195.37E.32.41322	3567.00 DP	226	1427	0	Ò			0
	IRR 195.37E.32.41322		235	1593	0	0 108	34		V
	DOM 195.37E.34.112412		60	731	0	0			0
E4/09/26 SED	DOM 195.37E.34.112412	3576.00 YT	49	700	0	0 128	34		0
	DOM 195.37E.34.112412		59	725	0	0 128			0
	IRR 195.37E.34.334322		94	1038	0	67			0
	IRR 195.38E.01.314242			1866	. 0	0			0
	MUN 195.3BE.02.13321	0.00	80	849	0	0 PLI	JG U		Č
57/08/14 SEO		0.00 YT	80	(† ()	0	0	au u		0
) DOM 198.38E.04.112243								
			88	0	0	0			0
	DON 195.38E.04.12124	0.00 DP	104	0	0	0 000	4.1		.Y •
) PPP 195.38E.04.12414		327	0	0	0 ABI	VN		0
	DOM 198.38E.04.243321		40	0	0	0			. Û
	DOM 198.38E.04.243321		. 90	816	0	65			0
	DOM 198.38E.04.243323		28	655	0	66			0
	DOM 195.38E.04.243323		64	0	0	0			0
	DOM 198.3BE.04.243323		59	720	0	0			0
85/02/14 SEO	NOT 195.38E.04.243323	3612.00 YT	120	1030	Ō	0 038	B5		0
	DOM 195.38E.04.24333		46	610	0	0		10.111 10.000	Ů
	DOM 195.38E.04.244443	1	48	0	0	0			0
	DOM 195.38E.04.244443		78	774	0	Ö			0
	240 270 000 01 21777	V !!		117	•	v			"



Section 1. GENERAL INFORMATION

\$1.	reet or I	Post Office A	Carlyle J	ox 163			Own	ner's Well No	
a		SE! ½ <u>XX</u> ½ £1320',	No. L-10.16 4 SE 4 SW 5330", W 1	¼ of Se 320', b	ction3	Township	19 <i>5</i> 50. R	ange 37 E	astN.M.P.M.
b.	Tract N	No	of Map No		of	the			
¢.			of Block No d inL						
d.			_ feet, Y=			, N.M. Coordina	ite System		Zone in Grant.
(B) Dr	illing Co	•					License No	WD-208	
Address		B	ox 7, 011 C	enter,	NM 8826	56			
Drilling 1	Began _	2-25-91	Comple	ted	2-26-91	Type tools	_Cable	Size o	f hole <u>8"</u> in.
Elevation	n of lan	d surface or _			at	well is	ft. Total dep	th of well	35ft.
Complet	ed well	is 🕱 s	hallow 🗆 art	esian.		Depth to wa	iter upon completio	on of well <u>d</u>	ft.
	Depth in	n Feet	Section Thickness	n 2. PRIN	CIPAL WA	TER-BEARING	STRATA	Feti	mated Yield
Fro		To	in Feet	ļ!	Description	of Water-Bearin	g Formation	5	ns per minute)
d:	ry			 	·	· · · · · · · · · · · · · · · · · · ·			
	-								
				Sectio	n 3. RECO	RD OF CASING	ì		
Diam (inch		Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of SI	hoe F	Perforations From To
none									
						DDING AND C	EMENTING		
Fro	Depth in	To	Hole Diameter	Sack of M		Cubic Feet of Cement	Meti	hod of Place	ment
						•			
				Sectio	n 5. PLUG	GING RECORD	,		
							Danth i	n Foot	0.11.5
						No.	Depth i Top	Bottom	Cubic Feet of Cement
Date Wel Plugging						<u> </u>			
- 10004115			State Engine	eer Represe	entative	$\frac{2}{3}$			
Date Rec	eived	March 17		FOR USE	OF STATE	ENGINEER O	NLY		
	т	-10,166		(OLE)		DOM & STK	FWL Location No.		_ FSL
File N	0				Use		Location No	-7.31.34	• > 7 7 1

#1 19.37.34,3441

Section 6. LOG OF HOLE

Depth	in Feet	Thi	Section 6. LOG OF HOLE
From	То	in Feet	Color and Type of, Material Encountered
0	5	5	top soil
5	15	10	caliche
15	30	15	sandy shale
30	35	5	red bed
			·
			·
			<u>-</u>
	,		

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This for of the State Engineer. All

uld be executed in triplicate, preferably typewritten, and submitted t ns, except Section 5, shall be answered as completely and accurate

ppropriate district office

drilled, repaired or deepened. 'hen this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Driller

(A) Owne	of well		Carlyl	e J. Hall		C	wner's Well N	o	<u> 1</u>
Street City a	or Post Office A	ddress	Monume	nt. NM 8	8265				
	lled under Permi								
a	SE ! ¼ _ x\$n x	4 <u>SE</u> 4 <u>SW</u>	¼ of Se	ction 34	Township.	<u>195</u>	. Range2	7.E	N,M.P,M
	E 1	320, S 330 '	, W 1320	', beginn	ing, 10ac				
c. Lo Su	No	of Block No	Lea	of th	e				
	,					e Svetem			Zone ir
	g Contractor						o. WD-208		
Address		P.	O. BOX	7, OIL CE	NTER, NM	88266			
Orilling Beg	an2-76-9:	Comp	leted2-	2791	_ Type tools_	Cable	Size (of hole	8in
Elevation of	land surface or			at we	ill is	ft. Total d	epth of well		35ft
Completed v		shallow 🗆 ar							RYft
		Sect	ion 2. PRIN	CIPAL WATE	R-BEARING S	STRATA			
	th in Feet	Thickness in Feet		Description of	Water-Bearing	Formation		imated insper n	
From DRY	То	M T cct					(guil	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	········
			_					·	
		<u></u>							
			Sectio	n 3. RECORD	OF CASING				
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of	Shoe	Perfor From	ations To
NONE				<u> </u>		<u> </u>			
		-			 	·			
					<u></u>	<u> </u>			
	A	T			ING AND CE	MENTING			
From	th in Feet To	Hole Diameter	Sack of M		ubic Feet f Cement	М	ethod of Place	ement	
									· · · · · · · · · · · · · · · · · · ·
	_L	<u> </u>	<u> </u>						
Nordon Co	-4			n 5. PLUGGI	NG RECORD				
Address					No.	Dept	h in Feet	Cu	bic Feet
	thod					Тор	Bottom	of	Cement
lugging app		,			2		1	1	
	`	· State Engi	neer Represe	entative	3 4		1		
			FOR USE	OF STATE E	NGINEER ON	LY			
Pate Receive	ed March 17	7, 1992		Quad		FW	/L	FSL.	

Section 6. LOG OF HOLE

·			Section 6, LOG OF HOLE
Depti	n in Feet	Thic ss	
From	То	in Feet	Color and Type of Material Encountered
0	5	5	top soil
_5	15	10	caliche
	1		
15	30	15	sandy shale
		1	
30	35		red_bed
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W. L. Van Nog Driller

INSTRUCTIONS: This for of the State Engineer. All

ld be executed in triplicate, preferably typewritten, and submitted ' ons, except Section 5, shall be answered as completely and accurate.

ppropriate district office possible when any well is drilled, repaired or deepened. 'hen this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

A) Owner of	well			<u>LYLE J. HA</u>	LL	Ow	ner's Well No.	03
Street or l	Post Office Ad	drese	BOX	163 UMENT, NM	88265			
	State							
ell was drilled		No	L-1	0,166	_ and is locate	d in the:		
	SE t	80.4	617 1/ 66	2/1	m	19-5 F	20	F
a	_ ¼ <u></u>		e 1320	s 330°.	iownsnip_ w 1320° bi	eginning, 1	cange	<u> </u>
b. Tract l	No	of Map No						
		-						
c. Lot No	0	of Block No.	7	of the				
Subdiv	vision, recorded	1·IN	Lea	c	ounty.			
d. X=		_ feet, Y=		feet, N.	M. Coordinate	System		Zor
the								G1
n D-1111 C			iJ T	WAN MOW		License No.	mod. h	ID-208
3) Drilling C	ontractor							
ddress	1-29-92		BOX	7, OIL CE	NTER, NM	88266		
	2×29×9±	5 ,41,	1-	30-92	T	Cable	a: c	8
rilling Began _		Con	ipleted		_ Type tools _		Size of	noie
levation of lan	nd surface or			at wel	l is	ft. Total dep	th of well	35
								ναπ
ompleted well	is ∟XIsh	nallow 🗆	artesian.		Depth to water	er upon completi	on of well	ואת
		Se	ction 2. PRIN	CIPAL WATE	R-BEARING S	TRATA		
Depth i	in Feet	Thicknes	is				Estir	nated Yield
From	To	in Feet		Description of	Water-Bearing	Formation	(gallon	s per minute)
DRY								
								
		j						
								······································
				4 DECODD	00.01.0010			
		гт		n 3. RECORD	T	T		· · ·
Diameter (inches)	Pounds per foot	Threads per in.	Тор	in Feet Bottom	Length (feet)	Type of S	hoe F	Perforations rom To
			ТОР	Dottom	1			- IOII
NONE								
		1)			
		 		 	 	 		
		Sant	tion 4 DECO	RD OF MUDD	INC AND CE	MENTING		
Depth i	in Feet	Hole	Saci		bic Feet			
From	То	Diameter	of M		Cement	Me	thod of Placen	nent
			 					
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			1					
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				4 D	10 nnc			
				on 5. PLUGGIN	G KECORD			
lugging Contra	ictor							,
	d				No.	Top	in Feet Bottom	Cubic Fee of Cemen
ate Well Plugg						100	Portolli	J. Centen
ugging approv	red by:				2	ļ		
•	***	State En	gineer Repres	entative		 		ļ:
	·			· · · · · · · · · · · · · · · · · · ·		<u> </u>		
			FOR USE	OF STATE EN	GINEER ON	LY		
te Received	March 17,	1992	FOR USE					
		1992	FOR USE			FWL	-	_ FSL
ite Received			FOR USE	Quad				

Section 6. LOG OF HOLE Depth in Feet Thic Color and Type of Material Encountered in Feet From To 5 % 5 top soil 5 15 10 caliche 15 30 30 sandy shale 30 35 5 red bed

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W. R. Jan May

INSTRUCTIONS: This for Id be executed in triplicate, preferably typewritten, and submitted to of the State Engineer. All ans, except Section 5, shall be answered as completely and accurate, drilled, repaired or deepened. Then this form is used as a plugging record only Section 1(a) and Section 5

ppropriate district office possible when any well is

EIELD ENGR. LOG

Section 1. GENERAL INFORMATION

A) (Owner of	wellJoe	Williams	0.0.01.1				Owne	r's Well No.		
5	Street or	Post Office A State Alb.	ddress	0 Cenflai 7105	· · ·						
								777			
Vell w	as drilled	l under Permit	t No. L-75	13 -3		and	is located	in the:			
		,					•	195 Rar	•		
ŧ	b. Tract l	No	of Map No)	of	the	 				
c	c. Lot No Subdiv	o vision, recorde	of Block No.		of Lea	the _ County	·.		· <u></u>		
d		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	feet, Y=		feet,	, N.M. Co		System			
3) I	Drilling C	Contractor	G. D. 01d	aker,				License Noh	ID-657		
ddres	ssP_	0. Box23	21, Hobbs,	New Mexi	co, 8824	.0					
		, ,		pleted _12/	17/79	Тур	e tools	rotary	Size of	hole 1	0½ in
levati	ion of lan	nd surface or .	3650		at	well is_3	3650	ft. Total depth	of well	4	4 ft
ompl	eted well	lis 🔀 s	shallow	artesian.		Depth	to water	upon completion	of well		25 ft
			Se	ction 2. PRIN							
	Depth i	in Feet	Thicknes	s						nated '	
Fı	rom	То	in Feet		Description	of water-	Bearing F	ormation	(gallon	s per n	ninute)
25		44	19	Wat	ter, Sand	<u>1</u>			25	GPM	
									!		
					W						
											
			<u> </u>			····	····		<u> </u>		
		D t.	T		on 3. RECOI			Τ		Danfan	otio
	meter	Pounds per foot	Threads per in.	Тор	in Feet Bottom	_ /	ength feet)	Type of Sho	e Fr	om	ations To
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(in		period		0	44		44	none	2	5	44
(in	ches)	portos		0	44		44	none	2	5	44
(in	ches)	periodo		0	44		44	none	2	5	44
(in	5/8			ion 4. RECO	RD OF MUI	DDING A	ND CEM	ENTING			44
(in-	ches)		Sect Hole Diameter		RD OF MUI		ND CEM	ENTING	2 od of Placen		44
(in	5/8 Depth	in Feet	Hole	ion 4. RECO	RD OF MUI	DDING A	ND CEM	ENTING			44
(in	5/8 Depth	in Feet	Hole Diameter	ion 4. RECO	RD OF MUI	DDING A	ND CEM	ENTING			44
(in	5/8 Depth	in Feet To	Hole Diameter	ion 4. RECO	RD OF MUI	DDING A	ND CEM	ENTING			44
(in	5/8 Depth	in Feet To	Hole Diameter	ion 4. RECO	RD OF MUI	DDING A	ND CEM	ENTING			44
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(inc. 6	Depth irom	in Feet To	Hole Diameter	ion 4. RECO Saci of M	RD OF MUI	DDING A Cubic Foof Ceme	ND CEMeet ent	ENTING	od of Placen	nent	
(ind	Depth rom and Contrass and Method	in Feet To	Hole Diameter	ion 4. RECO Saci of M	RD OF MUI	DDING A Cubic Foof Ceme	ND CEMeet ent	ENTING Metho	od of Placen	nent	bic Feet Cement
(index)	Depth irom	in Feet To sector	Hole Diameter	ion 4. RECO Saci of M	RD OF MUI	DDING A Cubic Foof Ceme	ND CEMeet ent CORD	ENTING Metho	od of Placen	nent	bic Feet
(index)	Depth irom ng Contrass ng Metho dell Plugg	in Feet To sector	Hole Diameter 10½	ion 4. RECO Saci of M	RD OF MUI ks uud	DDING A Cubic Foof Ceme	ND CEMeet ent	ENTING Metho	od of Placen	nent	bic Feet

Use IRR Location No. 19.37.34.31313

File No. <u>L-7513</u> -S

<u> </u>			Section 6. LOG OF HOLE
Depth From	in Feet To	Thirty s in Feet	Color and Type of Material Suntered
0	2	2	Brown Top Soil
2	10	8	Caliche
_10	12:	. 9	Gray Soil
_19	41	22	Water, Sand Rock
_41	44	3	Red Bed
44			
April 1980 - Anna 1980 - A			
			3564
<u></u>			L S Elev
<u></u>			Fley Of Name of the Control of the C
			100 No 19.37.34.3/3/3
			Loc. No. 19.37.34.3/3/3 Hydro. SurveyField Check_EAC-JCK
			SOURCE OF ALTITUDE GIVEN Interpolated from Topo. Sheet X
			Determined by Inst. Leveling
			Other ,
			:
	, ,		S 78
		, ,	ATE E
		. Section	7. REMARKS AND ADDITIONAL INFORMATION WELL IN THE RESERVE TO THE R
			AH AH AH AH
			2) F 8 0

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted † of the State Engineer. Al.

ions, except Section 5, shall be answered as completely and accurate.

possible when any well is drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section : need be completed. of the State Engineer. Al.

THE PARTY OF THE PROPERTY OF CHANGE MEXICO OIL CONSERVATION COMMISSION HOBBS OFFICE Santa Fc, New Mexico WELL RECORD ា មានប្រជាជា Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not Mail to District Office, Oil Conservation Commission, to which Form G-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE II State Land submit 6 Copies LOCATE WELL CORRECTLY J. W. Cooper will the Ashmun & Hilliard Oil Company Well No. 1 in NE 1/4 of NW 1/4, of Sec. 3 ..., NMPM. Los Wildcat .County. line and 2077 feet from Well is 1916 feet from north James 44 dies auch e of Section 3 If State Land the Oil and Gas Lease No. is Drilling Commenced 10-17-63 , 19 Drilling was Completed 12-2 Berger Street Name of Drilling Contractor Blackstock, Inc. Addres 603 V & J Tower Bldg., Midland, Texas Elevation above sea level at Top of Tubing Head. 3555 Gr. Lv1. The information given is to be kept confidential until OIL SANDS OR ZONES No. 1, from 6595 to 6613 No. 4, from 6595 No. 3, from......to..... No. 6, from...... IMPORTANT WATER SANDS Include data on rate of water inflow and elevation to which water rose in hole. No. 1, from None to feetfcct. No. 4, from......to..... CASING RECORD

SIZE	WEIGHT PER POOT	NEW OR USED	AMOUNT	KIND OF SHOR	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
13 3/8	40#	New	253.85	Hallibur	on	e de la companya del companya de la companya del companya de la co	
9 5/8	32# 36#	New	4000	Hallibur	COD		
7	20# 23#	New	6820	Hallibur	on	(See below)	
	<u> </u>			, -		1.00	

Can directly from a street MUDDING AND CEMENTING RECORD

	HOLE BIZE OF	BIZE OF CABING	WHERE SET	NO. SACES OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
	16	13 3/8	253.85	300 sx	Pump		
ŀ	11 1/2	9 5/8	4000	400 sx	Pump		
	8 3/4	7	6820	400 sx	Pump		
•							

BECORE OF T ODUCTION AND STIMULATION

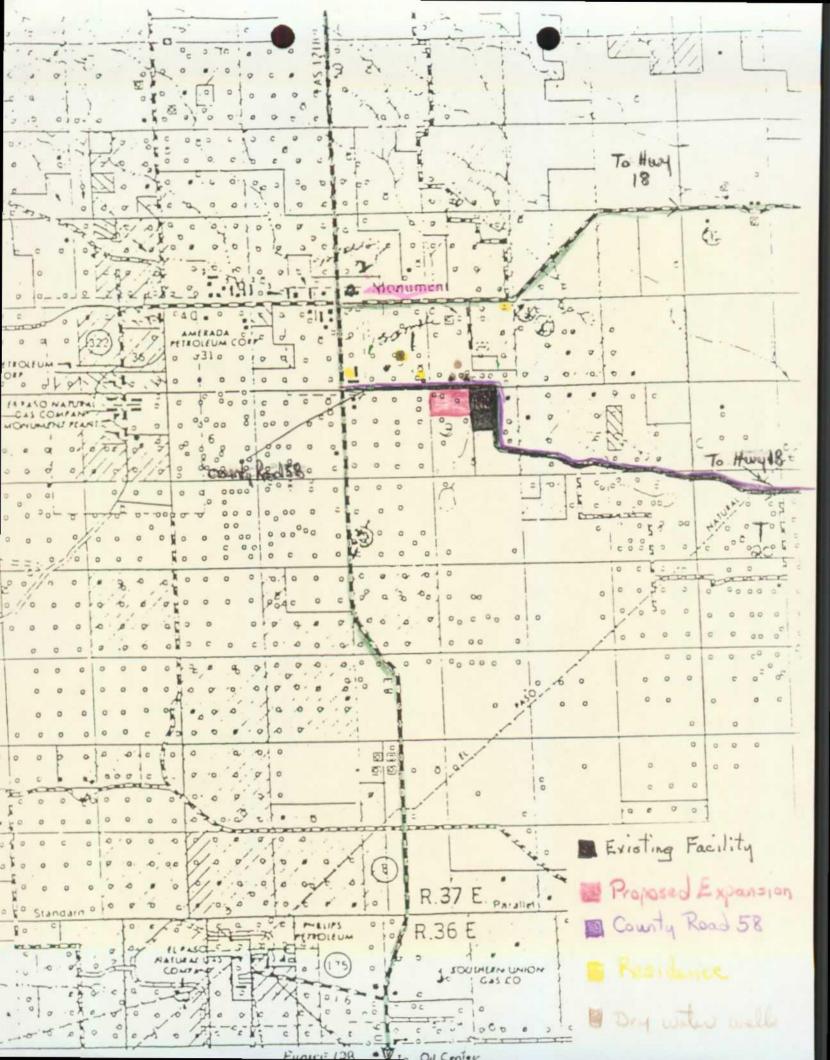
RECORD OF DRILL-STEM AND SPECI.

If drill-stem or other special tests or deziation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

TOOLS USED

			Surface feet to.	70001 700	COLL	16				
		10 1								
				PRODU	OTION					
			leeffective12							
IL WE	LL: Th	e productio	on during the first 24 hour	was18	5	bar	els of liq	uid of whic	h. 92	
	wa	oil;	% was em	ulsion;	•••••••	.% water	and	2/10 of	11% was so	diment.: A.P.I
	Gra	wity	**			93		cr.	*1 1	
AS WE	LL: Th	c productio	n during the first 24 hours	s was,						barrels o
	liqu	uid Hydroc	arbon. Shut in Pressurc			ndre d			, j. 1	
Length o	f Time Si	hut in					J.E		:	
PLE	ASE INI	ICATE B	ELOW FORMATION T	OPS (IN CÓNI	FORMAN	CE WITH	GEOGR	APHICAL	SECTION O	F STATE):
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Anhy		316		Devonian Silurian	······································		T.	-		
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From	То	Thickness in Feet	Formation		From	То	Thickness in Feet		Formation	
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2622	2878	256	Sand, Shale & D		ĺ	1		l		
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	5.30	Style Storento	-	50-1317	250 June	100			Petro
	(It would	\$ 50 miles	•			BART MATERIA	Comment C.S. Sections		17.
	Sec. x	William Parace Solarch	Continental Saco	6 12 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q .	- W	• 🔉	- Cont.	b
* Existing Facility	Saliren Turrer Tourse	Mary B. West, M. S. W. Corrie Co. 15	A STANKE		(A.)	Hilliard H. Dic	1	Geny G'	
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Send Same	ANTACKANTACATI		15 July 15 Jul	5,015	7			71	() () () () () () () () () ()

Since 1849. We Read You.

EDDIE SEAY CONSULTING 601 W. ILLINOIS HOBBS, NM 88240

NOTICE OF PUBLICATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL

RESOURCES

DEPARTMENT

OIL CONSERVATION

DIVISION

Notice is hereby given that pursuant to New Mexico Oil

Conservation Division Regulations, the following applica-

tion has been submitted to the Director of the Oil Con-

servation Division, 2040 \$

Pacheco, Santa Fe, New

Mexico, 87505, Telephone

(NM-01-0012) - C & C Land-

farm, Inc., Eddie W. Seay,

Agent, P.O. Box 55 Mony

ment, New Mexico, 87265

has submitted for approval

an application to modify

their previously approved

commercial landfarm lo-

cated in the SW/4 NE/4 of

Section 3, Township 20 South,

Range 37 East, NMPM, Lea

County, New Mexico. The facility currently remediates

RCRA exempt and charac-

teristically non-hazardous

hydrocarbon confaminated

soils associated with oil and gas production. Soils are re-

mediated by spreading them

on the ground surface in 6

inch lifts or less and periodi-

cally disking them to en-

hance biodegradation of con-

taminants. The modification

proposes to expand the facil-

ity to the west 80 acres.

Ground water most likely to

be affected by any accidental

discharges at the surface is at a depth of 25 feet to 540

feet. The boundary for the fa-

cility is underlain by redbeds ranging in thickness from 430

feet to 1200 feet. The permit application addresses the

construction, operations,

(505) 827-7131:

AD NUMBER: 684495

ACCOUNT: 999901

LEGAL NO: 62255

P.O. #:

	102	LINES	UNCE	at	\$_	116.48
	Affidavits:					5.25
	Tax:					7.61
	Total:				\$_	129.34
ded		AFFIDAV	IT OF PUBLICA	ATION		
	STATE OF NEW MEX COUNTY OF SANTA			·		
n y	I, BETSY PERNER say that I am Le	gal Adve	_being first	duly swor	n d	eclare and THE SANTA

spill/leak prevention an monitoring procedures to b incorporated at the propose

Any interested person ma obtain further information from the Oil Conservation Di vision and may submit writ ten comments to the Directo of the Oil Conservation Div

sion at the address give above. The application ma proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after notice during which comments may be submitted to him and a public hearing may be requested by any interested person. Requests forth the reasons why a hearing should be held. A hearing

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

termines there is significant.

public interest.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 13th day of August 1997.

OIL CONSERVATION DIVISION WILLIAM J. LEMA

STATE OF NEW MEXICO.

OIL CONSERVATION

egai #62255 Pub. August 25, 1997

be with the above ad the above ad FE NEW MEXICAN, a daily news paper published in the English to pulling in any language, and having a general circulation in the Counties of Friday Prior for uling on any Santa Fe and Los Alamos. State of New Mexico and being a New Mexico and Bernard Company Mexico and Berna language, and having a general circulation in the Counties Santa Fe and Los Alamos, State of New Mexico and being a New paper duly qualified to publish legal notices and advertise ments under the provisions of Chapter 167 on Session Laws of the date of publication of this 1937; that the publication # 62255 a copy of which is hereto attached was published in said newspaper once each NEEK for ONE consecutive week(s) and that the notice was published in the newspaper proper and not in any for public hearing shall set supplement; the first publication being on the 25 day of AUGUST 1997 and that the undersigned has personal will be held if the Director de knowledge of the matter and things set forth in this affidavit. LEGAL ADVERTISEMENT REPRESENTATIVE

able. If a public hearing is Subscribed and sworn to before me on this 25 day of <u>AUGUST</u> A.D., 1997

Notary

Commission

Expires 3-14-2001



OFFICIAL SEAL B. MATHIE NOTARY PUBLIC STATE OF NEW MEXICO

My Commission Expires

Bull 2048 • Santa Fe, New Mexico 875c

Affidavit of Publication

STATE OF NEW MEXICO)
) 1
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
Legal Notice
Notice of Publication
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XBOLIX XXXX XXXXXX
CHEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, 做XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SAME ONE (1) day
CONSTITUTION beginning with the issue of
August 20 19 97
and ending with the issue of
<u>August 20</u> 19 97

And that the cost of publishing said notice is the sum of \$...50.40

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

Joyce (lemens

Subscribed and sworn to before me this 21st

day of August 19 97

Notary Public, Lea County, New Mexico

My Commission Expires Sept. 28 19 98

LEGAL NOTICE
NOTICE OF
PUBLICATION
STATE OF
NEW MEXICO
ENERGY, MINERALS
AND

NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION

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:

(NM-01-0012) C&C Landfarm, Inc., Eddie W. Seay, Agent, P.O. Box 55 Monument, New Mexico, 87265, has submitted for approval an application to modify their previously approved commercial landfarm located in the SW/4 NE/4 of Section 3, 20 Township South. Range 37 East, NMPM, Lea County, New Mexico. The facility currently remediates RCRA exempt and characteristically nonhazardous hydrocarbon contaminated soils associated with oil and gas production. Soils are remediated by spreading them on the ground surface in 6 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. The modification proposes to expand the facility to the west 80 acres. Ground water most likely to be affected by any accidental discharges at the surface is at a depth of 25 feet to 540 feet. The boundary for the facility is underlain by redbeds ranging in thickness from

430 feet to 1200 feet. 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 a public hearing may be requested by any interested person. Requests for a public hearing shall set forth the reasons why a hearing should beheld. A hearing will be held if the Director determines

there is significant public interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 13th day of August, 1997.

> STATE OF NEW MEXICO OIL CONSERVATION DIVISION WILLIAM J. LEMAY, Director

SEAL Published in the Lovington Daily Leader August 20, 1997.

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Family Trust	4b. Service Type ☐ Registered ☐ Insured
413 West Blanco Dr.	Registered Insured
Hobbs, NM() 88241 and tog	Express Mail Return Receipt for
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6. Signature (Agent)	
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District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
rict III - (505) 334-6178
O Rio Brazos Road
Aztec, 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 RECEIVED

AUG 1 2 1997

Revised 6/25/97

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

District Office

Form C-137

Originated 8/8/95

APPLICATION FOR WASTE MANAGEMENT FACILITY Ation Division

	(Refer to the OCD Guidelines for assistance in completing the application)
	X Commercial Centralized
1.	Type: Evaporation Injection Other
	X Solids/Landfarm Treating Plant
2.	Operator: C & C Landfarm Inc.
	Address: Box 55 Monument, NM 88265
	Contact Person: Eddie W. Seay Phone: (505)392-2236
3.	Location: N 1/2 4 NW 1/4/4 Section 3 Township 20 Range 37 Submit large scale topographic map showing exact location
4.	Is this a modification of an existing facility?
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 ₂ 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: Eddie W. Seay Title: Agent Signature: 8-8-97
	Signature: \mathcal{S}_{l}

List of names and addresses of record of all landowners within 1 mile of the proposed expansion.

SW Cattle Co. P.O. Box 549 Hobbs, NM 88241

Coy R. Doyal Box 188 Monument, NM 88265

Jimmy B. Cooper P.O. Box 36 Monument, NM 88265

Carlyle J. Hall P.O. Box 163 Monument, NM 88265

Joe R. Williams Box 215 Monument, NM 88265

Jimmy T. Cooper Box 55 Monument, NM 88265

State of New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504

Witt V. Laughlin, Est. Elsie Reeves P.O. Box 90706 White Mountain Lake, AZ 85912

Velton O. Setzler P.O. Box 205 Monument, NM 88265

Roger Villalobos 913 Sayers Dr. Hobbs, NM 88241

Village of Monument Monument, NM 88265 List of names & addresses continued:

Arthur Travis Schwertfeger Family Trust 413 West Blanco Dr. Hobbs, NM 88241

Dorotea Cadena Box 244 Eunice, NM 88231

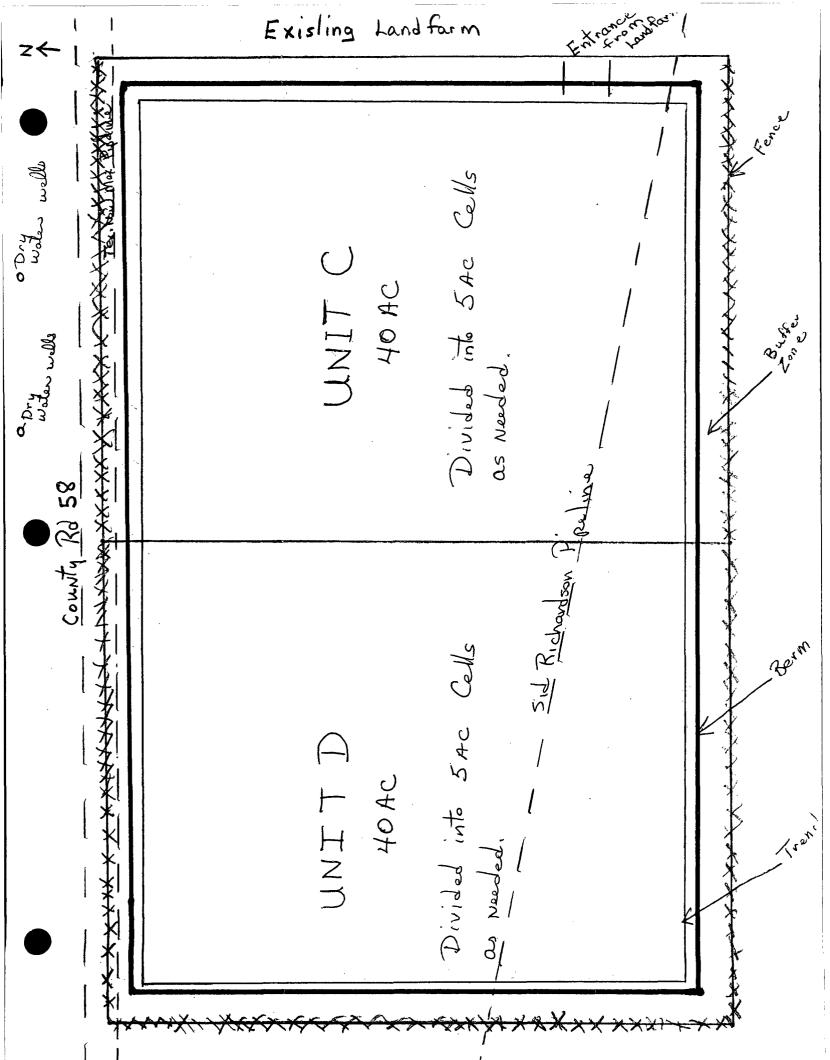
Larry or Patsy Hunt P.O. Box 208 Monument, NM 88265

Robert L. Rodgers, Jr. Star Rt. A, Box 51 Monument, NM 88265

Sarah Phillips 1323 E. Central Amarillo, TX 79108

Carolyn J. Taylor 7411 Valdez Hobbs, NM 88241

Glyn Mark Stone P.O. Box 20 Monument, NM 88265



CONSTRUCTION OF PROPOSED SITE

The 80 acre site which is proposed, will be fenced with a barbed wire fence with an entrance from the existing landfarm only. A buffer zone will be kept around facility to divert any runoff from adjacent properties. A berm inside the trench will be maintained as a secondary precaution to prevent runoff or runon of facility. All cells will be disked and monitored and no cell will be built on an existing pipeline. There will be no buildings or storage of any kind on the facility and only waste approved by OCD will be admitted.

- 1) 4 stran barbed fence around site.
- 2) Buffer zone.
- 3) Trench between berm and buffer zone.
- 4) Berm around the perimeter.
- 5) Sid Richardson Pipeline 4 in. gas line buried 36 in.
- 6) Texas-New Mexico Pipeline 6 in. oil line buried 2 ft.
- 7) Access from other landfarm only.
- 8) Proposed cells not to exceed 5 acres. All cells will be kept off pipeline.

INFORMATION

(E) Only exempt oil and gas waste will be accepted at the landfarm unless special approval by OCD environmentalist. The material accepted will have documentation as to where, what company, who delivered it and signed by an authorized company person, also C & C will also require analysis of the material before accepting it.

The material will be hauled in by truck, spread into six inch lifts and disked every other week.

Each cell's treatment zone will be tested on a quarterly basis for BTEX, TPH and for metals yearly, with analysis and report sent to Santa Fe OCD.

- (F) C & C will adhere to OCD Rule 116.
 - Report any accidental discharge by phone immediately.
 - 2) Clean up and/or remediate according to OCD policy.
 - 3) File written reports as necessary.
- (G) Personnel will be on location at all times when material is being hauled. Gates will be kept locked and secured. Any water that accumulates on the property from rain will be vacuumed and hauled. Water may be added to landfarm from time to time for dust control and to enhance remediation.
- (H) An open system such as a landfarm, should not have an H2S problem. If H2S becomes a problem, proper testing and notice will be conducted.
- (I) Once C & C has stopped operations, it is estimated it will take approximately two years to finish remediating what soil is left in landfarm.
 - 1) Quarterly analysis for two years.

 BTEX, TPH and Metals Cost: \$ 1,600.00
 - 2) Disk and tilling for two years every other week. We presently contract this on our existing 80 acres at a cost of \$8,000.00 per year, for two years

 Cost: \$16,000.00
 - 3) After area has been remediated, to level area and seed will approximately Cost: \$ 900.00

Total Closure Cost: \$18,500.00

HYDROLOGY AND GEOLOGY OF PROPOSED SITE

Geographically, the site is situated near the western boundary of the southern extension of the High Plains in southeastern New Mexico. The proposed site is an 80 acre tract located in Unit C & D, Sect. 3, T. 20 S., R. 37 E., Lea Co., NM. The site is adjacent to the existing C & C Landfarm which is permitted by the OCD. The site, which is bordered by County Road 58 to the north, has a gradual surface slope The site is situated below the white breaks or to the west. caprock area where little or no water is found. State Engineer records and USGS files show no fresh water was recorded or found within the area of review. Three water wells were drilled in Sect. 34 adjacent to the proposed site. All wells, drilled by Van Noy Drilling, were recorded as dry holes with redbeds at 29 ft. (Logs attached) The redbed in this area range in thickness from 600 to 1000 ft. from logs of oil wells in the area. (Attached)

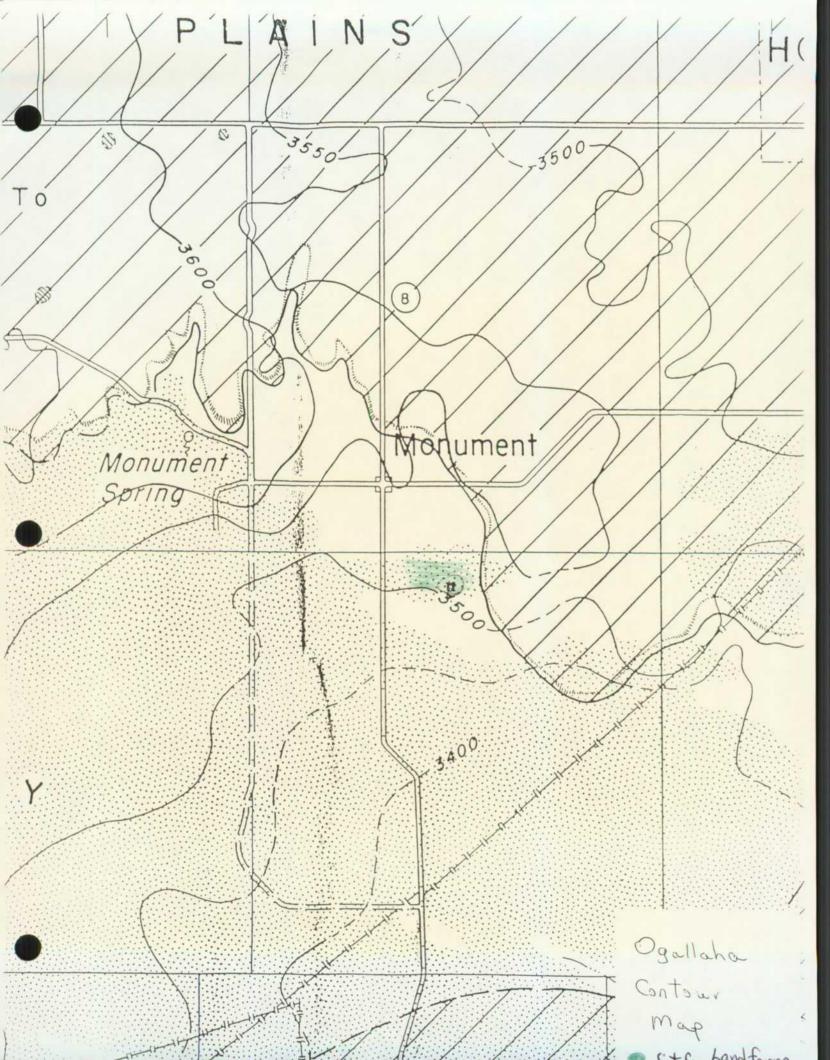
The only water wells within the area are a windmill approximately 1 mile south of the site, and a water well 3/4 mile northwest of site. A copy of a recent analysis is within. These wells were not listed on State Engineer's list of water wells.

For the past several years that C & C has been permitted to operate and monitor its existing facility, no water has been found in the monitor wells or the caliche pits, which are excavated down to top of redbeds, and we have found no water on the proposed site. I feel that without the presence of water and the preventive measures of the trench and berms to prevent runoff and runon of water, and the constant and consistent monitoring of the treatment zone below the proposed site and the existing facility, this should be a safe site for the disposal and remediation of oilfield contaminated soils.

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•	39	**			221321	07/14/77	106	1070		GAL	<u>.</u> }
	40				221321	10/25/79	214	1506	65F	QAL	
	61				221321	2/06/85	81	964		GAL	-
■	42		~ · ·	- '		_, , , , , , ,	J.	, , ,			-
	43	205	37F	05	222144	11/29/79	258	1611		TOG	L
_ ا	44				222144	9/26/84	314	1729		TOG	Ī
	45							or C1955.			-
	46	 			24331	11/09/79	1268	4232		TOG	L
_	47				24331	2/13/85	2680	8160	68F	TOS	Ĺ
	48										
	49	205	37E	08	244124	11/29/79	868	3734	57F	TOG	L 07620 ES
	50					, sei		• • •			
"	51	209	37E	08	423223	10/25/79	520	2396	66F	TOG	L
	52				423223		886	3806		TOG	L
	53										
	53 54										
	55					the second					
4	56					100 miles (100 miles (
	57				10.						

29/09/19 USG DOM 199	6.37E.04.111444	3692.00	32	0	0	62 P	LUC	U		(0
54/07/22 OCC IRR 199	5.37E.04.11333	3592.00 DP	350	()	0	0		p	25-12260	!	()
55/09/08 SEO IRR 199	5.37E.04.11333	3692.00 DP	35	670	C	6 8 0	877		25-12260	i	0
71/9 SED IRR 199	S.37E.04.11333	3692.00 DP	91	907	0	66 0	877		25-12260		0
77/0. SEO IRR 199	5.37E.04.11333	3692.00 DP	30	630	0	0 0	777		25-12260	+	0
	5.37E.04.11333	3692.00 DP	28	563	0	67 1	084		25-12260	(0
70/06/14 SED IRR 19	S.37E.04.11333	3692.00 DP	71	565	0	0 1	190	**	25-12260		0
		3974.00 DP	34	607	0	66				į	Ü
]		3974.00 DP	42	649	Q	65 1	084				0
50/11/21 OCC STK 19		3672.00 DP	195	0	0	0		Р	25-12262	+	0
60/11/22 DCC DOM 19	S.37E.04.412231	3672.00 YT	37	0	Û	0		P	25-12263	4	0
76/12/21 SED STK 19	S.37E.04.412231	3672.00 DP	80	1114	0	63			25-12263	ŧ	0
77/06/17 SED DOM 19	5.37E.04.412231	3672.00 YT	88	1161	Ö	0.0	677		25-12263		0
79/10/19 SED STK 19	S.37E.04.412231	3672.00 DP	48	746	0	65 0	683		25-12263		0
84/09/26 SEO STK 19	S.37E.04.412231	3672.00 DP	45	903	0	64 0	588		25-12263	Į.	0
79/10/24 SED STK 19	S.37E.08.31111	3698.00 DP	48	731	0	65		-	25-12267	ŧ	0
79/10/19 SED STK 19	S.37E.16.233212	3650.00 DP	44	680	0	0			25-12274	!	0
84/11/08 SED STK 19	S.37E.16.233212	3650.00 DP	34	610	0	65 i	284		25-12274	(0
90/06/14 SEO STK 19	5.37E.16.233212	3650.00 DP	7 5	611	0	65 i	190		25-12274	i	0
79/10/19 SEO STK 19	S.37E.17.43143	3665.00 DP	46	488	0	6 6			25-12278	,	0
84/09/26 SEO STK 19	S.37E.17.43143	3665.00 DP	78	797	0	64 1	184		25-12276		0
	S.37E.19.113211	3703.00 DP	62	728	0	69			25-12278		Û
84/11/08 SED STK 19	S.37E.19.113211	3703.00 DP	45	661	0	0 1	284		25-12278		0
90/06/14 SED STK 19	S.37E.19.42222	3642.00 DP	225	1140	0	65 1	190				Q.
		3677.00 DF	116	968	0	68		•	25-12279	į	0
I B	S.37E.23.334133	3615.00 DP	86	1027	0	62			25-12281		0
	S.37E.23.334133	3615.00 DP	61	777	0	67 1	284		25-12281	:	0
	S.37E.23.334133	3615.00 DP	85	937	0	63 1			25-12281		Ó
	S.37E.28.42421	3586.00 YT	60	757	0		184			ı	0
	S.37E.28.42421	3586.00 YT	5 5	716	0		190				0
	S.37E.28.42422	3584.00 DP	58	733	0		683		25-12282		0
	S.37E.29.43143	3589.00 YT	91	845	0	75		Ų			0
58/09/09 SED MTU 19	S.37E.29.43143	3589.00 YT	73	678	0	0		IJ			0
79/11/29 SED DOM 19	S.37E.30.444123	3594.00 YT	88	947	0	0	-				()
84/09/26 SEO DOM 19	S.37E.30.444123	3594.00 YP	151	1001	0	0 1	184				0
90/06/14 SED DOM 19	S.37E.30.444123	3594.00 DP	115	935	0	0 1	190				0
79/10/25 SED DOM 19	S.37E.32.31440	3569.00 DP	224	1582	0	78			25-12898		0
: 79/10/25 SEO DOM 19	S. 37E. 32. 411343	3570.00 YT	260	1601	0	0					0
84/11/07 SEO DDM 19	S.37E.32.411343	3570.00 YT	134	1057	0	0 1	284				f)
: 79/10/25 SED IRR 19	S.37E.32.41322	3567.00 DP	226	1427	0	0					0
3 84/09/20 SED IRR 19	S.37E.32.41322	3567.00 DP	235	1593	0	0 1	084				0
79/11/29 SEO DOM 19	95.37E.34.112412	3576.00 YT	60	731	0	0					Ç
3 84/09/26 SED DOM 19	8.37E.34.112412	3576.00 YT	49	700	0	0 3	284				0
3 84/11/07 SED DOM 19	RS.37E.34.112412	3576.00 YT	59	725	0	0 1	1284				0
3 79/10/11 SEO IRR 19	7S.37E.34.334322	3563.00 DP	94	1038	0	67					0
3 79/10/17 SED TRR 19	S.38E.01.314242	3607.00 SPRKLR	240	1866	0	0					0
3 53/05/29 USG MUN 19	S.38E.02.13321	0.00	80	949	0	0 F	PUS	U			0
3 57/08/14 SED 19	95.38E.03.13133	0.00 YT	80	0	0	0					0
3 57/08/14 SED DOM 19	98.38E.04.112243	0.00 DP	88	0	0	0					0
9 57/08/14 SEO DOM 19		0.00 DP	104	0	0	0					9
3 57/08/13 SEO PPP 19		0.00 DP	327	0	0	0 6	ABDN				Ō.
3 57/08/12 SEC DOM 19			40	0	0	0					0
3 79/10/18 SEO DOM 19		·	90	816	0	65			,		0
3 79/10/18 SEO DON 19			28	655	0	66					0
8 5 YI4 SED DON 19			64	0	0	0		·			0
	75.3BE.04.243323		59	720	0	0					0
6 85/02/14 SEO NOT 15			120	1030	0)385				0
6 75/03/17 ONR DOM 19			46	610	0	0		0			0
9 57/08/14 SEO DOM 15			48	0	0	0					0
3 76/11/23 SEO DOM 15	75.38E.04.244443	3613.00 YT	78	774	0	0					0.



Street or Post C	Office Address	.o. Box 163			Owr	ier's Well No.	
City and State.				and is located	l in the		<u> </u>
\$	SE 					20 10-	_+ ,,,,,,,
a ½	311 4 SE 320', S330"	W 1320' N	ection <u> </u>	l'ownshipl5	<u> 50. </u>	ange37E8	IST N.M.P.M
b. Tract No	of Ma	p No	of t	he			
c. Lot No Subdivision.	of Block recorded in	No. Lea	of t	he County.			
					Susta		Zono is
d. X=	feet, Y=		reet,				Zone 1
B) Drilling Contrac		-			License No	WD-208	
ddress	Box 7, 0	oil Center,	NM 88266	5			
Prilling Began2=	25-91	Completed	2-26-91	Type tools	Cable	Size of	hole <u>8"</u> in
levation of land surf	ace or		at w	ell is	ft. Total dept	h of well	ft
ompleted well is	x shallow	artesian.		Depth to water	r upon completic	on of well dr	yft
-			ICIPAL WAT	ER-BEARING ST			-
Depth in Fee			Description o	f Water-Bearing F	Cormation		nated Yield
From	To in F	eet	Description			(gailon:	s per minute)
dry							
				,,)-1		
							
						<u> </u>	
Diameter Po	unds Thread		in Feet	D OF CASING Length	,		Perforations
_ •	foot per in		Bottom	(feet)	Type of Sh	roe Fr	om To
neno							
			╁───	 			
			<u> </u>				
				DING AND CEM	IENTING		
Depth in Fee	t Hol To Diame			Cubic Feet of Cement	Meth	od of Placem	ient
						<u></u>	
		Conti	- 5 DI UCC	ING RECORD			
lugging Contractor.			J. 1 LOGG				
ddress				No.	Depth is		Cubic Feet
lugging Method ate Well Plugged					Тор	Bottom	of Cement
lugging approved by	:			2			
٠	State	Engineer Repres	sentative	34			
			OF STATE I	ENGINEER ONL	.Y		
ate Received Ma	rch 17, 1992		0	ıđ	EWI		EGI
T_10	,166 (1) (DRY HOLE)					
File No.	, 100 (I) (DAI HOLE)	Use	OIL G DIK	Location No.	19.37.34.	

			Section 6. LOG OF HOLE
Depth		Thickness in Feet	Color and Type of Material Encountered
From	То	III Feet	
0	5	5	top soil
5	1 5	10	caliche
15	30	15	sandy shale
30	35	5	red bed
		-	
			
	<u> </u>		-
		1	

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This for of the State Engineer. All

uld be executed in triplicate, preferably typewritten, and submitted t ns, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened. /hen this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

ppropriate district office possible when any well is

(A)	Street or	Post Office Ad	idress	BOX 10	3		Own	er's Well No	03
Well	was drilled	under Permit SE‡¼X\$XX	No	¼ of Se ¼ 1 3 20	66 ction 34	and is locat Township	19_S Ra		
	c. Lot No	o			of (the			
			_ feet, Y=				e System		
	_						License No	MD-508	
			P.				Cable	Size of he	8 in
							ft. Total dept		
			hallow 🔲 ar	esian.			er upon completio		
<u> </u>	Depth		Thickness in Feet			of Water-Bearing			ted Yield per minute)
	DRY	То	III reet		•			(ganons p	oci minute)
				Sectio	n 3. RECOR	D OF CASING			
	iameter nches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Sh	oe Por	erforations n To
NO	ONE			.,,					
	Depth From	in Feet To	Hole Diameter	Sacl	ks	Cubic Feet of Cement		od of Placeme	nt
								10	
Phose	ing Contac	ector				ING RECORD			
Addr	ess					No.	Depth in		Cubic Feet
Date	Well Plugg	ed					Тор	Bottom	of Cement
Plugg	ing approv	red by:	State Engin	eer Repres	entative	$\frac{2}{3}$,
Date :	Received	March 17	, 1992	FOR USE		ENGINEER ON			Eci
) Fil	e No1	L-10,166	(2) (DRY E	IOLE)			FWL Location No		

Section 6. LOG OF HOLE

Section 6. LOG OF HOLE							
Depth in Feet Thickness		Thickness	I and the second				
	From To in Feet		Color and Type of Material Encountered				
0	5	5	top soil				
		Y					
_5	15	10	caliche				
		1.					
15	30	15	sandy shale				
•		1_	, , ,				
30	35	5	red_bed				
	-						
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W. L. Van Nog Driller

INSTRUCTIONS: This for of the State Engineer. All drilled, repaired or deepened. 'hen this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

¥³

STATE ENGINEER OFFICE WELL RECORD

. well		<u> </u>	YLE J. HA				
Post Office Ad	ddress	BOX MONU	163 JMENT. NM	88265			
							 ,
	No	L1	0 , 1 66	_ and is located	l in the:		
ν XSXX ν	4 _ 5e¼ _ 5ī	₩ ¼ of Sec	tion34	Township	19-5 Ra	inge37	EN.M.P
		e 1320,	, в 330',	w 1320' be	ginning, 10	ac	
No	of Map No		of the				
lo	of Block No		of the				
vision, recorde	d in	Lea	C	ounty.			
	feet, Y=		feet, N.	M. Coordinate	System		Zone
							Gra
Contractor		W. I.	VAN NOY		License No	out. W	D-208
1-29-92	- 1			·			
0-00-04	x'' Compl	leted 1-3	10-92	_ Type tools	Cable	Size of	hole 8
					f. m . 1 1		35
nd surface or _			at we	l IS	II. I ofal dept	n of well	
llis ⊡XIs	shallow 🗖 ar	tesian.		Depth to water	upon completio	n of well	DRY
	Section	ion 2 PRING	TIPAT WATER	REARING ST	ΓRΑΤΑ		
in Feet	Thickness	`` <u> </u>				Estin	nated Yield
То	in Feet	_ r	Description of '	Water-Bearing F	ormation		s per minute)
 	 			····	- · · - · · · · · · · · · · · · · · · ·	-	
	1						
 	 					 	
<u></u>	<u></u>						
		Section	3. RECORD	OF CASING			
Pounds	Threads	Depth	in Feet	Length	Type of Sh	oe	Perforations
per foot	per in.	Тор	Bottom	(feet)	1,7,7	Fr	om To
				ì			
	Sectio	on 4. RECOF	RD OF MUDD	ING AND CEM	IENTING		
in Feet	Sectio Hole	n 4. RECOF		ING AND CEM		and of Placem	
			s Cı			nod of Placen	nent
in Feet	Hole	Sack	s Cı	bic Feet		nod of Placen	nent
in Feet	Hole	Sack	s Cı	bic Feet		od of Placen	nent
in Feet	Hole	Sack	s Cı	bic Feet		nod of Placem	nent
in Feet	Hole	Sack	s Cı	bic Feet		nod of Placem	nent
in Feet	Hole	Sack	s Cı	bic Feet		od of Placem	nent
in Feet	Hole	Sack of Mu	s Cı	bic Feet Cement		nod of Placem	nent
in Feet To	Hole Diameter	Sack of Mu	s Cu	bic Feet Cement	Meth		
in Feet To	Hole Diameter	Sack of Mu	s Cu	bic Feet Cement	Meth	ı Feet	Cubic Feet
in Feet To	Hole Diameter	Sack of Mu	s Cu	G RECORD	Meth		
in Feet To	Hole Diameter	Sack of Mu	s Cu	G RECORD No. 1 2	Meth	ı Feet	Cubic Feet
in Feet To	Hole Diameter	Sack of Mu	s Cuid of	G RECORD No. 1 2 3	Meth	ı Feet	Cubic Feet
in Feet To	Hole Diameter	Sack of Mu Section	s Cuid of	G RECORD No. 1 2 3 4	Depth in	ı Feet	Cubic Feet
in Feet To ractor od ged_ wed by:	Hole Diameter	Sack of Mu Section	s Cuid of	G RECORD No. 1 2 3	Depth ir	ı Feet	Cubic Feet
in Feet To	Hole Diameter	Sack of Mu Section	n 5. PLUGGIN	G RECORD No. 1 2 3 4 RGINEER ONL	Depth ir	Feet Bottom	Cubic Feet of Cement
	Stated under Permit SE	State d under Permit No. SE 14	State MONU d under Permit No. L-1 SE1 1/4 NSM 1/4 SE1/4 SW 1/4 of Sec e 1320, No. of Map No. feet, Y= Contractor H. L. BOX 7 1-29-92 \$\$29\$\$2\$\$1 Completed 1-3 and surface or It is S shallow artesian. Section 2. PRING in Feet Thickness in Feet To in Feet In Section 1 Section 2. PRING Section 2. PRING Section 3. PRING To Depth	State MONUMENT, NM d under Permit No. L-10,166 SE!	State MONUMENT, NM 88265 d under Permit No. L-10, 166 and is located SE\	State MONUMENT, NM 88265 d under Permit No. L-10,166 and is located in the: SEL NAME // SEN SEN // of Section 34 Township 19 Reserved in the section of the section of the section of the section, recorded in Lea County.	State

Section 6. LOG OF HOLE

Section 6. LOG OF HOLE								
Depth	in Feet	Thickness in Feet	Color and Type of Material Encountered					
From 0	To 5 %	5	top soil					
	15	10	caliche					
15	30	30	sandy shale					
30	35	5	red bed					
	+							
. ———								
		<u> </u>						
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W. R. Van May Driller

INSTRUCTIONS: This for of the State Engineer. All or, except Section 5, shall be answered as completely and accurate, drilled, repaired or deepened. 'hen this form is used as a plugging record, only Section 1(a) and Section 5 are disconnected.

