

NM2 - 19

**GENERAL  
CORRESPONDENCE  
YEAR(S):**

2001-2006

**Jones, Brad A., EMNRD**

---

**From:** Jones, Brad A., EMNRD  
**Sent:** Thursday, October 19, 2006 3:44 PM  
**To:** 'Savoie, John'  
**Subject:** RE: Southern Union Gas Landfarm

Tony,

As for the initial request referring to the name change, NMOCD has received an updated change of ownership form signed by Mitchell Roper (Sr. VP) of Southern Union Gas Services, Ltd. We have updated our files and database.

Brad

**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](mailto:brad.a.jones@state.nm.us)*  
*Office: (505) 476-3487*  
*Fax: (505) 476-3462*

---

**From:** Savoie, John [mailto:[tony.savoie@sug.com](mailto:tony.savoie@sug.com)]  
**Sent:** Thursday, October 05, 2006 2:35 PM  
**To:** Jones, Brad A., EMNRD  
**Subject:** FW: Southern Union Gas Landfarm

---

**From:** Savoie, John  
**Sent:** Thursday, October 05, 2006 2:21 PM  
**To:** 'brada.jones@state.nm.us'  
**Subject:** FW: Southern Union Gas Landfarm

---

**From:** Savoie, John  
**Sent:** Thursday, October 05, 2006 1:42 PM  
**To:** 'brada.jones@state.nm.us'  
**Subject:** Southern Union Gas Landfarm

Brad,  
Reference Permit #NM-02-0019

10/19/2006

We are currently going through an In-house review process where permits and applications are being reviewed by consultants.

I am making sure that the name change from Sid Richardson Gas Services to Southern Union Gas Services has been addressed and I would like to discuss some language changes in the permit on the waste acceptance on Page 6 item #1.

The current wording is:

The facility is authorized to accept only exempt and "non-hazardous" non-exempt oilfield wastes that are generated in the State of New Mexico by Sid Richardson Energy Services Co.

I would like to change this to acceptance of exempt and "non-hazardous" non-exempt oilfield wastes that are generated by Southern Union Gas Services,LTD.

Southern Union Gas Services is an affiliate of Southern Union Gas but only deals with the gathering and processing part of the natural gas gathering systems.

If possible could you include the name change and the correction to the wording and send me a new approved application.?

Thanks,

Tony Savoie

EH&S Compliance Coordinator

Southern Union Gas Services,LTD.

The information in this e-mail, and any files transmitted with it, is intended for the exclusive use of the recipient(s) to which it is addressed and may contain confidential, proprietary or privileged information.

If you are not an intended recipient, you have received this transmission in error and any use, review, dissemination, distribution, printing or copying of this information is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately of the erroneous transmission by reply e-mail, immediately delete this e-mail and all electronic copies of it from your system and destroy any hard copies of it that you may have made. Thank you.

**Jones, Brad A., EMNRD**

---

**From:** Jones, Brad A., EMNRD  
**Sent:** Thursday, October 19, 2006 3:32 PM  
**To:** 'Savoie, John'  
**Subject:** RE: Southern Union Gas Landfarm

Tony,

The current rule (19.15.2.9.711 NMAC) defines a centralized facility as follows:

A centralized facility is defined as a surface waste management facility that accepts only waste generated in New Mexico and that:

- (a) does not receive compensation for waste management;
- (b) is used exclusively by one generator subject to New Mexico's "Oil and Gas Conservation Tax Act" Section 7-30-1 NMSA-1978 as amended; or
- (c) is used by more than one generator subject to New Mexico's "Oil and Gas Conservation Tax Act" Section 7-30-1 NMSA-1978 as amended under an operating agreement and which receives wastes that are generated from two or more production units or areas or from a set of jointly owned or operated leases.

This is why the provision is a condition of permit NM-2-0019. This should be resolved in about six to eight weeks if the new rule 53 becomes active. Rule 53 will replace rules 709, 710, and 711. There is a transitional provision in rule 53 that will resolve this restriction. It is recommended to make this request once rule 53 becomes active. If you have any questions regarding this issue, please do not hesitate to contact me.