STATE ENGINEER OFFICE WELL RECORD

FIELD ENGR. LOG

Section 1. GENERAL INFORMATION

Ctro	Owner of well Joe Williams Street or Post Office Address 1330 Cenfial City and State Alb. N. M., 87105							Owi	ner's Well	No	
			No. L-751			and	i is located	l in the:			
	a. SW 1/4 NW 1/4 SW 1/4 1/4 of Section 3/4 Township 19S Range 37E N.M.P.M										N.M.P.M.
			-				-		_		
			d in								
			_ feet, Y=		fe	et, N.M. C	oordinate	System			Zone in Grant.
(B) Dri	lling C	ontractor	G. D. Olda	ker,		٠. س		License No	WD-657	·	
Address_	Р.	0. Box232	1, Hobbs,	New Mexi	co, 882	240		* *****			
Drilling B	Began _	12/15/7	9 Comp	leted _12/	17/79	Ту	pe tools	rotary	Size	of hole J	.0½in.
Elevation	of lan	d surface or _	3650		a	it well is_	3650	ft. Total dep	th of well.		14ft.
Complete	d well	is X st	hallow 🗀 ar	rtesian.		Dep	th to water	upon completio	on of well		25 ft.
		-		ion 2, PRIN							
D	epth i	n Feet	Thickness					Formation		stimated	
Fron	n	То	in Feet				-Dear High	Official Control	(ga.	llons per i	minute)
25		44	19	Wat	er, Sa	nd			25	G PM	
ļ					··						
				ļ	·····						
				<u></u>					<u> </u>		
	· · · · · ·				n 3. REC			,			
Diame (inche		Pounds per foot	Threads per in.	Depth Top	in Feet Botto		Length (feet)			Perfo From	rations To
6.5	/8			.0	44		44	none	İ	25	44
							·				
L			Section	on 4. RECO	DD OE MI	UDDING	AND CEN	ENTING			J
		n Feet	Hole	Sacl	ks	Cubic	Feet		hod of Pla	cement	
Fron	From To Diameter of Mud of Cemen					ient		·· · · · · · · · · · · · · · · · · · ·			
			10½								
											
					l			· · · · · · · · · · · · · · · · · · ·			
				Sectio	n 5. PLUC	GING R	ECORD				
•••		ctor	:								
Address - Plugging !					No.	Depth i	n Feet Botton		bic Feet Cement		
Date Well							1			`	
Plugging approved by:											
		1	State Engi	neer Repres	entative		4				
				FOR USE	OF STAT	E ENGIN	EER ONL	Y			
Date Rece	eived	March 12,	1980		(Quad		FWL		FSL	

Use IRR. Location No. 19. 37. 34. 31313

File No. 1-7513 -S

Section 6. LOG OF HOLE							
	in Feet	Thickness in Feet	Color and Type of Material Encountered				
From	То	in rect					
	2	2	Brown Top Soil				
	10	8	Caliche				
_10	12;		Gray Soil				
_19	41	22	Water, Sand Rock				
_41	44	3	Red Bed				
44							
	<u> </u>						
. ———	-						
	<u> </u>		35%4				
	<u> </u>	-	L S Elev				
	ļ		L S Elev				
			Lee No 19.37.34.3/3/3				
			Loc. No. 19.37.34.3/3/3 Hydro. Survey Field Check EAC JCH				
			SOURCE OF ALTITUDE GIVEN				
			Interpolated from Topo. SheetX				
	 	-	Determined by Inst. Leveling				
			Otties				
		+					
·		 					
	<u> </u>		S TAT				
		Section 7	7. REMARKS AND ADDITIONAL INFORMATION WELL, N. M. 9				
			AH 8				
			──				

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

La de Coldakar Driller

INSTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted $^\prime$ appropriate district office of the State Engineer, Al. ions, except Section 5, shall be answered as completely and accurate. . possible when any well is drilled, repaired or deepened When this form is used as a plugging record, only Section 1(a) and Section ! need be completed.

						(EDVESS)	Y/34/500 1 1		1 (1	
DER OF COMICS NCC	JTION_		_	;	na nikira aliu	o va neneva	0.537			$\downarrow \downarrow \downarrow$
d.				?			10,70	11		1 1
HD OFFICE	HODDCOCK									
01	Costs Fo New Marie								┼─┤	
ORATION OFFICE			コ	•		last t	2 0			\sqcup
ERATOR		L			and the state of t		1 1	164	4 4 4	1 1
				WE	LL RECO	RD ' mol			1-1-1-	\vdash
					េងការកម្រុជ		 		╌┼╌┼╌	\vdash
				, " ··	-				1 1 1	
					to which Form			1 1		1
					instructions in R		<u>工工 医胃切除器 500</u>	PULAREA	640 ACRES	<u> </u>
					••		•	~~~		•
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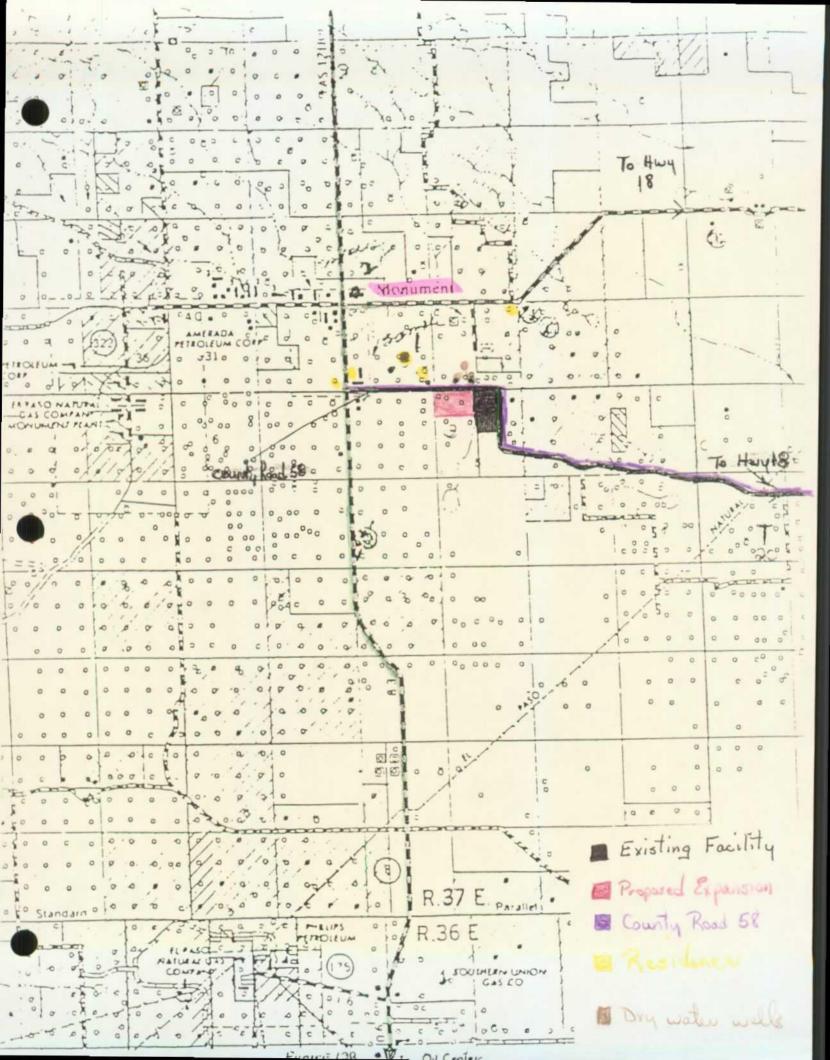
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STATE OF NEW MEXICO OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

X Telephone	Personal	Time 9:45	_	Date 7 - 10 - 97			
	Originating Party			Other Parties			
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Conclusions or	Agreements						
							
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Wayne Price

From:

Wayne Price

Sent:

Tuesday, June 24, 1997 11:28 AM

To:

Bill Olson

Cc:

Chris Williams

Subject:

Texas NM PL- C-138's C&C landfarm

..... 26 pg/

Re: TNMPL & Cooper Ranch Monument Remediation Project.

Dear Martyne & Bill:

I am sending to you two C-138's for the above re: project. I have given verbal approval. This is an on-going project.

I will include this memo to jog your memory:

waiting For Four of Knowledge of Process letter From Roger A to Grip. 6/27/97 MIM June 23, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-290

Mr. Eddie W. Seay C&C Landfarm 601 W. Illinois Hobbs, New Mexico 88240

RE: Use of the caliche pit areas as landfarm cells C&C Landfarm, Lea County, New Mexico

Dear Mr Seay:

The New Mexico Oil Conservation Division (OCD) has received C&C's request to utilize the caliche pit areas as landfarm cells dated November 26, 1996. Incorporating the caliche pit areas within the existing permitted facility boundaries will increase the useable landfarm area by 10 acres

Based on the information provided in your request and the phone conversations on June 13 and June 17, 1997 the request to use the caliche pit areas is hereby approved subject to the following conditions:

- 1. Construction of the caliche pits as landfarm cells will include placing a french drain collection pipe along the down slope side of the bottom of each pit along the red bed contact.
- 2. Each pipe installation will be inspected by personnel from the Hobbs OCD office prior to burial.
- 3. The french drain collection system will be continually pumped so as not to contain any standing liquid.
- 4. The liquid removed from the french drain systems will be stored in tanks at the C&C Landfarm.
- 5. Treatment zone monitoring will include quarterly inspection and analysis of stored liquids collected from the french drains with in each caliche pit.

Mr. Eddie Seay June 23, 1997 Page -2-

- 6. The stored liquid from the french drain collection system may be applied to the C&C Landfarm cells.
- 7. Operation of the caliche pit cells will follow all Landfarm Operating Conditions set forth under the C&C Commercial Landfarm Permit (NM-711-1-0012) Expansion dated October 8, 1996.

Please be advised that the OCD approval does not relieve C&C of liability should their operation result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve C&C of the responsibility for compliance with other federal, state and/or local regulations.

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

Sincerely,

Mortyne of Kieley Martyne J. Kieling

Environmental Geologist

xc: OCD Hobbs Office

MEMORANDUM OF CONVERSATION

TELEPHONE	PERSONAL	TIME 2:29 gm DATE 6/17/97
ORIGINATING PARTY_		
OTHER PARTIES	Eddie Seay	
DISCUSSION	echa Pit to b	re used as Another Land Fill
		as Gives to Eddie to begin
	V V	Drain in the Down Slope
-		Price will be notified
	•	ct the Prain when it is
completed		
CONCLUSIONS	Follow up with	Letter to Eddie
MARTYNE KIELING C: FILE DISTRICT OFFICE	U J	

MEMORANDUM OF CONVERSATION _ TELEPHONE ____ PERSONAL TIME 10: 15 DATE 6/13/97 ORIGINATING PARTY Eddie Seay OTHER PARTIES _______ DISCUSSION In Regards to letter Eddie Wrok in Nov 1996 Concerning Land Farming in the Calechic Pit Bothoms. He (Eddie) has Talked to Roger + ways about How He would Do Monitoring For Migration. The Pits only bace 1 Et of Soit and then Redbods Dipping to the West Northwest. Eddie Has Proposed a French Drain System at the host edge of the pit Bottom. to collect & Remove Moishing From The Proposed Land Form Cells in the Pit Bottom. Eddie Waiting For Response. CONCLUSIONS I will check the COC File For the NOU letter and get a Rosponce out to Eddy this Next week (by Plane & written). I will Also Clack with Roger A. of Wagne P.

MARTYNE KIELING Martyne Mile

C: FILE

DISTRICT OFFICE



May 1, 1997

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-263

Mr. Jim Cooper C & C Landfarm, Inc. P.O. Box 55 Monument, New Mexico 88265

Re:

C&C Landfarm NM-01-0012 Exempt E&P drill cuttings

Dear Mr. Cooper,

The New Mexico Oil Conservation Division (NMOCD) Environmental Bureau has received the inquiry you presented to NMOCD District I concerning C&C Landfarm, Inc. accepting RCRA exempt E&P drill cuttings.

The following procedure shall be used to accept drill cuttings into your permitted Landfarm.

- 1. All solids must be liquid free as per your permit conditions.
- 2. Pursuant to 19 NMAC 15.C.105, removal of drill cuttings from E&P sites must be approved by the appropriate District. The generator must submit a form C-103 to the District Supervisor.
 - The C&C landfarm operator must have a copy of the approved C-103 from the generator before acceptance is allowed. C&C shall maintain all records pursuant to its permit conditions.
- 3. C&C must ensure that any material accepted into the landfarm, such as drill cuttings, shall be compatible with other materials being land farmed and not interfere with the bioremediation process. If such interferences occur, C&C will be required to isolate these solids and properly dispose of then in an approved NMOCD manner or at an approved NMOCD site.

Mr. Jim Cooper May 1, 1997 Page 2—

If you require any further assistance concerning this matter please do not hesitate to call me at (505) 827-7152.

Sincerely yours,

Roger C. Anderson

Environmental Bureau Chief

RCA/lwp:

xc: Jerry Sexton-NMOCD District I Supervisor

Wayne Price-NMOCD Environmental Engineer.

JE CONSERT. FUN DIVISION RECEIVED

196 APR 12 AM 8 52

April 4, 1996

Chris Eustice NM Oil Conservation Division 2040 S. Pacheco Santa Fe. NM 87505

RE: C & C Landfarm Inc. Expansion Request

Dear Mr. Eustice:

Pursuant to your request by letter dated May 24, 1995, C & C has completed the task concerning the expansion of C & C's facility to add an additional 40 acre site adjacent to its existing landfarm. Included is a complete survey with red bed contour map and additional monitor wells as instructed. The only change, which was made and discussed with you earlier, was the movement of monitor wells 6 & 7 on the expansion so they would be inside our fenced area. Contained within is material as requested. I hope this will help with the approval process.

Your consideration in this matter will be greatly appreciated. If additional information is needed, please call.

Sincerely,

Eddin W

Eddie W. Seay, Agent

601 W. Illinois Hobbs, NM 88240

(505)392-2236

C & C LANDFARM

INSTALL NEW MONITOR WELLS AT PROPOSED EXPANSION SITE

Eddie W. Seay, Agent for C & C Landfarm, Inc, and Wayne Price, Agent for Hobbs OCD, met to drill and complete monitor wells as instructed.

Drilling 6 1/2" hole installed 3" Sch40 pvc well with 5 ' of perforations using 1/16" holes 11 to 13 per ft. and screen with 20/40 frac sand above perfs and cap with Bentonite. Will cement later & install locking boxes.

Auger Air was driller - 8:00am start.

Monitor Well #8

Top soil 0'-4'
caliche 4'-12'
caliche & sand 12'-14'
caliche & red sand 14'-19'
red bed 19'
TD 20'6"

Dry all the way down
Top of sand pack between casing & hole at 12'6"
1 sack bentonite, approx. 6' of fill
cement & locking boxes installed later.

Monitor Well #7

Top soil 0'-5'
caliche 5'-16'
caliche & sand 16'-18'
caliche 18'-21'
caliche & sand & gravel 21'-22'
sand & gravel 22'-23'
caliche 23'-26'
red sand & clay 26'-27'6"
red bed 27'6"-28'6"

TD 28'6"

Dry all the way down

Top of sand between casing & hole 21'
1 sack bentonite, approx. 6' of fill
cement & locking boxes installed later.

Monitor Well #6
Top soil 0'-5'6"
caliche 5'6"-10'
sand & gravel & caliche 10'-12'
caliche 12'-17'
fine sand 17'-19'

caliche & sand & gravel 19'-25'
sand & clay 25'-26'
red bed 26'
TD 27'
Dry all the way down
Top of sand between casing & hole 19'
1 sack bentonite, approx 6' of fill
cement & locking boxes installed later.

Red Bed very hard drilling.

CONCLUSIONS

From the drilling of the new monitor wells and monitoring the existing monitor wells, no water was encountered and continues to stay dry. This appears to be an environmentally safe site for the landfarm.

EDDIE SEAY CONSULTING

601 W. ILLINOIS HOBBS, NEW MEXICO 88240 (505) 392-2236 FAX (505) 392-6949

ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS





November 26, 1996



Mr. Roger Anderson NMOCD Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

RE: C & C Landfarm, Inc.

Dear Mr. Anderson:

As per our conversation, I am writing to request permission to utilize the caliche plu areas, which cover approximately ten acres, for additional space for landfarming. The pits are contained within our permitted area and surrounded by monitor wells. The pits have been excavated down to within approximately one foot of the top of the redbeds. The use of these pits will enhance our capacity and will make our operation more efficient.

Your consideration in this matter will be greatly appreciated.

Sincerely,

Eddie W. Seay, Agent

Selive Sea

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT IVISION

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE S 35 1/25 EFF 8 52

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980

(505) 393-6161

September 24, 1996

Mr. Jim Cooper C & C Landfarm P.O. Box 55 Monument, NM 88265

Ref: Landfarm Extension Permit

Dear Mr. Cooper,

After your visit to the NMOCD office today and my resultant telephone conversation with Roger Anderson, NMOCD Environmental Bureau Chief, your request for verbal permission to start using the new portion of the C & C landfarm has been granted by Mr. Anderson.

Please note, the operation of the new portion of your facility will be contingent upon approval conditions that will be sent to you in the near future. You also are instructed to abide by all existing conditions imposed on your present facility for your new expanded facility.

Per our conversation please notify the NMOCD District I office to witness any of the new construction and/or modifications and the acceptance of the first load of material.

If you require any further assistance concerning this matter please do not hesitate to call (505-393-6161) or write.

Sincerely yours,

Wayne Price-Environmental Engineer

cc: Jerry Sexton-NMOCD District I Supervisor
Gary Wink-NMOCD District I Field Rep. II
Roger Anderson-NM NMOCD Environmental Bureau Chief, Santa Fe

EDDIE SEAY

CONSULTING MELLINED CONSULTING SERVICES

601 W. ILLINOIS HOBBS, NEW MEXICO 88240 (505) 392-2236 FAX (505) 392-6949

ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS



June 21, 1996

NMOCD 2040 S. Pacheco Santa Fe, NM 87505

ATTENTION: Chris Eustice

SUBJECT: C & C Landfarm. Inc.

Dear Sir:

I am writing this letter to request a change in our TPH limit at our landfarm. We have found it very difficult to remediate soils down to 100 ppm and expensive to compete with pit disposals and onsite remediation areas. I de understand we are a commercial site, as are the open pit disposals, but we are required to test, monitor and disk on a regular schedule, unlike pit disposals.

C & C has had to prove there is not any groundwater by drilling and completing 8 monitor wells to redbed, and have excavated down to redbed in two areas. We have monitored and tested as required and sent results to your office quarterly for the past 2 years.

C & C would like to operate somewhat like the ranking criteria set up in the OCD guidelines and want to remediate to the greatest extent practicable. I know the requirements for different operations are site specific, so please look at our site as it relates to your criteria.

Also, I have tested soils in various areas of Lea County and West Texas, some within oil operations and some out of production areas, with the background running from 50 to 150 ppm TPH.

Find within Texas Railroad Commission adoption of Rule 91, cleanup of spills. Their commercial landfarms operate on the same criteria. I am not asking for the same as Texas does, but maybe a compromise in New Mexico ranking criteria for cleanup.

Your help and consideration in this matter will be greatly appreciated. We will continue to operate according to the rules and our permit until I hear from you.

Sincerely,

Eddie W. Seay, Agent

enclosures 3

NMOCD INTER-OFFICE CORRESPONDENCE

TO:

File of C & C Landfarm

From:

Wayne Price-Environmental Engineer Wayne

Date:

March 22, 1996

Reference:

Field Report

Subject:

Witness MW Installation.

C&C Rep. Eddie Seay Auger Air-Driller

Comments:

Arrived on site approx. 10:30 am, MW # 8 already drilled. Rig was completing MW # 7, took picture. Witness drilling MW #6 & took pictures.

Rotary air rig using 6 1/2 " bit.

0-5 ' top soil

5-10' calichie

10-11' sand & gravel calcareous white powder

calichie powder with nodules 12-16'

fine white calcareous sand 17-19'

19-25' sand, calichie, clay(10%)

Red bed Clay-Hard chips- took sample- Hydrated with water 25-27 became very plastic clay.

Witness putting in 3" sch 40 PVC cemented pipe. Took picture of perforated pipe. This was done by hand by drilling approx. 1/16" holes in pipe. Holes averaged 10-13 per foot of pipe. Total of 5 feet.

Jerry Sexton-NMOCD District I Supervisor

attachments-4 pictures

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

JAMES E. (JIM) NUGENT, Chairman MARY SCOTT NABERS, Commissioner BARRY WILLIAMSON, Commissioner



DAVID M. GARLICE Director LORI WROTENBERY Director or Environmental Services (512) 463-679(Faz (512) 463-6781

1701 N. CONGRESS

P. O. BOX 12967

AUSTIN, TEXAS 78711-296:

September 27, 1993

NOTICE OF RULE ADOPTION

Attached is a copy of Statewide Rule 91 (16 TAC \$3.91, Cleanup Standards for Spills of Crude Oil into Soil) adopted by the Railroad Commission of Texas on September 27, 1993. The Commission has established numerical standards and procedures for the cleanup of crude oil spills into non-sensitive areas. The rule becomes effective November 1, 1993.

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nvironmental ervices Section

INTRODUCTION

The Railroad Commission of Texas (commission) adopts new \$3.91 (Rule 91) relating to the cleanup of spills of crude oil from oil and gas exploration and production activities, including transportation by pipeline, with changes to the proposed text published in the March 30, 1993 issue of the Texas Register (18 Tex Reg 1985). The section establishes the standards and procedures for the cleanup of crude oil spills into soil. The section is adopted to prevent the pollution of surface and subsurface waters of the state.

With this section, the commission intends to provide a standard to be applied to crude oil spills into non-sensitive areas. The commission intends to set the standards for cleanup, but to allow flexibility in the choice of method used to achieve the final cleanup level. For those spills that occur after the effective date of this section, the section replaces the Interim Guidelines for Cleanup of Soil Contaminated with Crude Oil from a spill Incident.

Most commenters accepted the basic premise of different cleanup standards for environmentally sensitive and non-sensitive areas, although some criticized the scope of the proposed rule either as over-inclusive or under-inclusive. One commenter disagreed with a regulatory division between sensitive and non-sensitive areas on the basis that designating sensitive areas and applying different cleanup standards for these areas is arbitrary and subject to interpretation.

(40) 4373 The commission considered the wide range of environmental situations into which crude oil is spilled and the difficulty in designing cleanup standards appropriate for each situation. The commission believes that the best approach is to develop a standard for those areas with common characteristics; however, because of the complex and sometimes fragile nature of environmentally sensitive areas, the commission believes the appropriate cleanup level for these areas should be based on site-specific criteria.

These proposed standards and procedures do not apply to spills into sensitive areas, which present unique circumstances and are often fragile. Sensitive areas are those areas with factors that cause them to be more vulnerable to pollution and, therefore, may require more stringent cleanup standards or procedures. Factors that might characterize an area as sensitive include proximity to surface water; proximity to wildlife refuges or residential areas; or the existence of shallow ground water or possible pathways for communication with deeper ground water. Spills of crude oil into sensitive areas will be handled on a case-by-case basis and not by rule.

Some commenters suggested clarifications of or additions to the list of factors. The commission believes that the list of factors permits a common sense determination of those areas that might be considered environmentally sensitive. The commission also believes it would be arbitrary to try to define these factors for the entire State of Texas. The commission will

Page 3 of 17

provide guidance for determining whether a given area is environmentally sensitive.

A number of commenters ask for guidelines in the rule for managing spills in environmentally sensitive areas because these areas should receive greater consideration. One commenter states that these guidelines should address notification, emergency response, monitoring, reporting, coordination with commission staff, and risk assessment protocols. The commission believes that providing guidance for cleaning up crude oil spills in environmentally sensitive areas is more appropriately addressed through separate guidelines than through a rulemaking initiative.

Some commenters insisted that the responsible party seek a determination from commission staff as to whether the area of contamination is in an environmentally sensitive area prior to cleanup. Response activities must be initiated by the operator immediately upon discovery of any crude oil spill. The commission will make the initial determination with the responsible operator as to whether the spill is in an environmentally sensitive area. The final determination in the event of any question will be made by the commission.

A couple of commenters suggested that hydrocarbon condensate be included in the definition of crude oil. Hydrocarbon condensates or the liquids produced in association with natural gas exhibit a greater mobility in the subsurface than crude oil because of their lighter density and higher solubility. Hydrocarbon condensate also typically contains a greater

Page 4 of 17

proportion of benzene than crude oil. For these reasons, hydrocarbon condensate poses a greater hazard to surface and subsurface water than does crude oil. Therefore, the section was revised to clarify that this section does not apply to hydrocarbon condensate spills, which will be handled on a case-by-case basis.

Several commenters expressed concern about past spills of crude oil. A couple of commenters were concerned that new spills or spills that occur after the effective date of the section onto past spill areas would require cleanup of a larger area of contamination than was anticipated by the section. One commenter suggested that where the contamination is due in part to past spills and in part to new spills, the cleanup standard will be determined according to which type of spill caused the majority of the contamination. Another commenter suggested that cleanup of these sites should be handled on a case-by-case basis. The commission has revised the section to clarify that it will not be applied retroactively and that, for those spill areas that are a mixture of past spills and new spills, the cleanup standards will be determined by the commission on a case-by-case basis. Operators are expected to contact the district office for direction in cleaning up these spill areas.

One commenter claimed that past spills frequently form "hard-pan" or a compacted oily soil cover that acts as a seal to prevent further contamination. In the experience of the

Page 5 of 17

commission, the "hard-pan" soil does not create an even seal and, therefore, is an imperfect protective cover. Furthermore, significant contamination of soil and water have been discovered beneath such "hard-pan" areas.

Several commenters asked that de minimis spills and spills within fire walls or bermed areas around tanks be exempted, while another commenter recommended that cleanup of de minimis spills be deferred until after site abandonment. To exempt these spills or to delay their cleanup until after abandonment of the site defeats the reason for the section. Continual small drips and leaks can add up to a large volume of contaminated soil, which may pose a threat to surface and subsurface water.

One commenter asserts that a case-by-case determination of cleanup standards fails to provide the regulated community with clarity or certainty about government's expectations for cleanup and does not provide a uniform standard of cleanup. The commission believes that numerical criteria are appropriate for those types of spills that may require less monitoring by regulators than spills into environmentally sensitive areas. Response and remediation of spills in sensitive areas need to be individually tailored to each unique spill site to ensure that cleanup is adequate to protect human health and the environment. Remediation actions on these spills are expected to be more closely monitored by the commission. Cleanup levels tailored to the specific site are actually more protective of the environment

Page 6 of 17

because factors unique to the site can be considered.

Several comments emphasize the need for immediate action in responding to a crude oil spill to avoid extensive contamination of soil or water while another asks for daily monitoring of a spill location for the presence of free oil. With regard to the requirement to begin cleanup by removing free oil, other commenters suggest changing "immediate" to "as soon as practicable," "as soon as possible," or "as soon as feasible." One commenter claims that a reasonable time frame of one week after discovery to remove free oil is sufficiently "immediate."

The commission is aware of the remote location of many oil and gas facilities and of industry practice regarding the frequency of visits to those locations. "Immediate" is intended to mean that action will be initiated at the time of discovery without delay. The commenter's suggestion that a reasonable time to commence removal of free oil is one week after discovery is not reasonable to the commission. Any free oil may well have soaked into the ground in a week's time.

Several commenters suggested using a visual or olfactory standard for determination of the extent of contamination. Any method of delineation may be used, whether visual, olfactory, or analytical testing, provided that sufficient training and corroborative testing has been performed to assure the alternative method will yield a result that is consistent with laboratory testing.

A number of commenters asked that in-situ bioremediation (bioremediation in place without excavation) be permitted. One commenter believes the section creates the impression that other technologies like low temperature thermal stripping are not allowed.

The commission intends to set the standards for cleanup, but to allow flexibility in the choice of method used to achieve the final cleanup level. A number of methods exist to achieve the final cleanup level including natural or enhanced bioremediation; thermal treatment, incineration or other heat-driven process; and solvent extraction. Although the section contains specific requirements for bioremediation, it allows for the use of any remediation method as long as all of the other requirements of the section can be met.

The commission has added a new subsection (f) to the section to clarify that alternative standards and procedures may be approved if they are equally protective of the environment.

hydrocarbon cleanup level as overly stringent while others questioned the cleanup level as too lenient. Other commenters supported the 1.0% cleanup level. Still other commenters stated that the commission's cleanup standards for cleanup of crude oil spills should be the same standards as those used by other federal and state agencies.

While other state or federal agencies have developed cleanup

Page 8 of 17

standards for soil contaminated by refined petroleum products, there are no cleanup standards specifically developed for the cleanup of soil contaminated by crude oil spills. The commission considered data on the physical and chemical properties of crude oil and refined petroleum products, studies evaluating action levels for crude oil contaminated soil, Interstate Oil and Gas Compact Commission guidelines for landfarming, American Petroleum Institute guidelines for management of oil and gas wasts, and the commission's own experience with spills of crude oil in the development of this section. Based on this information, the commission believes that the 1.0t cleanup level for soil contaminated by crude oil spills is protective of the environment in non-sensitive areas.

Two commenters complained that mixing soil contaminated with crude oil with other soil is dilution and, therefore, an inappropriate procedure for bioremediation. The commission believes that the addition of native soils is a cost effective mechanism to arrive at an appropriate loading rate to begin the bioremediation process.

Several comments expressed concern about sampling protocols and testing for contamination. The commission believes that mandating a specific analytical method or sampling protocol to apply across a wide variety of spill scenarios reduces flexibility and can provide an incorrect determination if an inappropriate method is selected. The commission believes that

sampling protocols should be tailored to the particular site, and the commission acknowledges that there are a variety of standards. Guidance regarding preferred sampling protocols and testing procedures will be provided through agency guidelines.

Some commenters were concerned that the one-year time limit for completion of bioremediation would be too short while other commenters insisted that six months was an appropriate time limit for bioremediation. The commission believes that achieving a 1.0% total petroleum hydrocarbon cleanup is ordinarily possible within three to six months; therefore, the one-year limit includes an additional margin for unforseen problems. Operators who choose bioremediation are expected to take all steps necessary to ensure that bioremediation is completed as soon as technically feasible. In extraordinary circumstances where more than one year might be necessary for completion of the bioremediation process, an operator may submit a written request for extension to the district office. Under the provisions of the new subsection (f), the request for extension must include a complete explanation of why an extension is necessary, and the steps that will be taken to ensure that the bioremediation process is completed as quickly as technically feasible.

One commenter suggested the requirement for reporting crude oil spills to "water" be changed to "waters of the U.S." The commission intends for all crude oil spills to water, whether surface or subsurface, be immediately reported to the commission.

One commenter asked for clarification of the reporting requirement while a couple of commenters asked that spills less than five barrels of oil be reported to the commission. The commission expects operators to report all spills of crude oil exceeding five barrels of oil, which means total volume spilled and not net volume spilled. The commission believes that the increased administrative burden that reporting crude oil spills less than five barrels would entail is not warranted. The requirement for immediate reporting of all crude oil spills into water addresses the issue of pollution to water.

Several commenters requested that commission form H-8 relating to the reporting of spills be modified to incorporate the reporting requirements of subsection (e)(1). The commission will amend its form H-8 to reflect the reporting requirements of this section.

A couple of commenters thought that the reporting requirements of subsection (e) of this section would delay submission of the Form H-8 because operators could not wait to certify that all soil had been brought to the surface for remediation and properly mixed to the appropriate loading rate and still meet the commission's deadlines, for spill reporting under 16 TAC \$20. The commission notes that the instructions printed on Form H-8 state that immediate notification is to be given first by telephone or telegraph followed by the filing of the Form H-8 "when appropriate measures have been taken." The

Page 11 of 17

certification requirements are not contingent upon completion of bioremediation. Excavation and mixing should take place as quickly as possible and should not unduly delay the filing of form H-8.

Some comments indicated that additional reporting requirements for spills over 10 barrels are unnecessarily burdensome. The commission agrees with the commenters and will change the requirement for a final report for crude oil spills over 10 barrels to crude oil spills over 25 barrels.

other commenters thought that the section should include requirements for spill prevention and response plans, pipeline construction, produced water or salt water spills, and penalty provisions. The commission notes that the statutory penalty provisions that apply to the commission's other sections will apply to this section as well. This section is intended to address spills of crude oil into non-sensitive areas and not any of the other issues raised by these comments, which are more appropriately addressed either by other state and federal agencies' requirements for spill prevention and response plans or other regulations of the commission. Spills of produced water or salt water are more appropriately addressed in a separate rulemaking.

The commission intends this section to be interpreted and implemented in a manner consistent with other commission rules.

Other federal or state laws may also apply to spills of crude oil

and should be consulted for additional guidance.

Commenters for the section are: West Central Texas Oil & Gas Association, Holliday Environmental Services, Inc., Permian Basin Petroleum Association while the following commenters are in favor of the section with modifications: Texas Mid-Continent Oil & Gas Association, North Texas Oil and Gas Association, Amoco Production Company, Texas Independent Producers and Royalty Owners Association.

The new section is adopted under Texas Natural Resources Code, \$91.101, which provides the commission with the authority to prevent pollution of surface or subsurface water in the state from the exploration, development, or production, including transportation, of oil, gas, or geothermal resources, and under Texas Natural Resources Code, \$85.042, which authorizes the commission to make and enforce rules pertaining to field operations that pose a danger to life or property.

\$3.91 (Rule 91) Cleanup of Soil Contaminated by a Crude Oil Spill.

- (a) Terms. The following words and terms, when used in this section, shall have the following meanings, unless the context clearly indicates otherwise.
- (1) Free oil—the crude oil that has not been absorbed by the soil and is accessible for removal.
- (2) Sensitive areas—these areas are defined by the presence of factors, whether one or more, that make an area

Page 13 of 17

vulnerable to pollution from crude oil spills. Factors that are characteristic of sensitive areas include the presence of shallow ground water or pathways for communication with deeper ground water; proximity to surface water, including lakes, rivers, streams, dry or flowing creeks, irrigation canals, stock tanks, and wetlands; proximity to natural wildlife refuges or parks; or proximity to commercial or residential areas.

- (3) Hydrocarbon condensate—the light, hydrocarbon liquids produced in association with natural gas.
- (b) Scope. These cleanup standards and procedures apply to the cleanup of soil in non-sensitive areas contaminated by crude oil spills from activities associated with the exploration, development, and production, including transportation, of oil or gas or geothermal resources as defined in \$3.8(a)(30) of this title (relating to Water Protection). For the purposes of this section, crude oil does not include hydrocarbon condensate. These standards and procedures do not apply to hydrocarbon condensate spills, crude oil spills in sensitive areas, or crude oil spills that occurred prior to the effective date of this section. Cleanup requirements for hydrocarbon condensate spills and crude oil spills in sensitive areas will be determined on a case-bycase basis. Cleanup requirements for crude oil contamination that occurred wholly or partially prior to the effective date of this section will also be determined on a case-by-case basis. Where cleanup requirements are to be determined on a case-by-case

basis, the operator must consult with the appropriate district office on proper cleanup standards and methods, reporting requirements, or other special procedures.

- (c) Requirements for cleanup.
- (1) Removal of free oil. To minimize the depth of oil penetration, all free oil must be removed immediately for reclamation or disposal.
- (2) Delineation. Once all free oil has been removed, the area of contamination must be immediately delineated, both vertically and horizontally. For purposes of this paragraph, the area of contamination means the affected area with more than 1.0% by weight total petroleum hydrocarbons.
- (3) Excavation. At a minimum, all soil containing over 1.0% by weight total petroleum hydrocarbons must be brought to the surface for disposal or remediation.
- (4) Prevention of stormwater contamination. To prevent stormwater contamination, soil excavated from the spill site containing over 5.0% by weight total petroleum hydrocarbons must immediately be:
- (A) mixed in place to 5.0% by weight or less total petroleum hydrocarbons; or
 - (B) removed to an approved disposal site; or
- (C) removed to a secure interim storage location for future remediation or disposal.

The secure interim storage location may be on site or off site.

The storage location must be designed to prevent pollution from contaminated stormwater runoff. Placing oily soil on plastic and covering it with plastic is one acceptable means to prevent stormwater contamination; however, other methods may be used if adequate to prevent pollution from stormwater runoff.

(d) Remediation of soil.

- (1) Final cleanup level. A final cleanup level of 1.0% by weight total petroleum hydrocarbons must be achieved as soon as technically feasible, but not later than one year after the spill incident. The operator may select any technically sound method that achieves the final result.
- (2) Requirements for bioremediation. If on-site bioremediation or enhanced bioremediation is chosen as the remediation method, the soil to be bioremediated must be mixed with ambient or other soil to achieve a uniform mixture that is no more than 18 inches in depth and that contains no more than 5.0% by weight total petroleum hydrocarbons.

(e) Reporting requirements.

(1) Crude oil spills over five barrels. For each spill exceeding five barrels of crude oil, the responsible operator must comply with the notification and reporting requirements of \$3.20 of this title (relating to Notification of Fire Breaks, Leaks, or Blow Outs) and submit a report on a Form H-8 to the appropriate district office. The following Information must be included:

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- (A) Area (square feet), maximum depth (feet), and volume (cubic yards) of soil contaminated with greater than 1.0% by weight total petroleum hydrocarbons.
- (B) A signed statement that all soil containing over 1.0% by weight total petroleum hydrocarbons was brought to the surface for remediation or disposal.
- (C) A signed statement that all soil containing over 5.0% by weight total petroleum hydrocarbons has been mixed in place to 5.0% by weight or less total petroleum hydrocarbons or has been removed to an approved disposal site or to a secure interim storage location.
- (D) A detailed description of the disposal or remediation method used or planned to be used for cleanup of the site.
 - (E) The estimated date of completion of site cleanup.
- (2) Crude oil spills over 25 barrels. For each spill exceeding 25 barrels of crude oil, in addition to the report required in subsection (e)(1) of this section, the operator must submit to the appropriate district office a final report upon completion of the cleanup of the site. Analyses of samples representative of the spill site must be submitted to verify that the final cleanup concentration has been achieved.
- (3) Crude oil spills of five barrels or less. Spills into the soil of five barrels or less of crude oil must be remediated to these standards, but are not required to be reported to the

Page 17 of 17

commission. All spills of crude oil into water must be reported to the commission.

Alternatives. Alternatives to the standards and procedures of this section may be approved by the commission for good cause, such as new technology, if the operator has demonstrated to the commission's satisfaction that the alternatives provide equal or greater protection of the environment. A proposed alternative must be submitted in writing and approved by the commission.

This agency hereby certifies that the section as adopted has been reviewed by legal counsel and found to be a valid exercise of the agency's legal authority.

Issued in Austin, Texas on

ATTEST:

(Jim) Nagent, Chairman James E. Railroad Commission of Texas

Many Softt Nabers, Commission Railroad Commission of Texas Nabers, Commissioner

Mary/Ross McDonald

amson, Commissioner Railroad/Ommission of Texas

Assistant Director

Legal Division - Gas Utilities/LP Gas

Railroad Commission of Texas

For further information, call Jane Hoffman at (512) 463-6857.

JAMES E. (JIM) NUGENT, Chairman MARY SCOTT NABERS, Commissioner BARRY WILLIAMSON, Commissioner



DAVID M. GARLICK
Director
LORI WROTENBERY
Director of
Environmental Services
(512) 463-6790
Fax (512) 463-6780

1701 N. CONGRESS

P. O. BOX 12967

AUSTIN, TEXAS 78711-2967

Permitted for the

PERMIT TO RECEIVE, STORE, HANDLE, TREAT AND DISPOSE OF CERTAIN NONHAZARDOUS OIL AND GAS WASTES

Landtreatment Permit No. LT-0136 Amends Permit Issued August 16, 1993

RCM Oil, Inc. 24 Smith Road, Suite 185 Midland, TX 79705

Based on information contained in your application dated March 29, 1993 and subsequent information submitted you are hereby authorized to receive, store, handle, treat, and dispose of certain non-hazardous oil and gas wastes as specified below at the following facility:

Ricky Smith Ranch 100-Acres Section 14, Block B-5, P.S.L. Survey Winkler County, Texas RRC District 08

This authority is granted in accordance with Statewide Rule 8 and subject to the following minimum conditions:

I. GENERAL PERMIT CONDITIONS:

- A. The effective date of this permit is September 16, 1993.
- B. The authority granted by this permit expires on July 30, 1995.
- C. This permit may be considered for administrative renewal upon review by the Commission.
- D. This permit is not transferable without the consent of the Commission. Any request for transfer of this permit must be filed with the Director of Environmental Services at least 60 days before the permittee wishes the transfer to take place.

- E. This permit does not authorize the discharge of any oil or gas waste from the facility.
- F. The permittee shall make all records available for review and/or copying during normal business hours upon request of Commission personnel.
- G. Failure to comply with any provision of this permit shall be cause for modification, suspension or termination of this permit. This permit may be canceled if the Director of Environmental Services determines that the facility is in violation of the conditions of this permit or if operation of the facility is causing or allowing pollution of surface or subsurface water.

II. INCOMING WASTES:

A. AUTHORIZED WASTES:

Only nonhazardous, crude oil contaminated soil from spills subject to the jurisdiction of the Railroad Commission of Texas may be received, stored, handled, treated or disposed of at the facility.

No waste may be received or disposed of at the facility if it is not a waste under the jurisdiction of the Railroad Commission of Texas. No hazardous waste as defined by the U.S. Environmental Protection Agency in 40 CFR Part 261 or industrial waste may be received or disposed of at the facility.

No wastes may be disposed of at the facility if that material is reclaimable.

B. TESTING REQUIREMENTS AND CRITERIA FOR INCOMING WASTES:

- 1. Prior to receipt at the facility, representative samples shall be obtained for each spill site. One composite sample for every 50 cubic yards of contaminated soil must be obtained. The composite sample shall be comprised of at least four (4) separate grab samples from within the 50 cubic yards with the purpose of obtaining a composite sample representative of the 50 cubic yards.
- 2. All composite samples from each spill site shall be analyzed for electrical conductivity (EC) and total petroleum hydrocarbons (TPH).
- 3. In addition to the analysis required in II.B.2 above, crude oil contaminated soils resulting from spills from transmission lines, transport vehicles, or other crude oil contaminated soil that is not exempt from federal hazardous waste regulation under 40 CFR 261 shall be analyzed for TCLP metals and TCLP benzene.

4. The crude oil contaminated soil to be accepted at the facility may not exceed the following limits for the parameters, depending on the parameters required for analysis in II.B.2 and II.B.3 above:

PARAMETER

LIMIT

Electrical Conductivity (EC) 4 mmhos/cm

TPH

10 wt. % (100,000 ppm)

TCLP Metals:

Barium	<	100.00 mg/l
Chromium	<	5.00 mg/l
Lead	<	5.00 mg/l
Silver	<	5.00 mg/l
Arsenic	<	5.00 mg/l
Cadmium	<	1.00 mg/l
Mercury	<	0.2 mg/l
Selenium	<	1.00 mg/l

TCLP Organics:

Benzene < 0.5 mg/l

- 5. The permittee shall maintain the following records on each load of waste received at the facility for a period of three (3) years from the date of receipt:
 - a. description of the site where the waste was generated, including:
 - i. generator name;
 - ii. lease name and number or gas ID;
 - iii. county.
 - b. carrier name;
 - c. amount of waste material received (specify units);
 - d. type of waste and description of waste material, including any analyses required by subsection II.B. above; and
 - e. the cell in which waste load was placed.

6. A quarterly summary of waste receipts shall be submitted to the Director of Environmental Services in Austin. This summary shall include the volume of each type of waste material received on a monthly basis. This report shall be due 25 days after the end of each quarter.

III. GENERAL FACILITY DESIGN:

- A. The general layout and arrangement of the facility shall be consistent with the guidelines submitted.
- B. SECURITY: Prior to beginning operations the facility shall have security to prevent unauthorized access. Access shall be secured by a locked gate when the facility is unattended. Only employees of the permittee may have a key to the lock.

IV. LANDTREATMENT AREA:

A. CONSTRUCTION OF LANDTREATMENT AREA:

- 1. The landtreatment area shall be constructed in a rotating plot configuration consisting of eleven (11) cells of five (5) acres each, for a total of 55 acres. These cells shall be arranged and numbered as indicated on the "Facility Site Plan," Permit Appendix A.
- 2. The landtreatment cells shall be separated using levees to partition waste in the individual cells. These levees shall be keyed into the underlying soil, and constructed and maintained to a minimum height of two (2) feet and width at base of at least six (6) feet.
- 3. The landtreatment areas shall be designed with a slope of 0.2 percent to direct runoff from the landtreatment areas to facilitate removal of rainwater.
- 4. A perimeter levee shall be constructed to surround the entire landtreatment area. This levee shall be keyed into the underlying soil and shall be constructed to a minimum height of three (3) feet and a minimum width at base of nine (9) feet.
- 5. Run-on shall be controlled and diverted around the landtreatment plots.
- 6. Off-load ramps shall be constructed for the landtreatment areas.

B. LANDTREATMENT AREA OPERATION

- 1. A freeboard of at least one (1) foot must be maintained between the level of the waste in the landtreatment cells and the top of the cell levees.
- 2. The TPH content in the treatment cell after discing shall not exceed five (5) weight percent in the treatment zone.
- 3. The contaminated soil shall be applied evenly over the treatment cell to a maximum thickness of 12 inches per application and shall be thoroughly tilled into the soil immediately after application. The thickness of the waste application allowable depends on the TPH content of the waste.
- 4. The treatment zone shall be tilled weekly until the total petroleum hydrocarbon (TPH) content is reduced to one (1) weight percent or less. Quarterly tilling shall be performed thereafter until a TPH concentration of 0.1 weight percent or less has been achieved.
- 5. Fertilizer may be added as required to maintain optimum C:N:P ratio. Any other soil amendments or treatment chemicals must be approved by the Director of Environmental Services prior to use on the landtreament area.
- 6. Any spills of waste or any other materials shall be promptly cleaned up or disposed of in an authorized manner.

C. LANDTREATMENT AREA MONITORING

1. For the purposes of monitoring and sampling the soils, the following definitions will be employed:

SOIL CORE SAMPLING DEPTHS -- TREATMENT ZONES

Treatment Zone

Zone Depth

Surface Treatment Zone (STZ)	0 - 2"
Upper Waste Treatment Zone (UWTZ)	> 2" - 6"
Lower Waste Treatment Zone (LWTZ)	> 6" - 12"
Compliance Monitoring Zone (CMZ)	> 12" to 24"

- 2. Six (6) randomly selected core samples from each treatment cell shall be collected using standard approved sampling and collection procedures. A minimum of one (1) grab sample shall be obtained from each of the four treatment zones in each core. The samples from each treatment zone shall be composited to obtain one composite sample for each of the four treatment zones.
- 3. The composite samples for each of the four treatment zones shall be analyzed as follows:

Sampling Frequency	Zone	Parameters to be analyzed
Once for baseline prior to waste application	STZ CMZ	pH, EC, SAR, CEC, TPH, prior to waste soluble anions and cations, and total metals (mg/kg): Ag, As, Ba, Cd, Cr, Pb, Hg, Se, Zn
Quarterly	STZ LWTZ	трн, ес
Semi-annually thereafter	STZ UWTZ LWTZ CZM	pH, EC, SAR, CEC, TPH, soluble anions and cations, and Total metals (mg/kg): Ag, As, Ba, Cd, Cr, Pb, Hg, Se, and Zn

- 4. The Midland District Office shall be notified at least 48 hours prior to any sampling event.
- 5. An annual data interpretation and summary shall be submitted to the Director of Environmental Services and the Midland District Office.

V. FACILITY CLOSURE:

A. CLOSURE OF LAND TREATMENT AREA

1. Prior to commencing closure of any landtreatment cell, composite samples as described in Condition #IV.C.2. of this permit shall be obtained from each treatment zone. These composite samples shall be analyzed and the following constituent levels shall not be exceeded:

PARAMETER	PRE-CLOSURE LIMIT	
pH (Standard Units)	6 to 10	
Electrical Conductivity (EC) (mmhos/cm)	4	
Sodium Absorption Ratio (SAR)	< 12	
TPH (weight %)	< 0.1	
Metals (mg/kg): Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	10 2000 10 500 500 10 10 200	
Silver BTEX (mg/kg)	30	

- 2. When acceptable soil constituent levels have been verified, the levees of the landtreatment cells shall be leveled and the treated soils spread over the surrounding area. The topsoil shall then be contoured and seeded with appropriate vegetation.
- B. The contents of all vessels, tanks, sumps, or other containers shall be disposed of in an authorized manner.
- C. Provisions shall be taken to prevent erosion both during and following closure.

> D. The Director of Environmental Services and the Midland District Office must be notified in writing 45 days prior to commencement of closure activities.

This authorization is granted subject to review and cancellation should investigation show that such authorization is being abused.

> Sincerely yours, ori Wrotenberg

Lori Wrotenbery

Director of Environmental Services

NOTE: Amended Condition II, B.2. to delete BTEX testing, Condition II. B.3. to analyze all non-exempt waste for TCLP metals and TCLP Benzene, Condition II.B.4. to clarify TPH limit, and Condition IV. B.C.3. to amend sampling frequency from after each application to quarterly.

LW/LLS/JR

attachment (Facility Site Plan)

cc: RRC - Midland

2. Unsaturated Contaminated Soils

The general site characteristics obtained during the site assessment (Section III.A.) will be used to determine the appropriate soil remediation action levels using a risk based approach. Soils which are contaminated by petroleum constituents will be scored according to the ranking criteria below to determine their relative threat to public health, fresh waters and the environment.

a. Ranking Criteria

C+C

Depth To Ground Water	Ranking Score
<50 feet	20
50 - 99	10
>100	0

Wellhead Protection Area

<1000 feet from a water source,or;
<200 feet from private domestic water source
Yes

0
0

Distance To Surface Water Body

<200 horizontal feet 20
200 - 1000 horizontal feet 10
>1000 horizontal feet 0

b. Recommended Remediation Action Level

The total ranking score determines the degree of remediation that may be required at any given site. The total ranking score is the sum of all four individual ranking criteria listed in Section IV.A.2.a. The table below lists the remediation action level that may be required for the appropriate total ranking score.

(NOTE: The OCD retains the right to require remediation to more stringent levels than those proposed below if warranted by site specific conditions (ie. native soil type, location relative to population centers and future use of the site or other appropriate site specific conditions.)

Total Ranking Score

	>19	10 - 19	0 - 9
Benzene(ppm)*	10	10	10
BTEX(ppm) *	50	50	50
TPH(ppm) **	100	1000	5000

- * A field soil vapor headspace measurement (Section V.B.1) of 100 ppm may be substituted for a laboratory analysis of the Benzene and BTEX concentration limits.
- ** The contaminant concentration for TPH is the concentration above background levels.

B. GROUND WATER

Contaminated ground water is defined as ground water of a present or foreseeable beneficial use which contains free phase products, dissolved phase volatile organic constituents or other dissolved constituents in excess of the natural background water quality. Ground water contaminated in excess of the WQCC ground water standards or natural background water quality will require remediation.

V. SOIL AND WATER SAMPLING PROCEDURES

Below are the sampling procedures for soil and ground water contaminant investigations of leaks, spills or releases of RCRA Subtitle C exempt oil field petroleum hydrocarbon wastes. Leaks, spills or releases of non-exempt RCRA wastes must be tested to demonstrate that the wastes are not characteristically hazardous according to RCRA regulations. Sampling for additional





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

May 24, 1995

CERTIFIED MAIL
RETURN RECEIPT NO.P-176-012-139

Mr. Jimmie Cooper C&C Land Farm Box 55 Monument, New Mexico 88265

RE: Oil Conservation Division

Request to Expand C&C Landfarm

Dear Mr. Cooper,

The Oil Conservation Division (OCD) has received C&C Landfarm, Inc.'s (C&C) work plan dated March 23, 1995 proposing to install two monitor wells located 330'/FNL and 50'/FWL, 330'/FSL and 50'/FWL, respectively, of Unit Letter "C", Section 3, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico. The OCD requested the work plan as part of the review of the C&C request to expand the existing facility. The work plan is hereby approved with the following conditions:

- 1. In addition to the two monitor wells proposed in the work plan, one additional monitor well will be installed to be located 660'/FWL and 50'/FNL of Unit Letter "C", Section 3, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico.
- 2. The monitor wells (3) will be completed by drilling two feet below the top of the red beds, installing five feet of screen (2' below and 3' above the top of the red bed), placing appropriately sized gravel pack to two feet above the top of the screen, a two foot bentonite seal on top of the gravel pack and grouted to the surface with grout containing 3%-5% bentonite.
- 3. The OCD will be provided with the surveyed locations and surface elevations of all the monitoring wells, including the five previously installed monitor wells.

Mr. Jimmie Cooper May 24, 1995 Page 2

- 4. The OCD will be provided with a final report upon completion of the work plan that will include:
 - a. Detailing all activities included with the implementation of the work plan
 - b. A drillers log of each new monitor well drilled.
 - c. A contour map of the top of the red beds, relative to sea level, using all available geologic information..
 - d. Any conclusions C&C ascertains from the implementation of the work plan.

Submission of the above requested information will allow the OCD review of the proposed facility expansion to continue.

If you have any questions please call me at (505) 827-7153.

Sincerely,

Chris Eustice

Geologist

cc: OCD Hobbs Office, Jerry Sexton OCD Hobbs Office, Wayne Price

Mr. W. Thomas Kellahin, Esq. PO Box 2265 Santa Fe, NM 87504-2265

OIL CONSERVATION DIVISION RECE VED

March 23, 1995

'95 MA+ 24 PM 8 52

NMOCD Environmental Bureau 2040 S. Pacheco Santa Fe, NM 87505

ATTN: Chris Eustice

Mr. Eustice:

Find within work plan for proposed monitor wells for C & C's expansion request.

We propose to drill 2 wells, located on the West side of the proposed 40 acre site. Well #1 will be located 330/FNL and 50/FWL. Well #2 will be located 330/FSL and 50/FWL. The locations were picked because the surface contour slopes to the West and, from the drilling of the previous monitor wells on the existing site, the redbed also dips westerly.

We propose to drill the wells 2 ft. into the redbed, using a 6 1/4" bit, and case wells with schedule 40, 3" OD PVC. The wells will have 5 ft. of screen, 2 ft. below redbed top and 3 ft. above. The screen and 2 ft. above top of screen will have frac sand as a filter pack. A bentonite seal will be put above sand pack, then backfill material will be placed from top of bentonite to within 5 ft. of surface. The top 5 ft. of hole will be cemented to seal off top of hole. Also a locking device will be cemented in place, and a concrete pad at surface. A rotary drilling rig will be used and formations logged. If the OCD approves of our design and placement of wells, C & C is prepared to commence as soon as approval is received.

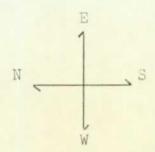
If additional information is needed or if you have any questions, please call.

Sincerely,

Eddie W. Seay, Agent

601 W. Illinois Hobbs, NM 88240

(505)392-2236



PROPOSED C & C EXPANSION 40 ACRE SE 1/4 OF NE 1/4 SECT. 3 T203 R378

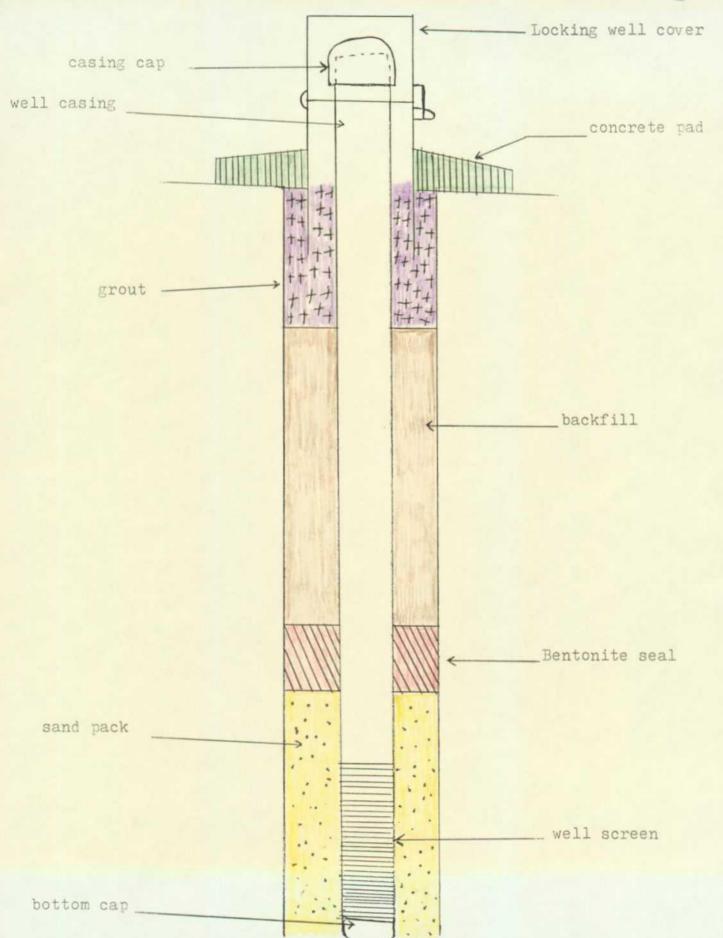
Monitor Well 1



Monitor Well 2



PROPOSED MONITOR WELL SCHEMATIC







ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

March 14, 1995

CERTIFIED MAIL RETURN RECEIPT NO.P-176-012-116

Mr. Jimmie Cooper C&C Land Farm Box 55 Monument, New Mexico 88265

RE: Oil Conservation Division Request to Expand C&C Landfarm

Dear Mr. Cooper,

The Oil Conservation Division (OCD) has received and is in the process of reviewing the above referenced application dated June 15, 1994 and supplemental information dated November 21, 1994 to expand your existing facility located in the SW/4 NE/4 of Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico.

The following comments and requests for additional information are based upon the OCD's review of the application and the supplemental information.

1. The OCD requires C & C Landfarm Inc. to install monitor wells at the proposed site to document existing geology and hydrology of the expansion site. Please provide the OCD with a work plan for monitor well installation by April 17, 1995.

Submission of the above requested information will allow the OCD review of the above referenced application to continue.

If you have any questions please call me at (505) 827-7153.

Sincerely,

Chris Eustice

Environmental Geologist

xc: OCD-Hobbs Office, Jerry Sexton

OCD-Hobbs Office, Wayne Price

NECONOMIC NO DIVISION RECUIRED

35 Ma 3 FM 8 52

December 30, 1994

SW Cattle Co. ATTN: Mr. Trent Stradley P.O. Box 549 Hobbs, NM 88241

Dear Sir:

As Agent for C & C Landfarm, Inc., I would like to visit with you about the landfarm and its operations. I feel there may be some misunderstanding as to the operation at C & C and what materials can and cannot be taken for remediation. By talking things over, we may be able to resolve some of the problems you may have with C & C.

The first week of January, I will make myself available to you for a meeting. Please call and set a convenient time for you.

Am looking forward to hearing from you.

Sincerely,

Eddie W. Seay, Agent

601 W. Illinois

Hobbs, NM 88240

(505)392-2236

KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

II7 NORTH GUADALUPE

W. THOMAS KELLAHIN*

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

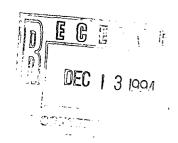
TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

SANTA FE, NEW MEATCO 0/504-22

December 13, 1994

HAND DELIVERED

Mr. William J. LeMay Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505



Re:

REQUEST FOR HEARING AND STATEMENT OF OBJECTIONS

In the matter of the application of C & C Landfarm, Inc. for expansion of a commercial surface waste disposal facility, Lea County, New Mexico.

Dear Mr. LeMay:

By letter dated November 12, 1994, C & C Landfarm Inc. has provided notice to Trent Stradley that C & C Landfarm Inc. is seeking an expansion of its commercial surface waste disposal facility.

On behalf of W. T. (Trent) Stradley and S-W Cattle Co. and in accordance with Division Rule 711, please find enclosed our referenced Request for Hearing and Statement of Objections which we request be set for hearing before a Division Examiner.

W. Thomas Kellahin

ery truly

w/ Enclosure:

cc: C. Gene Samberson, Esq.

cc: Eddie Seay, agent for C & C Landfarm, Inc.

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

IN THE MATTER OF THE REQUEST OF C & C LANDFARM, INC. FOR EXPANSION OF A COMMERCIAL SURFACE WASTE DISPOSAL FACILITY, LEA COUNTY, NEW MEXICO DEC 1 3 1994

REQUEST FOR HEARING AND STATEMENT OF OBJECTIONS BY S-W CATTLE CO. AND W. TRENT STRADLEY

Comes now W. T. (Trent) Stradley and S-W Cattle Co. ("the Opponents") by and through their attorneys, C. Gene Samberson, Esq. and W. Thomas Kellahin, Esq. and object to the New Mexico Oil Conservation Division granting the request of the applicant, C & C Landfarm, Inc. ("C&C"), to expand/modify its existing facility in the NE/4 of Section 3, T20S, R37E, Lea County, New Mexico, and in support states:

INTRODUCTION

On November 12, 1994, by a single page letter with no attachments, C & C Landfarm Inc. attempted to send notice to Trent Stradley, an adjoining property owner, of C & C Landfarm's request to the New Mexico Oil Conservation Division for approval to modify its commercial landfarm facility located in the NE/4 of Section 3, T20S, R37E, NMPM, Lea County, New Mexico by adding an additional 40-acres in the NW/4NE/4 of said Section 3.

On November 21, 1994, Eddie Seay, as agent for C & C Landfarm Inc, filed an incomplete "Discharge Plan Application" with the NMOCD. No copy of this application was ever served on Trent Stradley.

On December 13, 1994, a search of the New Mexico Oil Conservation Division ("NMOCD") files on the C&C's application were made and copies of all relevant documents were provided by Roger Anderson, Environmental Bureau Chief, New Mexico Oil Conservation Division ("NMOCD-EB"), concerning this application.

(1) FAILURE TO COMPLY WITH DIVISION RULE 711

NMOCD Rule 711 requires that prior to the enlargement or a modification of a commercial surface waste disposal facility, a certified and detailed application for such a modification/enlargement to an existing permit shall be filed with the NMOCD-Santa Fe to be accompanied with attachments addressing some eleven different enumerated items.

A search on December 13, 1994 of the NMOCD files on this matter revealed that the applicant filed an <u>incomplete</u> application dated November 21, 1994. Applicant failed to comply with the Division Rule 711 and its request must be dismissed.

Specifically, C & C Landfarm Inc. has violated Division Rule 711-A(1) because it:

- (a) failed to file a description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility. Note: applicant filed a plat of the existing facility but failed to incorporate the expansion area into the plat;
- (b) failed to attach a description of the materials stored or used at the facility;

- (c) failed to attach a description of the present sources of effluent and waste solids;
- (d) failed to attached a description of proposed modification to existing treatment system;
- (e) failed to attach a routine inspection and maintenance plan to ensure permit compliance;
- (f) failed to attach a contingency plan for reporting and cleanup of spills or releases;
- (g) failed to attach a geologic/hydrologic study conducted by a competent expert to demonstrate that disposal of oil field wastes will not adversely impact fresh water. This application was prepared and filed by Eddie Seay who is not a qualified hydrologist/geologist and is incompetent to render any opinions on this subject; and
- (h) failed to attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

(2) OCD-ENVIRONMENTAL REGULATIONS VIOLATE DUE PROCESS

The Division is utilizing a complex set of rules and regulations (some of which are contrary to and inconsistent with existing Division rules and regulations) with which to process C&C's application and by which to establish operational regulations for this facility and to monitor compliance.

None of these environmental rules and regulations ever has been properly adopted by the Division. (See NMOCD Rule 1201).

The NMOCD, by avoiding its public hearing process (See NMOCD Rule 1201 and its general notification procedures (See NMOCD Rule 1207) has allowed its Environmental Bureau to unilaterally promulgate rules and regulations and issue amendments which are disguised as "guidelines" and in doing so has precluded both the oil and gas industry and the public from having meaningful comment, objection and input.

However well intended, such procedures are a violation of procedural due process and have resulted in invalid rules and regulations which the NMOCD is currently applying in this case.

(3) ENVIRONMENTAL BUREAU ACTIONS

The subject facility is being designed by the OCD and not the Applicant and is being permitted without any science or experience to know that it will work. This has been and continues to be a "make it up as you go" process by which the agency designs the facility specifications for the Applicant and then challenges the Opponents to prove them wrong. Such an adversarial role is not the proper role for this agency.

The Environmental Bureau-OCD should function as a reviewing regulatory agency. However, the NMOCD-EB in this case has taken a facilitator's role by providing technical support and assistance to the applicant.

In its efforts to accommodate the requests of a former NMOCD employee, Eddie Seay, consultant for C&C, the Environmental Bureau's actions in this case have impaired and tainted its ability to be perceived as impartial. The methods used by the Division in processing this case violates procedural due process.

This matter should be set for hearing before a Division Examiner in order to afford the Opponents their right to have such matters determined by an impartial hearing examiner.

(4) APPEAL OF ORIGINAL APPROVAL

Commission Order R-9769-A is fatally flawed and is still pending an appeal hearing in State District Court in the Fifth Judicial District for Lea County, New Mexico. Any action on this application to modify/expand this facility must be stayed pending a final decision in Case CIV 93-247.

(5) TWO AQUIFERS TO BE PROTECTED

One of the aquifers at risk is the Stradley Aquifer in the shallow alluvium down slope ("gradient") from the proposed waste facility. The issue is where are the vertical and horizontal limits of that aquifer and its recharge system.

Mr. Stradley, who has been over every part of this "White Break" area for decades, will testify that the original facility and its proposed expansion are located on the northeast edge of a natural topographical depression with his fresh water windmill located in the bottom of that depression and in excess of 30 feet lower than the surface waste facility.

A visual inspection of the surface of the facility allows the observer to infer that the surface topography would increase the risk of contamination to the Stradley Aquifer. The Division's records on this case already contain evidence of an extensive search of the State Engineer's records concerning fresh water wells in the area which show the presence of some forty-six (46) water wells in the area.

Mr. Tim Kelly, an expert hydrologist, will also testify and conclude that the likely direction of contaminant movement from the waste facility will be down gradient along the redbed surface; that there have been no hydrologic studies of the area to determine gradients and therefore no way to know the length of time and distance of travel of the contaminants, that there has been no scientific study of the redbeds and the movement cannot

be predicted. His point will be that the Division originally should not have approved this facility and cannot approve this expansion/modification until that determination is made.

In addition, the Ogalalla aquifer also is present under the waste facility. If the Division wants to decide this case based upon the presence or absence of the Ogalalla aquifer under the facility, then the fact is the Ogalalla aquifer IS PRESENT UNDER this surface waste facility and the potential risk to that ground water source must be addressed.

(6) APPLICANT HAS NOT PRESENTED SUBSTANTIAL SCIENTIFIC STUDY ABOUT THE STRADLEY AQUIFER

C&C now seeks to expand and modify a facility which was improperly approved by the Division in the first place. It is C&C's burden of proof to demonstrate to the Division that the expansion of this facility will not harm the fresh water aquifer.

C&C has yet to provide evidence of the size, shape and hydrology of the Stradley Aquifer from which the Stradley windmill produces fresh water which continues to be a failure of the Applicant to meet its "Burden of Proof."

The ultimate factual issue for this expansion and its original facility is whether this surface waste facility creates a risk of contamination to the fresh water aquifer from which Trent Stradley's well has produced continuously in excess of forty-five (45) years and is the only fresh water supply for cattle in some nine sections and is referred to herein as the "Stradley Aquifer."

To answer that issue, it is essential for the Division to have proper scientific evidence about the Stradley Aquifer including its size, shape and recharge mechanics. C&C has never submitted such scientific evidence and that failure of evidence is fatal to its case.

The fact that the Applicant did not find the Stradley Aquifer with some five shallow monitor wells drilled on the proposed facility does not substitute for a proper hydrologic study to determine the risk to the Stradley Aquifer. Contaminates can be introduced on the surface and with the introduction of rain will percolate into the ground both vertically and horizontally and migrate into the Stradley Aquifer.

Nobody knows how the Stradley Aquifer is recharged and from what source. Nobody knows the size and shape of the Stradley Aquifer. The Division up until now has ignored that absence of evidence and in doing so, failed to decide the ultimate issue in this case.

It is the Applicant's Burden of Proof and not the NMOCD or the Opponents' burden, to produce the hydrologic study of the Stradley Aquifer which must provide convincing evidence that no risk was being imposed upon the Stradley Aquifer by this waste facility.

(7) APPLICANT HAS NOT PRESENTED ANY PROPER SCIENTIFIC STUDY ABOUT THE EXPANSION OF THIS FACILITY

C&C has submitted no scientific data on soils tests and therefore no compaction data, no composition data, and permeability data from which to determine the construction and maintenance standards for the berm. Further C&C does not detail the constructions, maintenance or operations requirements for the berm.

In addition, the Applicant has failed to provide evidence as to any of the following:

- (1) composition samples and tests
- (2) soil samples and tests
- (3) compaction tests
- (4) permeability tests
- (5) Cation Exchange capacity tests
- (6) liquid and plastic tests of the redbeds

- (7) any soil properties tests and data
- (8) any hydrology studies
- (9) any groundwater studies
- (10) any percolation tests or data
- (11) any ground water migration tests/data
- (12) any contaminant mobility tests/data

(8) NEED FOR ADEQUATE HORIZONTAL BUFFER ZONE:

A Buffer Zone is essential but the proper distance must be based upon some site specific scientific reasons to determine what minimum distance is adequate. There is no scientific basis for the distance being 100 foot horizontal setback ("buffer") as recommended by Kathy Brown of the OCD-EB. The adoption of an arbitrary distance for the Buffer Zone without any scientific basis is objected to by the Opponents.

(9) TREATMENT ZONE MONITORING

In Order R-9769-A, a mistake was made when it adopted the OCD-EB proposed conditions concerning the Treatment Zone and its Monitoring. The OCD-EB speculated that the first three feet of native soils will be an adequate "Treatment Zone" and with monitoring will protect ground water.

Again, Kathy Brown, previously testified in support of the adoptions of the OCD-EB conditions was not a qualified expert hydrologist and did not undertake an adequate scientific study to justify its Treatment Zone Monitoring.

The proposed monitoring of the Treatment Zone has no scientific basis for determining its reliability. There is no data from which to determine that the location of the cells in which the contaminated soils will be placed have been located an adequate distance from either the excavated

pits or from the boundary of the adjoining Stradley property. Nobody knows how frequently to sample and how many samples per acre to take in order to detect contamination in the Treatment Zone.

The OCD-EB Revised Recommendations are inadequate to detect any leaching process of movement of contaminants that could cause the pollution of nearby fresh water supplies.

In summary, should the Division use the former OCD-EB recommendations for this facility, they will be inadequate to provide reasonable protection of the valuable groundwater present in the immediate adjacent tracts.

Any approval of this expansion should correct the inadequacies made in the Order R-9769-A.

(10) OPPONENTS OFFER OF PROOF

The Opponents WILL PRESENT evidence that the granting of this application by the Division will fail to protect human health and the environment and will constitute a risk of contamination of ground water, including the following:

- (a) The Applicant's proposed plan will place at risk shallow water wells located down-dip from the proposed landfarm which will be subject to contamination from seepage of leachate contaminants.
- (b) The Applicant's plan to prevent migration of contaminants down gradient along the redbed surface is inadequate.
- (c) The proposed monitor wells are improperly located and will not afford adequate assurance of detection of contaminants.

- (d) The proposed dike identified in OCD Condition (10) in said Order is insufficient and conditions for compaction and verification are inadequate to stop the mobility of the leachate contaminants.
- (e) The composition of the berm is not environmentally safe.
- (f) Additional soil tests should be performed on the redbed soil including:
 - (1) Falling head permeability tests,
 - (2) Soil property tests,
 - (3) Cation Exchange Capacity tests,
- (g) Applicant needs to perform liquid and plastic tests on the redbeds.
- (h) The Applicant's proposed barrier is inadequate for its proposed landfarm.
- (i) Applicant's geology is inadequate and fails to include an east-west cross section.

The OCD-Environmental Bureau has previously assumed that the contaminated soils will be kept from any shallow fresh water because of about three (3) feet of native soil is to be used as a "treatment zone."

There is no characterization of the "redbeds." In this area there are the Triassic deposits, probably the Chinle shale, and referred to as the "redbeds." The integrity of this landfarm system is dependent upon the impermeability of the redbeds, but the Applicant has presented no data about the physical characteristics of these deposits, such as cation exchange rates, in-situ permeability, remolded permeability at specified compaction ratios, swelling characteristics, etc. All of these are critical factors that ensure that there would be no migration of leachate along the top of or through the redbeds.

There are inadequate horizontal and vertical buffer zones surrounding this proposed facility. The configuration of the upper surface of the redbeds in the 40-acre tract has not been defined.

RECOMMENDATIONS

Opponents recommend to the Division that the request to expand/modify this facility be DENIED.

Respectfully submitted,

KELLAHIN AND KELLAHIN,

W. Thomas Kellahin, Esq.

P.O. Box 2265

Santa Fe, New Mexico 87504

(505) 982-4285

C. Gene Samberson, Esq.

P. O. Drawer 1599

Lovington, New Mexico 88260

(505) 396-5303

ATTORNEYS FOR OPPOSITION-

W.T. STRADLEY

S-W CATTLE CO.

State of New Mexico Energy, Minerals and Natural Resources Epartment

OIL CONSERVATION DIVISION

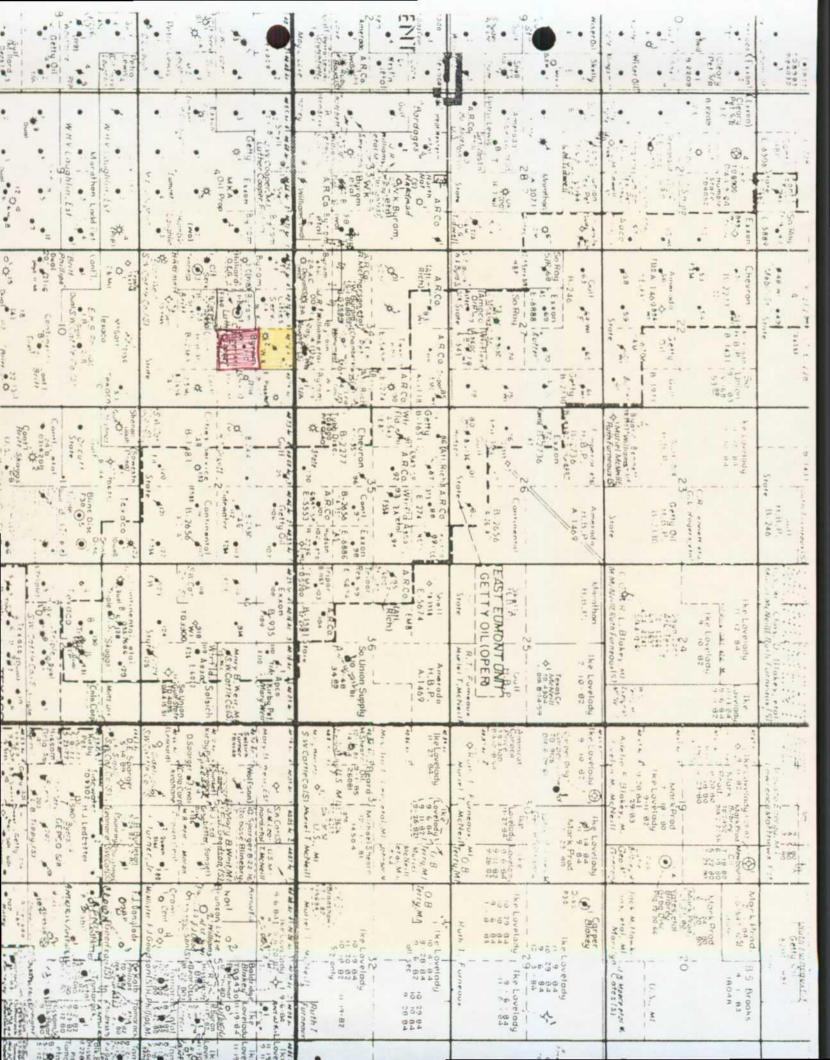
P.O. Box 2088 Santa Fe, NM 87501

DISCHARGE PLAN APPLICATION FOR OILFIELD SERVICE FACILITIES

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

I.	TYPE: Commercial Landfarm Facility (Expansion)
II.	OPERATOR: C & C Landfarm Inc.
	ADDRESS: Box 55, Monument, NM 88265
	CONTACT PERSON: Eddie W. Seay PHONE: 392-2236
III.	LOCATION: NW /4 NE /4 Section 3 Township 20 Range 37 E. Submit large scale topographic map showing exact location.
IV.	Attach the name and address of the landowner of the disposal facility site.
V.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.
VI.	Attach a description of all materials stored or used at the facility.
VII.	Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.
VIII	Attach a description of current liquid and solid waste collection/treatment/disposal procedures.
IX	Attach a description of proposed modifications to existing collection/treatment/disposal systems.
X.	Attach a routine inspection and maintenance plan to ensure permit compliance.
XI.	Attach a contingency plan for reporting and clean-up of spills or releases.
XII.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact fresh water. Depth to and quality of ground water must be included.
XIII.	Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.
XIV.	CERTIFICATION I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Eddie W. Seay Title: Agent
	Signature: Eddie W Seas Date: 11-21-94

DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

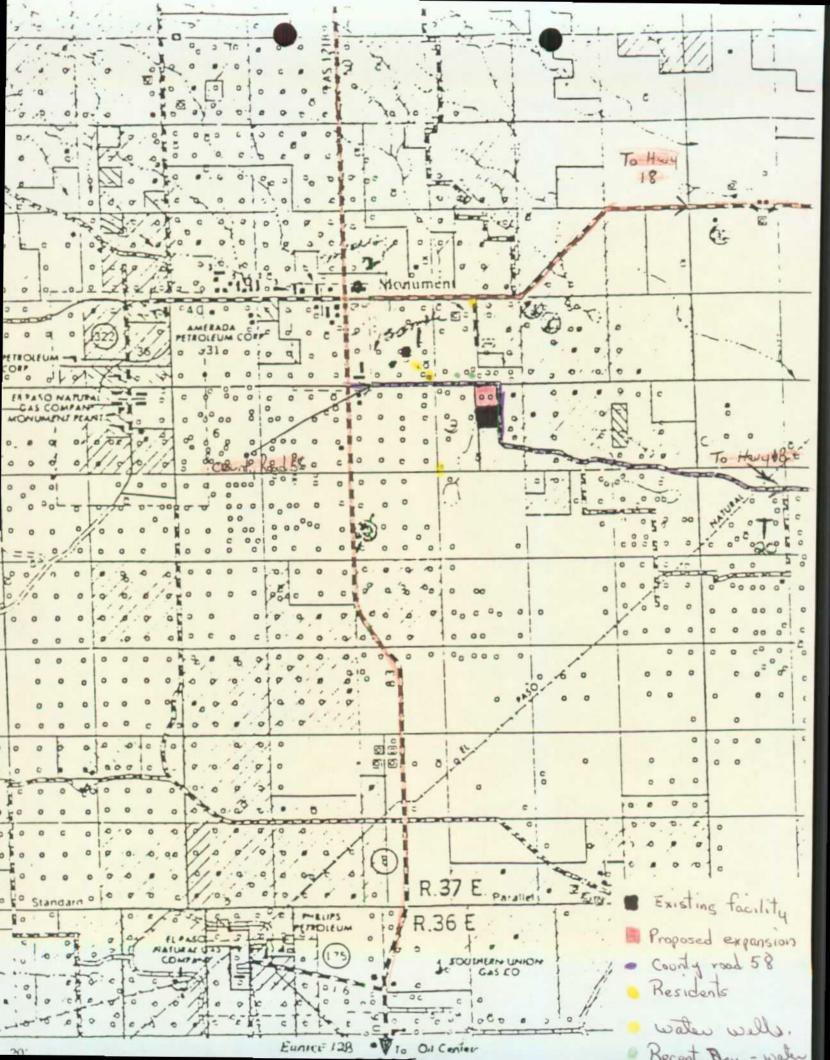


Proposed
Expension

Sed 3 1.20 R37 E

unit B

Existing faculaty



List of names and addresses of record of all landowners within 1/2 mile of the proposed expansion.

SW cattle Co. P.O. Box 549 Hobbs, NM 88241

Coy R. Doyal Box 188 Monument, NM 88265

Tanja Weir 711 Greenview Cir. Sand Springs, OK 74063

Carlyle J. Hall P.O. Box 163 Monument, NM 88265

Joe R. Williams Box 215 Monument, NM 88265

Jimmy T. Cooper Box 55 Monument, NM 88265

State of New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504

BLM P.O. Box 1778 Carlsbad, NM 88221-1778

HYDROLOGY AND GEOLOGY OF PROPOSED SITE

Geographically, the site is situated near the western boundary of the southern extension of the High Plains in southeastern New Mexico. The proposed site is a 40 acre tract located in Unit B Sect. 3, T 20, R 37 E., Lea Co., NM. The site is adjacent to the existing C & C Landfarm which is permitted by the OCD. The site, which is bordered by County Road 58 to the East and North, has a gradual surface slope to the West. The site is situated below the white breaks or caprock area where little or no water is found. Research of State Engineer records and USGS files show no fresh water was recorded or found within the area of review. Two water wells were drilled in Sect. 34 approximately 1/4 to 1/2 miles NW of the proposed site. Both wells, drilled by Van Noy Drilling, were recorded as dry holes with redbeds at 29 ft. caliche pit in the SE corner of the proposed site was excavated down to the top of the redbed, which came in at approximately 15 ft. No fresh water was found or has run into caliche pit area. The redbed in this area range in thickness from 600 to 1000 ft. from logs of oil wells in the area.

The only water well within the area is a windmill approximately 1 1/4 mile SW of the site. A copy of a recent analysis is within. This well was not listed on State Engineer's list of water wells.

For the past 18 months that C & C has been permitted to operate and monitor its existing facility, no water has been found in the monitor wells or the caliche pits, which are excavated down to top of redbeds, and we have found no water on the proposed site. I feel that without the presence of water and the preventive measures of the trench and berms to prevent runoff and runon of water, and the constant and consistent monitoring of the treatment zone below the proposed site and the existing facility, this should be a safe site for the disposal and remediation of oilfield contaminated soils.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

CHEMICAL ANALYSIS OF WATER

Eddie Seay 601 W. Illinois, Hobbs, NM C & C Landfarm Monument, NM

Lab #: Date Received: Date Analyzed:

H1800 9/20/94 9/21/94

Company : City, St.: Proj.Name: Location :

Sample 1 : Stradley Windmill

Units: mg/L

<u>PARAMETER</u>	RESULT 1
рН	7.31
Hardness (CaCO ₃)	588
Calcium (CaCO ₃)	340
Magnesium (CaCO ₃)	248
Sulfate $(S0_4^-)$	612
Chloride (Cl ⁻)	668
Total Dissolved Solids	2443
Total Alkalinity	288
Bicarbonate	288
Carbonate	nil

Michael R. Fowler

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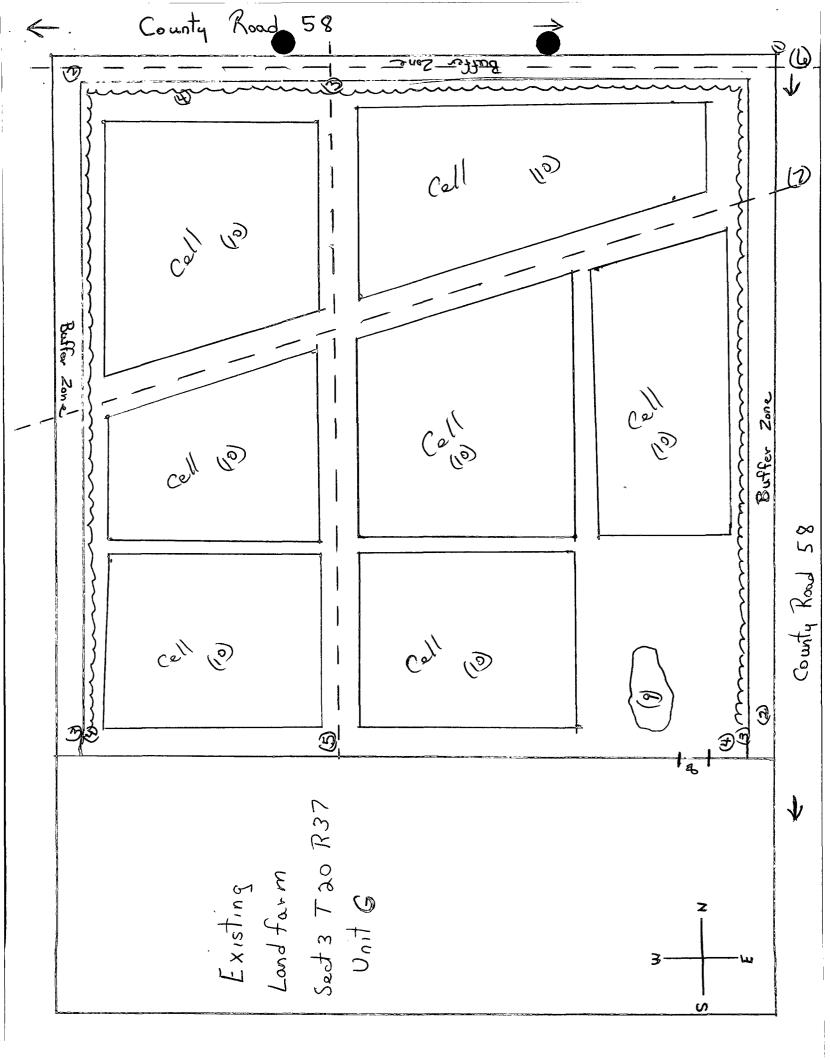
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CONSTRUCTION OF PROPOSED SITE

The 40 acre site which is proposed will be fenced with a barbed wire fence with an entrance from the existing landfarm only. A buffer zone will be kept around facility to divert any runoff from adjacent properties. A berm inside the trench will be maintained as a secondary precaution to prevent runoff or runon of facility. All cells will be disked and monitored and no cell will be built on an existing pipeline. There will be no buildings or storage of any kind on the facility and only waste approved by OCD will be admitted.

- 1. 4 stran barbed fence around site
- 2. Buffer zone
- 3. Trench between berm and buffer zone
- 4. Berm around the perimeter
- 5. Sid Richardson Pipeline 4 in. gas line buried 36 in.
- 6. Texas-New Mexico Pipeline 6 in oil line buried 2 ft.
- 7. Arco Pipeline Co. 4 in oil line buried 36 in.
- 8. Access from other landfarm only
- 9. Caliche pit
- 10. Proposed cells not to exceed 5 acres. All cells will be kept off pipeline.



November 12, 1994

Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission, State of New Mexico, notice is hereby given that C & C Landfarm, Inc., a State approved disposal facility located in Sect. 3, Township 20, Range 37 E., SW 1/4 of the NE 1/4 Unit G, Lea Co., New Mexico, is filing for expansion to the existing permit. The expansion is a 40 acre tract adjacent to the existing facility on the north side, all on deeded land. The location of the expansion is Unit B the NW 1/4 of the NE 1/4 of Sect. 3, Township 20, Range 37 E., Lea Co., New Mexico. The facility will be for the disposal of oil and gas contaminated soils only.

Any questions concerning the permit or its expansion can be directed to Eddie W. Seay, agent for C & C, (505)392-2236 or Chris Eustice, State of New Mexico Oil Commission, (505)827-5884.

Any complaints or objections must be filed within 30 days of this notice to Chris Eustice, Oil Conservation Commission, State of New Mexico, Box 2088, Santa Fe, NM 87501.

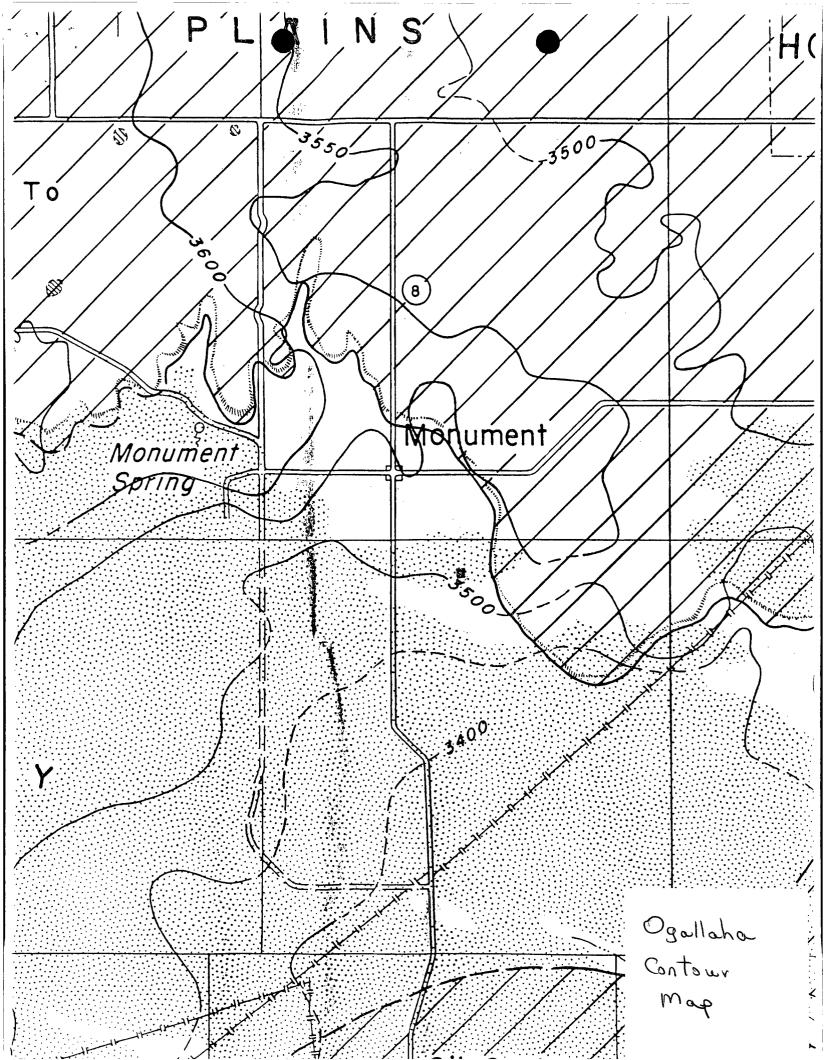
Thank you,

Eddie W. Seay, CEI, CES

Eddin to Seage

601 W. Illinois Hobbs, NM 88240

(505)392-2236



OIL CONSERVE ON DIVISION REC: VED

EDDIE SEAY CONSULTING

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Name ___

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Return

2nd Notice

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2nd Notice Return

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Joe R. Williams Box 215 Monument, NH

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C+C Exporaion

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November 12, 1994

Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission. State of New Mexico, notice is hereby given that C & C Landfarm, Inc., a State approved disposal facility located in Sect. 3, Township 20, Range 37 E., SW 1/4 of the NE 1/4 Unit G. Lea-Co., New Mexico, is filing for expansion to the existing permit. The expansion is a 40 acre tract adjacent to the existing facility on the north side, all on deeded land. The location of the expansion is Unit B the NW 1/4 of the NE 1/4 of Sect. 3. Township 20, Range 37 E., Lea Co., New Mexico. The facility will be for the disposal of oil and gas contaminated soils only.

Any questions concerning the permit or its expansion can be directed to Eddie W. Seay, agent for C & C. (505)392-2236 or Chris Eustice, State of New Mexico Oil Commission, (505)827-5884.

Any complaints or objections must be filed within 30 days of this notice to Chris Eustice, Oil Conservation Commission, State of New Mexico, Box 2088, Santa Fe. NM 87501.

Thank you.

Eddie W. Soay, CEI, CES

Elli W Sean

601 W. Illinois Hobbs, NM 88240

(505)392-2236

STATE OF NEW MEXICO



THE GO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

94 SE 23 AM 8 52 HOBBS DISTRICT OFFICE

BRUCE KING

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

September 27, 1994

Jimmie T. Cooper C & C Landfarm Inc. P.O. Box 55 Monument, New Mexico 88265

Reference:

Inquiry from Transwestern Pipeline Co. to dispose of

RCRA non-exempt contaminated soils into C & C

Landfarm.

Subject:

Procedure for accepting RCRA non-exempt oil and gas

(oilfield) contaminated soils into the C & C

landfarm.

Dear Jimmie,

The NMOCD District I office recently received an inquiry about disposing of some contaminated soils generated at the Transwestern Pipeline Co. Eunice Compressor Station. Transwestern's consultant company, Daniel B. Stephens & Associates of Albuquerque is handling this project. Their contact is Mr. Bob Marley and can be reached at 505-822-9400.

After discussing this situation with Mr. Marley it appears that this waste was generated from a clean-up effort from around their compressor building. This soil is contaminated in part with used compressor lube oil. Therefore, this material is classified as an non-exempt waste. All non-exempt waste that is accepted into your landfill must adhere to the following procedure and use the provided forms enclosed.

Please find enclosed the form "REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE". Please note it is the responsibility of the Landfarm operator to sign off on this form. The operator is also responsible to collect all the necessary information from the generator and attach it to this form.

Permit conditions require the operator of the landfarm to retain all records on site.



Once the NMOCD receives the form with attachments, then it is reviewed by the district office for any deficiencies. It then is sent to Santa Fe for their approval. After it is approved then the Landfarm operator will be notified by this office and then C & C can notify the generator. C & C and the generator can then proceed with the disposal of the waste.

The generator must supply the proper information to the Landfarm operator as noted on item 9c. of the form. Included should be analytical results of the waste or "Knowledge of Process" of the waste stream demonstrating that the waste is not hazardous under EPA-RCRA laws.

I have also enclosed a copy of a generic form of a "Certificate of Waste Status for Non-Exempt Material" to be signed off on by the generator and supplied to the Landfarm operator. Please note, some companies choose to have their legal staff rewrite this statement. They may do so as long as it meets the minimum requirements certifying that the waste does not contain "RCRA Listed" waste or has been mixed with such waste.

If you have any further questions or require assistance in this procedure please do not hesitate to call or write. Also, please feel free to copy these forms for future use.

Sincerely yours,

Mape Pair

Wayne Price-Environmental Engineer

cc: Jerry Sexton-District I Supervisor-Hobbs, NM
Roger Anderson-Environmental Bureau Chief-Santa Fe, NM
Bill Olson-Hydrogeologist-Santa Fe, NM
Bill Marley-Daniel B. Stephens & Associates-Albq. NM
Larry Campbell-Transwestern Pipeline-Roswell, NM

Submit to Appropriate
District Office in Triplicate

DISTRICT | PO Box 1980 Hollow, NAC 88241-1980

DISTRICT II BU Drawer 141 Artesia, NAI 88211-0719

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

DISTRICT III 1000 Rio Brazon -Azuse, NM 87411

DISTRICT IV PO Bent 2008 Santa Fe, NM 8

-	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.	RCRA Exempt: Non-Exempt:	4. Generator
	Verbal Approval Received: Yes □ No □	
2.	Destination	5. Name of Originating Site
3.	Address of Facility Operator	6. Name of Transporter
7.	Location of Material (Street Address or ULSTR)	8. State
9.	Circle One	
R		este status from the Generator and the New ses to prove the material is non-hazardous
	All transporters must certify the wastes delivered are only those corriginal for transport.	

BRIEF DESCRIPTION OF THE MATERIAL:

CHESTRIS OF AITHOVAL FANY:

Estimated Volume -	cy Known Volume (to be entered by the open	rator at the end of the hauli:
Thereby certify that the information above is true and	complete to the best of my knowledge and belief.	
SIGNATURE	TITLE	DATE
TYPE OR PRINT NAME		TELEPHONE NO
(This space for State Use)		
APPROVED BY	TITLE	DATE
APPROVED BY	TITLE	DATE

CERTIFICATE OF WASTS STATUS

NON-EXEMPT WASTE MATERIAL

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Source:			
Disposa	l Location:		
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STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING

ANITA LOCKWOOD CABINET SECRETARY

September 20, 1994

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL RETURN RECEIPT NO.P-176-012-262

Mr. Jimmie Cooper C&C Land Farm Box 55 Monument, New Mexico 88265

RE: Oil Conservation Division Request to Expand C&C Landfarm

Dear Mr. Cooper,

The Oil Conservation Division (OCD) has received your request and is in the process of reviewing the above referenced application to expand your existing facility located in the SW/4 NE/4 of Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. The following comments and requests for additional information are based upon review of the application, dated June 15, 1994, for authorization to expand your existing facility to include an additional 40 acres.

- Provide a plat and a topographic map indicating the location of the proposed forty (40) acres in relation to governmental surveys (1/4 1/4 section, township and range), highways or roads giving access to the facility site, and watercourses, water wells, and dwellings within one mile of the site.
- List the name and addresses of all landowners within one-half (1/2) mile of the proposed expansion.
- 3. Provide a description of the facility with a diagram indicating the location of the following:
 - a. Roads, fences, gates, berms, ditches, and proposed cells.
 - b. All Pipelines crossing the facility, including owner, contents, depth and size of the pipeline(s).
 - c. Actual or proposed offices and/or storage buildings.

- d. Chemical storage areas indicating the type of storage containers (ie. drums, sacks, tanks, etc.)
- e. Any on-site storage/disposal facilities for wastes other than contaminated soils to be landfarmed (ie. waste oil, wash bay sumps, etc.)
- 4. Attach proof that the notice requirements of Rule 711 have been met.
- 5. Geologic/hydrologic evidence demonstrating that disposal of oilfield wastes will not adversely impact fresh water.
- 6. Certification by an authorized representative of the applicant that information submitted in the application is true, accurate and complete to the best of the applicants knowledge. (Use the attached application for submission of this information.)

Submission of the above requested information will allow the review of the above referenced application to continue.

If you have any questions please call me at (505) 827-5824.

Sincerely,

Chris Eustice

Environmental Geologist

xc: OCD-Hobbs Office, Jerry Sexton OCD-Hobbs Office, Wayne Price





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

September 13, 1994

CERTIFIED MAIL
RETURN RECEIPT NO.P-176-012-260

Mr. Jimmie Cooper C&C Land Farm Box 55 Monument, New Mexico 87504

RE: Oil Conservation Division

Case No. 11086

Request to Expand C&C Landfarm

Dear Mr. Cooper,

The Oil Conservation Division (OCD) has received your request, dated July 15, 1994, for authorization to expand your existing facility to include an additional 40 acres. Pursuant to this request and opposition expressed by Mr. Tom Kellahin on behalf of his clients, the OCD set for hearing on September 15, 1994 this request before the Division Hearing Examiner. The OCD now recognizes that this case was set for hearing before the administrative review of the expansion request had been completed. This hearing has been cancelled.

The administrative procedure for review of your request dated July 15, 1994 will be for the OCD to complete the evaluation of all technical information, provided initially or supplementally at the request of the OCD. The OCD will then administratively approve or deny the request. If administrative approval is granted, conditions of approval will be drafted and provided to all interested parties for review. If any person expresses technical opposition to these conditions of approval they may request a hearing on these conditions and/or recommend additional conditions of approval.

The OCD will give all protesters the opportunity to evaluate the application and respond with substantive technical information. Active participation by informed neighboring landowners can be very useful to the OCD to insure that the facility is permitted with appropriate operational requirements.

If you have any questions please call me at (505) 827-5824.

Sincerely,

Chris Eustice

Environmental Geologist

xc:

OCD-Hobbs Office, Jerry Sexton

OCD-Hobbs Office, Wayne Price

W. Thomas Kellahin, Esq. William F. Carr, Esq.





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY September 8, 1994

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL RETURN RECEIPT NO.P-176-012-239

Mr. Jimmie Cooper C&C Land Farm Box 55 Monument, New Mexico 88265

RE: Request to Add Additional Berm Material to Land Farm Lea County, New Mexico

Dear Mr. Cooper,

The Oil Conservation Division (OCD) has received your request, dated July 8, 1994, for authorization to use 352 yards of petroleum contaminated soil and rock received from Enron Corporation to modify and expand the existing berm at the land farm. Your request is hereby denied due to the high level of petroleum contamination in the material.

Soils remediated at the land farm are required to have a total petroleum hydrocarbon content (TPH) of 100 parts per million (ppm) TPH prior to removal from the landfarm. Soils brought to the land farm are to be remediated The soils proposed are of a TPH concentration in excess of 100 ppm.

If you have any questions in regard to this denial call me at (505) 827-5824.

Sincerely,

Chris Eustice Geologist

cc:

OCD-Hobbs Office, Jerry Sexton OCD-Hobbs Office, Wayne Price

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Affidavit of Publication

STATE OF NEW	MEXICO)	
)	S
COUNTY OF LE	A)	

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 xxxx and year entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, one was a supplement thereof, one was a supplement thereof, one was a supplement thereof. SAMEN X RECORD TO SAMEN consecutive with the issue of July 12 and ending with the issue of July 12 And that the cost of publishing said notice is the 40.68 sum of \$... which sum has been (Pajd) (Assessed) as Court Costs

Swoscribed and sworn to before me this

Notary Public, Lea County, New Mexico
Sept. 28 94

July

My Commission Expires

day of

LEGAL NOTICE
NOTICE OF
PUBLICATION
STATE OF
NEW MEXICO
ENERGY, MINERALS
AND NATURAL
RESOURCES
DEPARTMENT
OIL CONSERVATION
DIVISION

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following permit modification has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505)827-5800:

C&C Landfarm Inc., Eddy W. Seay, Agent, Box 55, Monument, New Mexico, 88265, has submitted an application to modify their previously approved commercial landfarm located in the NE/4 of Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. The facility currently remediates RCRA exempt and characteristically non-hazardous hydrocarbon contaminated soils by spreading them on the ground surface in 6 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. The modification proposes to expand the facility to the north 40 acres. Groundwater most likely to be affected by any accidental discharges at the surface is not known to be present in the area of 1/2 mile from the boundary of the facility. The facility is underlain by redbeds ranging in thickness from 430 feet to 1200 feet. The permit - application addresses the construction, operations, spill/leak prevention and monitoring procedures to be utilized at the site.

AND THE STATE OF THE STATE OF 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 permit modification 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 permit modification, 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 affected person. Requests/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 interest.

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

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 6th day of July, 1994.

STATE OF
NEW MEXICO
OIL CONSERVATION
DIVISION
WILLIAM LEMAY,
Director

SEAL Published in the Lovington Daily Leader July 12, 1994.

gull Mary same copy of an invoice (initialed) KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

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EL PATIO BUILDING

II7 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

W. THOMAS KELLAHIN*

JASON KELLAHIN (RETIRED 1991)

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION

August 11, 1994



HAND DELIVERED

Mr. William J. LeMay Oil Conservation Division State Land Office Building 310 Old Santa Fe Trail, 2nd Floor Santa Fe, New Mexico 87501

Re: REQUEST FOR HEARING AND STATEMENT OF OBJECTIONS

In the matter of the application of C & C Landfarm, Inc. for expansion of a commercial surface waste disposal facility, Lea County, New Mexico.

Dear Mr. LeMay:

On behalf of W. T. (Trent) Stradley and S-W Cattle Co., please find enclosed our referenced Request for Hearing and Statement of Objections which we request be set for hearing before a Division Examiner.

W. Thomas Kellahin

w/ Enclosure:

cc: C. Gene Samberson, Esq.

cc: Eddie Seay, agent for C & C Landfarm, Inc.

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

IN THE MATTER OF THE REQUEST OF C & C LANDFARM, INC. FOR EXPANSION OF A COMMERCIAL SURFACE WASTE DISPOSAL FACILITY, LEA COUNTY, NEW MEXICO

REQUEST FOR HEARING AND STATEMENT OF OBJECTIONS BY S-W CATTLE CO. AND W. TRENT STRADLEY

Comes now W. T. (Trent) Stradley and S-W Cattle Co. ("the Opponents") by and through their attorneys, C. Gene Samberson, Esq. and W. Thomas Kellahin, Esq. and object to the New Mexico Oil Conservation Division granting the request of the applicant, C & C Landfarm, Inc. ("C&C"), to expand/modify its existing facility in the NE/4 of Section 3, T20S, R37E, Lea County, New Mexico, and in support states:

INTRODUCTION

Gene Samberson, attorney for W. T. Stradley, happened to read a copy of the Lovington Daily Leader on Tuesday, July 12, 1994 in which notice by publication was being attempted by the New Mexico Oil Conservation Division for the modification by C & C Landfarm, Inc. of its commercial landfarm facility located in the NE/4 of Section 3, T20S, R37E, NMPM, Lea County, New Mexico;

Request for Hearing and Statement of Objections Page 2

On August 8, 1994, a search of the New Mexico Oil Conservation Division ("NMOCD") files on the C&C's application were made and copies of all relevant documents were provided by Roger Anderson, Environmental Bureau Chief, New Mexico Oil Conservation Division ("NMOCD-EB"), concerning this application. C&C's submittal to the NMOCD consists of a single page letter attached as Exhibit "A" hereto.

(1) INADEQUATE NOTICE

Since April, 1992, the Opponents have complained about receiving inadequate notice from both the NMOCD and this applicant about this facility, including the NMOCD-EB approving this facility and the various amendments to that Application. The notice in this case is flawed and continues to violate due process.

Order R-9769-A perpetuated that violation of procedural due process by approving (contrary to NMOCD Rule 1207(11) and Rule 711) an order which allows amendments to this facility to take place without public notice or hearing. The OCD Conditions appended to Order R-9769-A, specifically, OCD Conditions #1 and #10 set up a process for the Applicant to expand its waste facility to accept other contaminates and to do so without public notice or public hearing.

The Opponents and their participation in this matter before the NMOCD is well known to both C&C and the NMOCD. Yet, rather than send actual written notice to the Opponents, both C&C and the NMOCD are attempting to rely exclusively upon notice to the Opponent by newspaper publication. Fortunately for the Opponents, Mr. Samberson happened to read the notice.

In no other proceeding before it does the NMOCD attempt to rely exclusively upon newspaper publication as adequate notice. Yet in this case, C&C is attempting to modify and expand its facility again without actual notice to the Opponents and without a public hearing.

Request for Hearing and Statement of Objections Page 3

(2) FAILURE TO COMPLY WITH DIVISION RULE 711

NMOCD Rule 711 requires that prior to the enlargement or a modification of a commercial surface waste disposal facility, a detailed application for such a modification/enlargement to an existing permit shall be filed with the NMOCD-Santa Fe to be accompanied with attachments addressing some eleven different enumerated items.

A search on August 8, 19094 of the NMOCD files on this matter revealed that the applicant filed a one page letter dated Jun 15, 1994 and nothing else. Applicant failed to comply with the Division Rule 711 and its request must be dismissed.

(3) RULE 711 NOTIFICATION

Rule 711 further requires written notification to the owners of the surface lands and occupants within one-half (1/2) mile. S-W Cattle Co. and W. T. Stradley are such owners/occupants and were not and have not been notified as required by Division Rule 711.

The applicant failed to comply with the notice requirements of Rule 711 and its request must be denied.

(4) OCD-ENVIRONMENTAL REGULATIONS VIOLATE DUE PROCESS

The Division is utilizing a complex set of rules and regulations (some of which are contrary to and inconsistent with existing Division rules and regulations) with which to process C&C's application and by which to establish operational regulations for this facility and to monitor compliance.

None of these environmental rules and regulations ever has been properly adopted by the Division. (See NMOCD Rule 1201).

Request for Hearing and Statement of Objections Page 4

The NMOCD, by avoiding its public hearing process (See NMOCD Rule 1201 and its general notification procedures (See NMOCD Rule 1207) has allowed its Environmental Bureau to unilaterally promulgate rules and regulations and issue amendments which are disguised as "guidelines" and in doing so has precluded both the oil and gas industry and the public from having meaningful comment, objection and input.

However well intended, such procedures are a violation of procedural due process and have resulted in invalid rules and regulations which the NMOCD is currently applying in this case.