Brad

**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](mailto:brad.a.jones@state.nm.us)*  
*Office: (505) 476-3487*  
*Fax: (505) 476-3462*

---

**From:** Savoie, John [mailto:[tony.savoie@sug.com](mailto:tony.savoie@sug.com)]  
**Sent:** Thursday, October 05, 2006 2:35 PM  
**To:** Jones, Brad A., EMNRD  
**Subject:** FW: Southern Union Gas Landfarm

---

**From:** Savoie, John

10/19/2006

**Sent:** Thursday, October 05, 2006 2:21 PM  
**To:** 'brada.jones@state.nm.us'  
**Subject:** FW: Southern Union Gas Landfarm

---

**From:** Savoie, John  
**Sent:** Thursday, October 05, 2006 1:42 PM  
**To:** 'brada.jones@state.nm.us'  
**Subject:** Southern Union Gas Landfarm

Brad,

Reference Permit #NM-02-0019

We are currently going through an In-house review process where permits and applications are being reviewed by consultants.

I am making sure that the name change from Sid Richardson Gas Services to Southern Union Gas Services has been addressed and I would like to discuss some language changes in the permit on the waste acceptance on Page 6 item #1.

The current wording is:

The facility is authorized to accept only exempt and "non-hazardous" non-exempt oilfield wastes that are generated in the State of New Mexico by Sid Richardson Energy Services Co.

I would like to change this to acceptance of exempt and "non-hazardous" non-exempt oilfield wastes that are generated by Southern Union Gas Services,LTD.

Southern Union Gas Services is an affiliate of Southern Union Gas but only deals with the gathering and processing part of the natural gas gathering systems.

If possible could you include the name change and the correction to the wording and send me a new approved application.?

Thanks,

Tony Savoie

EH&S Compliance Coordinator

Southern Union Gas Services,LTD.

The information in this e-mail, and any files transmitted with it, is intended for the exclusive use of the recipient(s) to which it is addressed and may contain confidential, proprietary or privileged information.

If you are not an intended recipient, you have received this transmission in error and any use, review, dissemination, distribution, printing or copying of this information is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately of the erroneous transmission by reply e-mail, immediately delete this e-mail and all electronic copies of it from your system and destroy any hard copies of it that you may have made. Thank you.

**Jones, Brad A., EMNRD**

---

**From:** Savoie, John [tony.savoie@sug.com]  
**Sent:** Thursday, October 05, 2006 2:35 PM  
**To:** Jones, Brad A., EMNRD  
**Subject:** FW: Southern Union Gas Landfarm

---

**From:** Savoie, John  
**Sent:** Thursday, October 05, 2006 2:21 PM  
**To:** 'brada.jones@state.nm.us'  
**Subject:** FW: Southern Union Gas Landfarm

---

**From:** Savoie, John  
**Sent:** Thursday, October 05, 2006 1:42 PM  
**To:** 'brada.jones@state.nm.us'  
**Subject:** Southern Union Gas Landfarm

---

Brad,  
Reference Permit #NM-02-0019  
We are currently going through an In-house review process where permits and applications are being reviewed by consultants.

I am making sure that the name change from Sid Richardson Gas Services to Southern Union Gas Services has been addressed and I would like to discuss some language changes in the permit on the waste acceptance on Page 6 item #1.

The current wording is:

The facility is authorized to accept only exempt and "non-hazardous" non-exempt oilfield wastes that are generated in the State of New Mexico by Sid Richardson Energy Services Co.

I would like to change this to acceptance of exempt and "non-hazardous" non-exempt oilfield wastes that are generated by Southern Union Gas Services,LTD.

Southern Union Gas Services is an affiliate of Southern Union Gas but only deals with the gathering and processing part of the natural gas gathering systems.

If possible could you include the name change and the correction to the wording and send me a new approved application.?

Thanks,

Tony Savoie 1315) 631 - 9376  
EH&S Compliance Coordinator  
Southern Union Gas Services,LTD.

The information in this e-mail, and any files transmitted with it, is intended for the exclusive use of the recipient(s) to which it is addressed and may contain confidential, proprietary or privileged information. If you are not an intended recipient, you have received this transmission in error and any use, review, dissemination, distribution, printing or copying of this information is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately of the erroneous transmission by reply e-mail, immediately delete this e-mail and all electronic copies of it from your system and destroy any hard copies of it that you may have made. Thank you.