(5) ENVIRONMENTAL BUREAU ACTIONS

The subject facility is being designed by the OCD and not the Applicant and is being permitted without any science or experience to know that it will work. This has been and continues to be a "make it up as you go" process by which the agency designs the specifications for the facility and then challenges the Opponents to prove them wrong. Such an adversarial role is not the proper role for this agency.

The Environmental Bureau-OCD based upon a phone call and a one page letter from the applicant apparently has undertaken C&C's burden to provide the necessary data to support such an application. Rather than functioning as a reviewing regulatory agency, the NMOCD-EB in this case has taken a facilitator's role by providing technical support and assistance to the applicant.

The methods used by the Division in processing this case violates procedural due process.

In its efforts to accommodate the requests of a former NMOCD employee, Eddie Seay, consultant for C&C, the Environmental Bureau's actions in this case have impaired and tainted its ability to be perceived as impartial.

Request for Hearing and Statement of Objections Page 5

This matter should be set for hearing before a Division Examiner in order to afford the Opponents their right to have such matters determined by an impartial hearing examiner.

(6) APPEAL OF ORIGINAL APPROVAL

Commission Order R-9769-A is fatally flawed and is still pending an appeal hearing in State District Court in the Fifth Judicial District for Lea County, New Mexico. Any action on this application to modify/expand this facility must be stayed pending a decision by the District Court in Case CIV 93-247.

(7) TWO AQUIFERS TO BE PROTECTED

One of the aquifers at risk is the Stradley Aquifer in the shallow alluvium down slope from the proposed waste facility. The issue is where are the vertical and horizontal limits of that aquifer and its recharge system.

Mr. Stradley, who has been over every part of this "White Break" area for decades, will testify that the original facility and its proposed expansion are located on the northeast edge of a natural topographical depression with his fresh water windmill located in the bottom of that depression and in excess of 30 feet lower than the surface waste facility.

A visual inspection of the surface of the facility allows the observer to infer that the surface topography would increase the risk of contamination to the Stradley Aquifer. The Division's records on this case already contain evidence of an extensive search of the State Engineer's records concerning fresh water wells in the area which show the presence of some forty-six (46) water wells in the area.

Mr. Tim Kelly, an expert hydrologist, will also testify and conclude that the likely direction of contaminant movement from the waste facility will be down gradient along the redbed surface; that there have been no Request for Hearing and Statement of Objections Page 6

hydrologic studies of the area to determine gradients and therefore no way to know the length of time and distance of travel of the contaminants, tat there has been no scientific study of the redbeds and the movement cannot be predicted. His point will be that the Division originally should not have approved this facility and cannot approve this expansion/modification until that determination is made.

In addition, the Ogalalla aquifer also is present under the waste facility. If the Division wants to decide this case based upon the presence or absence of the Ogalalla aquifer under the facility, then the fact is the Ogalalla aquifer IS PRESENT UNDER this surface waste facility.

(8) APPLICANT HAS NOT PRESENTED SUBSTANTIAL SCIENTIFIC STUDY ABOUT THE STRADLEY AQUIFER

C&C now seeks to expand and modify a facility which was improperly approved by the Division in the first place. It is C&C's burden of proof to demonstrate to the Division that the expansion of this facility will not harm the fresh water aquifer.

C&C has yet to provide evidence of the size, shape and hydrology of the Stradley Aquifer from which the Stradley windmill produces fresh water which continues to be a failure of the Applicant to meet its "Burden of Proof."

The ultimate factual issue for this expansion and its original facility is whether this surface waste facility creates a risk of contamination to the fresh water aquifer from which Trent Stradley's well has produced continuously in excess of forty-five (45) years and is the only fresh water supply for cattle in some nine sections and is referred to herein as the "Stradley Aquifer."

To answer that issue, it is essential for the Division to have proper scientific evidence about the Stradley Aquifer including its size, shape and

Request for Hearing and Statement of Objections Page 7

recharge mechanics. C&C has never submitted such scientific evidence and that failure of evidence is fatal to its case.

The fact that the Applicant did not find the Stradley Aquifer with some five shallow monitor wells drilled on the proposed facility does not substitute for a proper hydrologic study to determine the risk to the Stradley Aquifer. Contaminates can be introduced on the surface and with the introduction of rain will percolate into the ground both vertically and horizontally and migrate into the Stradley Aquifer.

Nobody knows how the Stradley Aquifer is recharged and from what source. Nobody knows the size and shape of the Stradley Aquifer. The Division up until now has ignored that absence of evidence and in doing so, failed to decide the ultimate issue in this case.

It is the Applicant's Burden of Proof and not the NMOCD or the Opponents' burden, to produce the hydrologic study of the Stradley Aquifer which must provide convincing evidence that no risk was being imposed upon the Stradley Aquifer by this waste facility.

(9) APPLICANT HAS NOT PRESENTED ANY PROPER SCIENTIFIC STUDY ABOUT THE EXPANSION OF THIS FACILITY

C&C has submitted no scientific data on soils tests and therefore no compaction data, no composition data, and permeability data from which to determine the construction and maintenance standards for the berm. Further C&C does not detail the constructions, maintenance or operations requirements for the berm.

In addition, the Applicant has failed to provide evidence as to any of the following:

- (1) composition samples and tests
- (2) soil samples and tests
- (3) compaction tests

Request for Hearing and Statement of Objections Page 8

- (4) permeability tests
- (5) Cation Exchange capacity tests
- (6) liquid and plastic tests of the redbeds
- (7) any soil properties tests and data
- (8) any hydrology studies
- (9) any groundwater studies
- (10) any percolation tests or data
- (11) any ground water migration tests/data
- (12) any contaminant mobility tests/data

(10) NEED FOR ADEQUATE HORIZONTAL BUFFER ZONE:

A Buffer Zone is essential but the proper distance must be based upon some site specific scientific reasons to determine that distance is adequate. There is no scientific basis for the distance being 100 foot horizontal setback ("buffer") as recommended by Kathy Brown of the OCD-EB. The adoption of an arbitrary distance for the Buffer Zone without any scientific basis is objected to by the Opponents.

(11) TREATMENT ZONE MONITORING

In Order R-9769-A, a mistake was made when it adopted the OCD-EB proposed conditions concerning the Treatment Zone and its Monitoring. The OCD-EB speculated that the first three feet of native soils will be an adequate "Treatment Zone" and with monitoring will protect ground water.

Again, Kathy Brown, previously testified in support of the adoptions of the OCD-EB conditions was not a qualified expert hydrologist and did not undertake an adequate scientific study to justify its Treatment Zone Monitoring.

The proposed monitoring of the Treatment Zone has no scientific basis for determining its reliability. There is no data from which to determine that the location of the cells in which the contaminated soils will Request for Hearing and Statement of Objections Page 9

be placed have been located an adequate distance from either the excavated pits or from the boundary of the adjoining Stradley property. Nobody knows how frequently to sample and how many samples per acre to take in order to detect contamination in the Treatment Zone.

The OCD-EB Revised Recommendations are inadequate to detect any leaching process of movement of contaminants that could cause the pollution of nearby fresh water supplies.

In summary, should the Division use the former OCD-EB recommendations for this facility, they will be inadequate to provide reasonable protection of the valuable groundwater present in the immediate adjacent tracts.

Any approval of this expansion should correct the inadequacies made in the Order R-9769-A.

OPPONENTS OFFER OF PROOF

The Opponents WILL PRESENT evidence that the granting of this application by the Division will failed to protect human health and the environment and will constitute a risk of contamination of ground water, including the following:

- (a) The Applicant's proposed plan will place at risk shallow water wells located down-dip from the proposed landfarm which will be subject to contamination from seepage of leachate contaminants.
- (b) The Applicant's plans to prevent migration of contaminants down gradient along the redbed surface is inadequate.
- (c) The proposed monitor wells are improperly located and will not afford adequate assurance of detection of contaminants.

Request for Hearing and Statement of Objections Page 10

- (d) The proposed dike identified in OCD Condition (10) in said Order is insufficient and conditions on compaction and verification are inadequate to stop the mobility of the leachate contaminants.
- (e) The composition of the berm is not environmentally safe.
- (f) Additional soil tests should be performed on the redbed soil including:
 - (1) Falling head permeability tests,
 - (2) Soil property tests,
 - (3) Cation Exchange Capacity tests,
- (g) Applicant needs to perform liquid and plastic tests on the redbeds.
- (h) The Applicant's proposed barrier is inadequate for its proposed landfarm.
- (i) Applicant's geology is inadequate and fails to include an east-west cross section.

The OCD-Environmental Bureau has previously assumed that the contaminated soils will be kept from any shallow fresh water because of about three (3) feet of native soil is to be used as a "treatment zone."

There is no characterization of the "redbeds." In this area there are the Triassic deposits, probably the Chinle shale, and referred to as the "redbeds." The integrity of this landfarm system is dependent upon the impermeability of the redbeds, but the Applicant has presented no data about the physical characteristics of these deposits, such as cation exchange rates, in-situ permeability, remolded permeability at specified compaction ratios, swelling characteristics, etc. All of these are critical factors that ensure that there would be no migration of leachate along the top of or through the redbeds.

Request for Hearing and Statement of Objections Page 11

There are inadequate horizontal and vertical buffer zones surrounding this proposed facility. The configuration of the upper surface of the redbeds in the 40-acre tract has not been defined.

RECOMMENDATIONS

Opponents recommend to the Division that the request to expand/modify this facility be DENIED.

Respectfully submitted,

KELLAHIN AND KELLAHIN,

W. Thomas Kellahin, Esq.

P.O. Box 2265

Santa Fe, New Mexico 87504

(505) 982-4285

C. Gene Samberson, Esq.

P. O. Drawer 1599

Lovington, New Mexico 88260

(505) 396-5303

ATTORNEYS FOR OPPOSITION-

W.T. STRADLEY

S-W CATTLE CO.

EDDIE SEAY
CONSULTING

PEAK CONSULTING SERVICES



601 W. ILLINOIS HOBBS, NEW MEXICO 88240 7 7 (505) 392-2236 FAX (505) 392-6949

部 8 50 ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS

June 15, 1994

HE JOHSER -

Ms. Kathy Brown NMOCC Box 2088 Santa Fe, NM 87504-2088

SUBJECT: C & C Landfarm, Inc.

Dear Kathy:

As we discussed a few weeks earlier, C & C would like to expand its boundaries to add an additional 40 acre tract to our facility.

This additional 40 acres is conjoined with the existing facility and only separated by our berms and buffer zone. The property is in Unit Letter B NW 1/4 NE 1/4. The property is deeded land owned by Jim Cooper and family, and all the offset landowners will be the same as on original application.

C & C will operate this property under the same conditions as stated in our original permit.

If additional information is needed or if you have questions, please call.

Sincerely,

Eddie W. Seay, Agent



UNITED STATES DEPARTMENT OF THE INTERIOR

OIL CONSERVE ON DIVISION

RECE. VED

FISH AND WILDLIFE SERVICE Ecological Services

194 JU 21 AM 8 50

Suite D, 3530 Pan American Highway, NE Albuquerque, New Mexico 87107

July 18, 1994

William J. Lemay, Director New Mexico Water Quality Control Commission Oil Conservation Division State Land Office Building P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. Lemay:

This responds to your agency's public notice dated July 6, 1994, regarding the State of New Mexico's proposal to renew the discharge plan for the applicant listed below.

C & C Landfarm Inc., Eddy W. Seay, Agent, Box 55, Monument, New Mexico, 88265 The applicant has submitted an application to modify their previously approved commercial landfarm located in the NE¼ of Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. The facility remediates RCRA exempt and characteristically non-hazardous hydrocarbon contaminated souls by spreading them on the ground surface in 6-inch lifts or less, and periodically disking them to enhance biodegradation of contaminants. The requested permit modification would allow the facility to expand its operation on an adjacent 40-acre tract of land located north of the present site.

We believe that it is unlikely that increasing the size of the existing landfarm will adversely impact any federally-listed threatened or endangered species. However, landfarm activities also should not be permitted to adversely affect migratory birds. Even if the Oil Conservation Division (OCD) cannot formally require the permittee to contact either the U.S. Fish and Wildlife Service (Service) or the New Mexico Department of Game and Fish in the event of significant fish or wildlife die-offs, a copy of this letter or other informal notification could be made available to the operators. We would be happy to work with your agency in this regard.

Our intent in requesting OCD to inform permittees about the necessity of preventing adverse impacts to wildlife is hopefully to be able to intercede before any problems that may occur become serious, thus requiring law enforcement intervention. Early detection of wildlife die-offs, coupled with prompt notification of wildlife officials can often avert serious wildlife mortality. Failure to enlist the assistance of the Service in the prevention and resolution of migratory bird die-offs could result in permittees for landfarms (or other facilities) being held liable under the enforcement provisions of the Migratory Bird Treaty Act (MBTA). The MBTA makes it unlawful for anyone at anytime or in any manner to take (i.e., pursue, hunt, take, capture, kill, transport, or possess) any migratory birds unless authorized by a permit issued by the Department of the

Interior. Illegal take has been interpreted by the courts to include, among other things, accidental poisoning or accumulation of harmful levels of contaminants by migratory birds, even if the contamination event was accidental or the perpetrator was unaware of the fact that his/her actions (or failure to take action) could ultimately prove harmful to migratory birds. The strict liability enforcement provisions of the MBTA precludes the necessity of proving intent and permits criminal prosecution of persons, associations, partnerships, or corporations which inadvertently or intentionally kill or illegally take one or more migratory birds.

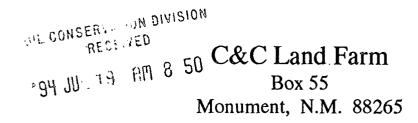
Thank you for the opportunity to review and comment on this discharge plan application. If you have any questions concerning these comments, please contact Mark Wilson at (505) 883-7877.

Sincerely,

Jennifer Fowler-Propst State Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico



July 8, 1994

Mr. Roger Anderson New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, N.M. 87504

Re: Permission to add additional berm material to land farm.

Dear Roger,

C & C Land Farm received 352 yards of contaminated rock and soil from Enron in Hobbs, N.M. analytical provided by Enron is also attached. Eighty percent of this is caliche rock, and at this time we would like OCD's approval to use a blade to roll the rock to the inside of the existing berm. In doing this we will increase the width and the integrity of the north berm while at the same time keeping the contaminated rocks and soil in the land farm where remediation can begin.

Thank you for your consideration in this matter.

ANIVIN

Sincerety,

Jimmie T. Cooper President C&C

> cc: Wayne Price Jerry Sexton

> > Eddie Seay

Mike Kneese Enron

(505)366-6613 PAX	(505)344-3777 - (505)	87107 - (505)3	Albuquerque, NM	Preeway NE - Alb	Pan American Pr	Inc 2709-D P.	Technologies, In	malytical
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TEST

: BTEX, MTBE (EPA 8020)

CLIENT

: Enron Gas

ATI I.D.: 406339

PROJECT #

: 002891

PROJECT NAME : C & C

SAMPLE					DATE	DATE	DATE	DIL.
ID. #	CLIENT	I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	940906	HOBBS	1 NP	NON-AQ	06/09/94	06/10/94	06/10/94	1
02	940906	HOBBS	1 SP	NON-AQ	06/09/94	06/10/94	06/10/94	1
03	940906	HOBBS	1 NP	Non-yo	06/09/94	06/10/94	06/10/94	1
PARAME	TER				UNITS	01	02	03
BENZEN	E				MG/KG	<0.025	<0.025	<0.025
TOLUEN	E				MG/KG	<0.025	<0.025	<0.025
ETHYLB	enzene				MG/KG	<0.025	<0.025	0.44
TOTAL :	XYLENES				MG/KG	<0.025	0.14	0.89
METHYL	-t-Butyi	L ETHEI	₹		MG/KG	<0.12	<0.12	<0.12
SURROG	ATE:							
BROMOF	Luoroben	izene (	(&)			101	111	100

TEST

: BTEX, MTBE (EPA 8020)

CLIENT : ENRON GAS

ATI I.D.: 406339

PROJECT # : 002891

PROJECT NAME : C & C

SAMPLE						DATE	DATE	DATE	DIL.
ID. #	CLIENT	I.D.		_	MATRIX	Sampled	EXTRACTED	ANALYZED	FACTOR
04	940906	HOBBS	2	SP	NON-AQ	06/09/94	06/10/94	06/10/94	1
PARAME	TER		-	<del></del>		UNITS	04		
BENZEN	E		±17:4.5==			MG/KG	<0.025		
TOLUEN	E					MG/KG	<0.025		
ETHYLB	ENZENE					MG/KG	0.099		
Total	XYLENES					MG/KG	0.22		
METHYT.	t-BUTYI	LETHE	₹			MG/KG	<0.12		

#### SURROGATE:

BROMOFLUOROBENZENE (%)

102

TEST

: EPA 8015 MODIFIED

CLIENT

: ENRON GAS

ATI I.D.: 406339

PROJECT # : 002891

PROJECT NAME : C & C

SAMPLE			#1.08 <u></u>			DATE	DATE	DATE	DIL.
ID. #	CLIENT	I.D.			MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	940906	HOBBS	1	NP	NON-AQ	06/09/94	06/10/94	06/11/94	5
02	940906	Hobbs	1	SP	Non-Aq	06/09/94	06/10/94	06/11/94	5
03	940906	Hobbs	2	NP	NON-AQ	06/09/94	06/10/94	06/13/94	20
PARAME	tër		COST SOR			UNITS	01	02	03
FUEL H	YDROCARI	BONS				MG/KG	1700	1500	6100
HYDROCARBON RANGE C12-C36 C16-C36 C9-C36									C9-C36
HYDROCARBONS QUANTITATED USING DIESEL DIESEL I									DIESEL
SURROG	ATE:								
O-TERP	Henyl (a	<b>}</b> )					126	116	NA*

^{*}SURROGATE RECOVERY TO OBTAINABLE DUE TO SAMPLE DILUTION

TEST : EPA 8015 MODIFIED

CLIENT

: Enron Gas

ATI I.D.: 406339

PROJECT #

: 002891

PROJECT NAME : C & C

SAMPLE ID. # CLIENT I.D. MATR	DATE IX SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04 940906 HOBBS 2 SP NON-	AQ 06/09/94	06/10/94	06/11/94	5
PARAMETER	UNITS	04		
FUEL HYDROCARBONS	MG/KG	2300		
HYDROCARBON RANGE		C9-C36		
HYDROCARBONS QUANTITATED USING		DIESEL		

#### SURROGATE:

O-TERPHENYL (%)

83

# NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following permit modification has been submitted to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

C & C Landfarm Inc., Eddy W. Seay, Agent, Box 55, Monument, New Mexico, 88265, has submitted an application to modify their previously approved commercial landfarm located in the NE/4 of Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. The facility currently remediates RCRA exempt and characteristically non-hazardous hydrocarbon contaminated soils by spreading them on the ground surface in 6 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. The modification proposes to expand the facility to the north 40 acres. Groundwater most likely to be affected by any accidental discharges at the surface is not known to be present in the area of 1/2 mile from the boundary of the facility. The facility is underlain by redbeds ranging in thickness from 430 feet to 1200 feet. The permit application addresses the construction, operations, spill/leak prevention and monitoring procedures to be utilized at the 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 permit modification 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 permit modificationn, 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 affected person. Requests 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 public hearing is held, the Director will approve or disapprove the proposed permit modofication based on information available. If a public hearing is held, the director will approve or disapprove the proposed permit modification based on information in the application and information submitted at the hearing.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 6th day of July, 1994.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J/LEMAY, Director

SEAL

# RECORD OF PHONE CONVERSATION (W/CHRIS EUSTICE)

Date:	7-1-94 Time: 1000 A M
RE:	CiC fand farm request to build berms
	Edely Cray
Name:	Eddy Seary C&C Landfarm
Company:	_ c c Janafaru
C	é C put in a request to build borns 1 TPH contaminated soils. viso. Bureau denied this request.
18)	1 TPH containinated soils.
5.1	viso Buscale donied this societ
	on. pada will for ougoes.
$\overline{}$	E CO 10000 At 100 its to the low Olive
	EC spread the soils on the landfusure be remediated.
7	o be remediated.
· ·	/Followup:
	EC did not bird berus.
	Ley "pulled" Hu Trequest





#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OF DIVISION

#### OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

14 Mar at 14M 8 50

RE :- JED

**BRUCE KING** GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

#### NMOCD Inter-Correspondence

To:

Roger Anderson-Environmental Bureau Chief

From:

Wayne Price-Environmental Engineer District I

Date:

June 16, 1994

Reference:

C & C Landfarm

2 miles SE of Monument NM SW/4 NE/4 sec 3-Ts 20s-R37 e

Subject:

Requesting permission to construct berms out of caliche that is contaminated with low levels of hydrocarbons.

Comments:

Please find enclosed letter dated June 15, 1994 from Peak consulting services who represents C&C Landfarm Inc. They are requesting that certain caliche that was removed from a nearby gas plant be used as berm material inside of the existing landfarm. I inspected the site on June 14, 1994 and the material in question is primarily caliche from fine powered to rocks of 6 to 8 inches in size. Presently the material is being aerated and other material is going to be removed from it such as plastic, paper, etc.

The material has very little visual contamination and slight olfactory hydrocarbon smell. Analytical work has been performed on it by Enron and is attached for your review.

I recommend we allow them to use this material for berm material. From my observation it appears they will be using it on the north side of the landfarm. I am not sure if this is the external boundary or



not. If it is the external, then I recommend that a certain amount of compaction be designed into the berm.

Please let me know if you need any more info and the procedure to notify C&C.

Thanks!

cc: Jerry Sexton-District I Supervisor Attachments-2



PEAK
CONSULTING SERVICES



601 W. ILLINOIS HOBBS, NEW MEXICO 88240 (505) 392-2236 FAX (505) 392-6949

的 6 50 ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS

June 15, 1994

Ms. Kathy Brown NMOCC Box 2088 Santa Fe, NM 87504-2088

SUBJECT: C & C Landfarm, Inc.

Dear Kathy:

As we discussed a few weeks earlier, C & C would like to expand its boundaries to add an additional 40 acre tract to our facility.

This additional 40 acres is conjoined with the existing facility and only separated by our berms and buffer zone. The property is in Unit Letter B NW 1/4 NE 1/4. The property is deeded land owned by Jim Cooper and family, and all the offset landowners will be the same as on original application.

C & C will operate this property under the same conditions as stated in our original permit.

If additional information is needed or if you have questions, please call.

Sincerely,

Eddie W. Seay, Agent

# EDDIE SEAY CONSULTING

601 W. ILLINOIS HOBBS, NEW MEXICO 88240 (505) 392-2236 FAX (505) 392-6949

ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS





June 15. 1994

Mr. Wayne Price NMOCC P.O.Box 1980 Hobbs, NM 88240

SUBJECT: C & C Landfarm, Inc.

Dear Wayne:

As was discussed, C & C Landfarm, Inc., is receiving material from Enron Co. at our facility. The material which is being delivered for disposal is caliche with analysis below NMOCC guidelines for standards. C & C would like to use the material for additional berms within our landfarm area. We feel this will better utilize our space and the material will be within our permit area and will be monitored through our treatment zone.

Your consideration in this matter will be greatly appreciated.

Sincerely,

Eddie W. Seay, Agent

TEST

: BTEX, MTBE (EPA 8020)

CLIENT

: Enron gas

ATI I.D.: 406339

PROJECT # : 002891

PROJECT NAME : C & C

ON-AQ 06/09/94	06/10/94	06/10/04	
		06/10/94	1
Units	04	·	
MG/KG	<0.025		<del></del>
MG/KG	<0.025		
MG/RG	0.099		
MG/KG	0.22		
MG/KG	<0.12	-	
	MG/KG MG/KG MG/KG	MG/KG <0.025 MG/KG 0.099 MG/KG 0.22	MG/KG <0.025 MG/KG 0.099 MG/KG 0.22

BROMOFLUOROBENZENE (%)

102

TEST

: BTEX, MTBE (EPA 8020)

CLIENT

: Enron Gas

ATI I.D.: 406339

PROJECT # : 002891

PROJECT NAME : C & C

SAMPLE ID. #	CLIENT	I.D.		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALY2ED	DIL. FACTOR
01	940906	новаб	1 NP	NON-AQ	06/09/94	06/10/94	06/10/94	1
02	940906	HOBBS	1 SP	Non-Aq	05/09/94	06/10/94	06/10/94	1
03	940906	HOBBS	1 NP	NON-AQ	06/09/94	06/10/94	06/10/94	1
PARAME'	TER				UNITS	01	02	03
Benzen:	E				MG/KG	<0.025	<0.025	<0.025
TOLUEN:	E				MG/KG	<0.025	<0.025	<0.025
ethyls:	enzene				MG/KG	<0.025	<0.025	0.44
TOTAL :	XYLENES				MG/KG	<0.025	0.14	0.89
METHYL.	-t-Butyi	ethei	₹.		MG/KG	<0.12	<0.12	<0.12
SURROGI	ATE:							
Bromofi	Luoroben	IZENE (	(ಕ)			101	111	100

TEST : EPA 8015 MODIFIED

CLIENT

: ENRON GAS

ATI I.D.: 406339

Project #

: 002891

PROJECT NAME : C & C

SAMPLE ID. #	CLIENT	I.D.		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	940906	Hobbs	1	P NON-AQ	06/09/94	06/10/94	06/11/94	5
02	940906	Hobbs	1	P NON-AQ	06/09/94	06/10/94	06/11/94	5
03	940906	Hobbs	2 3	or-non	06/09/94	06/10/94	06/13/94	20
PARAMET	rer				UNITS	01	02	03
FUEL H	DROCARI	ens			MG/KG	1700	1500	6100
HYDROCARBON RANGE C12-C36 C16-C36 C9-C								C9-C36
Hydroci	arbons (	UANTI	TAT	D USING		DIESEL	DIESEL	DIESEL
eurrog <i>i</i>	ATE:							

O-TERPHENYL (%)

126 116 NA*

^{*}SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

TEST

: EPA 8015 MODIFIED

CLIENT

: Enron Gas

ATI 1.D.: 406339

PROJECT #

: 002891

PROJECT NAME : C & C

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	940906 HOBBS 2 SP	NON-AQ	06/09/94	06/10/94	06/11/94	5
PARAME	TER		UNITS	04-		-
FUEL H	YDROCARBONS		MG/KG	2300		
HYDROC	ARBON RANGE			C9-C36	;	
HYDROC	ARBONS QUANTITATED	USING		DIESEL.		

#### SURROGATE:

O-TERPHENYL (%)

83

#### STATE OF NEW MEXICO



### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT



OIL CONSERVATION DIVISION



#### **CERTIFIED - RETURN RECEIPT**

BRUCE KING

January 26, 1994

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

ANITA LOCKWOOD CABINET SECRETARY

Mr. Jimmie T. Cooper C&C Landfarm, Inc. Box 55 Monument, NM 88265

Re: Reeves v. OCC & C&C Landfarm, Inc.

Lea County District Court

Case CV 93-247

Dear Mr. Cooper:

Elsie Reeves, Trent Stradling and S-W Cattle Company have filed in the above case a petition for review of the Oil Conservation Commission order which approved your permit to operate a land farm in Lea County. Your were served with a summons in that appeal in November of 1993.

The Commission filed its response on June 24, 1993. As of this date you have not filed a response to the petition. Apparently you have not even contacted Mr. Carr, or anyone else, to represent you in the case.

C&C Landfarm, Inc., is the real party in interest in this case. If you do not respond to the petition, the Commission will not spend its time and resources to defend the decision. The District Court has set a docket call for February 4, 1994 in Lovington. You must enter an appearance through counsel and respond to the petition by that date, and your attorney must appear at the docket call, or the Commission will advise the Court that it does not intend to further participate in the proceeding.

If you do not act, it is likely that the Court will reversing the Commission order, in which case your permit will be withdrawn, and you will be required to close the landfarm. Therefore it is very important that you participate in this case.

If you retain an attorney, please have him contact the Division immediately.

Sincerely,

Robert G. Stovall, Division Counsel

et 6 Al

w. Thomas Kellahin, Esq.C. Gene Samberson, Esq.William F. Carr, Esq.

# **OCD FILES**

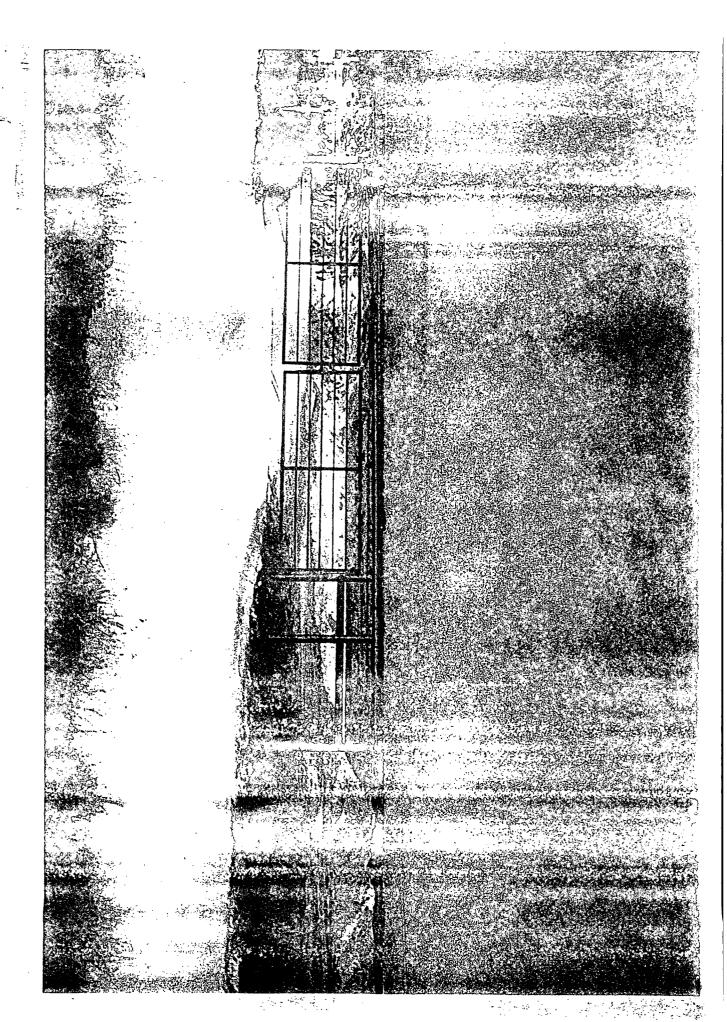
# 35MM DRAWINGS

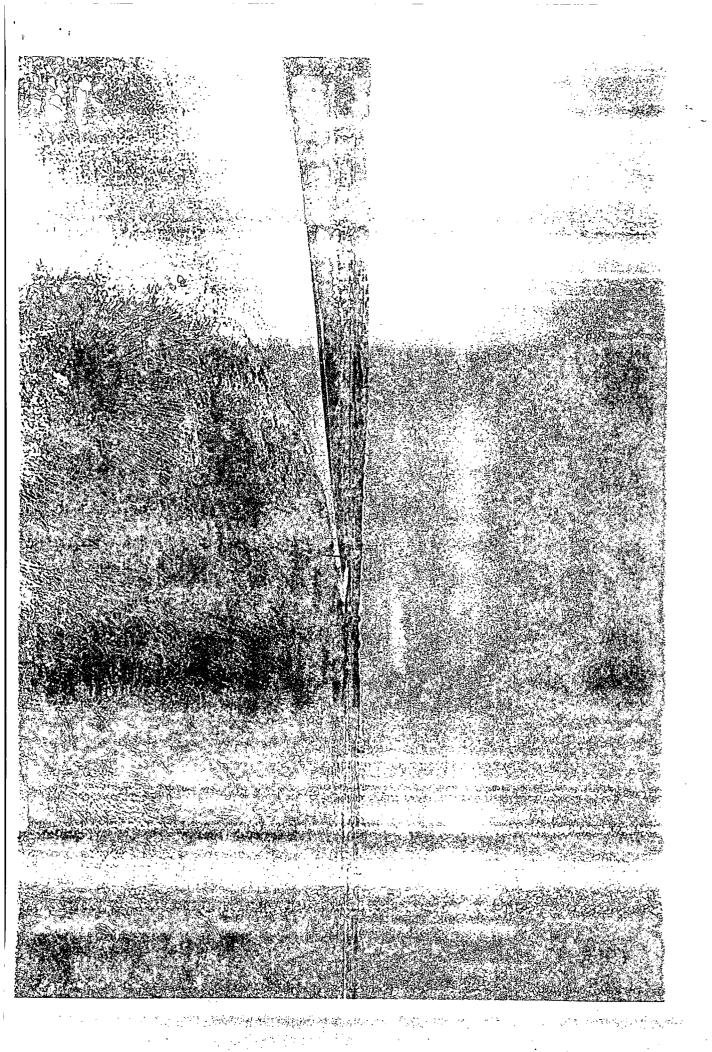
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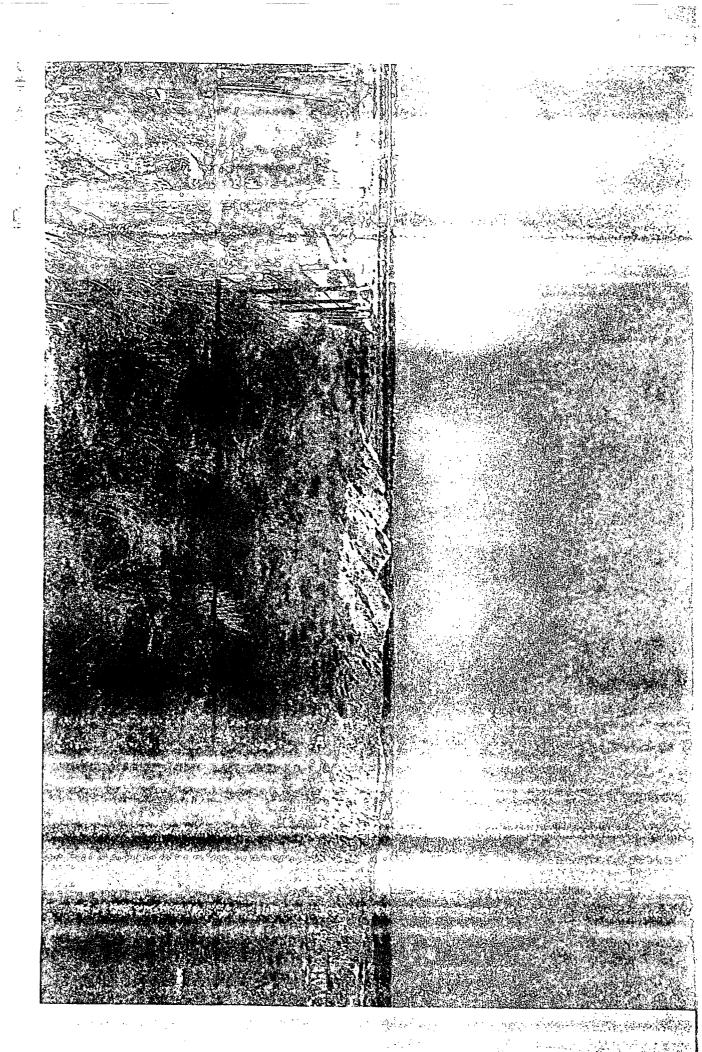
HOBBS, NEW MEXICO 8

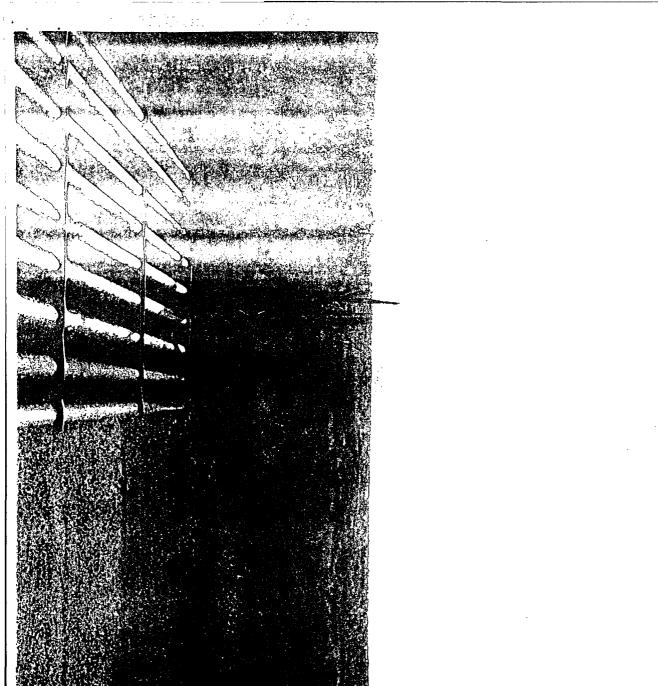
Information(Clarification) of Photographs:

- Entrance to Cooper Facility. Photograph from East to West.
- S-W Cattle Co. State Land with gravel pit. Photograph from <del>1</del>2 southeast corner of Cooper to the south.
- Photograph from southeast corner of Cooper to the west.
- #4 Photograph from southeast corner of Cooper to the east.
- #5 Photograph from southeast corner of Cooper to the north.
- Photograph of Cooper Facility from southeast corner showing decline of terrain to the west and southwest.
- #7 East monitor hole.
- #8 Middle monitor hole which is locate approximately 700' from southeast corner of Cooper Facility. Shows the decline of terrain and a draw that runs north and south - to the S-W Cattle Co. windmill.
- #9 Photograph from middle monitor hole to the northeast.
- #10 Southwest monitor hole on Cooper Facility.
- #11 Southwest monitor hole photograph from southwest corner of Cooper to the northeast.
- Photograph from southwest corner of Cooper Facility to the west showing north - south draw.
- #13 S-W Cattle Company windmill. Photograph taken from southwest corner of Cooper.
- S-W Cattle Company windmill. Photograph taken from southeast corner of Cooper Facility.
- #15 -Photograph of Cooper Facility taken from dry hole on BLM land (Conoco -Britt B23).
- #16 Photograph of windmill taken from dry hole on BLM land.
- #17 Photograph from windmill to northeast.

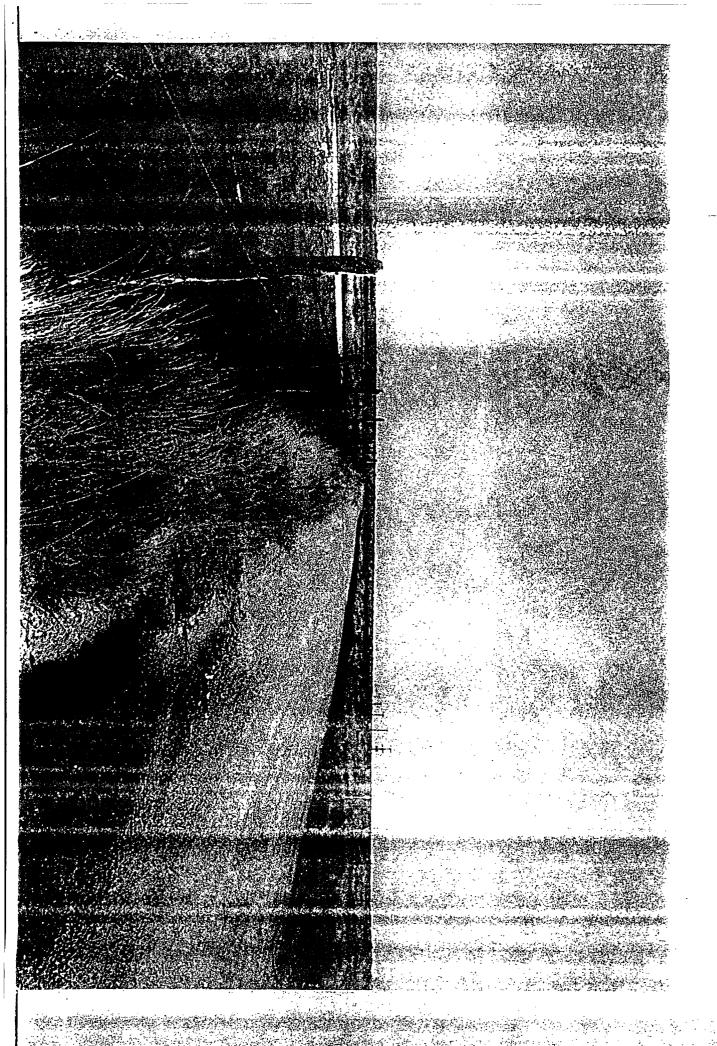




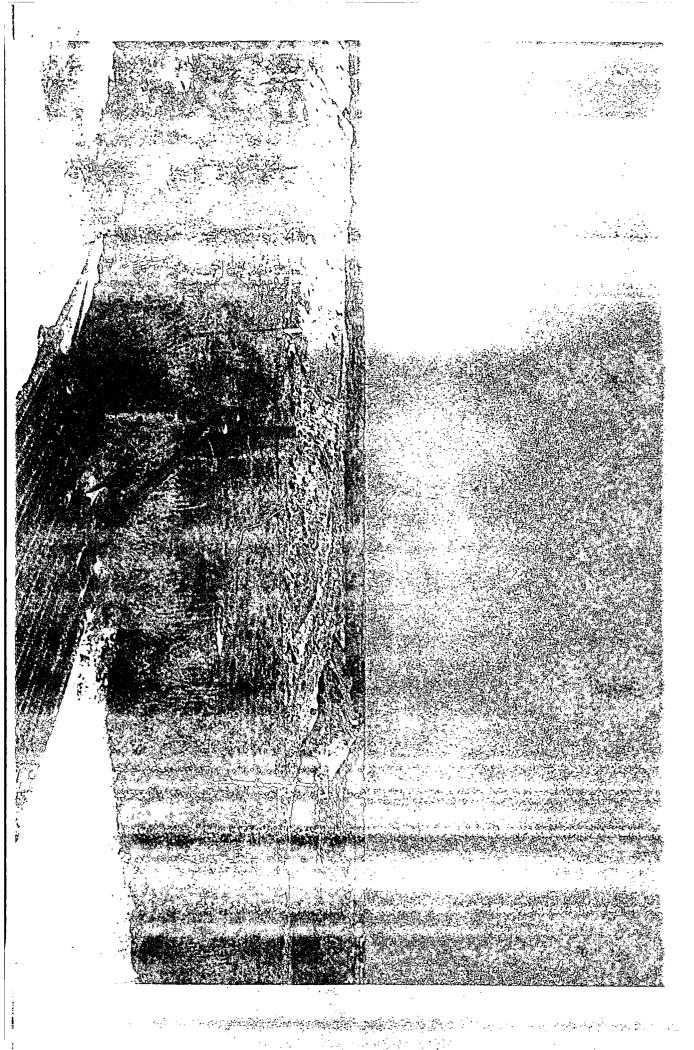


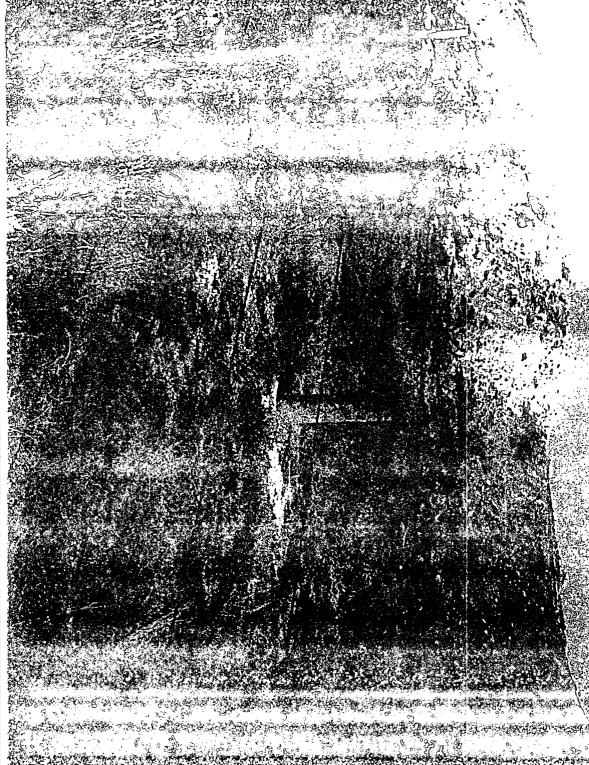


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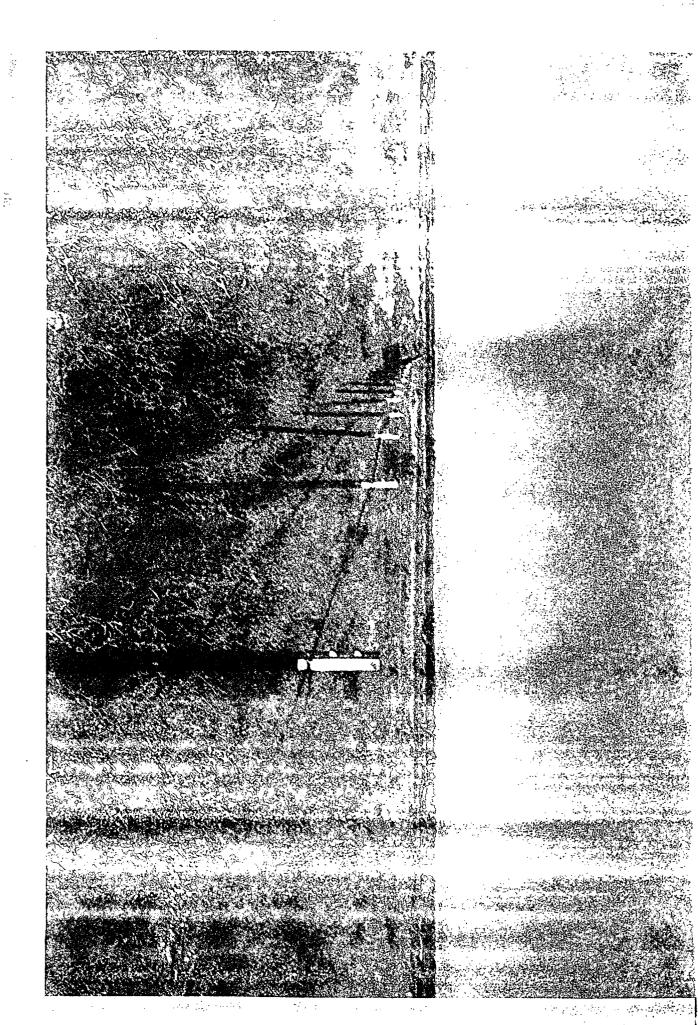


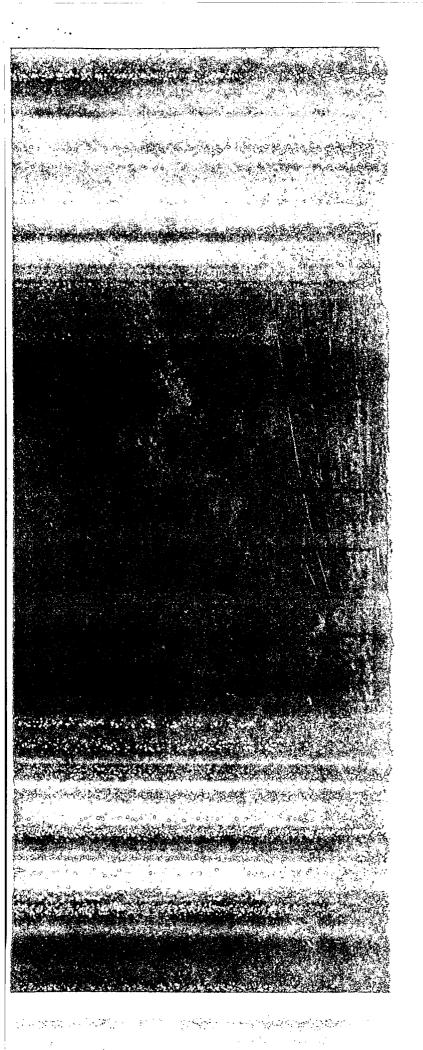
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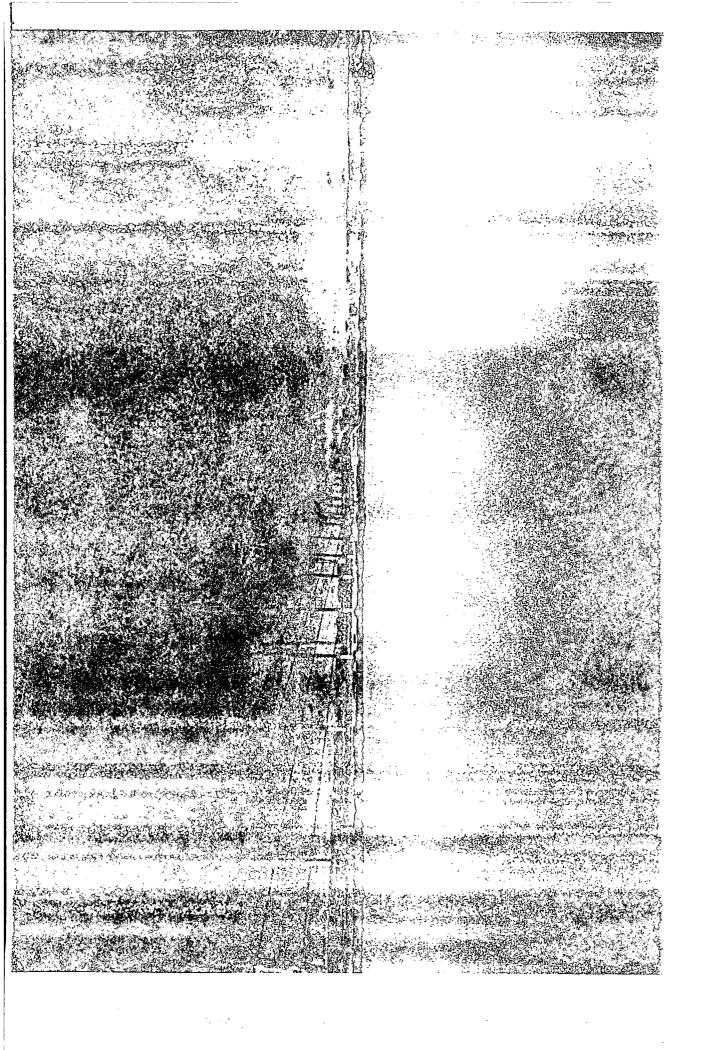
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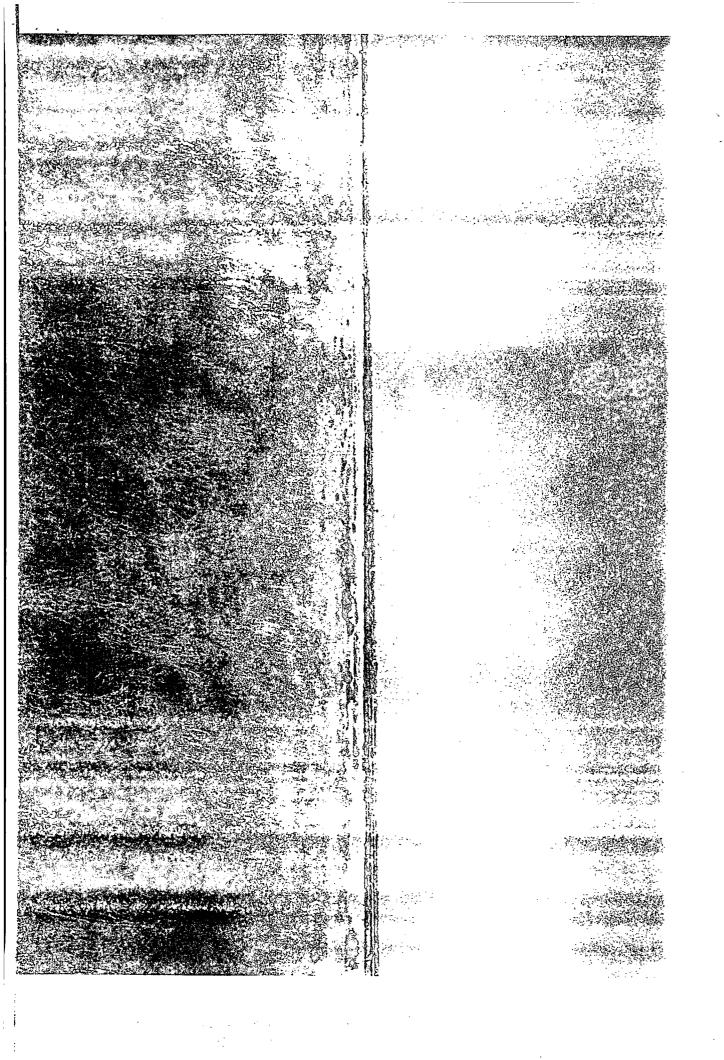




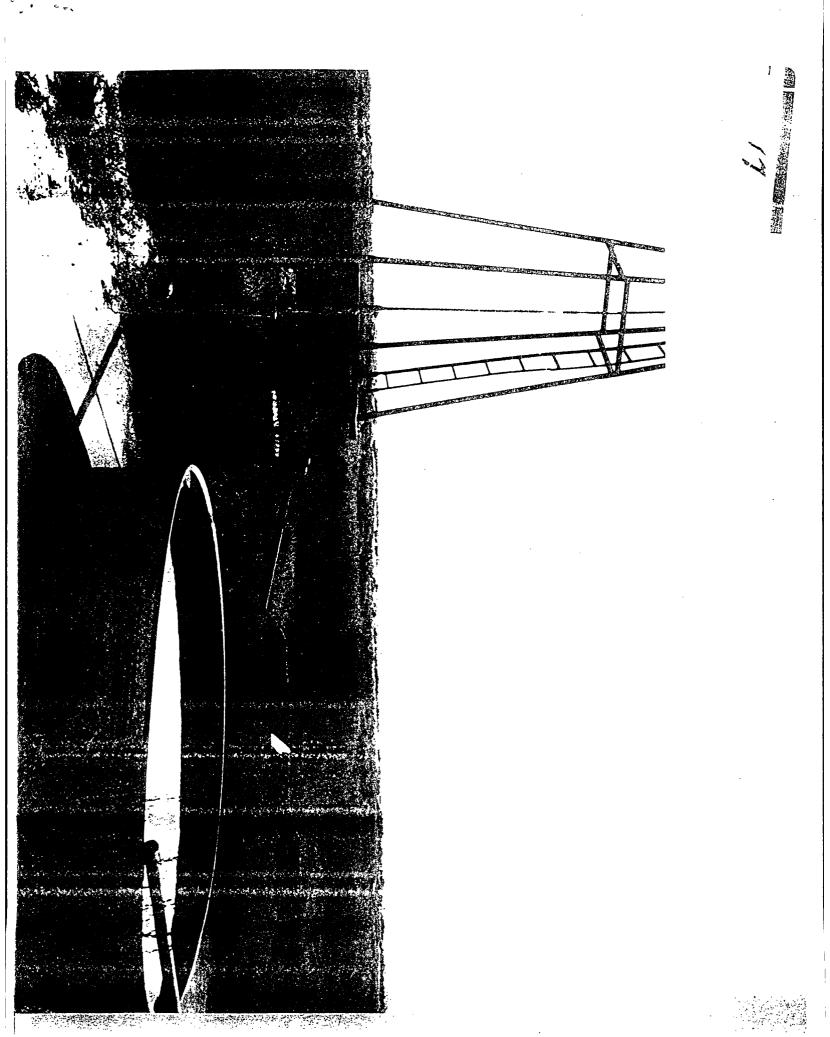
4, 641

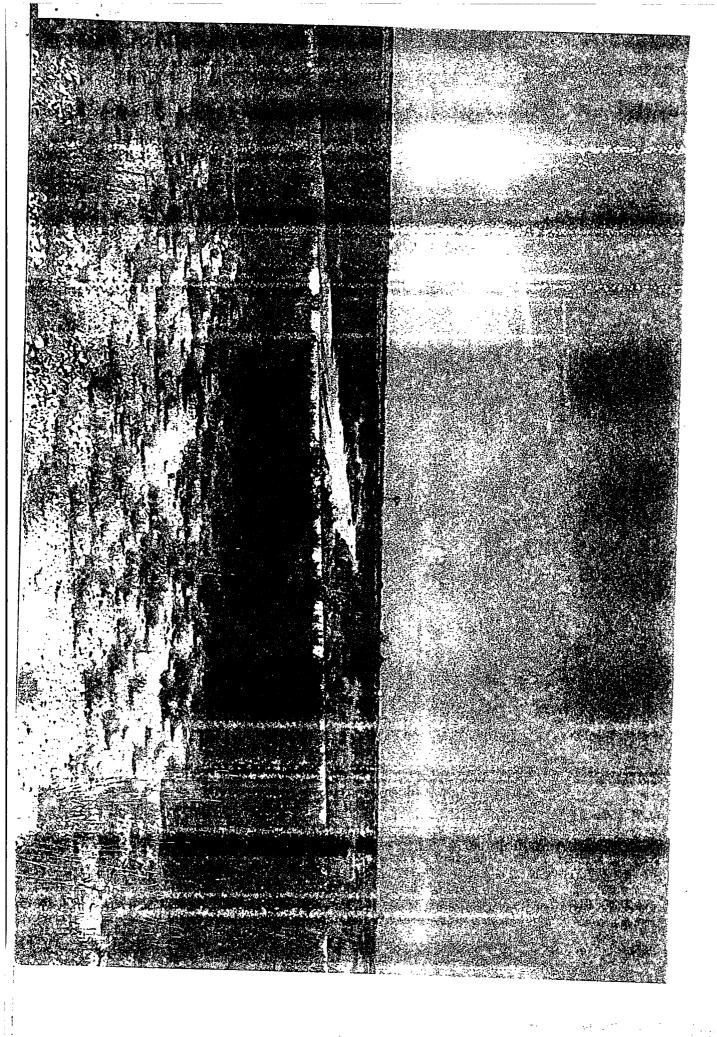


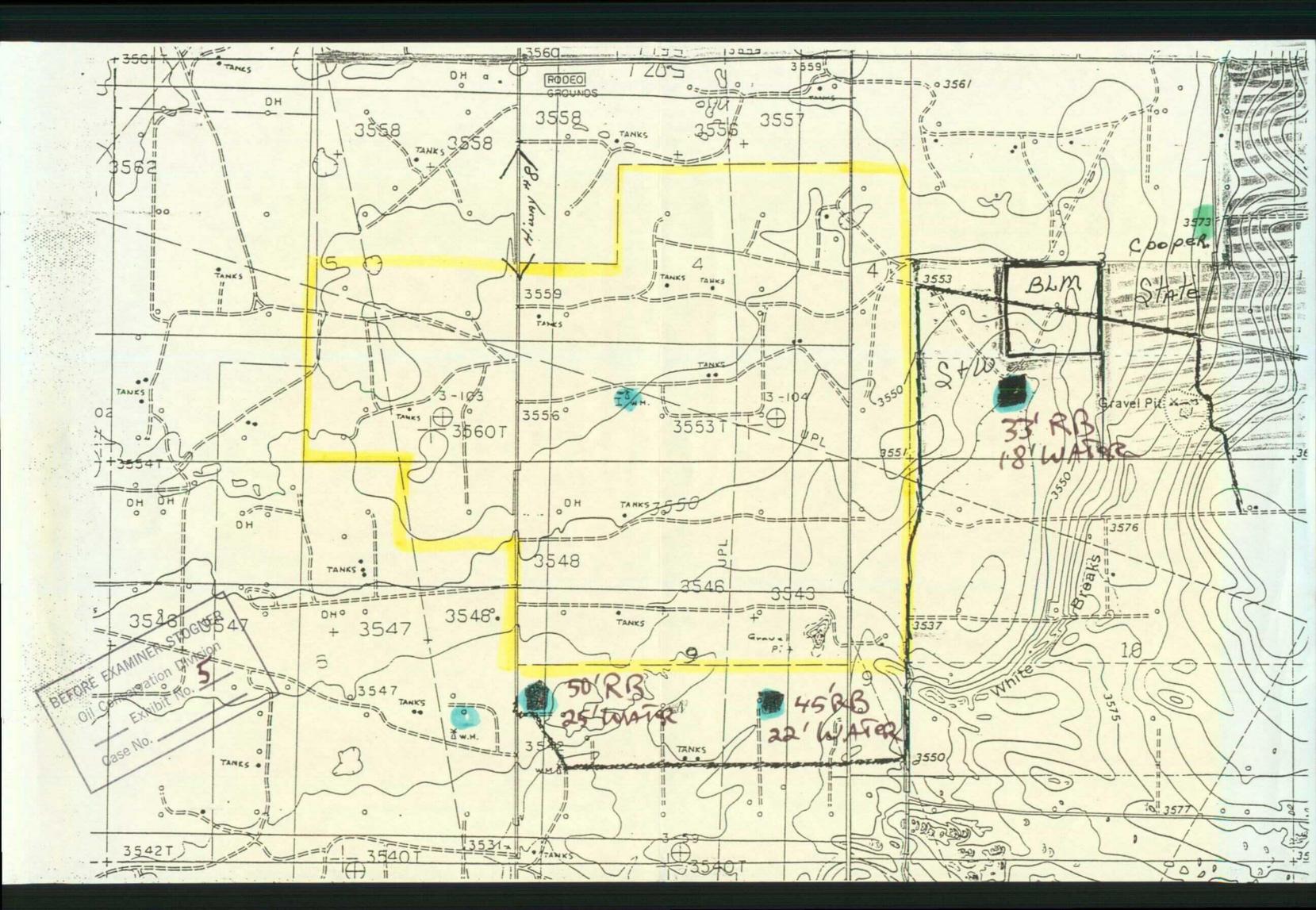
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# Water Wells Near the Facility With Depth to Water Level in Feet

E # 3

Before the
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 10501 Exhibit No.
Submitted By: S-W CATILE - REEVES
Hearing Date: FEB. 25 F133

#### Township 19 South, Range 37 East:

#1	Sec	33.4132	Water	Level	39 <b>′</b>	
#2	Sec	33.41341	Water	Level	35′	
#3	Sec	33.434	Water	Level	29′	
#4	Sec	33.442122	Water	Level	23′	
#5	Sec	33.442142	Water	Level	31,	
#6	Sec	33.44322	Water	Level	42′	
#7	Sec	33.44323	Water	Level	31′	
#8	Sec	33.44441	Water	Level	42′	
#9	Sec	33.444411	Water	Level	31'	
#10	Sec	34.111114	Water	Level	22'	
#11	Sec	34.11140	Water	Level	30 <b>′</b>	
#12	Sec	34.11223	Water	Level	35 <b>′</b>	
#13	Sec	34.11233	Water	Level	24′	
#14	Sec	34.11233	Water	Level	20′	
#15	Sec	34.112333	Water	Level	24'	
#16	Sec	34.112334	Water	Level	23′	
#17	Sec	34.1124	Water	Level	36 <b>′</b>	
#18	Sec	34.11243	Water	Level	35 <b>′</b>	
#19	Sec	34.11323	Water	Level	24′	
#20	Sec	34,12133	Water	Level	36 <b>′</b>	
#21	Sec	34.31313	Water	Level	25′	
#22	Sec	34.3441	Dry			

#### Township 20 South, Range 37 East:

- #23 Sec 3.11100 Water Level 37'
- #24 Sec 3.1130 Water Level 55'
- #25 Sec 3.13100 Water Level 37'
- #26 Sec 3.14000 Water Level 40'
  - #27 Sec 3.21000 Water Level 540'
  - #28 Sec 3.212434 Water Level 541'
  - #29 Sec 3.221344 Water Level 541'
  - #30 Sec 3.31100 Water Level Unknown
  - #31 Sec 3.33300 Water Level 28'
  - #32 Sec 3.34131 Water Level 15'
  - #33 Sec 4.111311 Water Level 30'
  - #34 Sec 4.111312 Water Level 29'
  - #35 Sec 4.14000 Water Level 70' 3440
  - #36 Sec 4.22100 Water Level 37' 35'5
  - #37 Sec 4.221321 Water Level 31'
  - #38 Sec 4.312434 Water Level 29'
  - #39 Sec 4.42000 Water Level 35' 35'8
  - #40 Sec 4.44411 Water Level 20'
  - #41 Sec 9.112114 Water Level 34'
  - #42 Sec 9.112122 Water Level 29'
  - #43 Sec 9.21000 Water Level Unknown
  - #44 Sec 9.31113 Water Level 25'
  - #45 Sec 9.33122 Water Level 13'
  - #46 Sec 9.41411 Water Level 30'
  - #47 Sec 10.11000 Water Level Unknown

SECTION 33

Township 19 South, Range 37 East

# STATE ENGINEER OFFICE WELL RECORD

#### Section 1. GENERAL INFORMATION

Street or	Post Office Ad	R. Willia	215			Owner		
		Monu						
		No. L-9			and is located		- mT	
						19S Ran		
			•					
Subdi	vision, recorded	d in		C	ounty.	·		
		_ feet, Y=			M. Coordinate S	System		Zone in Grant.
(B) Drilling (	Contractor	Joe R. Wi	lliams			_ License No W	<b>D-1</b> 078	
Address	Box 21	5 , M	onument	, NM 882	65			
Drilling Began	February	, 1986Comple	eted Fel	oruary, 19	8 Pype tools	Cable Tool	Size of h	ole <u>12"</u> in.
Elevation of la	nd surface or _	3,,20	0*	at well	is 3200+ <b>-</b>	_ ft. Total depth	of well	<u>52</u> ft.
Completed wel		nallow 🗆 art				upon completion	,	
Depth	in Feet	Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sectio	on 2. PRINC	CIPAL WATER	-BEARING ST	RATA	Fetima	ted Yield
From		in Feet	Description of Water Descripe Forms			ormation		per minute)
39	52	13	Water sand and gravel				10 g	./min.
L			Section	3. RECORD	OF CASING	· · · · · · · · · · · · · · · · · · ·		
Diameter (inches)	Pounds per foot	Threads per in.	Depth	in Feet Bottom	Length (feet)	Type of Sho	e (	erforations
10	steel	per m.	Тор	Bottom	10	<u> </u>	Fro O	m To
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Depth	in Feet	Section Hole	n 4. RECOF Sack		bic Feet		d of Placeme	
From	То	Diameter	of Mu	id of	Cement	Metho	- Of Flaceme	
0			<del></del>					
	]					***************************************		
			Section	n 5. PLUGGIN	G RECORD		,	
	_	· · · · · · · · · · · · · · · · · · ·						
Plugging Metho	od				No.	Depth in l	Bottom	Cubic Feet of Cement
Date Welt Plug Plugging appro	*		····		1 2			
		State Engir	neer Represe	ntative	3 4			
Callette Co. Co.			FOR USE	OF STATE EN	IGINEER ONL			
Date Received	July 22,	1986			•	FWL _		1791
filo N s	L-9681							
THE INO,	File No. L-9681 Use STOCK Location No. 19.37.33.4132							

Section 6. LOG OF HOLE

Depth	in Feet	Thickness	Section 6. LOG OF HOLE
From	To	in Feet	Color and Type of Material Encountered
0	2	2	Brown surface soil
2	12	10	Red clay soil
1.2	20	8	White caliche rock and soil
20	39	19	White-grey clay
39	52	13	White-grey clay to red bed at 52 ft.
akkarpropoli (1911) (h. 18 14 <del>a a a</del> ppendektorio (h. 19 14)			
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	1	Sastian 1	7 REMARKS AND ADDITIONAL INCORMATION

Section 7. REMARKS AND ADDITIONAL INFORMATION

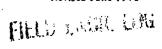
The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

R. Uhllani Driller

INSTRUCTIONS: This for of the State Engineer. All ons, except Section 5, shall be answered as completely and accurately drilled, repaired or deepened. Then this form is used as a plugging record, only Section 1(a) and Section 5; eed be completed.

#2

## STATE ENGINEER OFFICE WELL RECORD



#### Section 1. GENERAL INFORMATION

(A) Owner of Street or I City and S	wellJoe_l Post Office Ac	R. Williams ddress querque, Ne	P. O. Bo w Mexico	ox 2051 5. 87103			Owner	's Well No.	
		No. L-7513				ocated	in the:		
								ge 37E	N.M.P.M.
		d in							
		_ feet, Y=					ystem		
(B) Drilling C	ontractor <b>_G</b>	ade Oldakeı					_ License No. WI	-657	
AddressP	0. Box 23	21, Hobbs,	Ne wMex	ico, 882	40				
Drilling Began _	4/24/80	Compl	eted 4/25	/80	Type to	ols _ <b>r</b>	otary	Size of I	role_10½in.
Elevation of lan	d surface or _	3650		at '	well is 365	50	_ ft. Total depth o	of well	ft.
Completed well	is 🗀 s	hallow 🗀 ar	tesian.		Depth to	water	upon completion	of well	35 ft.
		Secti	on 2. PRIN	CIPAL WAT	rer-beari	NG ST	RATA		
Depth i	n Feet To	Description of Water-Bearing Formation						ated Yield per minute)	
35	45	10	10 Water, Sand				<b>2</b> 5 G1	PM	
<u> </u>			Sectio	n 3. RECOI	RD OF CASI	NG	· · · · · · · · · · · · · · · · · · ·		
Diameter (inches)	Pounds per foot	Threads per in.	Depth	in Feet Bottom	Leng (fee		Type of Shoe	3 <del> </del>	Perforations
6 5/8	7071000	por m.	<u>Тор</u> О	45	45	.,	222	Fro	om To 45
				4.7			none	_   2,	43
	-					<del></del>			
h		Section	n 4. RECO	RD OF MUI	DDING AND	CEMI	ENTING	<b></b>	
Depth   From	in Feet To	Hole Diameter	Sacl of M	-	Cubic Feet of Cement		Metho	d of Placem	ent
		10½							
	Accession of the second second second second second second second second second second second second second se	· · · · · · · · · · · · · · · · · · ·							
Plugging Contra	etor				GING RECO	RD			
Address						Nö.	Depth in F		Cubic Feet
						1	Тор	Bottom	of Cement
Plugging approv	ed by:					2			
		State Engi	neer Repres	entative		3 4			
<del></del>	1	22 1000	FOR USE	OF STATE	ENGINEER	ONL	Y		
Date Received	June 2 To イン含	73, 1980		Qu	ıad		FWL _		FSL
File No	7513-S <b>-</b> 2	2 '		Use	IRR.		ocation No. 19		

Section 6. LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From 0 Top Soil Caliehe L. _45_

SS Section 7. REMARKS AND ADDITIONAL INFORMATION

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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This fe of the State Engineer. A.

hould be executed in triplicate, preferably typewritten, and submitted tions, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section

appropriate district office s possible when any well is need be completed.

#### WELL RECORD

#### Section 1. GENERAL INFORMATION

		•			•			Webb Owner			
		under Permit									
										e :	M D M
								Ran	ĺ	N.I	M.P.M.
b. ´	Fract	40,	_ of Map N	0	of	the			:		
c.	Lot No Subdiv	vision, recorded	of Block No.	Lea	of	the _ County			· · · · · · · · · · · · · · · · · · ·		
đ.	X= the		feet, Y=		feet	, N.M. Co	ordinate	System		Z	one in Grant.
(B) Dri	Hing (	ontractor 2	-Bud	S Dr.	11. 4	C	σ.	License No	V 12	940	
Address	1.	CX 82	- >_	110%	6	NA	4				
Drilling B	Segan	7:18/	8/ Cor	npleted <u>J</u>	22/8/	′ Туре	tools 🚣	Rotary	Size of	hole / F	in.
Elevation	of lar	nd surface or			at	well is		ft, Total depth	of well	13'	ft.
Complete	ed wel	is 💢 st	allow 🗆	artesian.		Depth	to wate:	r upon completion	of well 🙎	9'	ft.
1	······································	in Feet	Se Thickne	ection 2. PRIN	CIPAL WA	TER-BEA	RING S'	I'RATA	Estin	nated Yield	
		Fo	in Feet	1 1	Description	of Water-	Bearing I	Formation		per minut	
25	7'	43	14		Vale	·V	<u>, ત</u>	a d	20	GPI	<u>n.</u>
						<del></del>		-		<u></u>	
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Diame (inche		Pounds per foot	Threads per in.	<del></del>	in Feet Bottom	Le	ngth eet)	Type of Sho	e	Perforation on	rs To
5_4	,			+1960kg	-43	4	4	open	ے ا	4" 4	31
l											
				tion 4. RECOI	RD OF MU	<del></del>		IENTING			
Froi		in Feet To	Hole Diameter	Sack of Mi	-	Cubic Fe of Ceme	-	Method of Placement			
						-					
									······································		
Diamina	Conto	ictor			n 5. PLUG	GING RE	CORD				
Address		*					No.	Depth in	Feet	Cubic I	eet
Plugging Method					*** TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER	· · · · · · · · · · · · · · · · · · ·	1 1	Top	Bottom	of Cem	ent
Plogging	Phyging approved by:										
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Date Rec	eived	August 3,	1981	FOR USE				•			
17tto N	0 1	L-8501		·		uad DOM & S		FWL FWL Location No. 19.	t		
i lic iv	V. <u></u> -			-	USE						<del></del>
			5	EL 33.	1195,1	K37E	-	5E45W4	5E 4.		

Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
_0	51	5'	Top soil & Sand Brown + And San
1	291	24'	Broken Rock + Calich e white & Br.
291	43'	14'	Top soil & Sand Brown + And son Broken Rock + Calich & white + Br. Water sand Tan to Brown
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This fe of the State Engineer, A

hould be executed in triplicate, preferably typewritten, and submitted tions, except Section 5, shall be answered as completely and accurat drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section

2 appropriate district office 3 possible when any well is need be completed.

CGUNTY

PAGE

UNIQUE NUMBER IS 200000012900:480 WINDMILL 614. CSG. DEPTH MEAS. 30 FT. FORMATION として大 BASIN NAME TATUM-LOV.-HOBBS LOCATION 19 S 37 E33.442122 UNKNOWN SE4SE / NE4 OKNUN ALTITUDE 3563.00 DEPTH . . . . . 30.

(C) MATHR LEVEL 17 14 17 MATER LEVEL () 1. -() () WATER LEVEL

JAN. 29 1975 22.52

CATH

MATER LEVEL

DATE

WATER LEVEL

DEPTH 

. 06

r: 111 UNIQUE NUMBER IS 35GCCOC12237:IPR. WELL WITH 16 IN. CSS. TURBINE PUMP & WAT. GAS ENGINE. FILE L-744-S. COUNTY 国のは常は中国のは 1. A 7. 多子的计划 医耳角质 THEUN-LOV. -403BS LOCATEON COLTACON 19 S 37 E33.44.411 COY COYAL SE"SE" 1 0 1 2 1 2 1 3 1 3 1 3 1 3 1 1 1 1 1 1 1 ALTITUDE 3559.20

FE3. 13 FEB. 23 じゃイニ 1 9 6 1 9 6 1 WATER LEVEL F15 - 15 1956 [ ] -i WATER LEVEL 30.77 JAN. 26 1971 DATE WATER LEVEL 27.15 Jan. 29 1976 DATE WATER LEVEL 23.57 JAN - 20 DATE 1991 WATER LEVEL 29.93

## **#**5

#### WELL RECORD

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Section 1. GENERAL INFORMATION

(A) Owner o Street or	Fost Office Ad	ldress P. O	B _O X I	) <i>(</i>		Owner	's Well No		
	Scate								
Well was drilled	1 under Permit	No. 11-74	+-u-J	<i>33</i> 🕱	and is locate	ed in the: <u>19</u> –S Rang	37		
b. Tract	tio.	of Map No.		of the		·			
c. Lot N Subdi	vision, recorde	of Block No d in		of the	ounty,		,		
					M. Coordinat	e System		Zone in Grant.	
(B) Drilling (	Contractor <u>W</u>	. L. Va	n Noy			License No. W	)-208		
Address	P. O.	Box 74	Oil C	enter. N	· 1vl · 882	66			
Drilling Began	July 21	<u>, 19</u> 76 _{omr}	oleted Ju	ly 22, 19	276 pe tools	spudder	Size of ho	le <u>10</u> in.	
Elevation of la	not surface or			at wel	l isXØ	ft. Total depth o	of well	50ft.	
Completed wel						er upon completion (			
Depth	is that	Sector Thickness	<del></del>	CIPAL WATE	R-BEARING S	STRATA	L'atimat	out Viold	
From		in Feet	l	Description of \	Water-Bearing	Formation	Estimated Yield (gallons per minute)		
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31	36	5	co	urse san	d. •		70		
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			Sectio	n 3. RECORD	OF CASING				
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From	<u> </u>	Diameter	of Mi	ad of	Cement				
	l		<u> </u>						
				n 5. PLUGGIN	G RECORD				
Plugging Contr Address						Depth in F	cet	Cubic Feet	
Plugging Metho Date Well Plug					No.	Top .	Bottom	of Cement	
Plugging appro	ved by:				$\frac{2}{3}$				
. Mariabetta. War Jesay, 1		State Eng	ineer Represo	entative	4				
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-zare received	paptemo	or T4, T;	,	Quad		FWL	r	?SL	
File No	I744-S	-3		Use SUPP	L. IRR.	Location No. 19	.37.33.	442142	
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di m. same	· 'T: '	Section 6, LOG OF HOLE					
Depth From		Thickness in Feet	Color and Type of Material Encountered				
	5	5	ton goil				
05	25	20	top soil caliche				
25	31	6	firm sand rock				
31	36	5	course water sand,				
36	145	9	red XIXX shale				
1,5	50	5	red clay.				
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	,	Section 7	7. REMARKS AND ADDITIONAL INFORMATION				
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W. L. Nim Buy Deller

INSTRUCTIONS: This for of the State Engineer, 7

should be executed in triplicate, preferably typewritten, and submitted. The appropriate district office tions, except Section 5, shall be answered as completely and accura milled, repaired or deepene. When this form is used as a plugging record, only Section 1(a) and Secti-

s possible when any well is need be completed.

#### WELL RECORD

## Section 1. GENERAL INFORMATION

(A) Owne	rotw	'ell	Joe R.	Williams			Owner's	Well NoL-9	127	
Stree City a	t or Pe ind St	ost Office ate	Address	Box 215 Monumen	t, New M	exico 882	265			
Well was dr	illed u	nder Pern	nit No. <u>L</u> _91	27		_ and is located	in the:			
a. <b>S</b> k	<u></u>	¼ SE	4 SE 4	¼ of Sec	etion <u>33</u>	Township	<b>19-8</b> Range	37-E	N.M.P.M	
b. Tr	act No	),	of Map N	lo,	of th	e	:			
				)						
d, X							System		Zone in	
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Completed	welli	s I. <b>A.</b> J	shallow []		om i Miare		upon completion of	well	<u>.                                    </u>	
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From	- 1	To				Water-Bearing F	ormation	(ganons per inmato)		
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	_					<del> </del>	,			
Diamete	. I	Pounds	Threads	Section Depth	n 3. RECORD	OF CASING Length		Perfor	ations	
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Date Receiv	red	Febi	cuary 11,	1985	Quad		FWL	FSL.		
File No,		L-912	27		UseE	OM & D & S	Location No1	9.37.33.443	22	

Section 6. LOG OF HOLE

Depth i	n freet	Thickness	Section 6. LOG OF HOLE
From	To	in Feet	Color and Type of Material Encountered
Q	41	24.8	Brown top soil and clay dirt
14.0	8 *	4.8	Clay dirt and rock
8 .	13	5'	Grey flint and caliche rock
13'	33'	20'	Brown clay dirt
334	1421	8:	Clay and some sand
1+28	50	8!	White sand and Gravel
502	52	21	Red clay (Red Bed)
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		Section 7	REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole. De L. Williams)
Driller

#### DIMIE MIGHTERIC OFFICE

WELL RECORD

Ran



INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1		(A) O	uper of well	Mak	in Drillin	e Go.	•			
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Section	1	in Foot	Thickness i								
No.			n	Des	cription of Water	r-Bearing Formatio	n				
1	31	life	13		Brown water sand						
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#### LOG OF WELL

3341				
Depth	To	Thickness in Feet	Color	Type of Material Encountered
0	6	6		Surface soil
<u> 6</u> .	31	25		Caliche
31	lo 16	13	Brown	Water Sand
- loly	55	11	Red	Water Sand
55	. 62	7	Brown	Water Sand
62	72	10	Red	Clay
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			356
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Calward Bushe

# WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	1		(A) Owi	ner of well	AA	50 2211	,0 MS	1 -9
			Street an	nd Number	Bo	7 - 24	<u> </u>	
			City	40665	<u> </u>	7	State	
			Well was	s drilled ur	nder Pern	nit No. 1744	EXP	and is located in the
	#8		11/ 1/2/	1/41/4	4	4 of Section3	33. Twp. /	4.5 Rge 3/7_
	# 0		(B) Dril	lling Contr	actor	119/11	lisige L	icense No. / 2/-
			Street ar	nd Number.	310	Forthe	Jours	La .
	-		City	Hertet	(id		State	19 5
			Drilling	was comm	enced	1-12		19 4
			Drilling .	was comple	eted	2 - 15	2	19.5 7
	Plat of 640							
Elevatio	n at top o	of casing ir	n feet above so	ea level		Total de	pth of well	<u> </u>
State w!	hether we	ll is shallo	ow or artesian	1 - 1 - 1	11000	Depth to wa	ater upon com	pletion 🚣 🔼
Section				NCIPAL W/	ATER-BEAR	ING STRATA		
No.	Depth i	in Feet To	Thickness in Feet		) De	scription of Water	r-Bearing Form	ation
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	·		<b> </b>	<del></del>				
5	1	<u></u>	<u> </u>					7
Section	3				RD OF CAS	SING	7	
Dia in.	Pounds ft.	Thread in		Bottom	Feet	Type Shoe	From	erforations To
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File No	1-74	14		IIse	LD.	Location	on No 19 3	97. 33100
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#### LOG OF WELL

Depth From	in Feet To	Thickness in Feet	Color	Type of Material Encountered
0	5	3		Cotton town Sulf Sail
35	35	33		Clear hie
35	1/2_	7		line stone
42	50.	B		reatie sand
50	76	2.6		led Skale
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bankan kan super bankan pembahan perpanan s				L S Flev
* *** > ^ ** <del>***********************</del>				Depth to K. Trc. 35/1 Elev of K. Trc. 35/1
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				Interpolated from Topo. Sheet
				Getermined by Inst. Leveling
				Other
			***************************************	
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Wall Distra

SECTION 34

Township 19 South, Range 37 East

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# STATE ENGINEER OFFICE WELL RECORD

### Section 1. GENERAL INFORMATION

	wellTC Post Office Ac State	ddress <u>Ge</u>	neral De	elivery		Owner's \		
Well was drilled	under Permit	No. L-88	03		and is located	in the:	1	
aNW	_ ¼ <u>NW ;</u>	4 <u>NW</u> ¼	NW ¼ of Sec	tion <u>34</u>	Township	19S Range	37E	N.M.P.M.
b. Tract	No	of Map No.		of the		,		
Subdi	vision, recorde	ed in	Lea	C	ounty.			
						System		
(B) Drilling C	Contractor	Abbott Br	os. Dri	lling		_ License No. <u>WD</u>	-46	
Address	1'.0. Bo:	х 637 <b>,</b> Но	bbs, Ne	w Mexico	88240			
Drilling Began .	5/18/8	82 Comp	leted	5/18/82	_ Type tools	Cable	. Size of hole _	12½ in.
Elevation of lar	id surface or .			at wel	l is	_ ft. Total depth of	well 41	ft.
Completed well	lis <b>K</b> s	shallow 🗀 a	rtesian.		Depth to water	upon completion of	well 25	ft.
•					R-BEARING ST		:	
Depth		Thickness		····	Water-Bearing F		Estimated 1	
From		in Feet					(gallons per n	inute)
25	39	14		· · · · · · · · · · · · · · · · · · ·				
	-							
-								
			Section	3. RECORD	OF CASING			
Diameter (inches)	Pounds per foot	Threads per in.	Depth Top	in Feet Bottom	Length (feet)	Type of Shoe	Perfor From	ations To
5½	14		0	42	42	None	28	42
	<u></u>			74				
	· · · · · · · · · · · · · · · · · · ·							
Depth	in Feet	Hole	Sack	s Cı	ING AND CEM		of Placement	
From	То	Diameter	of Mu	ıd of	Cement	method e	- Tracement	
		<u> </u>				<u> </u>	·	
		ļ						
			Section	n 5. PLUGGIN	G RECORD		- ************************************	
Plugging Contra	ictor						:	
					No.	Depth in Fee		bic Feet Cement
Date Well Plugg Plugging approv			· · · · · · · · · · · · · · · · · · ·					
. աթթուն appro		State Engi	neer Represe	ntative	$\frac{2}{3}$			
		State Engl	<del></del>		4			
Date Received	May 24.	1982	FOR USE		IGINEER ONL			
		- <b>-</b> -	•			FWL		
File No	L-8803			_ Use	M. パョッチ	Location No. $\frac{19.3}{\Lambda/U}$	7.34.111.4/	0

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Section	n.		. ( )	l ı	111	- F	11.	"	. М

	in Feet	Thickness	Color and Type of Material Encountered	
From	То	in Feet	Color and Type of Material Encountered	
0	15	15	Caliche	
15	25	10	Clay	:
25	30	5	Water Clay	
3.0	39	9	Sandy clay-water	<u>:,</u>
39	41	2	Red Clay	:
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		Section	7. REMARKS AND ADDITIONAL INFORMATION	1 73.7 3.8

May 24 - 6 us Au 18

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

rell Abbatt
Driller 21.B.

INSTRUCTIONS: This form bould be executed in triplicate, preferably typewritten, and submitted to appropriate district office of the State Engineer. All ons, except Section 5, shall be answered as completely and accurate. Jossible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

#### STATE ENGINEER OFFICE

#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

			, (A) Own	er of well.		<i>J</i> . 0.				<u>-</u> -	
			Street and	Number		1117	Guli	[			·
ļ	1	l	City		Hobb	U <b>,</b>			State	ow Mext	ico
			Well was	drilled un	der Perm	it No		743	-5-2 and	is locat	ed in
#	1.2		1⁄4	1/4		of Sec	tion		Гwр	Rge.	
			(B) Drill	ing Contra	actor	W. L.	Van	Noy	Licen	SP NO	WD-208
1	1	1	Street and	Number.	n + 0 12	P. 0.	Вох	74	Ne	ew Me	
			City	OTT 061					State		• 75
			Drilling v	vas comm	enced	na	<i>y</i> 14	) 		, <del>-</del>	19
(Plat of	640 acı	res)	☐ Drilling w	as comple	eted	<u>na</u>	y 14	?			19.
lovation at 1	on of a	esing in fe	eet above se	a level		,	Fotal (	depth of	well461		_
ate whether	well	is shallow	or artesian.			Dept	h to v	water ur	on complet	ion 21	1
		, D. D. L. L. L. L. L. L. L. L. L. L. L. L. L.									
ection 2				CIPAL WA	ATEK-BEAK	ING 21	KAIA				
No. Pro	pth in l	To T	hickness in Feet		Des	cription	of Wa	iter-Beari	ng Formation	·	······································
1 🔉	35	45	10	Wat	er sand	& gr	avel				
2											
3											
1											
5											
ection 3				PECOP.	D OF CAS	ING					
1		ml da	De		1	1			Perfor	ntions	
ľ	unds ft.	Threads in	Top	Bottom	Feet	Туре	Shoe		From		Го
3 5/8	W	lded	0	46	46			7	28	.4.	3
	.									<u> </u>	
			RECOR	D OF MUD	DING AN	D CEM	ENTIN	S			
Section 4 RECORD OF MUDDII					cks of				···		
Depth in Fe	eet	Diameter	Tons	No. 5a	cks or			30.4	1 1	:	
Depth in Fe	eet To	Diameter Hole in in.	,	Cem	•	,		Met	hods Used	:	
Depth in V			,	J	•			Met	hods Used	:	
Depth in Fe			,	J	•			Met	hods Used		
Depth in Fe			,	J	•			Met	hods Used	:	
Depth in Fe			,	J	•			Met	hods Used		
Depth in Fo			,	Cem	ent	ORD		Met	hods Used		·
Depth in Form	i'o	Hole in in.	Clay	PLUGG	BING RECO						
Depth in Form	gging (	Hole in in.	Clay	PLUGG	SING RECO				License No.		
Depth in Forestion 5 ame of Plugreet and Market	gging (	Hole in in.	Clay	PLUGG	BING RECO			1	License No.	:	
Depth in Forestion 5  ame of Plugreet and Mons of Clay	gging (umber	Hole in in.	Clay	PLUGG	GING RECO			SType of	License No. Stateroughage	·	
Depth in Form From  ection 5  me of Plugreet and Numbers of Clay ugging meth	gging (umber	Hole in in.	Clay	PLUGG	GING RECO	I	Date P	Stype of	License No. Stateroughage		19
Depth in Form From  ection 5  me of Plugreet and Numbers of Clay ugging meth	gging (umber	Hole in in.	Clay	PLUGG	EING RECO	Cen	Date F	Sype of Plugged	License No. State roughage	follows:	19
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Depth in Form  From  ection 5  me of Plugareet and Mans of Clay ugging method ugging method ugging approximately	gging ( umber used nod use roved k	Contractor	Clay  Clay  Basin Sup	PLUGG oughage u	EING RECO	I Cerr	Date Frent P.	Type of Plugged Plug	License No. State roughage	follows:	19
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T195 R37E

NWY NWY NE 4

#### Section 6

#### LOG OF WELL

	in Feet	Thickness in Feet	Color	Type of Material Encountered
0	5			Top XXXX soil
5	30	25	grey	Caliche
30 35 /	35	5 10	brown	Hard rock
35/	45	10	grey	water sand & gravel
7 45	46	1 1	red	red shale.
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				3332
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well

W.	L.	Van	Иду	•	
			Well	Driller .	

HELL

GR. LOG

### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1	i		(A) Own	or of wall	Shaw	Brothers			
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<u> </u>	<u>-</u>					nit No. L- 743			
						of Section 34			•
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	Plat or 640 ac		· ·	_					
						Total dej			
State wl	nether well	is shallo	w or artesian.	BDSTT	LOW	Depth to wa	ter upon o	ompletion:	n 20
Section 2	· · ———			ICIPAL WA	ATER-BEAR	ING STRATA		•	
No.	Depth in	To	Thickness in Feet		Des	scription of Water	r-Bearing F	ormation	
1	23	25	2	Sand	1 rock	·			
2		38	5			val			
3								-	
4									
5									
Section :	3			RECOR	RD OF CAS	SING			
Dia	Pounds	Thread	1	pth	Feet	Type Shoe	Enon	Perforați	
in.	ft.	in	Тор	Bottom			From	1	То
_10	18	none	0	_10	10	none	none		
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	FOD TICK	OF CT. III	E ENGINEER O		7				
	run uaa	- 1		H					
Date	Received		13 23 1057	RAL,	_				
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		1 -	SWELL, NEW MIXE		<u> </u>				
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File No	1-743	<u>}</u>		Use( <i>LG</i>	rellor	1 Locatio	n No. 12	<u>.32</u> 3 <u>4.</u>	182-33

#### LOG OF WELL

Depth .	in Feet	Thickness	Color	Type of Material Encountered
From	То	in Feet	Color	Type of material Encountered
0	4	4	Brown	Soil
4	_ 23	19	White	Cleachie & rock
23	25	2	Grey	Sand rock
25	33	8	Grey	Sandy shale
33	38	5	Red	Sand & gravel
38	4Q	2	Red	Red bed
management is and uniformly as a vision of				
				L S Elev
				Depth to K Irc 30  Elev of K Trc 35 7
management of Page				Elev of K
				10 34 31/ 1/22
and the same opposite plant that the				LOC NO. 19.37.311.112.2
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			١	Datermined by Inst. Leveling $X$
				Other
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

fill Driller

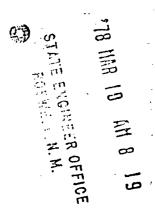
# STATE ENGINEER OFFICE

# WELL RECORD

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Owner of well Street or Post Office A City and State	O. & D.		1. GENER w % V.					
Street or Post Office A	qq <del>ıq%%nuyy</del>	<del>УХ, М</del>	<del>onumen</del>	t, Nev	w Mex.	88265		
	1' 1							
ll was drilled under Permi	1 No			an	d is locate	d in the:		
II was drilled under Permi a. XXXX /4 XXX N	154 NW 1414	NW ¼ of S	ection	34 1	`ownship _	19 <b>-</b> S	37 <b>-</b> Range	· E N.M.P.N
b. Tract No								
c. Lot No. Subdivision, recorde								
d. X·				eet, N.M. C	Coordinate	System		Zone
the							•	Gran
Ρ.	0. Box 7	4 Oil	Cent	er. Ne	ew Mex	. 88266		
dress Feb. 27							Size of	holei
vation of land surface or .				at well is_		ft. Total der	oth of well	40
.,								20
mpleted well is <u>(X)</u>		rtesian. .ion 2. PRII					ion of well	f
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	<u> </u>	L			·			
			on 3. REC		<del></del>	<u> </u>		
Diameter Pounds (inches) per foot	Threads per in.		on 3. REC		CASING Length (feet)	Type of S	Shoe F	Perforations
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(inches) per foot	per in.	Deptl Top	h in Feet Botto	om	Length (feet)	<u> </u>	10	rom To
(inches) per foot	per in.	Deptl Top	Botto 40	om .	Length (feet) 40	none	10	rom To
tinches) per foot 6 578 welder  Depth in Feet	per in.	Depth Top O	Botto 40	om .	Length (feet) 40  AND CEM	none	10	70m To 30 12 40
tinches) per foot 6 578 welder  Depth in Feet	Section Hole	Depth Top O	Botto 40 P	UDDING Cubic	Length (feet) 40  AND CEM	none	11	70m To 30 12 40
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Depth in Feet From To  Ingging Contractor Lidress Ingging Method Ite Well Plugged Lingging approved by:	Section Hole Diameter  State Engineer	Depth Top O Sections FOR USI	DRD OF Meks Mud	UDDING Cubic of Cer  GGGING R  TE ENGIN	AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON INC. AND CENTER ON	Depth Top	in Feet Bottom	To  30 14 40  ment  Cubic Feet of Cement

Section 6, LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet From 0 5 5 top soil 5 36 31 **e**caliche 36 40 fine water sand.

Section 7. REMARKS AND ADDITIONAL INFORMATION



The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

of the State Engineer, A' drilled, repaired or deepene.

INSTRUCTIONS: This fove should be executed in triplicate, preferably typewritten, and submitted to ions, except Section 5, shall be answered as completely and accurat Then this form is used as a plugging record, only Section 1(a) and Section

Se appropriate district office possible when any well is need be completed.

#### STATE ENGINEER OFFICE

### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1			(A) Ourner	n of weall	V.	0. Setzler 7 Gulf						
			Ctreet and	Number	III	7 Gulf						
İ			City	Number.	Hol	bs, New Mex	100 887 S	7()	, , , , , , , , , , , , , , , , , , ,			
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	" 1 0		• •	• •	,	, , , , , , , , ,	m		T)			
	∦18	•	74 (R) Drillir	a Contr	actor W	4 of Section L. Von Noy O. BOx 74	<b> w</b> p	Liconco	No WD-208			
			Street and	Number	I	0. BO _X 74		License	140			
			City	Oil C	enter,	May 15, May 15,	S	Nev:	Mex.			
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			Drilling wa	as comple	eneca eted	May 15,		**************	1972			
- (1	Bat of 640 ac		<i></i>	ib dompie		\						
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State wi	well	is shallow or	artesian			Depth to wa	ter upon	<b>complet</b> ion	ı21'			
Section :	2		PRINC	CIPAL WA	TER-BEAF	ING STRATA						
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Section 5	j			PLUGG	ING REC	ORD						
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						Тур						
						Date Plu						
	approved l					Cement Plug						
						Depth of Pl	<del></del>					
			Basin Super	rvisor	No	·	o	No. of Sa	cks <b>Used</b>			
	FOR USE	of state en	GINEER ON	LY								
Date	Received.	( . /.	<u> </u>	<del></del>								
1 I				<i>t</i>								
****	1 7/12	. <					1/1	フラウル	11010			
File No.	M" /1. J.			Use.	_K.K	Location	n No./ Z	24.24	11243			

Bec. 54 TIPS RETE MONTH VOUT NE

#### LOG OF WELL

Depth From	in Feet	Thickness in Feet	Color	Type of Material Encountered		
()	-,;	5		Top soil		
1;	30	53	grey	Caliche		
50 	35	5	brown	Hard rock		
35,		10	grey	water send & gravel		
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

	Noy.	
 	ll Driller	

#### WELL RECORD

### Section 1. GENERAL INFORMATION

(A) Owner of	well dames	DomeTT			·	Owne	r's Well No	
Street or t City and	rost Office Add	iress <u> </u>	ox 211 t. N. M.	88265				
Well was drilled	under Permit N	No	-9768		_ and is located	in the:		
j. 11	4 11 2	¼	¼ of Se	ction 34	Township	19 S Rai	1ge3'	7 E N.M.P.M.
c. Lottb Subdi	i Con, recorded	of Block No.	Lea	of the	ounty.			
<b>d.</b> 5 -	· · · · · · · · · · · · · · · · · · ·	feet, Y=				System		
(B) Diffing (	ontractor	В &	A Water			License No		
Address					м. 88260			
Drilling Began [‡]	::/18/85	Con	mpleted 12/	19/85	_ Type tools	Spudder	Size of I	olo10in.
Hevation of lan	al surface or			at we	II is	ft. Total depth	of well	3 <del>§:</del> ft.
Completed weit	ns 🖾 sh	allow 🗀 .	artesian,		Depth to water	upon completion	of well	<u>2:4</u> ft.
Depth a	biret	Se Thicknes		CIPAL WATE	R-BEARING ST	RATA	Retin	ated Yield
From	To	in Feet			Water-Bearing F	ormation	(gallons	per minute)
:/1	39	17	Sar	nd Clay	gravel	· · · · · · · · · · · · · · · · · · ·	not	tested
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			<u> </u>					
						W. M		
1	Pounds	Threads	· · · · · · · · · · · · · · · · · · ·	n 3. RECORD in Feet	1	<u> </u>		Perforations
Diameter (nalies)	per foot	per in.	Тор	Bottom	Length (feet)	Type of Sho	be Fro	om To
6	F,A.C.		-0-	39			2	9 39
	,							
1 Denth	in Feet	Sec Hole	tion 4. RECO		ING AND CEM	ENTING		
Prem	То	Diameter			f Cement	Meth	od of Placem	er.t
	flone	)————						
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Plugging Contr	n for			on 5. PLUGGIN	VG RECORD			
					No.	Depth in Top	Feet Bottom	Cubic Feet of Cement
Date Welt Phose Plugging approx					1 2			
	***************************************	State Ei	ngineer Repres	entalive	3 4			
Date Received	Fahruan	y 17, 19		OF STATE E	NGINEER ONL	.Y	TOTAL CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT CONTRA	one to the second and the second and the second
Received	restuat	J 17, 19		Quad		FWL -		FSL
File No	19768			UseD0	MESTIC	Location No	9.37.34.	11323
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Section 6. LOG OF HOLE

1 wp	th in Feet	Thickness in Feet	Color and Type of Material Encountered	
	я <del>10</del> 3	3	Top soil - dark brown	
3	18	15	Caliche - White	
1.8	20	2	Rock - White	
20	28	8	sand - brown	
28	39	10	sand streads of yellow clay gravel yellowish	br
39	39	1/2 1/2	Red bed- Red	
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		Section 7	. REMARKS AND ADDITIONAL INFORMATION	

Gravel pack with 3 yds gravel.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole

INSTRUCTIONS: This for ld be executed in triplicate, preferably typewritten, and submitted of the State Engineer. All s. .ons, except Section 5, shall be answered as completely and accurate, as possible when any well is drilled, repaired or deepened. ' 'hen this form is used as a plugging record, only Section 1(a) and Section need be completed.

### STATE ENGINEER OFFICE WELL RECORD

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Fig. 1.	i etalia	ેક હતા કોય
	Aura to the San	1, 4

#### Section 1. GENERAL INFORMATION

A) Owner of Street or t City and S	e cli . H • O coa Office Mo	. & D.  dress P. nument,	C. Sha O. Bo New Me	w % V. x 205 x. 8826	0. Setzle	er Owner	r's Well No	
Vell was drilled	ander Permit	No. L-74	3-S-3		and is locate	d in the:	·	
					-	19-S Ran		
b. frat!	4.),	of Map No.		of	the		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
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3) Drilling C	oatractor <u>W</u>	. L. Van	Noy	····		License No	VD-208	
ddress 1	. (). Box	74 Oil	Cente	r, New	Mexico 882	266	Whenever the same and the same that a	
rilling Be _U ar	Feb.18	, 1978 _{Comp}	leted F	eb. 20,	1978e tools_	Spudder	Size of hole.	<u>10</u> in
levation of lan	a suiface or			at	well is	ft. Total depth	of well40	ft
ompleted welf	[X] sh	allow 🗆 at			i	er upon completion	of well22.	ft
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Diameter (inches)	Pounds per foot	Threads per in.	Тор	Bottom	Length (feet)	Type of Sho	e From	To
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	an an antonidades	Section	n 4. RECC	ORD OF MUI	DDING AND CE	MENTING	Maria de Maria de Caracterio de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición del la composición del composición de la composición del composición del composición de la composición de la composición de la composición de la composición de la composición de la composición del composición del composición del composición del composición dela composición del composición del composición del composición del	negaringgalamah kilomga a gaya na ya
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ate Well Plugg	ed <u>:</u>					Тор	Bottom of	Cement
ugging approx	ed by:	Chata E	D					
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ate Received	March 1	0, 1978	FOR USE		ENGINEER ON	LY FWL _	FSL	<del></del>
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Section 6, LOG OF HOLE Depth in Feet Thickness Color and Type of Material Encountered in Feet To From 0 5 5 top soil 5 36 2931 caliche 36 40 4 fine water sand.

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Section 7. REMARKS AND ADDITIONAL INFORMATION



The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

W Z. Tin - Tray Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. Al ons, except Section 5, shall be answered as completely and accurate possible when any well is drifted, repaired or deepened when this form is used as a plugging record, only Section 1(a) and Section 1. need be completed.

### STATE ENGINEER OFFICE WELL RECORD



#### Section 1. GENERAL INFORMATION

A) Owner of s	ell Joe	Williams	<u> </u>			Ow	ner's Well No.	
Street or M.	o t Office Ar	ddress 1330 N. M., 87	105					
					and is locate	ed in the:		
uSW	W NW W	4 <u>SW</u> ¼	¼ of Se	ction <u>. 34</u>	Township	19S j	Range 37E	N.M.P.I
b. Tract Mc	·	of Map No.		of	f the	· · · · · · · · · · · · · · · · · · ·		
c. Lot No. Subdivis	ion, recorde	of Block No d in		Lea	f the County.			
		_ feet, Y=			t, N.M. Coordinat			Zone Gran
) Drilling Coa	stractor	G. D. Olda	ker,	•		License No.	WD-657	
dress P. C	. Box232	21, Hobbs,	New Mexi	co, 882	40			
illing Began	12/15/7	Comp	oleted _12/	17/79	Type tools.	rotary	Size of	hole <u>101</u> i
vation of land	surface or _	3650		at	well is_3650_	ft. Total dep	th of well	_441
	·	hallow 🔲 a	rtesian.		Depth to water	er upon completi	on of well	25(
		<del></del>	tion 2. PRIN	CIPAL WA	TER-BEARING S	STRATA	· · · · · · · · · · · · · · · · · · ·	
Depth in From	Freet To	Thickness in Feet	]	Description	of Water-Bearing	Formation	1	nated Yield s per minute)
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File No. 1. /	51 <u>3</u> -S			UseI	RR.	Location No. 1	9.37.34.31	1313

Section 6. LOG OF HOLE							
Depth		Thickness in Feet	Color and Type of Material Encountered				
From	1		Process Man Oakl				
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	!	8	Caliche				
10	1		Gray Soil				
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		Section 7	REMARKS AND ADDITIONAL INFORMATION 17 12 12				
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

DISTRUCTIONS: This for ould be executed in triplicate, preferably typewritten, and submitted ' appropriate district office of the State Engineer, Al. lions, except Section 5, shall be answered as completely and accurate. I possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

# STATE ENGINEER OFFICE WELL RECORD

#### Section 1. GENERAL INFORMATION

A) Owner of	well	Carlyle	J. Hall			Owne	r's Well No	01
Street or f	Post Office Ad	dress P.O.	Box 163	2 <b>6</b> 5				
Vell was drilled	under Permit	No. L-10.1	66		and is located	in the:		
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6 - 16 - 14 - 1	E1320',	S330", W	1320', begin	ning, 1	0 ac	<u>5 50.</u> Rar		
			Lea					
						System		
B) — Drilling C	ontractorW	. L. Van No	) <b>y</b>			License No	WD-208	
.ddresš	Во	ox 7, 0il (	Center, NM	88266				
					Type toolsI	Cable	Size of h	ole <u>8"</u> in
					•	_ ft. Total depth	•	
Completed well	is l <b>X</b> J sh	1allow 🔲 ar	tesian.	D	epth to water	upon completion	of well dry	ft.
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From	To	Thickness in Feet	Descr	iption of W	ater-Bearing F	ormation		ted Yield per minute)
dry								
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			Section 3. I		F CASING		<del></del>	
Diameter (inches)	Pounds per foot	Threads per in.	Depth in Fe	ottom	Length (feet)	Type of Sho	e P	er!orations m To
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					No.	Depth in Top	Feet Bottom	Cubic Feet of Cement
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		State Engir	neer Representat	ive	$-\frac{2}{3}$			
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Date Received	March 17	7, 1992	FOR USE OF S	STATE EN	GINEER ONL	Y		
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_File NoI	1-10,166	(1) (DRY	HOLE)	se	& STK	Location No	9.37.34.3	3441
-c11						#1 19.3		

Section 6. LOG OF HOLE

Depth	in Feet	Thickness	Section 6. LOG OF HOLE
From	То	in Feet	Color and Type of Material Encountered
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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above

described hole.

INSTRUCTIONS: This for of the State Engineer. All

uld be executed in triplicate, preferably typewritten, and submitted t ns, except Section 5, shall be answered as completely and accurate drilled, repaired or deepened. Then this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

ppropriate district office possible when any well is

#### SECTION 3

Township 20 South, Range 37 East

			Section 6. L	OG OF HOLE			
	in Feet To	Thickness in Feet		Color and Type	of Material	Encountered	
0	25		Caliche			A-Magagagan-sain amangalar-ay-r-masarday,gg s	- The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
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Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excer	pt from Oil Conservat:	ion Commission file	s at Hobbs, N.M.
Ormone U V Rusem	NW NW + NW +	Elevation:	3558' ТТИ
J. W. Cooper "F" Record of Casing: 10"	#2 - 200'	1	
Rotary			
330' FNL - 4950' FEL			

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller	

#### WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section	diament a presentation		(A) Own	er of well.	Velms	Pet. Corp	<u> </u>	
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			City H	obbs			Stat	e Now Mox100
					nder Perm			and is located in th
	\$ 00 8	de Pro	•					208 Rge. 38E
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813	FALL FOR L.		24	_				
331	FOUL.	1,10996	City H					e Now Mezion
	:1.	111	Drilling v					19.56
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	lat or 640		_	_				
Elevation	r at top o	of casing	in feet above se	a level		Total de	pth of well	80 st.
State wi	ethar we	ell is shall	low or artesian.	LIBRO	FOM	Depth to wa	ter upon cor	mpletion 25 16 s
Section 2	<b>:</b>		PRIN	ICIPAL WA	ATER-BEAR	ING STRATA	•	
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#### LOG OF WELL

Hapth i		Thickness	Color	Type of Material Encountered
From	То	in Feet		2,7,7 0
T THE MAN IN THE PARTY.				
ω.Ω	3	3	Brown	Soil, Sand
	50	47	White	Clesobie
50	_55	5	Red	Sandy shale
52	63	10	White	Aqueous rook
. 169	77	12	Brown	Sand stone
. 65 _ 77 _	80	3	Red	Ahale
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

Section 6. LOG OF HOLE							
Depti.	m Feet	Thickness in Feet	Color and Type of Material Encountered				
From	То	III I CCI					
0	25		Caliche				
25	37		Red shale	#25			
3//_	50		Water Sand	, and an analysis			
5()	175	and the second second second second	Sand and shale				
175	840		Red bed				
840	885		Water sand				
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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Location: 20.37.3.13100'

Owned: W. K. Byrom

J. W. Cooper G

Record of Casing: 16" - 135'

Cable

1650' RID - 330'FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

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 	<del></del>
Driller	
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Elevation:

3558' TC

WSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All ons, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened. Inen this form is used as a plugging record, only Section 1(a) and Section. need be completed.

Section 6. LOG OF HOLE

Depth	in Feet	Thickness	Section 6. LOG OF HOLI		
From	То	in Feet	Color and	Type of Material Encountered	
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30	40	-	Red shale	#26	
40	50		Water Sand		w state
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562	582		Water sand 8 BPH		to the same an assessment of the same languages.
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1007	1052		Water sand		
1052	1105		Shale		1 h annual and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second an
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Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record	is an e	xcerpt from Oi	l Conservation	Commission	files at Hobbs.	N.M.

Location: 20.37.3.14000
Owner: W. K. Byrom

f. W. Cooper 'B" #1

Record of Casing: 20" - 75'

10" - 250'
Cable 8" - 200'

Casing pulled

1980' FML - 1980' FWL

Elevation: 3560' GL

Acoust P

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

Section 6. LOG OF HOLE						
Depth	in Feet	Thickness	Color and Type of Material Encountered			
From	То	in Feet	Color and Type of Material Encountered			
()	10	· · · · · ·	Cellar			
10	20		Caliche			
20	.25		Sand #27			
25	540		Shale, red rock			
540	593		Water sand			
593	1020		Red bed, shale			
1.020	1043		Water sand			
1043	1193		Sandy shale, sand			
1193	1200		Sand - water			
1200	1208		Sand - hard			
THE R. P. LEWIS CO., LANSING						
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		Section 7	7. REMARKS AND ADDITIONAL INFORMATION			

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.H.

Location: 20,37.3.21000

Owner: W.K. Byrom

J. W. Cooper "C" Casing: 16" Record of Casing: 75'

812" - 2001

51211 - 200

Casing pulled

Cable

660 Fill. 1980' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole

Driller

Elevation: 3563' TC

IHSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State fundacer. All ons, except Section 5, shall be answered as completely and accurate possible when any well is drilled, repaired or deepened. .nen this form is used as a plugging record, only Section 1(a) and Section . need be completed.

Salve Calabara Carg			Section 6. LOG OF HOLE	
Depth i	n Feet To	Thickness in Feet	Color and Type of Material Encountered	:
0	15		Caliche	r.
1.5	541		Red shale #28	:
541	580		Water sand - Hole full water	
580	1338		Red shale	
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his well i	ecord is	an excerpt	from Oil Conservation Commission files at Hobbs, N	ν
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	<u>-</u>		
Location: 70.37.3.212434		Elevation:	- 3563 topo
Owner: W. K. Byrom			. •
J. W. COOPER #3			•
Record of Casing: 8 5/8"	- 1338'		

660' FNL - 1550' FEL

Rotary

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above

lescribed hole.	
	riller

INSTRUCTIONS. This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All ons, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened. .nen this form is used as a plugging record, only Section 1(a) and Section . need be completed.

ru <del>comut</del> r an			Section 6. LOG OF HOLE	·
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0	20		Caliche	
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		Section '	7. REMARKS AND ADDITIONAL INFORMATION	

This well record is an excerpt from Oil Conservation Commission	tiles a	at Hobbs. N.M.
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Location: 20.37.3.221344

Owner: Shell Oil Co.

State #1
Record of Casing: 8 5/8"

- 1843'

Cable

660' FNL - 990' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the f	foregoing is a true and correct recor	d of the above
described hole.		
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Driller

INSTRUCTIOUS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Fugineer. All ons, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened. Inen this form is used as a plugging record, only Section 1(a) and Section . need be completed.

Depth i	n Feet	Thickness	Section 6. LOG OF HOLE	
From	То	in Feet	Color and Type of M	laterial Encountered
0	100		Sand, caliche	
100	210		Sand gravel	#30
210	1.050		Red bed, red rock, shells	_
1050	1.061		Sand, shell	,
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#### Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 20.37.3.31100 Owner: Tenneco Oil Co.

Elevation: 3560' TTH

Eilen Weir Com. Record of Casing: 10 3/4"

Rotary

2310 * FSL - 330 * FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller	
DIMO	

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to " a appropriate district office of the State Engineer. At lons, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened when this form is used as a plugging record, only Section 1(a) and Section . need be completed.

Section 6. LOG OF HOLE

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From	in Feet To	Thickness in Feet	Color and Type of Ma	terial Encountered
0	20		Caliche	
20	28		Sand	
28	45		Sandshow water	#31
45	960		Red bed, red rock, shale	
960	1010	·	Sand	
1010	1045		Sand hole full water	
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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This	well	record	is	an	excerpt	from	011	Conservation	Commission	files	at	Hobbs,	и.н.

Location: 20.37.3.33300 Owner: W. K. Byrom J. W. Cooper Elevation: 3559' GL

Record of Casing: 16"

Cable

330' FSL - 330' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole

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Dri	ller

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SECTION 4
Township 20 South, Range 37 East

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Section 6, LOG OF HOLE

Depth   Feet	Oceth	L. Reel	Thickness	Section 6. LOG OF HOLE	عمان والدينونون يعسمون در د
130   Sand water   #35     130   1242   Red bed, red rock, sandy shells     L S Elev		1		Color and Type of Material Encountered	
130   Sand water   #35	O			Caliche	
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Section 7. REMARKS AND ADDITIONAL INFORMATION	1000, 2 21 1100000		Section 7	. REMARKS AND ADDITIONAL INFORMATION	

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 20.37.4.14000

Owner: Getty Oil Co.
H. E. Laughlin: #1

Record of Casing: 13" - 212'

Rocary

1980' FNL - 1980' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

tern som telre
Driller

Elevation: 3570' DF

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer, All ons, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened. .nen this form is used as a plugging record, only Section 1(a) and Section . need be completed.

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This well record is an excerpt from Dil Conservation	Commission files	at Hobbs, K.M.
Togation: 0.37.4.22100	Elevation:	36541 GL
Owner: W. 1. Byrom  W. Cooper "E" #1  Record of Casing: 12½" - 166'  10" - 640'		
Cable	$\mathcal{L}_{L_{i}}, \mathcal{L}_{i}$	
130 ' 140, 200 ' FEL		

the andersigned weekly certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the adore described hole.

Driller	

ONSTRUCTION: This form should be executed in triplicate, preferably typewritten, and submitted to be appropriate district office of the State Entineer. All ons, except Section 5, shall be answered as completely and accurate possible when any well is drilled repaired a deepened, when this form is used as a plugging record, only Section 1(a) and Section need be completed.

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### Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

20.37.4.42000 Location:

Owner: W. K. Byrom

Humble Laughlin Battery 2 #2 Casing: 16" - 190'

Record of Casing: 16"

Rotary

1980' FSL - 660' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

<del></del>	Driller

Elevation:

3553' GL

SECTIONS 9 AND 10

Township 20 South, Range 37 East

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Section 6 LOG OF HOLE

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18	145		Sand, gravel	<u> </u>		
145	205		Red bed	(	#43	
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		Section	7. REMARKS AND ADDIT	IONAL INFORMATIO	ON .	

Section 7. REMARKS AND ADDITIONAL INFORMATION

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 20.37.9.21000

Omer: Amerada Hess Corp.

V. Laughlin #3

Record of Casing: 121/2"

- 181

Rotary

660' FNL - 1980' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

Elevation: 3557' DF

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A ions, except Section 5, shall be answered as completely and accurat possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section need be completed.

COUNTY

COUNTY

NON CON CONTRACT

NOV. SEP. JUL. MAY. HAN.

# STATE ENGINEER OFFICE WELL RECORD

#### Section 1, GENERAL INFORMATION

(A)	Owner of	well	Trent S	stradley			Owne	er's Well No	
	Street or City and	Post Office Ad State	dress	lobbs. N	.M. 8824	10			
Well	was drilled	under Permit	NoL-10	150		and is located	in the:		
	8	_ ¼ ¼	NW % S	<u>SE</u> ¼ of Se	ction 9	Township _2	20S Ra	nge <u>37E</u>	N.M.P.M.
	b. Tract	No	of Map No	•	of the	· · · · · · · · · · · · · · · · · · ·			
					of the				
									Zone in Grant.
(B)									32
Addı	ess		1335 Ka	ty Lane	. Hobbs.	N.M. 88	3240		
Drill	ing Began .	11-19-9	0 Com	pleted1	1-19-90	Type tools_f	Rotary	Size of h	iole <u>8</u> in.
Elevi	tion of lar	nd surface or _			at well	is	_ ft. Total depth	of well 46	ft.
	pleted wel		nallow 🗀 a						ft.
	•				CIPAL WATER	BEARING ST	RATA		
<u></u>		in Feet	Thickness in Feet	,	Description of V	Vater-Bearing F	ormation		ated Yield per minute)
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<u></u>	iameter	Pounds	Threads		in Feet	OF CASING Length			Perforations
	inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Sh	oe Fro	····
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	opportunities with the second								
			Secti	ion 4. RECO	RD OF MUDDI	NG AND CEM	ENTING		
	Depth From	in Feet To	Hole Diameter	Sack of M		bic Feet Cement	Meth	od of Placem	ent
L			<u> </u>	_1		<del></del>			
Plug	ing Contr	actor			on 5. PLUGGIN	G RECORD			
Addı	ess					No.	Depth in		Cubic Feet
Date	Well Plugg	ged		· · · · · · · · · · · · · · · · · · ·		1	Тор	Bottom	of Cement
Plugg	ging appro	ved by: 	<b>.</b>			23			
			State Eng	gineer Repres	entative	4			
<del></del>									
==== Date	Received	June 20	), 1991	FOR USE	OF STATE EN	GINEER ONL	Y		
≃— Date	Received	June 20	), 1991	FOR USE					FSL

Depth i		Thickness	Color and Type of Material Encountered						
From	То	in Feet							
0	4	4	Top Soil						
4	15	11	Caliche						
15	30	15	White Clay						
30	40	10	Soft Water Sand						
40	46	6	Red Bed						
!									
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	<del></del>								
		<u> </u>							
	:								

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer All and submitted to the appropriate district office nossible when any well is

of the State Engineer. All drilled, repaired or deepen:

ons, except Section 5, shall be answered as completely and accurate in this form is used as a plugging record, only Section 1(a) and Section

I be completed.

Section 6, LOG OF HOLE

Depth in Feet		Thickness	Section 6. LOG OF HOLE							
From To		in Feet	Color and Type of Material Encountered							
0	80		Caliche							
80	479		Red bed #47							
			L S Elev							
			Depth to KTrc\$\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fi							
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		Section	7. REMARKS AND ADDITIONAL INFORMATION							

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Location: 20.37.10.11000

Owner: Texaco Inc.

E. H. B. Phillips #1

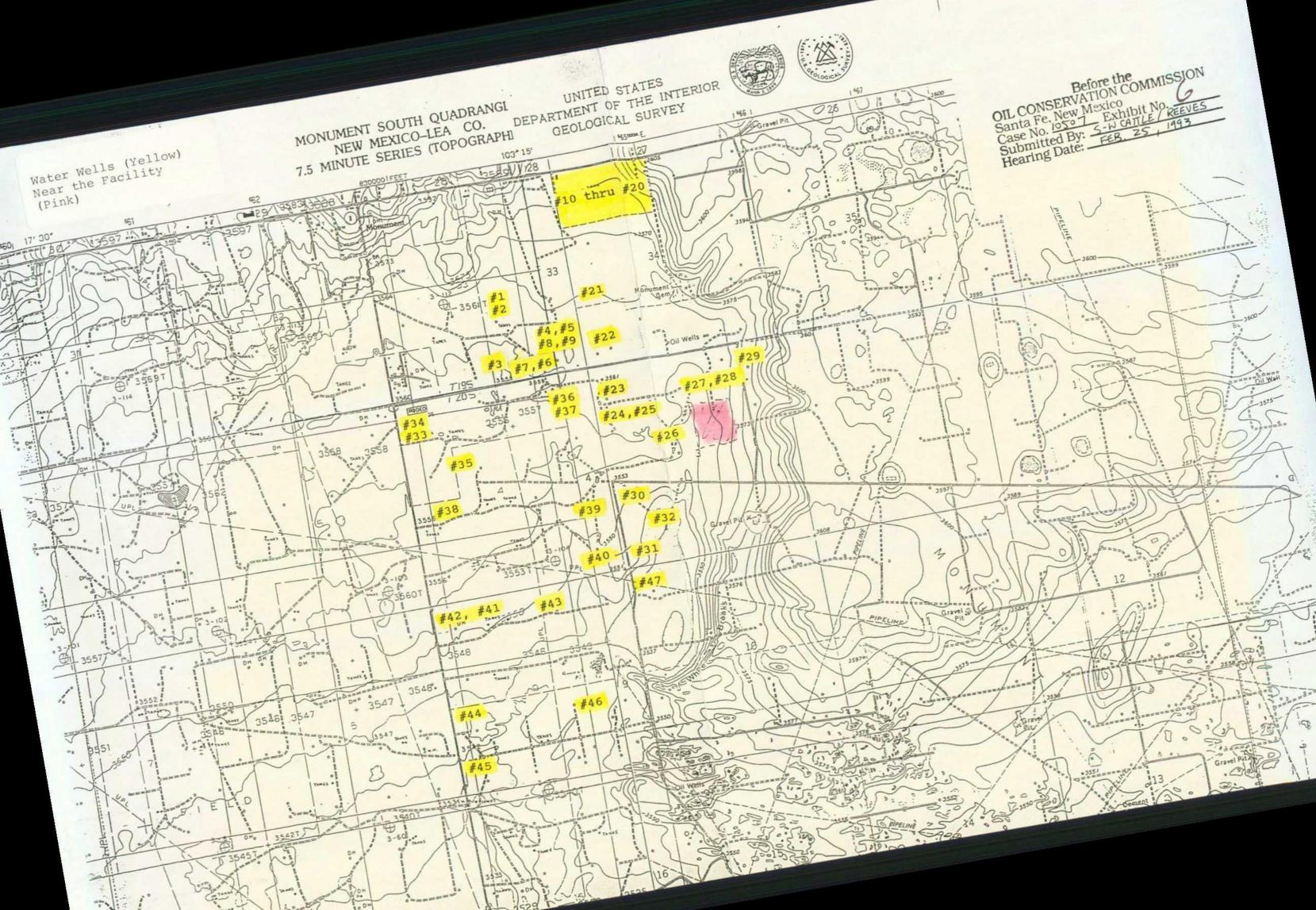
Record of Casing: 9 5/8" - 1330'

660' FNL - 660' FWL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller Driller

Elevation: 3544'



### Water Wells Near the Facility with Depth to Water Level in Feet

#### Township 19 South, Range 37 East:

- #1 Sec 33.4132 Water Level 39'
- #2 Sec 33.41341 Water Level 35'
- #3 Sec 33.434 Water Level 29'
- #4 Sec 33.442122 Water Level 23'
- #5 Sec 33.442142 Water Level 31'
- #6 Sec 33.44322 Water Level 42'
- #7 Sec 33.44323 Water Level 31'
- #8 Sec 33.44441 Water Level 42'
- #9 Sec 33.444411 Water Level 31'
- #10 Sec 34.111114 Water Level 22'
- #11 Sec 34.11140 Water Level 30'
- #12 Sec 34.11223 Water Level 35'
- #13 Sec 34.11233 Water Level 24'
- #14 Sec 34.11233 Water Level 20'
- #15 Sec 34.112333 Water Level 24'
- #16 Sec 34.112334 Water Level 23'
- #17 Sec 34.1124 Water Level 36'
- #18 Sec 34.11243 Water Level 35'
- #19 Sec 34.11323 Water Level 24'
- #20 Sec 34.12133 Water Level 36'
- #21 Sec 34.31313 Water Level 25'
- #22 Sec 34.3441 Dry

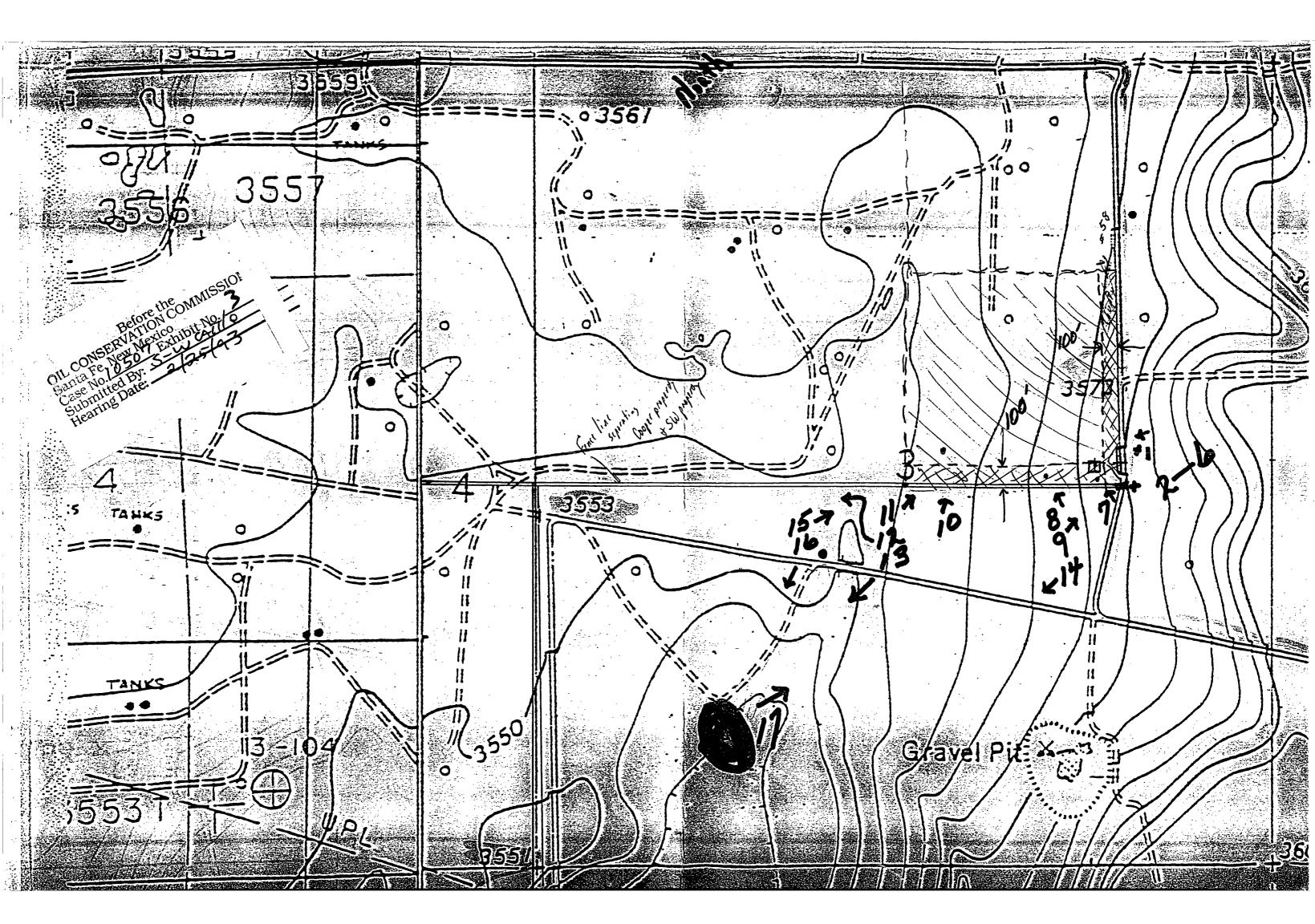
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	6	5	4	3	2	l	
	7	8	9	10	1	12	
T.	18	17	16	15	14	13	E
T. 19 S.	19	20	21	22	23	24	φ   φ
	30	29	28	27	26	25	, ,
	31	32	33	34	35 /	-Well 36	
	~		19. 14	1.35. 	2- 2- 3 	42	WELL

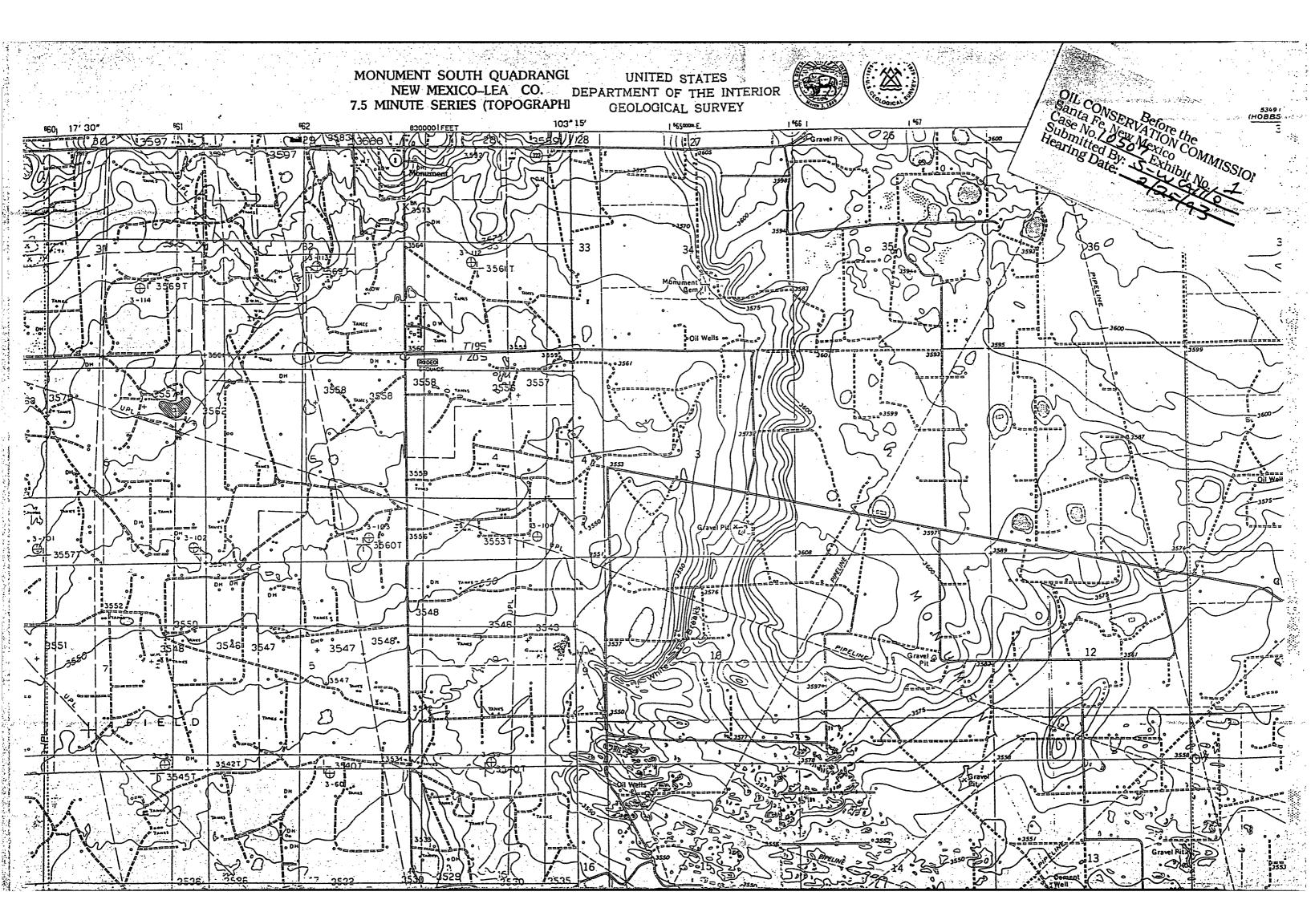
Tracts within a section

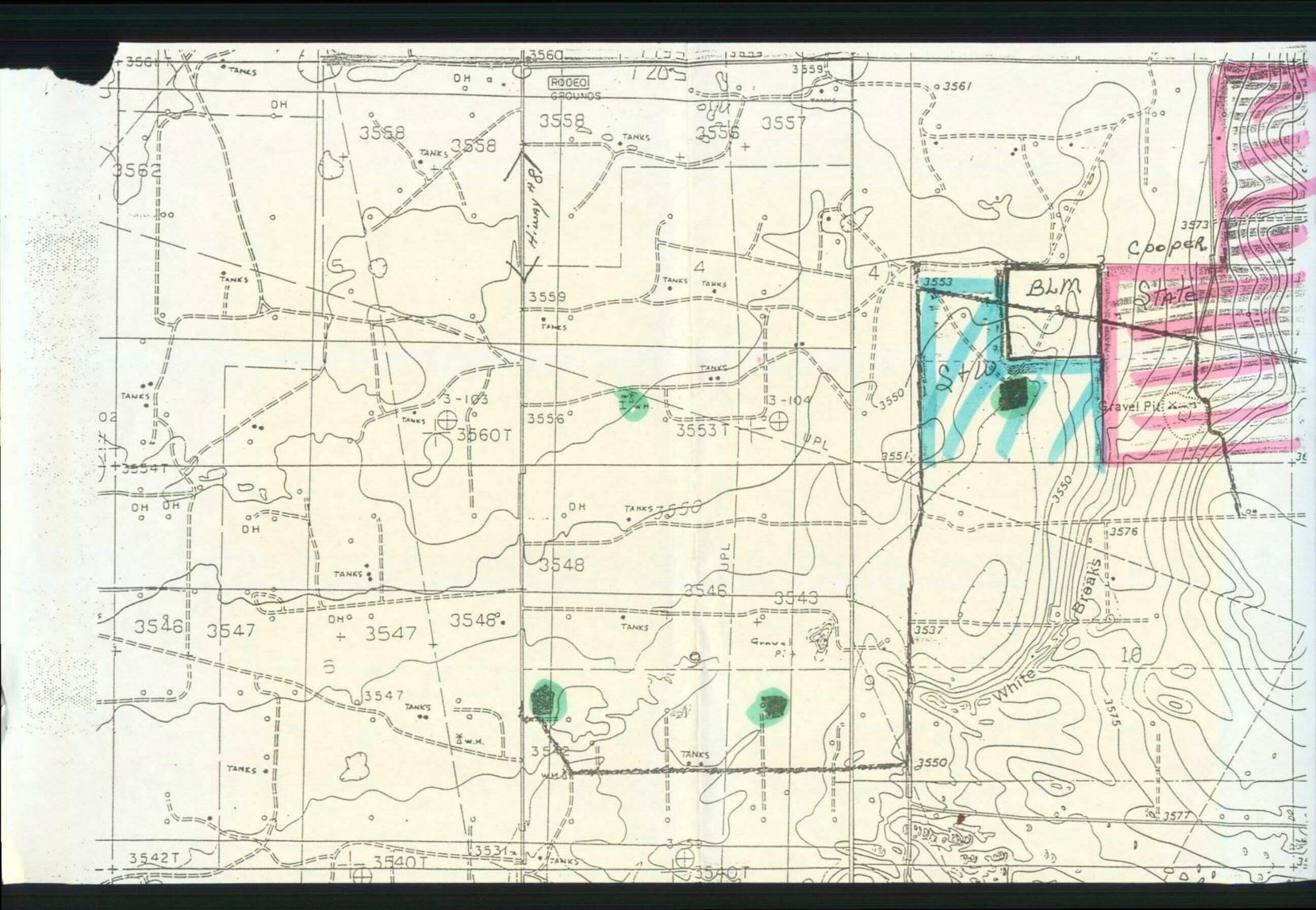
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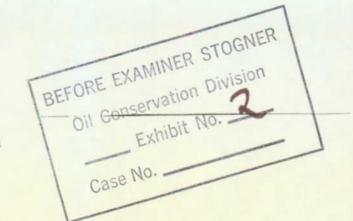
# Township 20 South, Range 37 East:

- #23 Sec 3.11100 Water Level 37'
- #24 Sec 3.1130 Water Level 55'
- #25 Sec 3.13100 Water Level 37'
- #26 Sec 3.14000 Water Level 40'
- #27 Sec 3.21000 Water Level 540'
- #28 Sec 3.212434 Water Level 541'
- #29 Sec 3.221344 Water Level 541'
- #30 Sec 3.31100 Water Level Unknown
- #31 Sec 3.33300 Water Level 28'
- #32 Sec 3.34131 Water Level 15'
- #33 Sec 4.111311 Water Level 30'
- #34 Sec 4.111312 Water Level 29'
- #35 Sec 4.14000 Water Level 70'
- #36 Sec 4.22100 Water Level 37'
- #37 Sec 4.221321 Water Level 31'
- #38 Sec 4.312434 Water Level 29'
- #39 Sec 4.42000 Water Level 35'
- #40 Sec 4.44411 Water Level 20'
- #41 Sec 9.112114 Water Level 34'
- #42 Sec 9.112122 Water Level 29'
- #43 Sec 9.21000 Water Level Unknown
- #44 Sec 9.31113 Water Level 25'
- #45 Sec 9.33122 Water Level 13'
- #46 Sec 9.41411 Water Level 30'
- #47 Sec 10.11000 Water Level Unknown









Active Oil Field Roads

County Road

Elevations

State Land

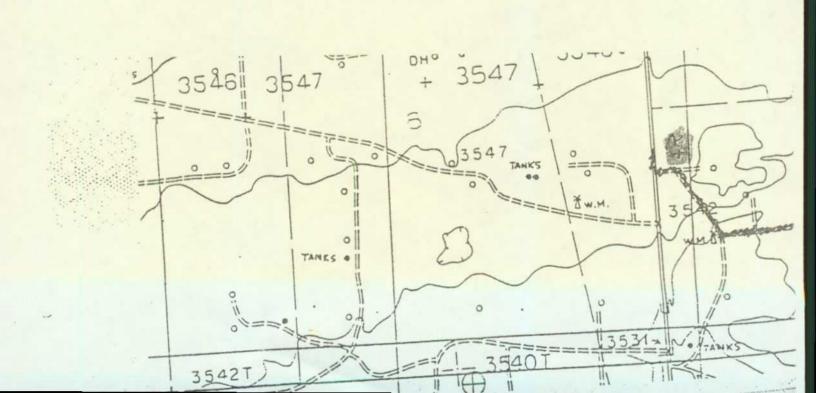
Fee Land

Water Wells

Well #1 -Located NW4, SE4, Sec. 9
45' with 22' of water

Well #2 -Located NW%, SW%, Sec. 9
50' with 25' of water

Well #3 (Windmill) Located SW1, Sec. 9
31' with 16' of water



NEW MEXICO OIL CONSERVATION DIVISION

CICLADARI ENC GENERAL LANDFARM GUIDELINES

FOR COMMERCIAL LANDFARMS

(December 1992)

# **LANDFARM OPERATION**

- 1. Disposal will only occur when an attendant is on duty. The facility will be secured when no attendant is present.
- 2. The facility will be fenced and have a sign at the entrance. The sign will 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. An adequate berm will be constructed and maintained to prevent runoff and runon for that portion of the facility containing contaminated soils.
- 4. All contaminated soils received at the facility will be spread and disked within 72 hours of receipt.
- 5. Soils will be spread on the surface in six inch lifts or less.
- 6. Soils will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.
- 7. Successive lifts of contaminated soils will not be spread until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 parts per million (ppm), and the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and the benzene is less than 10 ppm. Comprehensive records of the laboratory analyses and the sampling locations will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
- 8. Only oilfield wastes which are exempt from the RCRA Subtitle C regulations or non-hazardous by characteristic testing will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results must be submitted to the OCD along with a request to receive non-exempt solids, and a written OCD approval (case specific) must be obtained prior to disposal. Any non-oilfield wastes which are RCRA Subtitle C exempt or are non-hazardous by characteristic testing will only be accepted on a case-by-case basis and with prior OCD approval. Comprehensive records of all laboratory analyses and sample locations well be maintained by the operator.
- 9. Moisture will be added as necessary to enhance bioremediation and to control blowing dust. There will be no ponding, pooling or run-off of water allowed. Any ponding of precipitation will be removed within seventy-two (72) hours of discovery.

- 10. Enhanced bio-remediation through the application of microbes (bugs) and/or fertilizers will only be permitted after prior approval from the OCD. Request for application of microbes must include the location of the area designated for the bio-remediation program, composition of additives, and the method, amount and frequency of application.
- 11. No free liquids or soils with free liquids will be accepted at the facility.
- 12. Comprehensive records of all material disposed of at the facility will be maintained at the facility. The records for each load will include: 1) the origin, 2) date received, 3) quantity, 4) Exempt or non-exempt status and analysis for hazardous constituents if required, 5) transporter, and 6) exact cell location and any addition of microbes, moisture, fertilizers, etc.

# TREATMENT ZONE MONITORING

- 1. One (1) background soil sample will be taken from the center portion of the landfarm two (2) feet below the native ground surface prior to operation. The sample will be analyzed for total petroleum hydrocarbons (TPH), general chemistry, volatile aromatic organics (BTEX), and heavy metals using approved EPA methods.
- 2. A treatment zone not to exceed three (3) feet beneath the land farm will be monitored. A minimum of one random soil sample will 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 will be taken at two to three (2-3) feet below the native ground surface.
- 3. The soil samples will be analyzed using approved EPA methods for TPH and BTEX quarterly, and for general chemistry and heavy metals annually.
- 4. After obtaining the soil samples the boreholes will be filled with an impermeable material such as bentonite cement.

# **REPORTING**

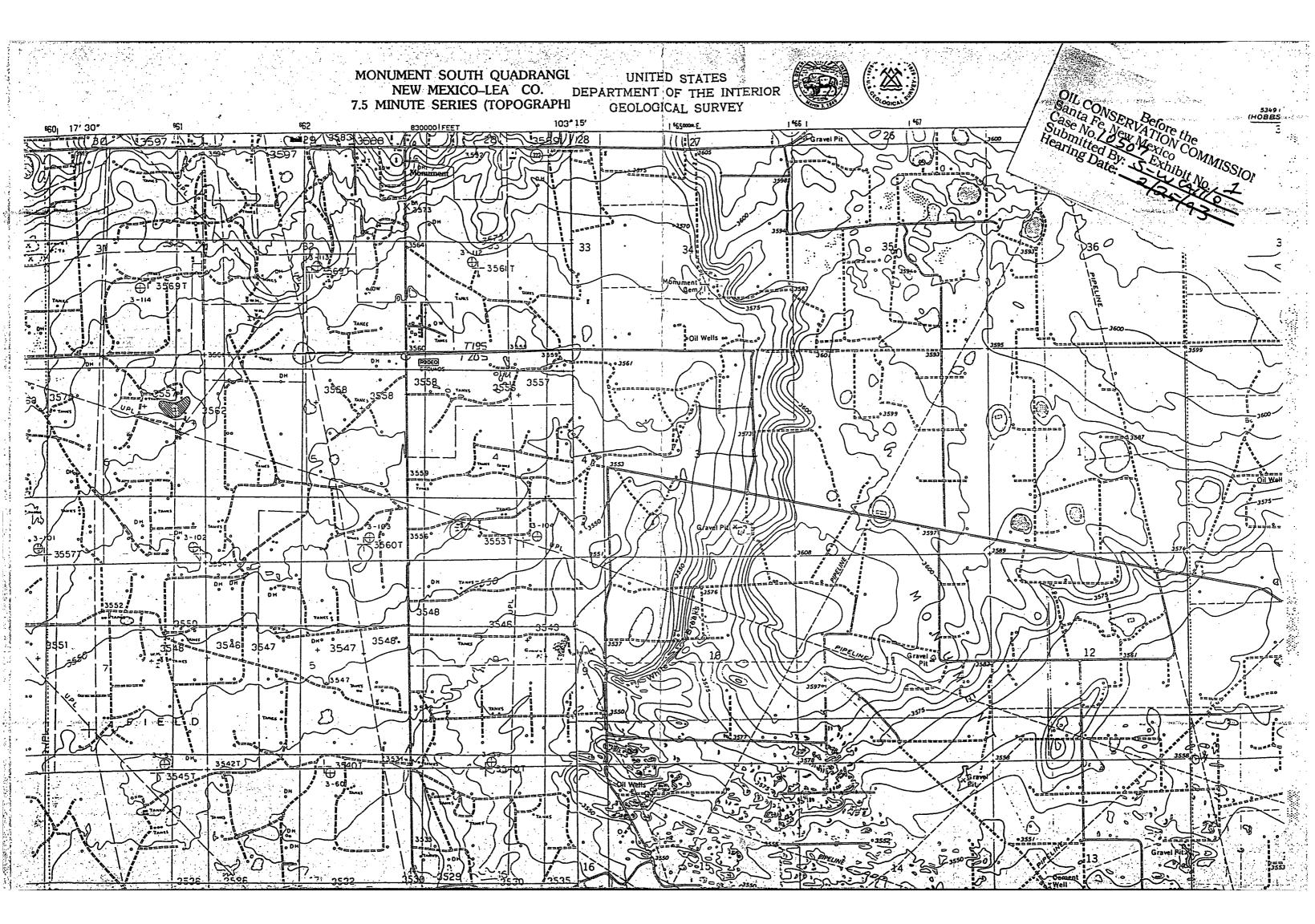
- 1. Analytical results from the treatment zone monitoring will be submitted to the OCD Santa Fe Office within thirty (30) days of receipt from the laboratory.
- 2. The OCD will be notified of any break, spill, blow out, or fire or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116.

# **BOND**

Pursuant to OCD Rule 711 a surety or cash bond in the amount of \$25,000, in a form approved by the Division, is required prior to commencing construction of the commercial surface disposal facility.

# **CLOSURE**

The operator will notify the Division of cessation of operations. Upon cessation of disposal operations for six (6) consecutive months, the operator will 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. When the facility ceases operations When the facility is to be closed no new material will be accepted. Existing soils will be remediated until they meet the OCD standards in effect at the time of closure. The area will then be reseeded with natural grasses and allowed to return to its natural state. Closure will be pursuant to all OCD requirements in effect at the time of closure.



# State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088

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PONCOMME<mark>SSION</mark> Mar Harko

Santa Fe, NM 87501

T 373	2/25/93
County Political Control	APPLICATION FOR SURFACE WASTE DISPOSAL FACILITY
	(Refer to OCD Guidelines for assistance in completing the application.)
ī.	Type: Produced Water Drilling Muds Treating Fluids Solids Other
II.	OPERATOR: C & C Landfarm Inc.
	ADDRESS: Box 55 Monument, NM 88265
	CONTACT PERSON: Jimmie T. Cooper PHONE: 505-397-2045
III.	LOCATION: SW /4 NE /4 Section 3 Township 20 Range 37 E  Submit large scale topographic map showing exact location.
IV.	IS THIS AN EXPANSION OF AN EXISTING FACILITY?
V.	Attach the name and address of the landowner of the disposal facility site and landowners of record within one-h of the site.
VI.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility
VII.	Attach detailed engineering designs with diagrams prepared in accordance with Division guidelines construction/installation of the following: pits or ponds; leak-detection systems; aerations systems; en evaporation (spray) systems; waste treating systems and security systems.
VIII.	Attach a contingency plan for reporting and clean-up of spills or releases.
IX.	Attach a routine inspection and maintenance plan to ensure permit compliance.
X.	Attach a closure plan.
XI.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impawater.
XII.	Attach proof that the notice requirements of OCD Rule 711 have been met. (Commercial facilities only.)
XIII.	Attach a contingency plan in the event of a release of H ₂ S.
XIV.	Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations orders.
XV.	CERTIFICATION
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Eddie W. Seav Title: Agent/Consultant
	Signature: Edd. 10 lea. Date:
	DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

### APPLICATION FOR SURFACE WASTE DISPOSAL FACILITY

- I. Type: Solids Oil or Salt water contaminated soils from production facilities only.
- II. OPERATOR: C & C Landfarm Inc.
  ADDRESS: Box 55 Monument, NM 88265
  CONTACT PERSON: Jimmie T. Cooper
  PHONE: 505-397-2045
- III. LOCATION: SW 1/4 of the NE 1/4 of Section 3. Township 20, Range 37 East, Lea Co., NM.
  - IV. IS THIS AN EXPANSION OF AN EXISTING FACILITY? No, this is a new facility.
  - V. LANDOWNER OF FACILITY SITE
    Jimmie T. Cooper
    P.O. Box 55
    Monument, NM 88265

LANDOWNERS OF RECORD WITHIN 1/2 MILE State of New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504

> S & W Cattle Co. 8900 South County Rd. 58 Monument, NM 88265

J.R. Williams, et al P.O. Box 215 Monument, NM 88265

A.C. Doyall P.O. Box 188 Monument, NM 88265

# VI. DIAGRAM (attached)

- (A) Excavate area as needed down to top of redbed approximately 10 to 12 feet. Use overburden to build burms around site to prevent and restrict rain run off and drainage to facility.
- (B) Fence around all sides, with chain link fence adjacent to County Road 58.
- (C) Gate with cattle guard at entrance. Open during daylight hours only.
- (D) 5 monitor wells on North, South, East, and West sides.
- (E) Signs posted with restrictions and permit no.

(F) Any other improvement as needed or required by OCD.

### VII. DRAWING OF MONITOR WELL (attached)

Excavate land area down to redbed, dispose of contaminated soil in 6 in. lifts and till or plow every 30 to 60 days as needed to ensure proper aeriation so soil can be cleaned up by natural remediation according to government standards. Have soil tested for TPH and BTEX before adding new lift as required.

# VII. CONTINGENCY PLAN (NA)

There will be no liquids at facility. Any soil accidentally spilled at facility will be picked up with front end loader and deposited within landfill. No material will be accepted without documentation.

# IX. ROUTINE INSPECTION AND MAINTENANCE PLAN

- (1) Weekly inspection of monitor wells.
- (2) Road area around facility will be graded and kept free of oily dirt.
- (3) All loads will be documented and logged.
- (4) No liquids accepted.
- (5) No tank bottoms accepted.
- (6) Area will be posted with proper signs.
- (7) No dumping will be allowed unless facility is open.
- (8) May require letter from company showing waste has not been mixed with non-exempt waste.
- (9) All area properly fenced with locked gates.
- (10) Each lift will be tested for BTEX Method 602 and TPH Method 8015 EPA test requirements before adding new lift.

## X. CLOSURE PLAN

All overburden will be removed down to the redbed. averaging from 12 ft. on the east side, to 16 ft. on the west side.

Disposal of solids will start at redbed, when area has been filled and tested to within 1 ft. of surface elevation, area will be backfilled with top soil, mound over and compacted. The mound should prevent rain or water from standing or leaching into backfill.

All fences will be left in tact and monitor wells left in place for future monitoring.

Also, any additional rule or regulation at time of closure will be adhered to.

XI. Geographically, the site is situated near the western boundary of the southern extension of the High Plains in Southeastern New Mexico. The site in question is a 40 acre tract located in Unit G, Section 3, Township 20, Range 37 E, Lea Co., NM.

The site which is bordered by County road 58 on the east, has a gradual surface slope to the west. To the SE of this site in Unit Lettter O is a large pit with the redbed exposed. Redbed is a layer of relatively impermeable clays, red to reddish brown in color, underlying the fresh water aquifer in SE New Mexico ranging in thickness up to 1200 ft.

C & C Landfarm Inc. is located on or near the redbed layer. A series of test wells were drilled to define the redbed and check for fresh water.

# TEST WELL LOGS

- #1 Located 100 yds. N of NW corner 0-1 ft. Top Soil 1-18 ft. Caliche, Rock 18-20 ft. Redbed All formations dry.
- #2 Located 125 ft. N of the south line on the extreme west edge.

  0-1 1/2 ft. Top Soil
  1 1/2-16 ft. Caliche, Rock
  16-18 ft. Redbed
  All formations dry.
- #3 Located 100 yds. E of the west line on the south side.
  0-1 ft. Top Soil
  1-15 ft. Caliche, Rock
  15-17 ft. Redbed
  All formations dry.
- #4 Located 50 yds. W of the east line on the south border.
  0-1 ft. Top Soil
  1-13 ft. Caliche, Rock
  13-16 ft. Redbed
  All formations dry.
- #5 Located 150 yds. W of east line on the north side.
  0-1 ft. Top Soil / 3

1-14 ft. Caliche, Rock 14-17 ft. Redbed All formations dry.

* An area in the middle of the east edge of the property, was excavated with a backhow. Rock and caliche at 0-12 ft. Redbed was encountered at 12 ft.

The wells were drilled with rotary rig, no water was excountered, only caliche, rock, and sand down to redbed. The redbeds came in at 12 ft. on the east side, down to 17 ft. on the west side. The five wells drilled were completed into the redbed and cased with 3 in. PVC pipe with 5 ft. of screen on bottom with the top 2 ft. cemented and capped. Wells to be secured with locks and used as monitor wells.

Researched State Engineers records and U.S.G.S. file, no fresh water was recorded or found within area of review. A physical inspection was made and a windmill was found approximately 1 mile SW of the site, a sample was taken and analysis recorded for future use.

We feel this is one of the better sites for deposit of contaminated soil due to the thickness of redbeds, little or no fresh water in the area, a monitor system is in place for control of system. This system is in the middle of the oil and gas production and will serve a valuable environmental need, both regulatory and industrial.

- XII. PROOF OF OCD RULE 711 (attached)
- XIII. CONTINGENCY PLAN FOR RELEASE OF H2S (NA)

Open pit system should not have H2S. If encountered. OCD Rule 118 will be adhered to.

XIV. All State of New Mexico, Oil Conservation rules will be enforced as they pertain to this system.

C & C LANDFARM INC. Additional information to Application for Surface Waste Disposal.

I. The thickness of the redbeds varied from area to area in Section 3. The information was taken from logs of producing oil wells in the area and lithology reports.

Unit	С	Top	20	ft.	Base	960	ft.
	F	_	30	ft.		562	ft.
	В		14	ft.		880	ft.
	H		15	ft.		1350	ft.
	M		30	ft.		1270	ft.
	L		40	ft.		1050	ft.

with the average thickness being 987 ft.

II. Groundwater in the area; Figure I is a copy of the State Engineer's water analysis and locations for this area, none were listed in Sect. 3. The windmill SSW of our proposed site appears to be located in Unit M of Sect. 3 approximately 3/4 mile from site; Figure II is a copy of analysis from S & W windmill. Figure III indicates water wells in the general area showing top and bottom of water formation and contour line indicating direction of flow, which is SE. Figure IV is a contour map of top of redbed, with slopes to the SSE. Figure V is a contour map of the surface for the surrounding area, the direction of slope is to the west.

The contour maps provided are information from the State Bureau of Mines, which shows any movement at our site would run SE along the redbed surface and west along the top of ground.

If the State feels it is necessary, additional monitor wells can be installed or a redbed barrier constructed on the SW portion of our site to prevent any contaminate from moving.

III. Also provided are the mail receipts from registered letters.

Any additional information needed, please call (505)392-2236.

Eddie W. Seay Peak Consulting

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# WATER ANALYSIS REPORT

Company : S & W CATTLE CO Date : 10/29/91
Address : HOBBS, NEW MEXICO Date Sampled : 10/28/91
Lease : SECT 3 T20 R37 Analysis No. : 876
Well : UNIT M
Sample Pt. : WINDMILL

	ANALYSIS		mg/L		* meq/L
1.		ATIVE			
3. 4. 5.	Specific Gravity 1.0 Total Dissolved Solids Suspended Solids	00	2245.2		·
6.	Dissolved Oxygen				
7.	Dissolved CO2				
8.	Oil In Water				
9.	Phenolphthalein Alkalinit				
10.	Methyl Orange Alkalinity	(CaCO3)	291.0		
11.	Bicarbonate	HCO3	355.0	HCO3	5.8
12.	Chloride	Cl	599.1	Cl	16.9
	Sulfate	SO4	575.0	SO4	12.0
14.	Calcium	Ca	153.5	Ca	7.7
15.	Magnesium	Mg	66.1	Mg	5.4
16.	Sodium (calculated)	Na	496.4	Nā	21.6
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		655.6		

# PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	·	Compound	Equiv wt	X meq/L	=	mg,
8 *Ca < *HCO3 /> 5 *Mg> *SO4 <br 22 *Na> *Cl	12 17	Ca(HCO3)2 CaSO4 CaCl2 Mg(HCO3)2 MgSO4 MgCl2	81.0 68.1 55.5 73.2 60.2 47.6	5.8 1.8 5.4		471 125 327
CaSO4 * 2H2O 2090 mg	r 20 C //L //L	NaHCO3 Na2SO4 NaCl	84.0 71.0 58.4	4.7 16.9		33: 988

REMARKS: EDDIE SEAY

Petrolite Oilfield Chemicals Group

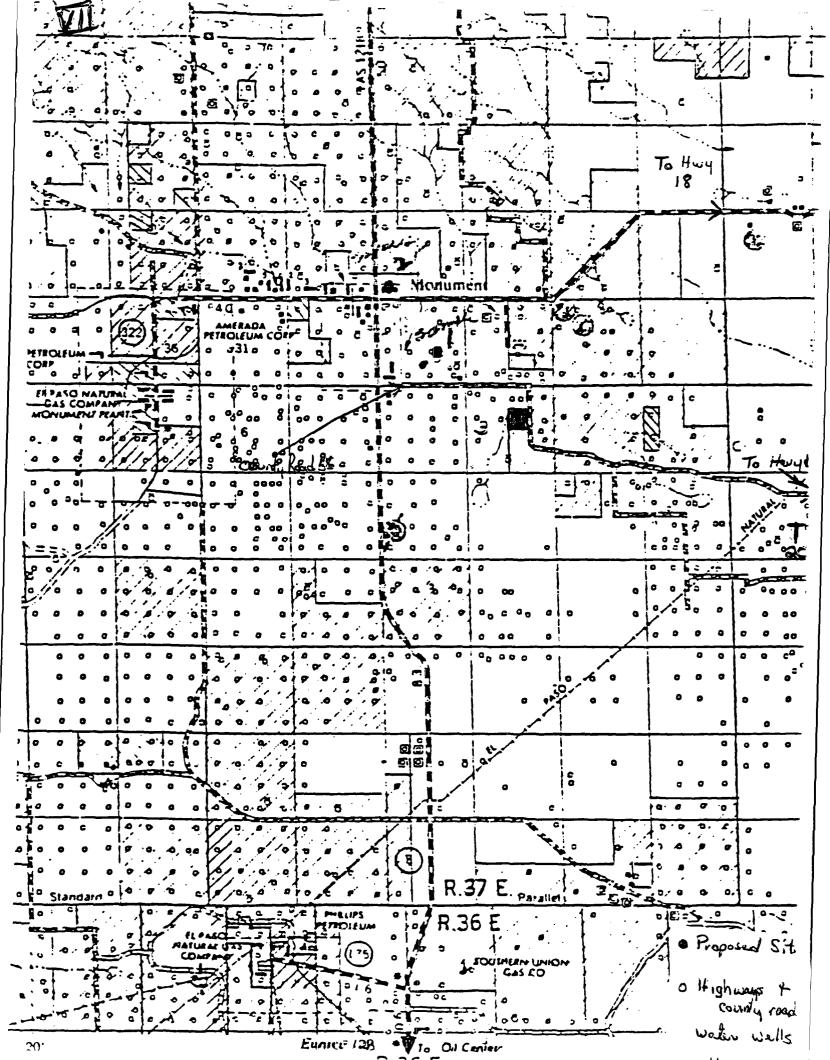
Respectfully submitted, ROZANNE JOHNSON

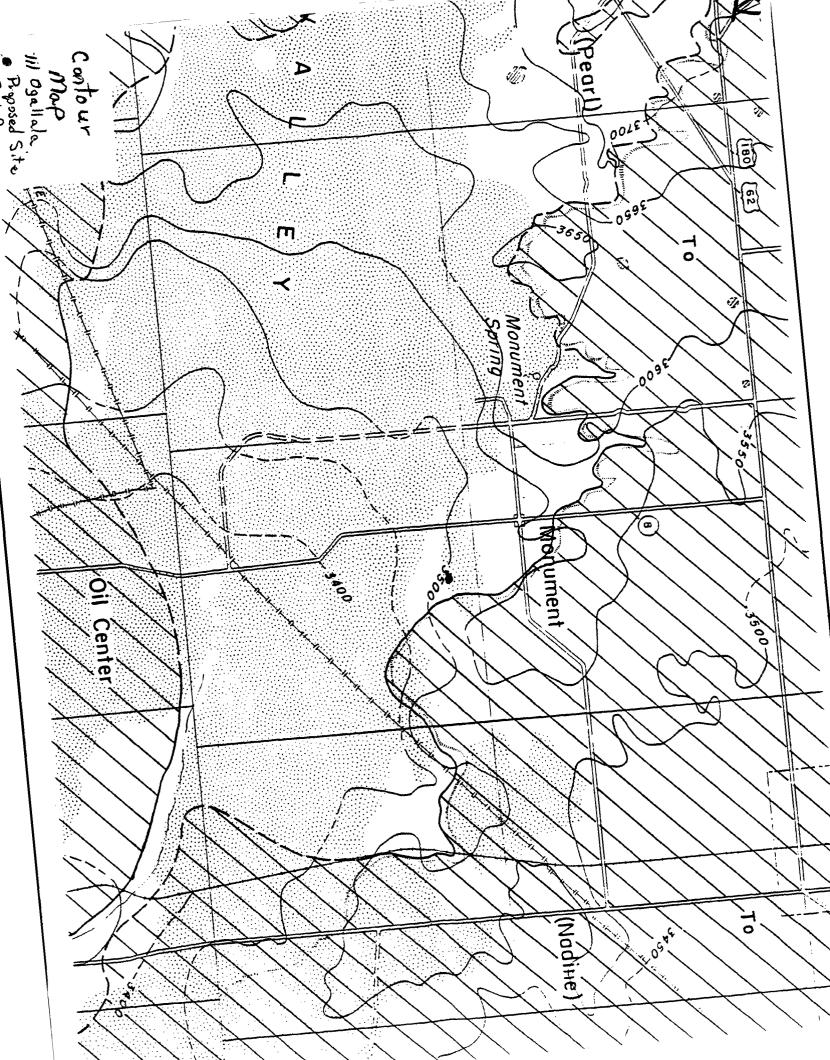
"Billy Walter Road County Road 58 <u> ಆ</u>ಥಕಾ OFFICE Pod Pod Tar Access Access Access to Mic Road Fence

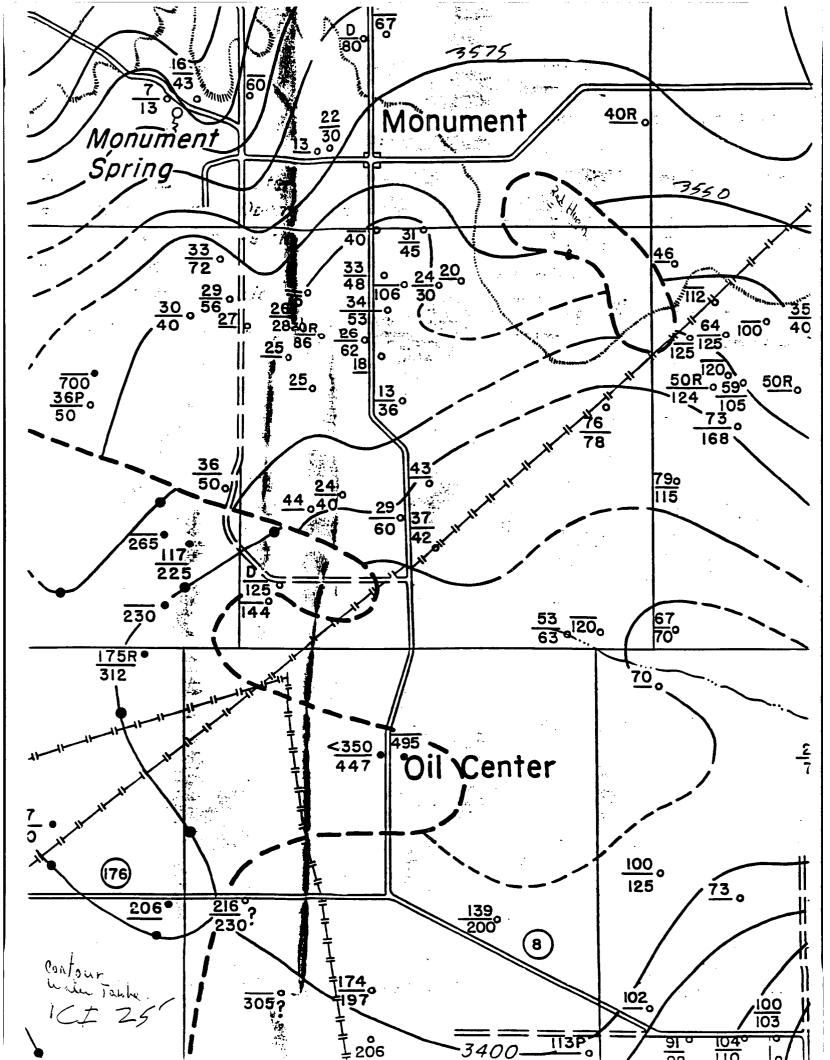
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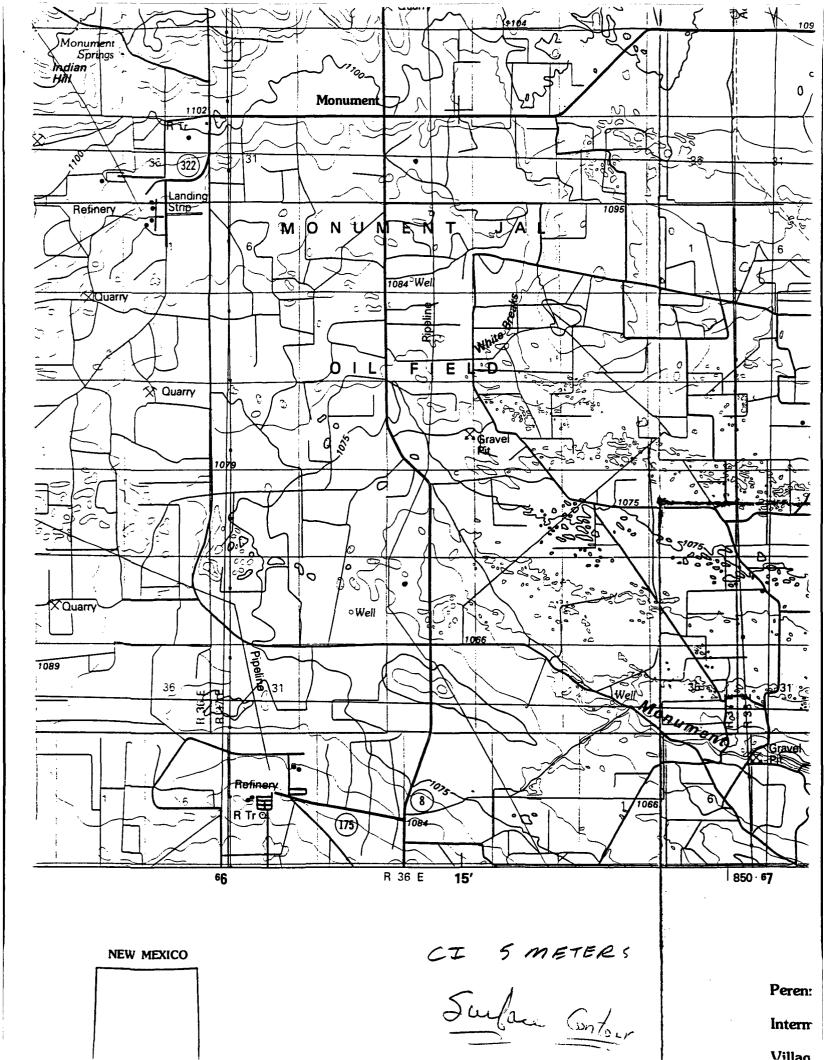
LEASE C+C Land farm LICATION Lit G S-3 T20 R37 E Test well - Moniter Well VII Back fill - Bentonite " casing set at Redbed

Hole size 64 "









October 1, 1991

Mr. A.C. Doyall P.O. Box 188 Monument NM 88265

Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission, State of New Mexico, notice is hereby given that Jimmie T. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

If there are any questions please contact:

Mr. Roger Anderson State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe. NM 87501 505-827-5884

Thank You.

October 1, 1991

Mr. J.R. Williams, et al P.O. Box 215 Monument NM 88265

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Pursuant to Rule 711 of the Oil Conservation Commission State of New Mexico, notice is hereby given that Jimmie 7. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

If there are any questions please contact:

Mr. Roger Anderson State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501 505-827-5884

Thank You.

Pakan 1 - may

October 1, 1991

S & W Cattle Co. 8900 South County Road 58 Monument NM 88265

Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission, State of New Mexico, notice is hereby given that Jimmie T. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

If there are any questions please contact:

Mr. Roger Anderson State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501 505-827-5884

Thank You.

October 1, 1991

Mr. Jimmie T. Cooper, Landowner P.O. Box 55
Monument NM 88265

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Pursuant to Rule 711 of the Oil Conservation Commission, State of New Mexico, notice is hereby given that Jimmie T. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

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Mr. Roger Anderson State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501 505-827-5884

Thank You.

Page 1 - Com

October 1, 1991

Commissioner of Public Lands State of New Mexico NM State Land Office P.O. Box 1148 Santa Fe, NM 87504

# Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission, State of New Mexico, notice is hereby given that Jimmie T. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

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Thank You.

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DOMESTIC RETURN RECEIPT

SENDER: Complete Items 1 and 2 when additional services are desired, and complete Items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge) DOMESTIC RETURN RECEIPT Registered Community Confidence Corrilled Community Return Receipt for Merchandle Always obtain signature of addressee 4 Article Number P 661 750 228 or agent and DATE DELIVERED. Type of Service: Apollo Realty - Arming Arming P. O. Box 75285 Albuquerque, NM 87194-0285 *U.S.G.P.O. 1989-238-815 1 3. Article Addressed to: PS Form 3811, Apr. 1989 7. Date of Del

# State of New Mexico

Energy, Minerals and Natural Resources Department RVAT OIL CONSERVATION DIVISION CONSERVATION

P.O. Box 2088

Santa Fe, NM 87501



# APPLICATION FOR SURFACE WASTE DISPOSAL FACILITY (Refer to OCD Guidelines for assurance in completing the application)

	(Refer to OCD Guidelines for assistance in completing the application.)
[.	Type: Produced Water Drilling Muds Treating Finids Solids Other
II.	OPERATOR: C & C Landfarm Inc.
	ADDRESS: 30x 55 Monument, MM 38265
	CONTACT PERSON: Jimmie T. Cooper PHONE: 505-397-2045
III.	LOCATION: Si /4 NE /4 Section 3 Township 20 Range 57 E  Submit large scale topographic map showing exact location.
IV _.	is this an expansion of an existing facility? $\square$ Yes $\square$ No
V.	Attach the name and address of the landowner of the disposal facility site and landowners of record within one-half most the site.
VI.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.
VII.	Attach detailed engineering designs with diagrams prepared in accordance with Division guidelines for construction/installation of the following: pits or ponds; leak-detection systems; aerations systems: enhancevaporation (spray) systems; waste treating systems and security systems.
Ш.	Attach a contingency plan for reporting and clean-up of spills or releases.
IX.	Attach a routine inspection and maintenance plan to ensure permit compliance.
X.	Attach a closure plan.
XI.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact from water.
XII.	Attach proof that the notice requirements of OCD Rule 711 have been met. (Commercial facilities only.)
Ш.	Attach a contingency plan in the event of a release of H.S.
IV.	Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and orders.
XV.	CERTIFICATION
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Iddie V. Seav Title: Agent/Consultant
	Signature: Salar Date: October 4. 1991

### APPLICATION FOR SURFACE WASTE DISPOSAL FACILITY

- I. Type: Solids Oil or Salt water contaminated soils from production facilities only.
- II. OPERATOR: C & C Landfarm Inc.
  ADDRESS: Box 55 Monument, NM 88265
  CONTACT PERSON: Jimmie T. Cooper
  PHONE: 505-397-2045
- III. LOCATION: SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37 East, Lea Co., NM.
- IV. IS THIS AN EXPANSION OF AN EXISTING FACILITY? No. this is a new facility.
  - V. LANDOWNER OF FACILITY SITE
    Jimmie T. Cooper
    P.O. Box 55
    Monument, NM 88265

LANDOWNERS OF RECORD WITHIN 1/2 MILE
State of New Mexico
State Land Office
P.O. Box 1148
Santa Fe, NM 87504

S & W Cattle Co. 8900 South County Rd. 58 Monument, NM 88265

J.R. Williams, et al P.O. Box 215 Monument, NM 88265

A.C. Doyall P.O. Box 188 Monument, NM 88265

# VI. DIAGRAM (attached)

- (A) Excavate area as needed down to top of redbed approximately 10 to 12 feet. Use overburden to build burms around site to prevent and restrict rain run off and drainage to facility.
- (B) Fence around all sides, with chain link fence adjacent to County Road 58.
- (C) Gate with cattle guard at entrance. Open during daylight hours only.
- (D) 5 monitor wells on North, South, East, and West sides.
- (E) Signs posted with restrictions and permit no.

Also, any additional rule or regulation at time of closure will be adhered to.

MI. Geographically, the site is situated near the western boundary of the southern extension of the High Plains in Southeastern New Mexico. The site in question is a 40 acre tract located in Unit G. Section 3, Township 20, Range 37 E, Lea Co., NM.

The site which is bordered by County road 58 on the east, has a gradual surface slope to the west. To the SE of this site in Unit Lettter O is a large pic with the redbed exposed. Redbed is a layer of relatively impermeable clays, red to reddish brown in color, underlying the fresh water aquifer in SE New Mexico ranging in thickness up to 1200 ft.

C & C Landfarm Inc. is located on or near the redbed layer. A series of test wells were drilled to define the redbed and check for fresh water.

#### TEST WELL LOGS

- #1 Located 100 yds. N of NW corner 0-1 ft. Top Soil 1-18 ft. Caliche, Rock 18-20 ft. Redbed All formations dry.
- #2 Located 125 ft. N of the south line on the extreme west edge.

  0-1 1/2 ft. Top Soil
  1 1/2-16 ft. Caliche, Rock
  16-18 ft. Redbed
  All formations dry.
- #3 Located 100 yds. E of the west line on the south side.
  0-1 ft. Top Soil
  1-15 ft. Caliche, Rock
  15-17 ft. Redbed
  All formations dry.
- #4 Located 50 yds. W of the east line on the south border.
  0-1 ft. Top Soil
  1-13 ft. Caliche, Rock
  13-15 ft. Redbed
  All formations dry.
- Fi Located 150 yds. W of east line on the north side.
  0-1 ft. Top Soil

Also, any additional rule or regulation at time of closure will be adhered to.

XI. Geographically, the site is situated near the western boundary of the southern extension of the High Plains in Southeastern New Mexico. The site in question is a 40 sore space located in Unit C. Section 3. Township 20, Range 37 E. Lea Co., NM.

The site which is bordered by County road 58 on the east, has a gradual surface slope to the west. To the SE of this site in Unit Lettter O is a large pit with the rodbed exposed. Redbed is a layer of relatively impermeable clays, red to reddish brown in color, underlying the fresh water aquifer in SE New Mexico ranging in thickness up to 1200 ft.

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  1 1/2-16 ft. Caliche, Rock
  16-18 ft. Redbed
  All formations dry.
- #3 Located 100 yds. E of the west line on the south side.
  0-1 ft. Top Soil
  1-15 ft. Caliche, Rock
  15-17 ft. Redbed
  All formations dry.
- Docated 50 yds. W of the east line on the south pordso.

  O-1 ft. Top Soil
  1-13 ft. Caliche, Rock
  10-15 ft. Redbed
  All formations dry.
- #5 Located '50 yds, W of east line on the north
  side.
  9-1 []: Fop Soil

(F) Any other improvement as needed or required by COD.

#### VII. DRAWING OF MONITOR WELL (attached)

Excavate land area down to redbed, dispose of contaminated soil in 6 in. lifts and till or plow areas at 50 days as needed to ensure aropec sociation so soil can be cleaned up by natural remediation according to government standards. Have soil tested for TPH and BTEX before adding new lift as required.

#### MII. COMMINGENCY BUVA (NV)

There will be no liquids at facility. Any soil accidentally spilled at facility will be picked up with front end loader and deposited within landfill. No material will be accepted without documentation.

#### IX. ROUTINE INSPECTION AND MAINTENANCE PLAN

- (1) Weekly inspection of monitor wells.
- (2) Road area around facility will be graded and kept free of oily dirt.
- (3) All loads will be documented and logged.
- (4) No liquids accepted.
- (5) No tank bottoms accepted.
- (5) Area will be posted with proper signs.
- (7) No dumping will be allowed unless facility is open.
- (8) May require letter from company showing waste has not been mixed with non-exempt waste.
- (9) All area properly fenced with locked gates.
- (10) Each lift will be tested for BTEX Method 602 and TPH Method 8015 EPA test requirements before adding new lift.

#### X. CLOSURE PLAN

All overburden will be removed down to the redbed, averaging from 12 ft. on the east side, to 16 ft. on the west side.

Discount of solids will start at rodbed, when area has been filled and tested to within 1 ft. of surface elevation, area will be backfilled with top soil mound over and compacted. The mound should prevent tain or water from standing or leaching into backfill.

all fendes will be left in tack and monitor wells agit in place for future monitoring.

1-14 ft. Caliche, Rock 14-17 ft. Redbed All formations dry.

* An area in the middle of the east edge of the property, was excavated with a backhow. Rock and caliche at 0-12 ft. Redbed was encountered at 12 ft.

The wells were drilled with rotary rig, no water was excountered, only caliche, rock, and sand down to redbed. The redbeds came in at 12 ft. on the east side, down to 17 ft. on the west side. The five wells drilled were completed into the redbed and cased with 3 in. PVC pipe with 5 ft. of screen on bottom with the top 2 ft. cemented and capped. Wells to be secured with locks and used as monitor wells.

Researched State Engineers records and U.S.G.S. file, no fresh water was recorded or found within area of review. A physical inspection was made and a windmill was found approximately 1 mile SW of the site, a sample was taken and analysis recorded for future use.

We feel this is one of the better sites for deposit of contaminated soil due to the thickness of redbeds, little or no fresh water in the area, a monitor system is in place for control of system. This system is in the middle of the oil and gas production and will serve a valuable environmental need, both regulatory and industrial.

- XII. PROOF OF OCD RULE 711 (attached)
- XIII. CONTINGENCY PLAN FOR RELEASE OF H2S (NA)

Open pit system should not have H2S. If encountered, OCD Rule 118 will be adhered to.

XIV. All State of New Mexico, Oil Conservation rules will be enforced as they pertain to this system.

C & C LANDFARM INC. Additional information to Application for Surface Waste Disposel.

RVATE M DIVISION ECE VED

I. The thickness of the redbeds varied from area to area 11 9 51 in Section 3. The information was taken from logs of producing oil wells in the area and lithology reports.

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with the average thickness being 987 ft.

II. Groundwater in the area; Figure I is a copy of the State Engineer's water analysis and locations for this area, none were listed in Sect. 3. The windmill SSW of our proposed site appears to be located in Unit M of Sect. 3 approximately 3/4 mile from site; Figure II is a copy of analysis from S & W windmill. Figure III indicates water wells in the general area showing top and bottom of water formation and contour line indicating direction of flow, which is SE. Figure IV is a contour map of top of redbed, with slopes to the SSE. Figure V is a contour map of the surface for the surrounding area, the direction of slope is to the west.

The contour maps provided are information from the State Bureau of Mines, which shows any movement at our site would run SE along the redbed surface and west along the top of ground.

If the State feels it is necessary, additional monitor wells can be installed or a redbed barrier constructed on the SW portion of our site to prevent any contaminate from moving.

III. Also provided are the mail receipts from registered letters.

Any additional information needed, please call (505)392-2235.

Eddie W. Seay

Peak Consulting

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Figure II

### WATER ANALYSIS REPORT

Company : \$ & W CATTLE CO
Address : HOBBS, NEW MEXICO
Lease : SECT 3 F20 R37
Well : UNIT M
Sample Pt. : WINDMILL Date : 10/29/91 Date Sampled: 10/28/91 Analysis No.: 876

	ANALYSIS		mg/L		* meq/L
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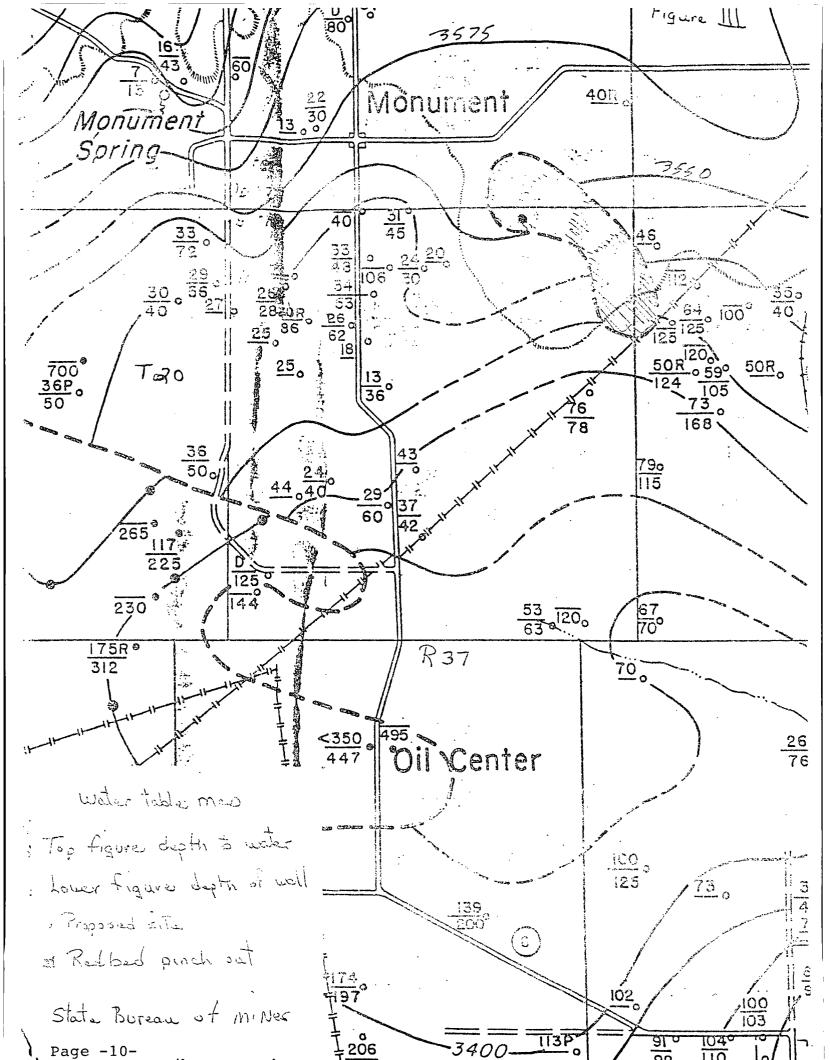
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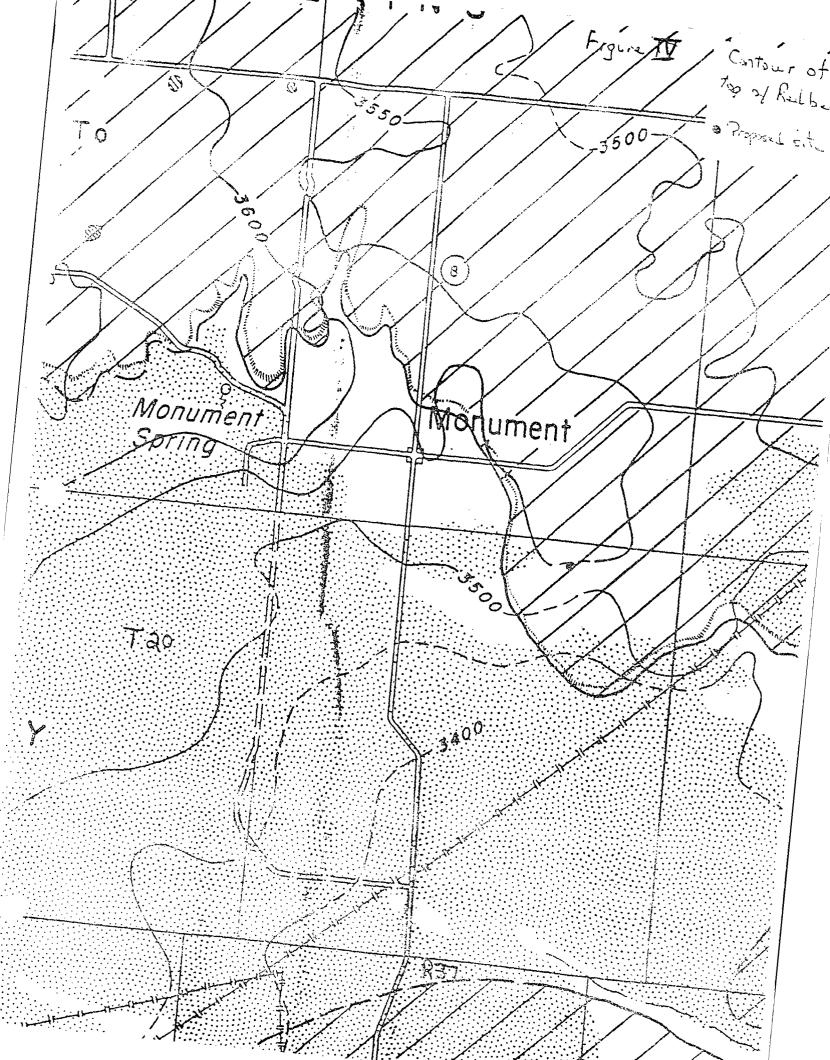
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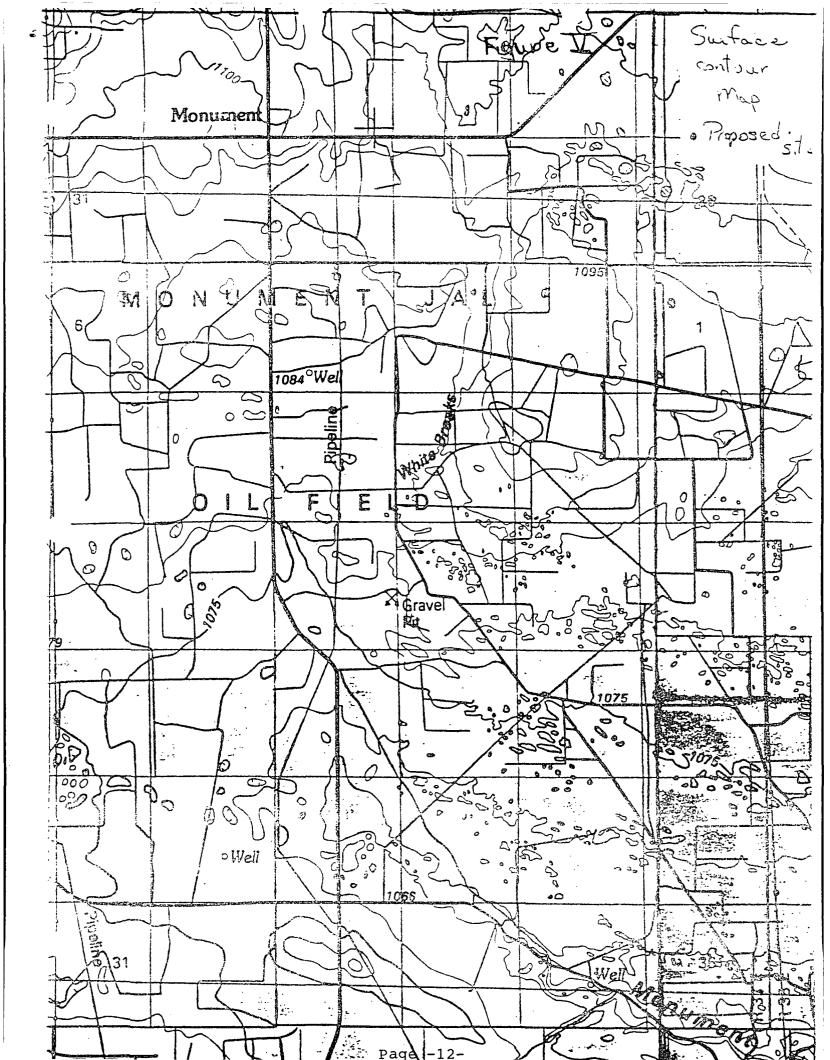
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Petrolite Oilfield Chamicals Group

Respectfully submitted, ROZANNE JOHNSON



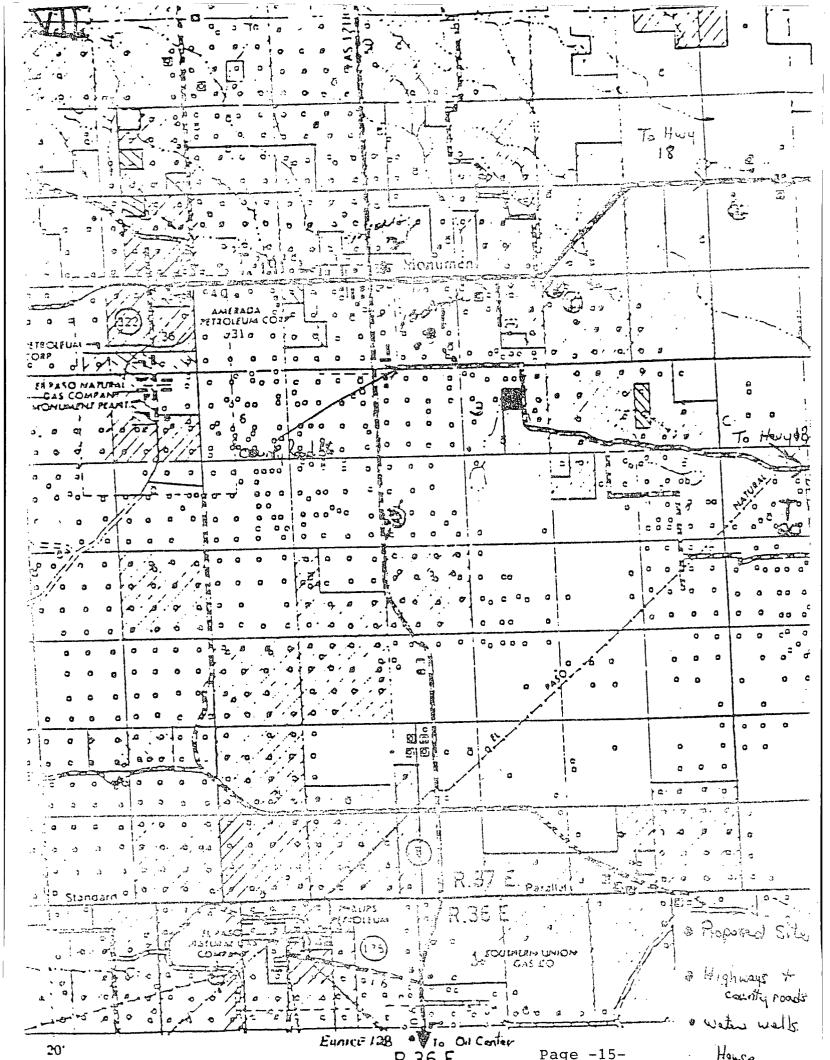




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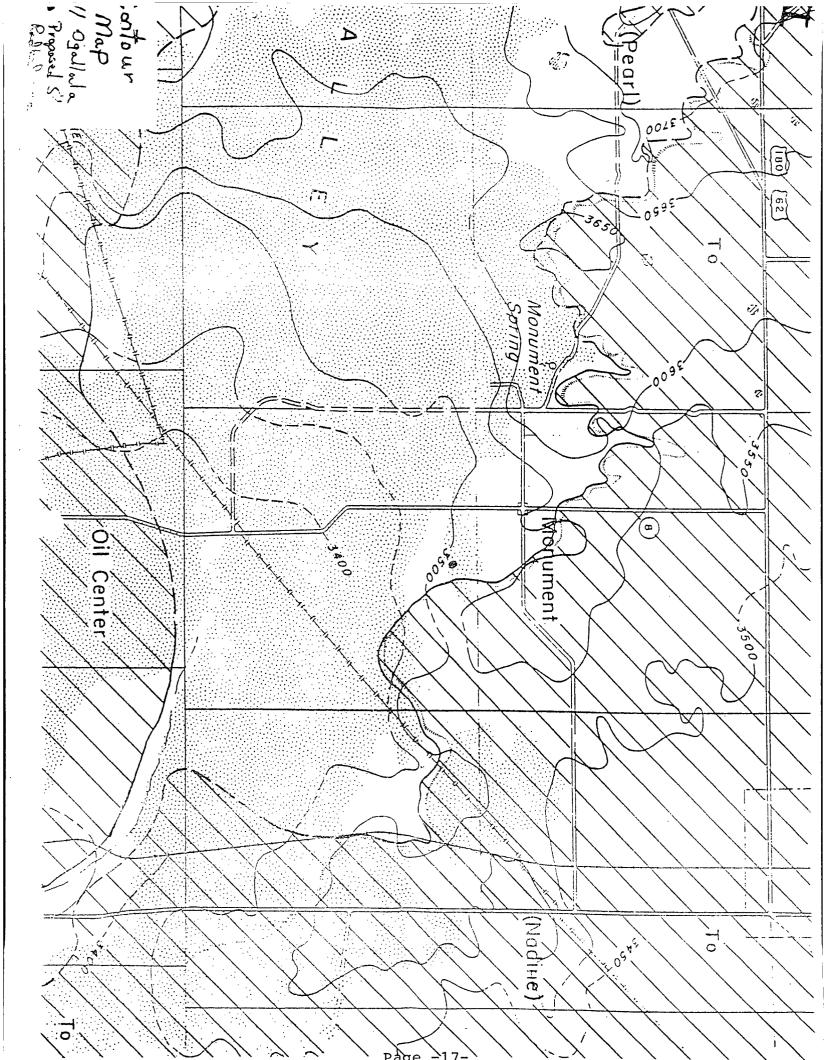
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C & C Landfarm Inc.

Jimmie T. Cooper P.O. Box 55 Monument, NM 88265
505-397-2045

October 1, 1991

Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission, State of New Mexico, notice is hereby given that Jimmie T. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

If there are any questions please contact:

Mr. Roger Anderson State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501 505-327-5334

Thank You.

Eddie W. Seay

Peak Consulting Service

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SENDER: Complete items 1 and 2 when additional services are desired, and complete 3 and 4.  3 and 4.  3 and 4.  3 and 4.  4. At your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent the normal services of the person delivered to you. The etunine tegipt lee will provide you the name of the person delivered the delivery. For additional fees the following services are available. Consult postmaster is will check boxies) for additional service(s) requested.  1. 45 Show to whom delivered, and addressed's address. "Z. "I hestiticated Delivery (Extra Apres)	Article Addressed to:  Result Section Co.  O. Box 1799 Hobbs, MM 88240	Signature — Addressee Signature — Addressee  Signature — Agent  Signature — Agent  Signature — Addressee	SENDER: Complete items 1 and 2 when additional services are desired, and complete at your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this and receive boxies in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this and green the services are available. Consult postmaster for the return facing fee will provide you the name of the parameter for the return facing fee will provide you the name of the parameter for the return facing fee will provide you the name of the parameter for the return facing feet addressed to addressed to:    Inches   Doyall

#### NOTICE OF PUBLICATION

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

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following application to construct and operate a commercial surface waste disposal facility has been submitted for approval to the Director of the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, Telephone (505) 827-5800:

C & C Landfarm Inc., Eddie W. Seay, Agent, P.O. Box 55, Monument, New Mexico 88265, has submitted an application to construct and operate a commercial landfarm facility for remediation of hydrocarbon contaminated soils. The proposed location of the facility is the SW/4 NE/4, Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. The facility is proposed to consist of a land management area where solids containing "non-hazardous" contaminants will be spread on the ground surface in six inch lifts or less and periodically stirred to enhance biodegradation contaminants. Groundwater most likely to be affected by any accidental discharges at the surface is not known to be present in the area of one-half mile from the boundaries of the facility. The facility is underlain by redbeds ranging in thickness from 430 to 1200 feet.

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 5:00 p.m., Monday through Friday. Prior to ruling on any proposed permit or its modification, 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.

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 18th day of November, 1991.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

SEAL









OIL CONSERVATION DIVISION



BRUCE KING

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

February 21, 1992

CERTIFIED MAIL
RETURN RECEIPT NO. P-670-683-494

Mr. Jimmie T. Cooper C & C Landfarm Inc. Box 55 Monument, New Mexico 88265

RE: Landfarm Request, C & C Landfarm Inc. Lea County, New Mexico

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has received and is in the process of reviewing the above referenced application for an oil field related solids landfarm located in the SW/4 NE/4, Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico. The following comments and requests for additional information are based on review of the application, dated October 4, 1991, and inspection of the proposed facility on February 11, 1992 by representatives of the OCD and C & C Landfarm Inc. In order for the review process to continue the OCD requires the following information:

1. In your surface disposal application you propose to construct a pit by excavating down to the top of the redbed (about 10 to 12 feet) and using the overburden (caliche) to build berms around the site. The OCD is concerned with the possibility of contaminants migrating off of your property along the surface of the redbed. The OCD requires a detailed description of how C & C plans to prevent the migration of contaminants down gradient along the redbed surface. If there are any modifications or additions to the original application, please submit detailed descriptions and diagrams. Include the dimensions (3-D) of the proposed facility (pit) along with a cross-sectional diagram.

Mr. Jimmie T. Cooper February 21, 1992 Page 2

- 2. Construction of your present monitor wells does meet the current OCD standards and recommendation for monitor well construction. If any monitor wells are constructed in the future please submit drilling and completion plans for OCD approval prior to conducting operations.
- 3. The OCD has stringent requirements for the operation of all OCD regulated landfarms. A commitment to the following conditions is required prior to OCD approval of commercial landfarms:
  - a. All soils received at the facility will be spread and disked within 72 hours of receipt.
  - b. Solids will be spread on the surface in six inch lifts or less.
  - c. Solids will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.
  - d. No solids will be spread on previously spread solids until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 ppm and 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 will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
  - e. Only solids that are non-hazardous by RCRA Subtitle C or by characteristic testing will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results must be submitted to the OCD along with a request to receive the non-exempt solids, and a written OCD approval (case specific) must be obtained prior to disposal. Any non-oilfield wastes which are RCRA Subtitle C exempt will be accepted on a case-by-case basis and with OCD approval.
  - f. Comprehensive records of all material disposed of at the facility will be maintained at the facility. The records for each load will include: 1) the origin, 2) analysis for hazardous constituents if required, 3) transporter.

Mr. Jimmie T. Cooper February 21, 1992 Page 3

- g. OCD approval must be obtained prior to the addition of any substances to enhance biodegradation of the soils landfarmed (ie. chemical additives, manure, nutrients, bugs, ect.).
- h. No free liquids or soils with free liquids will be accepted at the facility.
- 4. The OCD is concerned about the impact of disposal facilities on private residences. Please submit a map showing all private residences within one mile of the proposed facility. Include the name and land status of the resident.

Submission of the above requested information will allow the review process to continue. If you have any questions please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Kathy M. Brown

Geologist

cc: Jerry Sexton, OCD Hobbs Office Chris Eustice, OCD Hobbs Office Mike Pierce, Peak Consulting

them Brown

# PEAK

### CONSULTING SERVICES

P.O. BOX 636 HOBBS, NEW MEXICO 88240 OFFICE (505) 392-1915

ENVIRONMENTAL. GEOLOGICAL & REGULATORY **SPECIALISTS** 



March 2, 1972

Kathy M. Brown Oil Conservation Division P.O. Box 2088 Santa Fe. New Mexico 87504-2088

> Re: Response to letter dated February 21, 1992 C & C Landfarm Inc.

Dear Ms. Brown:

This letter is in response to the Oil Conservation Divisions' requests and concerns regarding C & C Landfarm Inc.s' application. Please find enclosed the information you require:

C & C Landfarm Inc. proposes to install a redbed dike on the south, west, and north edges of the property to prevent any migration of fluids from the property. This dike will consist of a trench approximately 2 - 3 feet wide. This trench will be deep enough to penetrate the redbed interval to a depth of approximately 2 feet. The trench will then be backfilled and compacted with redbed material from the working pit. (Fig. 1)

This dike will be situated between the property line and the monitor wells previously installed. (Fig. 1)

The pit will be excavated to approximately 1 foot above the top of the redbed. (Fig. 1)

2. C & C Landfarm Inc. will seek OCD approval before any additional monitor wells are drilled.

OCD Resoonse February 28. 1992 Page 2

- 3. C & C Landfarm Inc. acknowledges items A thru H of part three of the letter dated February 21, 1992, and agrees to comply with all conditions.
- 4. Figure 2 is a map showing all private residences within one mile of the facility. At the present time only one residence is within one mile. This residence is owned by Mr. A.C. Doyall, and he was provided with a copy of the original application by C & C Landfarm Inc..

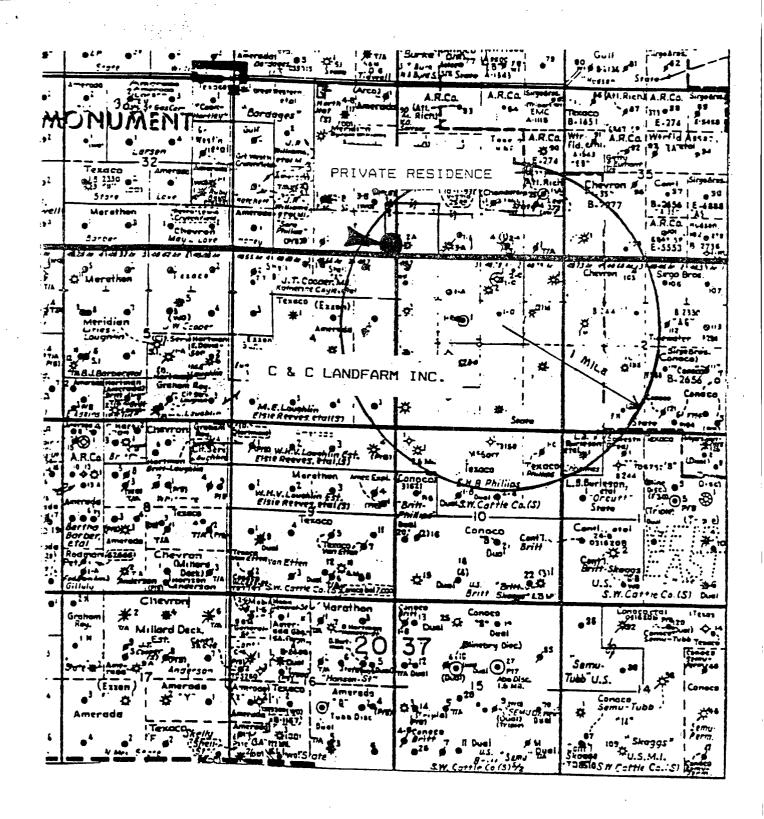
The pit occupies approximately 2 acres at this time. C & C Landfarm Inc. request that the entire 40 acre tract be permitted for landfarming. This way the pit can be expanded as needed.

C & C Landfarm Inc. and Peak Consulting Services appreciates the time and effort that the Dil Conservation Division has invested in this project. We are committed to provide a quality facility that the Oil Industry can depend on and have confidence in. If we can be of further assistance, please lets us know.

Sincerely.

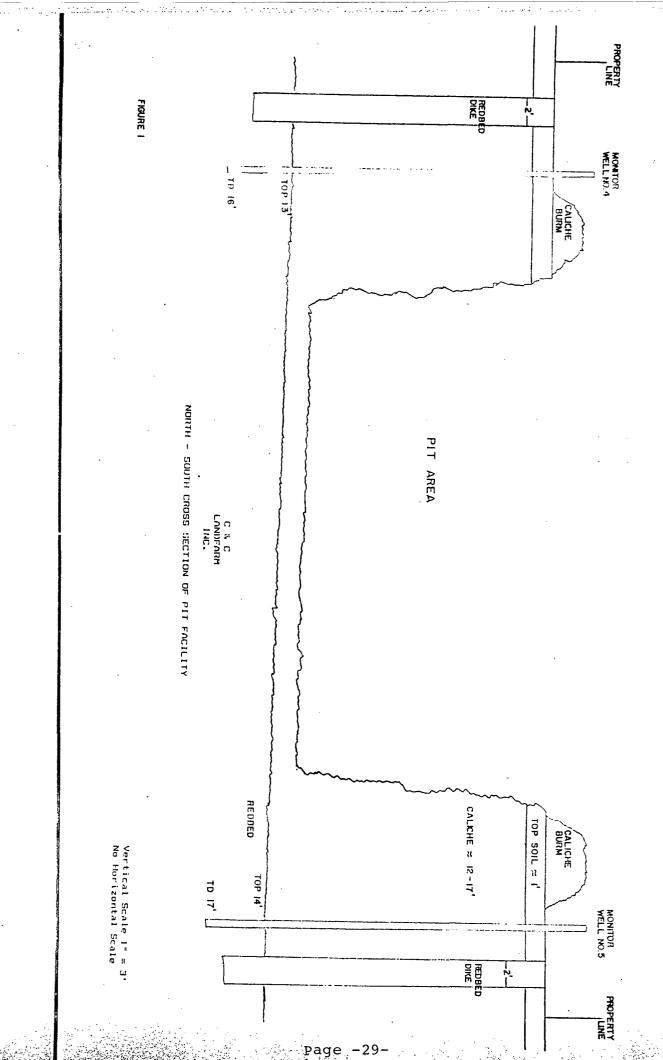
Michael L. Pierce

Peak Consulting Services



C & C LANDFARM INC.

LOCATION MAP OF PRIVATE RESIDENCES WITHIN ONE MILE OF THE FACILITY



#### STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**OIL CONSERVATION DIVISION** 



BRUCE KING GOVERNOR

April 3, 1992

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-670-683-576

Mr. Walter C. Laughlin 4139 E. Laughlin Road Casa Grande, Arizona 85222

RE: C & C Landfarm Inc. Application

Dear Mr. Laughlin:

The Oil Conservation Division (OCD) has received your December 20, 1991 protest to the C & C Landfarm Inc. application. The OCD is is the state agency which permits commercial surface disposal facilities.

The process that the OCD uses to review surface disposal applications is comprehensive and ongoing. The applicant submits the initial application, it is thoroughly reviewed, and if necessary additional information and commitments are requested to satisfy specific OCD requirements. After all of the required information is submitted and evaluated an ultimate determination is made as to whether or not the facility can be operated in a manner which is consistent and in compliance with the regulations of the Division.

In determining whether a specific facility is approvable the OCD must insure that there will be sufficient protection of ground water, human health, and the environment. The OCD cannot deny an application solely on the basis that the use is incompatible with surrounding land uses or local zoning requirements. The OCD has no jurisdiction or authority to enforce compliance with those regulations.

The OCD incorporated all letters of protest into review of the initial C & C Landfarm application. Upon completing review of the application the OCD requested additional information and commitments from C & C Landfarm. The OCD has received and reviewed C & C Landfarm's response dated March 2, 1992. The application at this time is administratively approvable since it meets all of the technical requirements to protect ground water, human

Mr. Walter C. Laughlin April 3, 1992 Page 2

health, and the environment. Both the original application and supplemental materials are on file at the OCD Santa Fe Office. These records are open for public inspection from 8:00 a.m. to 4:00 p.m., Monday through Friday.

The OCD is giving all protestors the opportunity to evaluate the application and respond with substantive technical information. Active participation by informed neighboring landowners can be very useful to the Division to insure that the facility is permitted with appropriate operational requirements. As previously stated, the OCD cannot consider land use or zoning requirements when evaluating surface disposal applications.

Please submit all comments to the OCD within 30 days from receipt of this letter. If you have any questions please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Kathy M. Brown

Geologist

xc: Chris Eustice, OCD Hobbs Office
Bob Stovall, General Counsel
Jimmie T. Cooper, C & C Landfarm Inc.
Mike Pierce, Peak Consulting

SENDER:  Complete items 1 end/or 2 for additional services.  Complete items 3, and 4s & b.  Print your name and address on the reverse of this form so th return this card to you.  Attach this form to the front of the mailpiece, or on the back does not permit.  Write "Ratum Receipt Requested" on the mailpiece below the ar	if space	I also wish to receive the following services (for an extra fee):  1.  Addressee's Address  2.  Restricted Delivery
<ul> <li>The Return Receipt Fee will provide you the signature of the per- to and the data of delivery.</li> </ul>	son delivered	Consult postmaster for fee.
3. Article Addressed to:  Mr. Walter C. Laughlin  4139 E. Laughlin Rd.  Casa Grande, Arizona  85222  Matthe Laughlin  5. Signature (Addressee)	4b. Sei Regi Cent	ricle Number  70 - 683 - 576  rice Type istered Insured  insured  cified COD  ress Maik  Return Receipt for  Merchandise  e, of Delivery  dressee's Address (Only if requested
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6. Signature (Agent)		en en en en en en en en en en en en en e

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

May 20, 1992

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-670-683-594

Mr. Walter C. Laughlin 4139 E. Laughlin Road Casa Grande, Arizona 85222

RE: C & C Landfarm Inc. Application

Dear Mr. Laughlin:

The Oil Conservation Division (OCD) permits commercial surface disposal facilities which receive oil field related waste. The C & C Landfarm Inc. proposed commercial surface disposal facility has been determined to be approvable subject to the attached conditions. The application and supplemental information submitted are in compliance with all Division rules and regulations, and are open for public inspection at the OCD Santa Fe Office.

You filed an objection to the application of C & C Landfarm Inc. If you still object to the application and wish to present technical testimony at a hearing in Santa Fe, please submit a request for hearing within 20 days of date of this letter or by June 9, 1992. Your request should include a concise statement of your objection or concern and a summary of the evidence you will present at hearing. If the Director determines that intervenors such as yourself have significant additional information to offer, the matter will be set for hearing. The OCD cannot consider land use or zoning requirements when evaluating surface disposal applications.

If no request for hearing is received by June 9, 1992, then the application will be administratively approved. If you have any questions please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Kathy M. Brown

Geologist

Attachment

xc: Chris Eustice, OCD Hobbs Office

Jimmie T. Cooper, C & C Landfarm Inc.

Mike Pierce, Peak Consulting

## ATTACHMENT (May 20, 1992)

## C & C LANDFARM INC. APPLICATION OCD CONDITIONS OF APPROVAL

- 1. All soils received at the facility will be spread and disked within 72 hours of receipt.
- 2. Solids will be spread on the surface in six inch lifts or less.
- 3. Solids will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.
- 4. No solids will be spread on previously spread solids until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 ppm and 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 will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
- 5. Only solids that are non-hazardous by RCRA Subtitle C or by characteristic testing will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results must be submitted to the OCD along with a request to receive the non-exempt solids, and a written OCD approval (case specific) must be obtained prior to disposal. Any non-oilfield wastes which are RCRA Subtitle C exempt will be accepted on a case-by-case basis and with OCD approval.
- 6. Comprehensive records of all material disposed of at the facility will be maintained at the facility. The records for each load will include: 1) the origin, 2) analysis for hazardous constituents if required, 3) transporter.
- 7. OCD approval must be obtained prior to the addition of any substances to enhance biodegradation of the soils landfarmed (ie. chemical additives, manure, nutrients, bugs, ect.).
- 8. No free liquids or soils with free liquids will be accepted at the facility.
- 9. If any monitor wells are constructed in the future the drilling and completion plans will be submitted for OCD approval prior to conducting operations.
- 10. A redbed dike will be installed on the south, west, and north edges of the property as proposed in the C & C crrespondence dated March 2, 1992.

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

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 10507 ORDER NO. R-9769

APPLICATION OF C & C L'ANDFARM, INC. FOR A COMMERCIAL SURFACE WASTE DISPOSAL FACILITY, LEA COUNTY, NEW MEXICO

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on Tuesday, September 1, 1992, at Santa Fe, New Mexico, before Examiner Michael E. Stogner in Docket No. 27-92.

NOW, on this ______ day of November, 1992 the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) Sections 70-2-12.B(21) and (22), N.M.S.A. (1978) Compilation, also known as the New Mexico Oil and Gas Act, authorizes the New Mexico Oil Conservation Division (Division) to regulate the disposition of non-domestic wastes resulting from various oil and gas activities and operations and to protect public health and the environment.
- (3) The applicant, C & C Landfarm, Inc., (C & C) originally filed its application, pursuant to General Rule 711 with the Division on October 8, 1991 for authorization to construct and operate a commercial "landfarm" facility for the remediation of non-hazardous hydrocarbon contaminated soils utilizing an enhanced biodegradation process on a site located in the SW/4 NE/4 (Unit G) of Section 3, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, which is located

approximately two miles southeast of Monument, New Mexico. The term "non-hazardous" in this matter is synonymous with the terminology and usage in the Resource Conservation and Recovery Act (RCRA) Subtitle C regulations.

- (4) This application, subsequent to review by the Division, has been administratively determined to be approveable and this hearing was scheduled to allow interested parties the opportunity to present technical evidence why this application should not be approved pursuant to the applicable rules of the Division.
- (5) Within the required time frame and in accordance with Division rules, five parties of interest filed written objections to the proposed facility:
  - a) Walter C. Laughlin
     4139 E. Laughlin Road
     Casa Grande, Arizona 85222
  - c) Elsie M. Reeves 3902 W. Keim Drive Phoenix, Arizona 85019
- b) Larry N. Henry 500 E. Scharbauer Hobbs, New Mexico 88240
- d) W. T. Stradley, President S-W Cattle Company P.O. Box 1799 Hobbs, New Mexico 88241
- e) Ken Marsh
  Controlled Recovery, Inc.
  P.O. Box 369
  Hobbs, New Mexico 88241
- (6) At the time of the hearing Elsie M. Reeves and W. Trent Stradley entered appearances through counsel in objection to this matter.
- (7) Also at the hearing, all previous correspondence, letters, applications from the applicant, notices and other such pertinent material prepared by the Division, interested parties, other state and federal agencies and the applicant were made part of the record in this case.
- (8) The proposed landfarm is to be located on a forty-acre tract of land, as described in Finding Paragraph No. 3, which is bordered by Lea County Road No. 58 on the east. C & C proposes to excavate on the property as needed down to the top of the "redbed", which is a thick layer of relatively impermeable clays. Oilfield contaminated soils will be trucked to the site and broadcast within the excavated site(s) in six-inch lifts; these soils will be tilled or plowed to ensure proper aeration and bio-

remediation to proper governmental standards. New lifts will be added in the above-described method until an excavated area has been filled and properly tested to within one foot of the surrounding surface elevation, the area will then be backfilled with topsoil, mound over and compacted to prevent rainfall from standing or leaching into backfill. All should be constructed, operated and maintained in accordance with applicable NMOCD rules and standards.

- (9) There is a need for such solids disposal facilities in Southeastern New Mexico to provide environmentally safe and cost effective means of disposing of such solid wastes in connection with oil and gas operations, and approval of a properly designed facility will help to prevent illegal dumping of solid material in a manner which could endanger the environment.
- (10) Applicant appeared at the hearing and presented testimony about the design and operational standards and established a <u>prima facie</u> showing that the facility could be designed and operated so as to protect fresh water supplies and not constitute an unreasonable harm to human health and the environment if standards for such operation are met and followed.
- (11) Testimony presented in this matter indicates that the proposed facility can be constructed and operated in a manner that will not cause contamination of underground fresh water resources, will not leach-out and migrate onto off-setting properties, can be operated and maintained in a safe manner and will not cause waste.
- (12) "Conditions of Approval" should be adopted by this order which will assure safe operations and provide an adequate monitoring system to detect any leaching process or movement of contaminants that could cause the pollution of nearby underground fresh water supplies.

### IT IS THEREFORE ORDERED THAT:

(1) The applicant, C & C Landfarm, Inc., is hereby authorized to construct and operate a commercial "landfarm" facility for the remediation of non-hazardous hydrocarbon contaminated soils utilizing an enhanced biodegradation process on a site located in the SW/4 NE/4 (Unit G) of Section 2, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico.

PROVIDED HOWEVER THAT the proposed facility shall be constructed and operated in accordance with the permit conditions attached hereto as Exhibit "A" which are incorporated herein and made a part of this order, and in accordance with such

additional conditions and requirements as may be directed by the Division Director, and shall be operated and maintained in such a manner as to preclude spills, fires, limit emissions and protect persons, livestock and the environment.

PROVIDED FURTHER THAT, prior to initiating operations, the facility shall be inspected by a representative of the Hobbs District Office in order to determine the adequacy of fences, gates and cattle guards necessary to preclude livestock and unauthorized persons from entering and/or utilizing said facility, and also to determine the adequacy of dikes and berms to assure safe facility operations.

- (2) Prior to commencing operations on said facility, the applicant shall submit, to the Santa Fe office of the Division, a surety or cash bond pursuant to General Rule 711, in the amount of \$25,000 in a form approved by the Division.
- (3) The Director of the Division shall be authorized to administratively grant approval for the expansion or modification of the proposed disposal facility.
- (4) Authority for operation of the "landfarm" facility shall be transferrable only upon written application and approval by the Division Director.
- (5) Authority for operation of the "landfarm" facility shall be suspended or rescinded whenever such suspension or rescission should appear necessary to protect human health or property, to protect fresh water supplies from contamination, to prevent waste, or for non-compliance with the terms and conditions of this order or Division Rules and Regulations.
- (6) The permit granted by this order shall become effective only upon acceptance and certification by the applicant.
- (7) The Division shall have the authority to administratively change any condition of this permit to protect fresh water, human health and the environment. Applicant may request a hearing upon any change which materially affects the operation of the facility.
- (8) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Case No. 10507 Order No. R-9769 Page No. 5

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

SEAL

# Exhibit "A" Case No. 10507 Order No. R-9769

## C & C LANDFARM, INC. APPLICATION OCD CONDITIONS OF APPROVAL

#### LANDFARM OPERATIONS

- 1. Disposal will only occur when an attendant is on duty. The facility will be secured when no attendant is present.
- 2. The facility will be fenced and have a sign at the entrance. The sign will 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. A redbed dike will be installed on the south, west and north edges of the property as proposed in C & C's correspondence dated March 2, 1992.
- 4. All contaminated soils received at the facility will be spread and disked within 72 hours of receipt.
- 5. Soils will be spread on the surface in six-inch lifts or less.
- 6. Soils will be disked a minimum of one time every two weeks (bi-weekly) to enhance biodegradation of contaminants.
- 7. Successive lifts of contaminated soils will not be spread until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lifts is less than 100 parts per million (ppm), and the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and the benzene is less than 10 ppm. Comprehensive records of the laboratory analysis and the sampling locations will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
- 8. Only oilfield wastes which are exempt from Federal Resource Conservation and Recovery Act (RCRA), (42 U.S.C. §§6921-6939b), Subtitle C regulations (40 C.F.R. Parts 260-272) will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results may be submitted to the OCD along with a request to receive non-exempt solids, and a written OCD approval (case specific) must be obtained prior to disposal. Any

Exhibit "A"
Case No. 10507
Order No. R-9769
Page 2

non-oilfield wastes which are RCRA Subtitle C exempt or are non-hazardous by characteristic testing will only be accepted on a case-by-case basis and with prior OCD approval. Comprehensive records of all laboratory analyses and sample locations will be maintained by the operator.

9. Moisture will be added as necessary to enhance biodegradation and to control blowing dust. There will be no ponding, pooling or run-off of water allowed. Any ponding of precipitation will be removed within seventy-two hours of discovery.

#### **CLOSURE**

When the facility is to be closed, no new material will be accepted. Existing soils will be remediated until they meet the OCD standards in effect at the time of closure. The area will then be reseeded with natural grasses and allowed to return to its natural state. Closure will be pursuant to all OCD requirements in effect at the time of the closure.

#### STATE OF NEW MEXICO



#### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

January 6, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-241-935

Mr. Jimmie T. Cooper C & C Landfarm Inc. Box 55 Monument, New Mexico 88265

RE: C & C Landfarm Inc.

Oil Conservation Commission Hearing

Eddy County, New Mexico

Dear Mr. Cooper:

The New Mexico Oil Conservation Division (OCD) has reviewed both the Division Order issued November 16, 1992 for C & C Landfarm, Inc., and the letter dated November 20, 1992 from Peak Consulting Services on behalf of C & C Landfarm, Inc. Based on review of these documents and on the current OCD requirements for commercial landfarm facilities, the OCD recommends that the attached conditions be placed on the proposed facility if the Oil Conservation Commission (OCC) deems it appropriate to approve the permit.

If you have any questions, please do not hesitate to contact me at (505) 827-5884.

Sincerely,

Kathy M. Brown

Geologist

Attachment

xc: Mike Williams, OCD Artesia Office

# ATTACHMENT OCD 711 PERMIT RECOMMENDATIONS C & C LANDFARM, INC.

(January 6, 1993)

#### LANDFARM OPERATION

- 1. Remediation of contaminated soils will occur only on the native ground surface. The caliche pit present on the facility will not be used for the disposal, storage or remediation of any materials without the case-by-case approval of the OCD.
- 2. No disposal or remediation of contaminated soils will occur within one-hundred (100) feet of your property boundary.
- 3. Disposal will only occur when an attendant is on duty. The facility will be secured when no attendant is present.
- 4. The facility will be fenced and have a sign at the entrance. The sign will 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.
- 5. An adequate berm will be constructed and maintained to prevent runoff and runon for that portion of the facility containing contaminated soils.
- 6. All contaminated soils received at the facility will be spread and disked within 72 hours of receipt.
- 7. Soils will be spread on the surface in six inch lifts or less.
- 8. Soils will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.
- 9. Successive lifts of contaminated soils will not be spread until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 parts per million (ppm), and the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and the benzene is less than 10 ppm. Comprehensive records of the laboratory analyses and the sampling locations will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
- 10. Only oilfield wastes which are exempt from the RCRA Subtitle C regulations or non-hazardous by characteristic testing will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results must be submitted to the OCD along with a request to receive the non-exempt solids, and a written OCD approval

(case specific) must be obtained prior to disposal. Any non-oilfield wastes which are RCRA Subtitle C exempt or are non-hazardous by characteristic testing will only be accepted on a case-by-case basis and with prior OCD approval. Comprehensive records of all laboratory analyses and sample locations will be maintained by the operator.

- 11. Moisture will be added as necessary to enhance bioremediation and to control blowing dust. There will be no ponding, pooling or run-off of water allowed. Any ponding of precipitation will be removed within seventy-two (72) hours of discovery.
- 12. Enhanced bio-remediation through the application of microbes (bugs) and/or fertilizers will only be permitted after prior approval from the OCD. Request for application of microbes must include the location of the area designated for the bio-remediation program, composition of additives, and the method, amount and frequency of application.
- 13. No free liquids or soils with free liquids will be accepted at the facility.
- 14. Comprehensive records of all material disposed of at the facility will be maintained at the facility. The records for each load will include: 1) the origin, 2) date received 3) quantity, 4) Exempt or non-exempt status and analysis for hazardous constituents if required, 5) transporter, and 6) exact cell location and any addition of microbes, moisture, fertilizers, etc.
- 15. The monitor wells will be inspected for the presence of fluids on a quarterly basis on the same schedule as the treatment zone monitoring. If fluids are discovered the OCD will be notified immediately.

#### TREATMENT ZONE MONITORING

- 1. One (1) background soil sample will be taken from the center portion of the landfarm two (2) feet below the native ground surface. The sample will be analyzed for total petroleum hydrocarbons (TPH), general chemistry, and heavy metals using approved EPA methods.
- 2. A treatment zone not to exceed three (3) feet beneath the land farm will be monitored. A minimum of one random soil sample will 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 will be taken at two to three (2-3) feet below the native ground surface.
- 3. The soil samples will be analyzed using approved EPA methods for TPH and BTEX quarterly, and for general chemistry and heavy metals annually.
- 4. After obtaining the soil samples the boreholes will be filled with an impermeable material such as bentonite cement.

#### REPORTING

- 1. Analytical results from the treatment zone monitoring will be submitted to the OCD Santa Fe Office within thirty (30) days of receipt from the laboratory.
- 2. The OCD will be notified of any break, spill, blow out, or fire or any other circumstance that could constitute a hazard or contamination in accordance with OCD Rule 116.

#### BOND

Pursuant to OCD Rule 711 a surety or cash bond in the amount of \$25,000, in a form approved by the Division, is required prior to commencing construction of the commercial surface disposal facility.

#### **CLOSURE**

The operator will notify the Division of cessation of operations. Upon cessation of disposal operations for six (6) consecutive months, the operator will complete cleanup of constructed facilities and restoration of the facility site within the following six (6) months, unless an extension for time is granted by the Director. When the facility is to be closed no new material will be accepted. Existing soils will be remediated until they meet the OCD standards in effect at the time of closure. The area will then be reseeded with natural grasses and allowed to return to its natural state. Closure will be pursuant to all OCD requirements in effect at the time of closure, and any other applicable state and/or federal regulations.



July 20, 1992

Mr. Tom Kellahin Kellahin and Kellahin P.O. Box 2265 Santa Fe, NM 87504-2265

Dear Mr. Kellahin:

Enclosed please find copies of the analyses of three water samples taken from wells.

These waters show a marked similarity in their chemical and physical properties. The greatest variance is in their sodium concentration, due mainly to differences in the amount of sodium sulfate present. However, calcium, magnesium, chloride, and bicarbonate concentrations are almost identical in all samples. Hardness (CaCO3) and pH are very close in all samples. There was no iron, carbonate, or hydroxide found in any of the samples.

It appears these three samples have the same source.

We appreciate the opportunity to do this work for you.

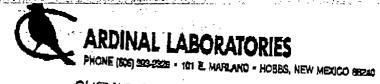
Sincerely.

Gayle A. Potter

Cil Cone New 7 Exhibit Note of Submitted By:

Case noted By:

Garing Date:



## CHEMICAL ANALYSIS OF WATER

Company: Kellahin and Kellahin

City, St.: Santa Fe. NM

Proj. Name: Location:

PARAMTER

RESULT (mg/L)

Lab #: 1421

				THE THE	j/ L.)	
, , , , , , , , , , , , , , , , , , ,		, ,	2	SAMPLE 3	4	5
SODIUM(Calculated)		1296	328	1666		
CALCIUM		180	140	120		•
MAGNESIUM		24				
IRON			61	49		· ·
CHEATE	•	0	0	0		• .
SULFATE		2850	1100	3700		
CHLORIDE		266	106	177		
CARBONATE	•	0				
BICARBONATE			0	0		
		28	24	29		•
HYDROXYL		0	Ö	Ó		
TDS		4645	1759	5741		
PH			1743	5/41		
		\$.5	8.3	8.5		
RESISTIVITY (um/cm)		2.103/cm	4.455/c	m 1.614/cm		
HARDNESS AS CaCO3		<b>5</b> 50	601	500		

Gayle A. Potter

NE 1/4 SE 1/4 Sec 9, R205, T37E

NW 1/4 SW 1/4 Sec 9, R205, T37E 2

Windmill

Before the OIL CONSERVATION COMMISSION Santa Fe, New Mexico Case No. 10507 Submitted By: . Hearing Date: ___

GROUND WATER SECTION Environmental Improvement Division Health and Environment Department Santa Fe, N.M. 87503 Phone: (505) 827-2900

### Summary of Discharge Plan

May 31, 1990

DP number: 619

Facility name:

RHINO TANK AND LINE TESTING

Alternate name:

Type of facility:

HYDROCARBON CLEANUP-SOIL DISPOSAL AREA

Manna of discharge: LAND APPLICATION

County:

EID Discrict 4

T20S, R38E, Sec. 14.122

Nearest city: NADINE

Contact or consultant person:

Location:

8 MILES SOUTH OF HOBBS

Responsible person:

DYER

STEVE

OWNER

Address:

P.O. BOX 2327

HOBBS City, zip:

NM 88240-

Phone:

Title:

505-397-1848

The Ground Water Section staff reviewer is MARK MILLER. Application was received 04/28/89 and Public Notice published 05/24/89. The plan was approved 05/07/90 and expires 05/07/95.

(Application for renewal should be submitted in ample time before expiration.)

#### Monitoring Requirements summary

No. of monitoring reports required annually: Monitoring reports are due no later than May 31, February 28, November 30, and August 31 of each year.

Sampling	Annusl	# of				
required	freq.	sites	Comments, description			
Water levels:	0	0	•			
Disch. vols:	0	0	SEE	ATTACHED	MONITORING	SUMMARY
Major ions:	٥	0				
Heavy metals;	0	0				
N Species:	0	0				
Organics:	Q	0				
Other:	0	0				

If this space is checked, monitoring requirements are summarized or explained in more detail on the attached sheet. Any inadvertent emission from this summary does not relieve the discharger of responsibility for compliance with that requirement. Send monitoring reports to the address as top, "Attention: MARK MILLER, re: DP-619".

#### RHINO MONITORING REQUIREMENTS (CONTINUED)

( )

Record Keeping: quarterly reports are due by February 28, May 31, August 31, and November 30 each year.

Record the date, volume, and source of contaminated soils.

Record the dates when soils are tilled. (Soil tilling is required no less frequently than every 10 days.)

Testing Methods: The following test methods must be followed in all soil testing performed to meet the monitoring requirements listed above.

#### Field Headspace Vapor Method

- 1. Fill a 16 ounce or larger glass jar half full of soil.
- 2. Seal top with clean aluminum foil.
- 3. Ensure sample is at 60 to 80 degrees Farenheit.
- 4. Allow hydrocarbon vapors to develop in jar for 5-10 minutes.
- 5. Pierce the aluminum foil with the Gastech Model 1238 Hydrocarbon Surveyor probe, and read the peak measurement.
- 6. A reading of 50 ppm or greater indicates that further remediation is necessary.

#### Laboratory TPH Method

- 1. Total Petroleum Hydrocarbon (TPH) samples should be collected in clean glass jars with teflon lined lids as provided by a lab.
- 2. Samples should be cooled on ice after collection.
- 3. Samples should be laboratory tested using EPA method 418.1 or equivalent.

#### RHINO TANK AND LINE TESTING

#### HYDROCARBON CONTAMINATED SOIL DISPOSAL AREA (DP-619)

#### MONITORING SCHEDULE

Annual Soil Testing: due by November 30 each year.

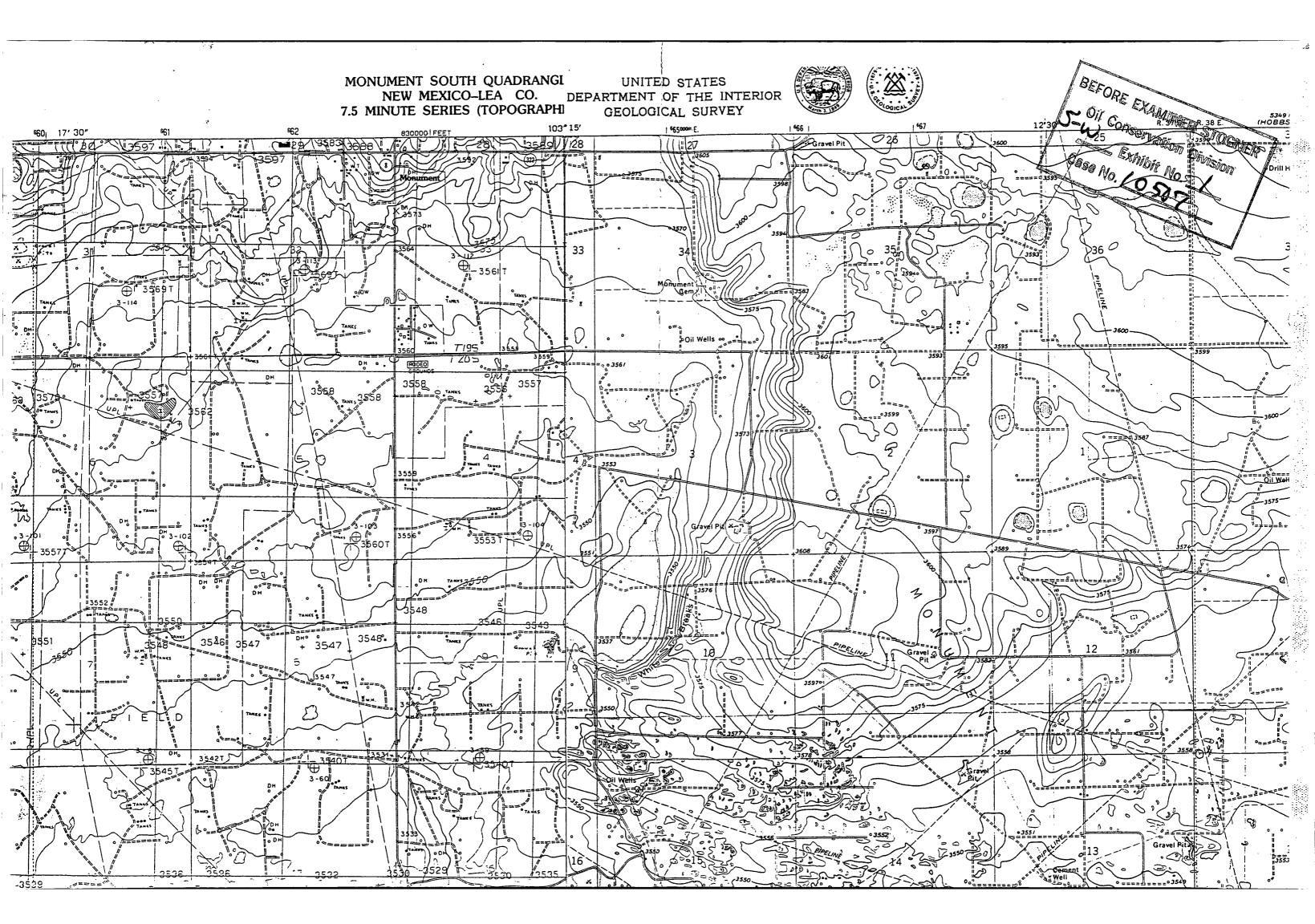
4 samples (1 per acra) collected at a depth of 3 feet in the native soil must be tested for headspace vapors and total petroleum hydrocarbons (TPH).

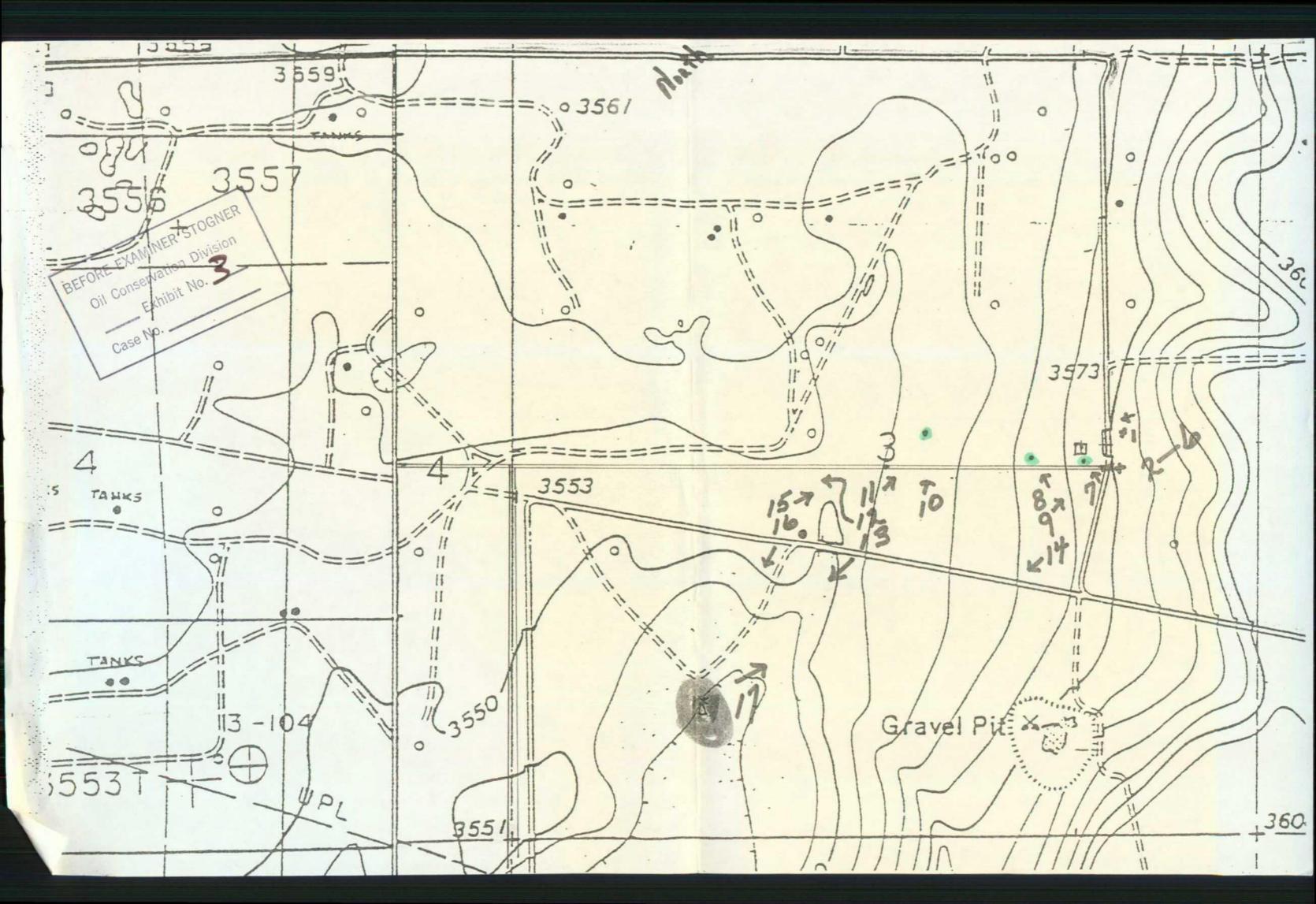
Monitor Well Testing: due by November 30 each year.

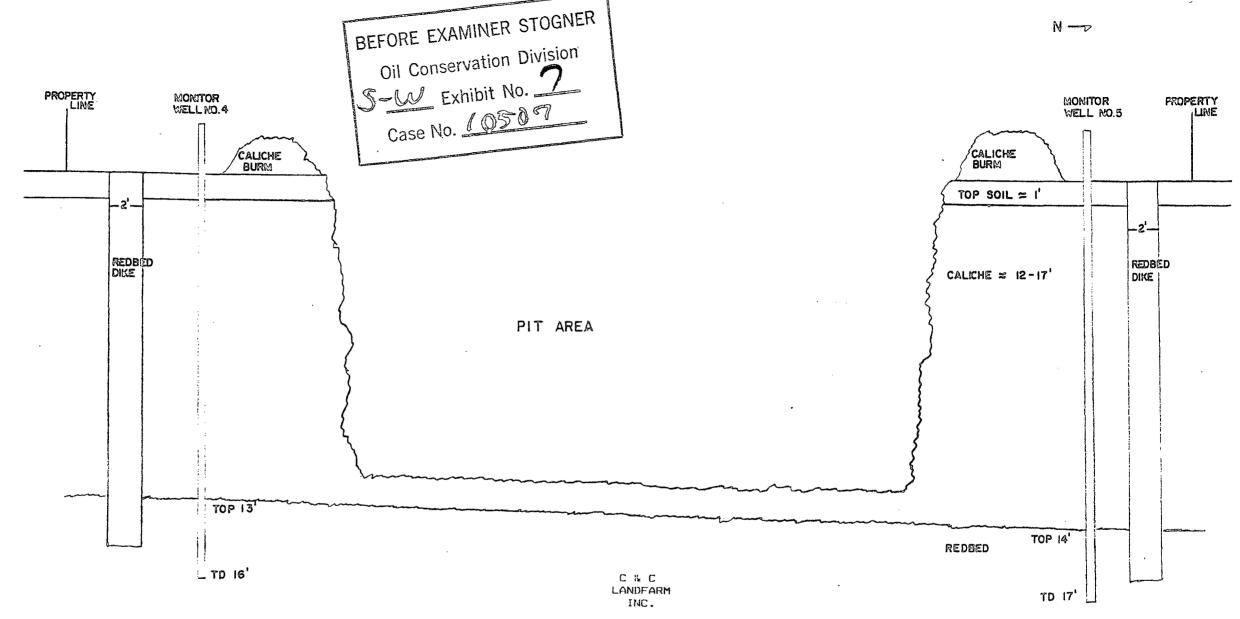
The east side monitor well should be inspected annually for the presence of water. If water is present, depth to water must be reported and a sample must be tested for: benzene, toluene, ethylbenzene, xylene, TPH, and total dissolved solids (TDS).

Soil Test Plots: quarterly progress reports due by February 28, May 31, August 31, and November 30 each year.

- 1. Testing must begin no later than August 1990 and the first progress report must be received by August 31, 1990.
- 2. Two small plots should be kept apart from other soils: one plot of gasoline contaminated soil and one of diesel contaminated soil.
- 3. A sample from each plot should be initially tested for TPH and headspace vapors.
- 4. A sample from each plot should be tested at least monthly for headspace vapors.
- 5. When headspace vapor readings fall below 50 ppm, a final TPH test should be run. If TPH is above 100 ppm. TPH tests should continue until this value is reached.
- 6. The entire testing procedure should be repeated at least once for both gasoline and diesel contaminated soils to confirm the results.







NORTH - SOUTH CROSS SECTION OF PIT FACILITY



BEFORE EXAMINER STOGNER
Oil Conservation Division
Exhibit No. 3
Case No. 10507

ATTACHMENT (May 20, 1992)

C & C LANDFARM INC. APPLICATION OCD CONDITIONS OF APPROVAL

- 1. All soils received at the facility will be spread and disked within 72 hours of receipt.
- 2. Solids will be spread on the surface in six inch lifts or less.
- 3. Solids will be disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.
- 4. No solids will be spread on previously spread solids until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 ppm and 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 will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
- 5. Only solids that are non-hazardous by RCRA Subtitle C or by characteristic testing will be accepted at the facility. Solids from operations not currently exempt under RCRA Subtitle C or mixed exempt/non-exempt solids will be tested for appropriate hazardous constituents. Test results must be submitted to the OCD along with a request to receive the non-exempt solids, and a written OCD approval (case specific) must be obtained prior to disposal. Any non-oilfield wastes which are RCRA Subtitle C exempt will be accepted on a case-by-case basis and with OCD approval.
- 6. Comprehensive records of all material disposed of at the facility will be maintained at the facility. The records for each load will include: 1) the origin, 2) analysis for hazardous constituents if required, 3) transporter.
- 7. OCD approval must be obtained prior to the addition of any substances to enhance biodegradation of the soils landfarmed (ie. chemical additives, manure, nutrients, bugs, ect.).
- 8. No free liquids or soils with free liquids will be accepted at the facility.
- 9. If any monitor wells are constructed in the future the drilling and completion plans will be submitted for OCD approval prior to conducting operations.
- 10. A redbed dike will be installed on the south, west, and north edges of the property as proposed in the C & C crrespondence dated March 2, 1992.

#### State of New Mexico

Energy, Minerals and Natural Resources Department
OF EXAMINER STOGNER
OIL CONSERVATION DIVISION
P.O. Box 2088

BEFORE	nservation Division Santa Fe, NM 87501
SOW	Exhibit No.  Exhibit No.  APPLICATION FOR SURFACE WASTE DISPOSAL FACILITY  No. (Refer to DCD Guidelines for assistance in completing the application.)
I.	Type: Produced Water Drilling Muds Treating Fluids Solids Other
II.	OPERATOR: C & C Landfarm Inc.  ADDRESS: 30x 55 Monument, NM 88265  CONTACT PERSON: Jimmie T. Cooper PHONE: 505-397-2045
Ш.	LOCATION: SW /4 NE /4 Section 3 Township 20 Range 37 E  Submit large scale topographic map showing exact location.
IV.	is this an expansion of an existing facility? $\square$ Yes $\boxtimes$ No
V.	Attach the name and address of the landowner of the disposal facility site and landowners of record within one-half me of the site.
VI.	Attach description of the facility with a diagram indicating location of fences, pits, dikes, and tanks on the facility.
VII.	Attach detailed engineering designs with diagrams prepared in accordance with Division guidelines for t construction/installation of the following: pits or ponds; leak-detection systems; aerations systems; enhance evaporation (spray) systems; waste treating systems and security systems.
VIII.	Attach a contingency plan for reporting and clean-up of spills or releases.
IX.	Attach a routine inspection and maintenance plan to ensure permit compliance.
X.	Attach a closure plan.
XI.	Attach geological/hydrological evidence demonstrating that disposal of oil field wastes will not adversely impact frowater.
XII.	Attach proof that the notice requirements of OCD Rule 711 have been met. (Commercial facilities only.)
XIII.	Attach a contingency plan in the event of a release of H ₂ S.
XIV.	Attach such other information as is necessary to demonstrate compliance with any other OCD rules, regulations and, orders.
XV.	CERTIFICATION
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Tddie W. Seay Title: Agent/Consultant
	Signature: Sadiculu Jany Date: October 4, 1991
	DISTRIBUTION: Original and one copy to Santa Fe with one copy to appropriate Division District Office.

#### APPLICATION FOR SURFACE WASTE DISPOSAL FACILITY

- I. Type: Solids Oil or Salt water contaminated soils from production facilities only.
- II. OPERATOR: C & C Landfarm Inc.
  ADDRESS: Box 55 Monument, NM 88265
  CONTACT PERSON: Jimmie T. Cooper
  PHONE: 505-397-2045
- III. LOCATION: SW 1/4 of the NE 1/4 of Section 3, Township 20, Range 37 East, Lea Co., NM.
  - IV. IS THIS AN EXPANSION OF AN EXISTING FACILITY? No, this is a new facility.
  - V. LANDOWNER OF FACILITY SITE
    Jimmie T. Cooper
    P.O. Box 55
    Monument, NM 88265

LANDOWNERS OF RECORD WITHIN 1/2 MILE State of New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504

> S & W Cattle Co. 8900 South County Rd. 58 Monument, NM 88265

J.R. Williams, et al P.O. Box 215 Monument, NM 88265

A.C. Doyall P.O. Box 188 Monument, NM 88265

#### VI. DIAGRAM (attached)

- (A) Excavate area as needed down to top of redbed approximately 10 to 12 feet. Use overburden to build burms around site to prevent and restrict rain run off and drainage to facility.
- (B) Fence around all sides, with chain link fence adjacent to County Road 58.
- (C) Gate with cattle guard at entrance. Open during daylight hours only.
- (D) 5 monitor wells on North, South, East, and West sides.
- (E) Signs posted with restrictions and permit no.

Also, any additional rule or regulation at time of closure will be adhered to.

XI. Geographically, the site is situated near the western boundary of the southern extension of the High Plains in Southeastern New Mexico. The site in question is a 40 acre tract located in Unit G, Section 3, Township 20, Range 37 E, Lea Co., NM.

The site which is bordered by County road 58 on the east, has a gradual surface slope to the west. To the SE of this site in Unit Lettter O is a large pit with the redbed exposed. Redbed is a layer of relatively impermeable clays, red to reddish brown in color, underlying the fresh water aquifer in SE New Mexico ranging in thickness up to 1200 ft.

C & C Landfarm Inc. is located on or near the redbed layer. A series of test wells were drilled to define the redbed and check for fresh water.

#### TEST WELL LOGS

- #1 Located 100 yds. N of NW corner 0-1 ft. Top Soil 1-18 ft. Caliche, Rock 18-20 ft. Redbed All formations dry.
- #2 Located 125 ft. N of the south line on the extreme west edge.
  0-1 1/2 ft. Top Soil
  1 1/2-16 ft. Caliche, Rock
  16-18 ft. Redbed
  All formations dry.
- #3 Located 100 yds. E of the west line on the south side.
  0-1 ft. Top Soil
  1-15 ft. Caliche, Rock
  15-17 ft. Redbed
  All formations dry.
- Located 50 yds. W of the east line on the south border.
   0-1 ft. Top Soil
   1-13 ft. Caliche, Rock
   13-16 ft. Redbed
   All formations dry.
- #5 Located 150 yds. W of east line on the north side.
  0-1 ft. Top Soil

(F) Any other improvement as needed or required by OCD.

#### VII. DRAWING OF MONITOR WELL (attached)

Excavate land area down to redbed, dispose of contaminated soil in 6 in. lifts and till or plow every 30 to 60 days as needed to ensure proper aeriation so soil can be cleaned up by natural remediation according to government standards. Have soil tested for TPH and BTEX before adding new lift as required.

#### VII. CONTINGENCY PLAN (NA)

There will be no liquids at facility. Any soil accidentally spilled at facility will be picked up with front end loader and deposited within landfill. No material will be accepted without documentation.

#### IX. ROUTINE INSPECTION AND MAINTENANCE PLAN

- (1) Weekly inspection of monitor wells.
- (2) Road area around facility will be graded and kept free of oily dirt.
- (3) All loads will be documented and logged.
- (4) No liquids accepted.
- (5) No tank bottoms accepted.
- (6) Area will be posted with proper signs.
- (7) No dumping will be allowed unless facility is open.
- (8) May require letter from company showing waste has not been mixed with non-exempt waste.
- (9) All area properly fenced with locked gates.
- (10) Each lift will be tested for BTEX Method 602 and TPH Method 8015 EPA test requirements before adding new lift.

#### X. CLOSURE PLAN

All overburden will be removed down to the redbed, averaging from 12 ft. on the east side, to 16 ft. on the west side.

Disposal of solids will start at redbed, when area has been filled and tested to within 1 ft. of surface elevation, area will be backfilled with top soil, mound over and compacted. The mound should prevent rain or water from standing or leaching into backfill.

All fences will be left in tact and monitor wells left in place for future monitoring.

rung sposs

Also, any additional rule or regulation at time of closure will be adhered to.

XI. Geographically, the site is situated near the western boundary of the southern extension of the High Plains in Southeastern New Mexico. The site in question is a 40 acre tract located in Unit G, Section 3, Township 20, Range 37 E, Lea Co., NM.

The site which is bordered by County road 58 on the east, has a gradual surface slope to the west. To the SE of this site in Unit Lettter O is a large pit with the redbed exposed. Redbed is a layer of relatively impermeable clays, red to reddish brown in color, underlying the fresh water aquifer in SE'New Mexico ranging in thickness up to 1200 ft.

C & C Landfarm Inc. is located on or near the redbed layer. A series of test wells were drilled to define the redbed and check for fresh water.

#### TEST WELL LOGS

- #1 Located 100 yds. N of NW corner 0-1 ft. Top Soil 1-18 ft. Caliche, Rock 18-20 ft. Redbed All formations dry.
- #2 Located 125 ft. N of the south line on the extreme west edge.
  0-1 1/2 ft. Top Soil
  1 1/2-16 ft. Caliche, Rock
  16-18 ft. Redbed
  All formations dry.
- #3 Located 100 yds. E of the west line on the south side.
  0-1 ft. Top Soil
  1-15 ft. Caliche, Rock
  15-17 ft. Redbed
  All formations dry.
- #4 Located 50 yds. W of the east line on the south border.
  0-1 ft. Top Soil
  1-13 ft. Caliche, Rock
  13-16 ft. Redbed
  All formations dry.
- #5 Located 150 yds. W of east line on the north side.
  0-1 ft. Top Soil

1-14 ft. Caliche, Rock 14-17 ft. Redbed All formations dry.

* An area in the middle of the east edge of the property, was excavated with a backhow. Rock and caliche at 0-12 ft. Redbed was encountered at 12 ft.

The wells were drilled with rotary rig, no water was excountered, only caliche, rock, and sand down to redbed. The redbeds came in at 12 ft. on the east side, down to 17 ft. on the west side. The five wells drilled were completed into the redbed and cased with 3 in. PVC pipe with 5 ft. of screen on bottom with the top 2 ft. cemented and capped. Wells to be secured with locks and used as monitor wells.

Researched State Engineers records and U.S.G.S. file, no fresh water was recorded or found within area of review. A physical inspection was made and a windmill was found approximately 1 mile SW of the site, a sample was taken and analysis recorded for future use.

We feel this is one of the better sites for deposit of contaminated soil due to the thickness of redbeds, little or no fresh water in the area, a monitor system is in place for control of system. This system is in the middle of the oil and gas production and will serve a valuable environmental need, both regulatory and industrial.

- XII. PROOF OF OCD RULE 711 (attached)
- XIII. CONTINGENCY PLAN FOR RELEASE OF H2S (NA)

Open pit system should not have H2S. If encountered, OCD Rule 118 will be adhered to.

XIV. All State of New Mexico, Oil Conservation rules will be enforced as they pertain to this system.

RVATEUM DIVISION. ECH VED

I. The thickness of the redbeds varied from area to area 11 9 31 in Section 3. The information was taken from logs of producing oil wells in the area and lithology reports.

Unit	C	Top	20	ft.	Base	960	ft.
	F		30	ft.		562	ft.
	В		14	ft.		880	ft.
	H		15	ft.		1350	ft.
	M		30	ft.		1270	ft.
	L		40	ft.		1050	ft.

with the average thickness being 987 ft.

II. Groundwater in the area; Figure I is a copy of the State Engineer's water analysis and locations for this area, none were listed in Sect. 3. The windmill SSW of our proposed site appears to be located in Unit M of Sect. 3 approximately 3/4 mile from site; Figure II is a copy of analysis from S & W windmill. Figure III indicates water wells in the general area showing top and bottom of water formation and contour line indicating direction of flow, which is SE. Figure IV is a contour map of top of redbed, with slopes to the SSE. Figure V is a contour map of the surface for the surrounding area, the direction of slope is to the west.

The contour maps provided are information from the State Bureau of Mines, which shows any movement at our site would run SE along the redbed surface and west along the top of ground.

If the State feels it is necessary, additional monitor wells can be installed or a redbed barrier constructed on the SW portion of our site to prevent any contaminate from moving.

III. Also provided are the mail receipts from registered letters.

Any additional information needed, please call (505)392-2236.

Eddie W. Seay Peak Consulting

Eddie W S

		JATE (		00101103			ataw ciiq.
6	LOCATION	COLLECTED	MLORIDE mg/L	CONDUCI M-MHOS	TEMP	WBF	List of wale
[3]	20S 36E 09 13440	10/12/84	434	2350	63F	TOG	
. 4						~ T. F	- Wills in the area
5	20S 36E 10 32114	08/28/72	79	520		CAL	None listed in
[6]	20S 36E 10 32114	11/01/76	66	889	66F	GAL	- Sud-3
4	205 36E 10 32114	10/19/79	68 .	880	66F	GAL	Š.
/ B	205 36E 10 32114	10/12/84	92	980	64F	dal	L
9	000 0/5 11 40040	20,420,430	1000	A 0 179 Ø			
10	1	08/28/72	1000	1450	100	GAL	<u>L</u>
	mas m/s // / / / / / / / / / / / / / / / /	11/01/76	918	3969	63F	GAL	<u>.                                    </u>
12		10/19/79 10/12/84	1074 840	<u>4569</u>	65F	BAL	
13	203 30E 11 9EE93	14/12/04	<b>6</b> 40	\$330	64F	GAL	l Come
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#### WATER ANALYSIS REPORT

Company : S&W CATTLE CO
Address : HOBBS, NEW MEXICO
Lease : SECT 3 T20 R37
Well : UNIT M
Sample Pt. : WINDMILL Date : 10/29/91 Date Sampled : 10/28/91 Analysis No. : 876

	ANALYSIS		mg/L		* meq/L
1. 2.	F	.1 EGATIVE			
3.	Specific Gravity 1	000			
4.	Total Dissolved Solids		2245.2		
5. 6.	Suspended Solids Dissolved Oxygen				
7.	Dissolved CO2				· :
8.	Oil In Water			٠	•
9.	Phenolphthalein Alkalir				
10.	Methyl Orange Alkalinit		291.0		
11.	Bicarbonate	HCO3		HCO3	5.8
12.	Chloride	Cl	599.1	Cl	16.9
13.	Sulfate	SO4	575.0	SO4	12.0
14.	Calcium	Ca	153.5	Ca	7.7
15.	Magnesium	Mg	66.1	Mq	5.4
16.	Sodium (calculated)	Na	496.4	Nā	21.6
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		655.6		

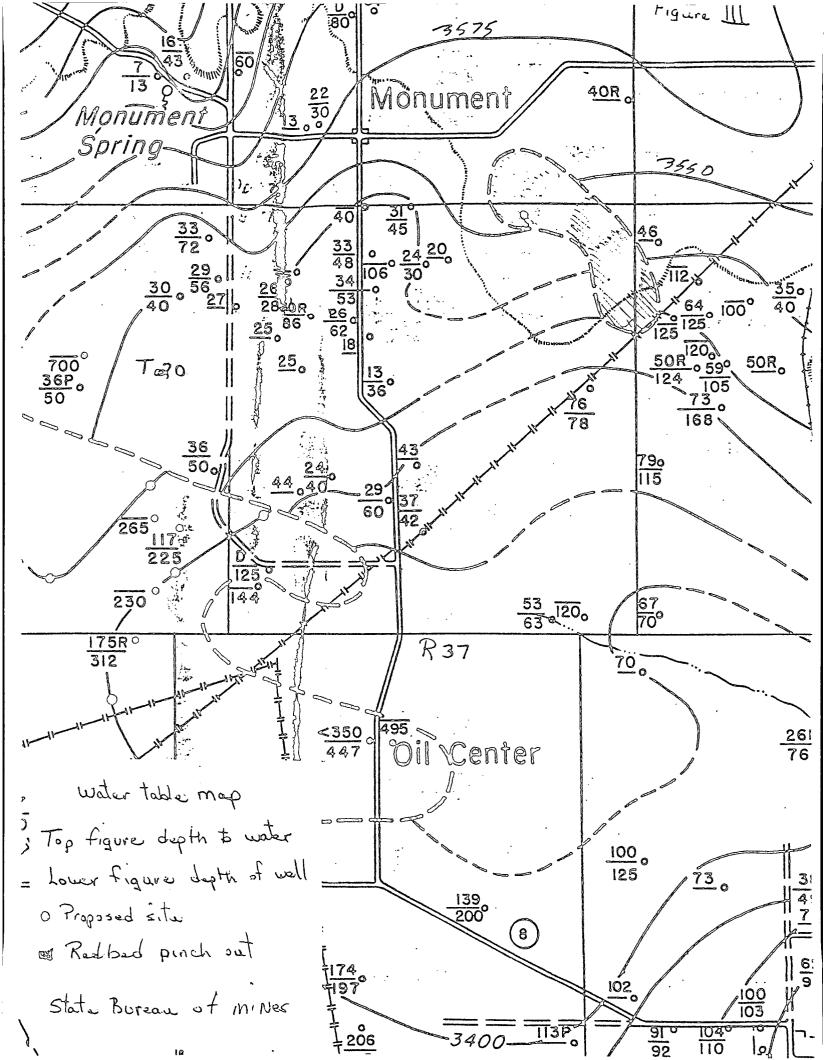
#### PROBABLE MINERAL COMPOSITION

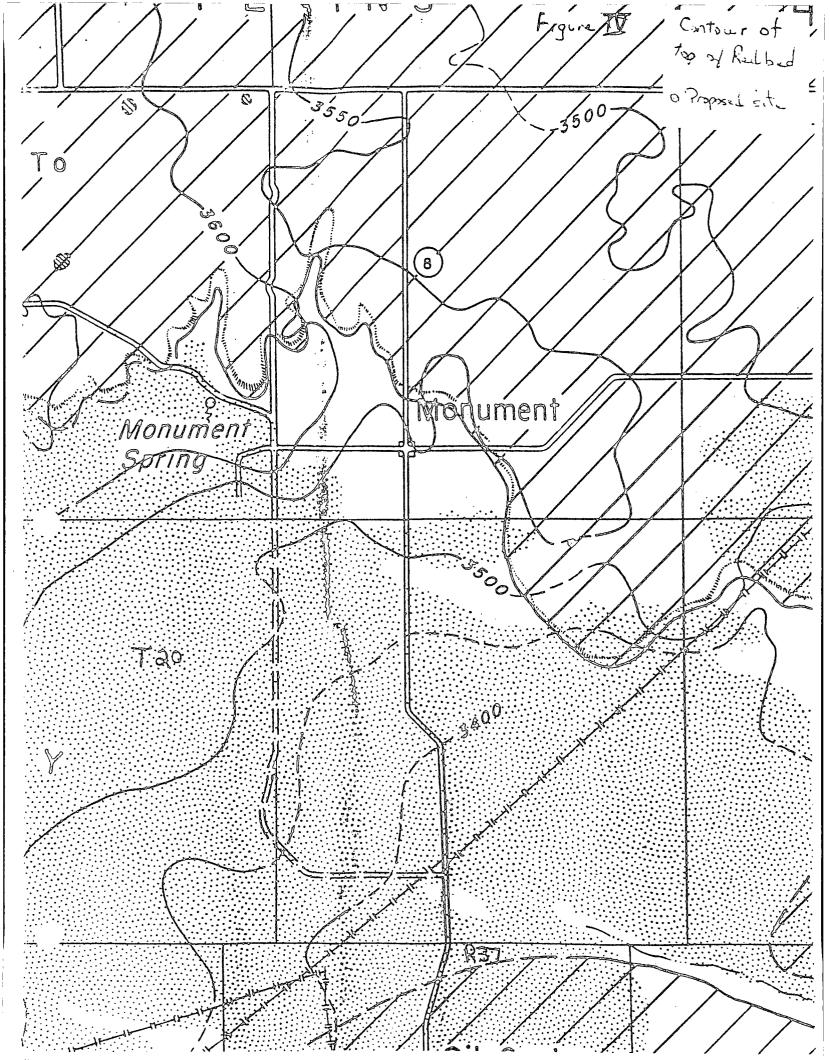
*milli equivalents per Lite	r	Compound	Equiv wt	X meq/L	= mg/I
of cas 100 cm are con con of	+				
8 *Ca < *HCO3	6	Ca (HCO3) 2	81.0	5.8	472
		CaSO4	68.1	1.8	125
5 *Mg> *S04	12	CaCl2	55.5		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Mg(HCO3)2	73.2		
22 *Na> *Cl	17	MgSO4	60.2	5.4	327
	++	MgCl2	47.6		
Saturation Values Dist. Wat	er 20 C	NaHCO3	84.0		
CaCO3 13 m	ıg/L	Na2S04	71.0	4.7	333
CaSO4 * 2H2O 2090 m	ıg/L	NaCl	58.4	16.9	988
BaSO4 2.4 m	ıg/L				

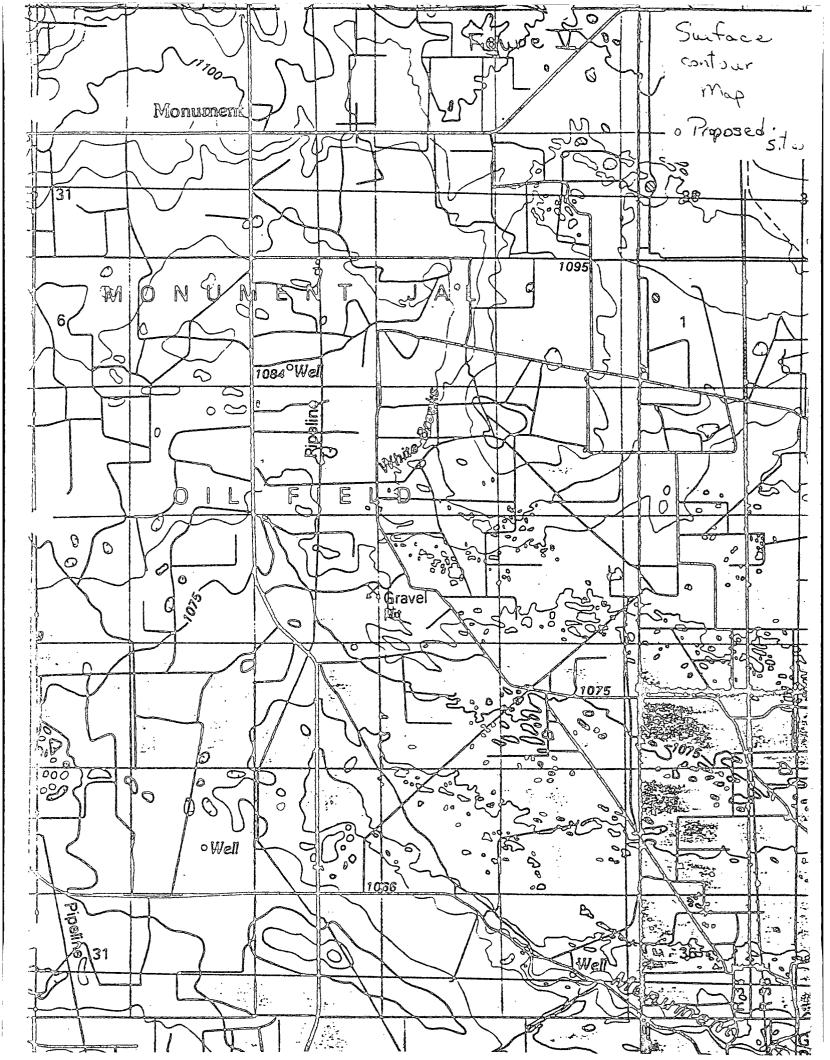
REMARKS: EDDIE SEAY

Petrolite Oilfield Chemicals Group

Respectfully submitted, ROZÂNNE JOHNSON



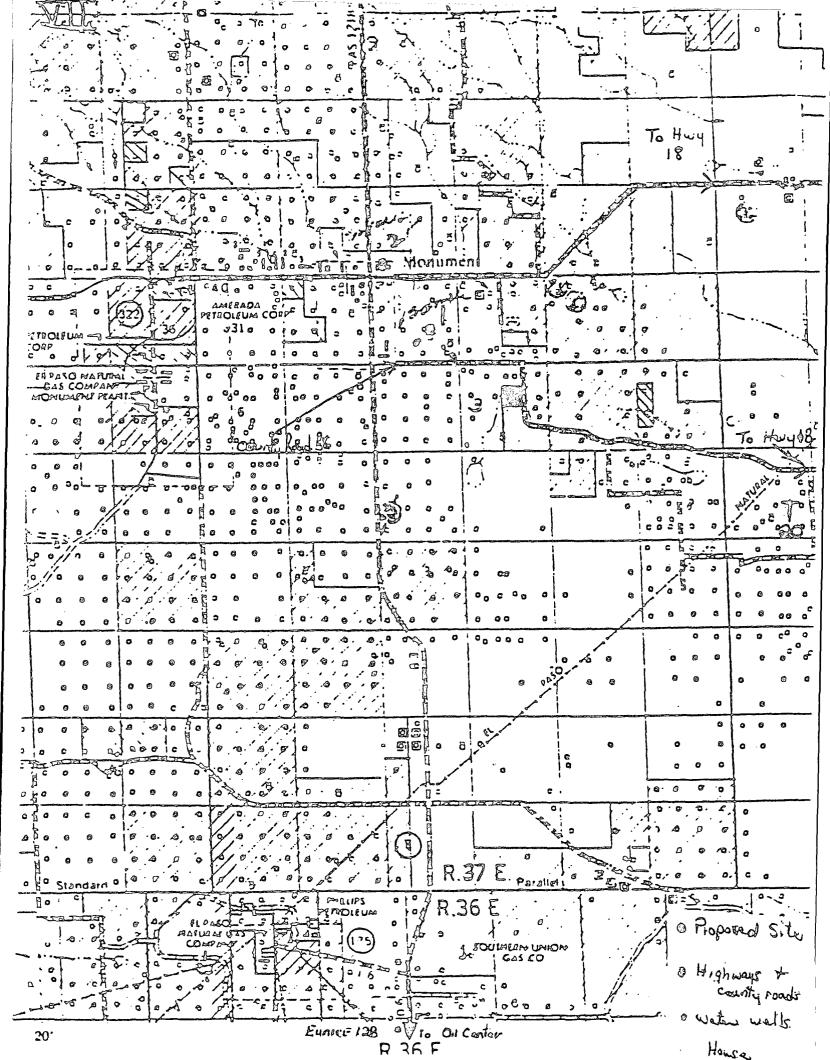




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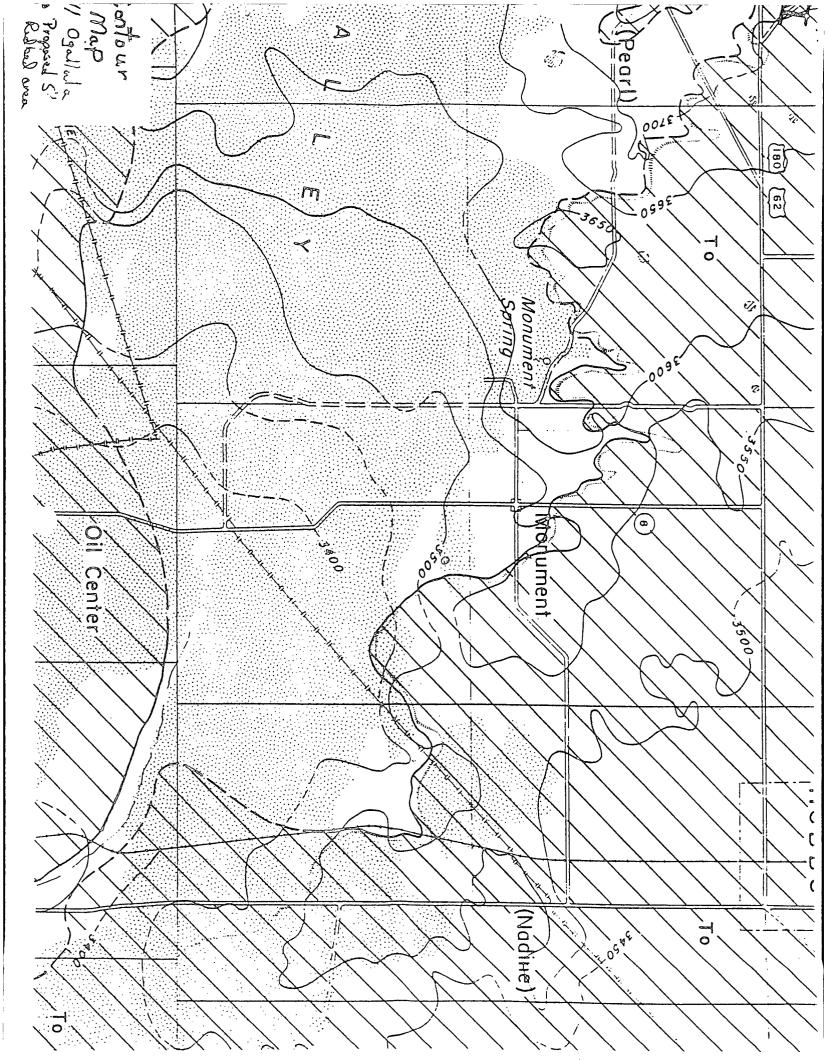
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C+C Landform Inc. U'G 5.3 T20 R37 E Test well - Moniter Well دراء " casing set at Redbid Hole size 64 "

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PS Form 3800, June

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	Monument, NM 88265
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3800

Form

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Certified Mail Receipt
No Insurance Coverage Provided
Do not use for International Mail
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Form 3800, June 1990	Postmork or Date								

III

C & C Landfarm Inc.

Jimmie T. Cooper P.O. Box 55 Monument, NM 88265
505-397-2045

October 1, 1991

Dear Sir:

Pursuant to Rule 711 of the Oil Conservation Commission. State of New Mexico, notice is hereby given that Jimmie T. Cooper, owner and operator of C & C Landfarm Inc., will be filing an application for a surface waste disposal facility located at SW 1/4 of the NE 1/4 of Section 3. Township 20, Range 37E, Lea Co., NM on deeded land. The facility will be for the disposal of contaminated soils only from oil and gas production. No produced waters or tank bottoms will be allowed. This disposal will allow a safe place for the natural occurance of remediation of the soil.

If there are any questions please contact:

Mr. Roger Anderson State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501 505-827-5884

Thank You.

Eddie W.Seay

Peak Consulting Service

DOMESTIC RETURN RECEIPT SENDER: Complete stems 1 and 2 when additional services are decired, and complete items 3 and 4. Put your address in the "METURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check boxies) for additional service(s) requested.

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