**CHANGE OF OWNERSHIP**

**FACILITY INFORMATION:**

**Surface Waste Management Facility Permit:** NM 2019

**Legal Description:** SE/4 NW/4 of Section 36, Township 23 South, Range 38 East, NMPM

**Location:** Lea County, New Mexico

**From:** Sid Richardson Energy Services Co.  
610 Commerce  
Jal, New Mexico 88252

**To:** Southern Union Gas Services, Ltd.

**CERTIFICATION:**

Southern Union Gas Services, Ltd., by the officer whose signature appears below, accepts this permit and agrees to comply with all terms and conditions contained herein.

Southern Union Gas Services, Ltd. further acknowledges that the Division for good cause shown as necessary to protect fresh water, human health, and the environment may change such terms and conditions administratively. The undersigned also attests to the fact that he or she understands 19.15.1.41 NMAC which states "Any person who conducts any activity pursuant to a permit, administrative order or other written authorization or approval from the division shall comply with every term, condition and provision of such permit, administrative order, authorization or approval."

Accepted:

SOUTHERN UNION GAS SERVICES, LTD.

Signature: 

Mitchell R. Roper

Title: Sr. Vice President

\*\*Mailing Address: 201 Main Street, #3000, Fort Worth, TX 76102

\*\*Contact Telephone Number: Ann Gorrell 817-390-8755

Date: \_\_\_\_\_

Permit #: NM 2019

\*\*Effective 08-28-06 address and phone number change to:  
301 Commerce St., #700  
Fort Worth, TX 76102  
817-302-9434

RECEIVED

**Southern Union  
Gas Services**

AUG 28 2006

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87506

301 Commerce Street, #700  
Fort Worth, TX 76102  
817.302.9400  
817.302.9352, FAX

The Fort Worth, TX offices of Southern Union Gas Services, Ltd., Southern Union Pipeline, Ltd. and Southern Union Intrastate Gas Pipeline, Ltd. are moving, effective August 28, 2006.

The new address and telephone number are:

301 Commerce, Suite 700  
Fort Worth, TX 76102

Main Telephone No.: 817-302-9400

The following individuals will also have new direct dial telephone numbers and e-mail addresses:

Mike Cutson	817-302-9435	mike.cutson@sug.com
Ann Gorrell	817-302-9434	ann.gorrell@sug.com
Susan Lampe	817-302-9433	susan.lampe@sug.com
David Tatum	817-302-9431	david.tatum@sug.com
Jim Wade	817-302-9430	jim.wade@sug.com

The fax number for the above individuals is 817-302-9352.

Please contact one of the persons listed above if there are questions.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

7001 1940 0004 7920 7560

March 4, 2005

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

Sid Richardson Energy Services Co.  
610 Commerce  
Jal, NM 88252

Permit Number: NM-2-0019

Re: Administrative Modification of Landfarm Permits

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

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

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

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

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

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

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

Very truly yours,

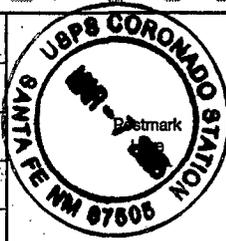
Mark E. Fesmire, P.E

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

**OFFICIAL USE**

7001 1940 0004 7920 7560

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 42.2</b>



Sent To  
**SIO RICHARDSON ENERGY SERVICES**  
Street, Apt. No.,  
or PO Box No. **610 COMMERCE**  
City, State, ZIP+4  
**JAL, NM 88252**

RECEIVED

MAR 11 2002

Environmental Bureau  
Oil Conservation Division

February 26, 2002

Sid Richardson Energy Services Co.  
P.O. Box 1226  
Jal, N.M. 88252

Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
P.O. Box 1220  
Santa Fe, N.M. 87505

Re: Sid Richardson Centralized Landfarm  
Section 36, Township 23 South, Range 36E  
Lea County, New Mexico

Dear Martyne:

Attached with this letter are the specifications on the tractor and plow that will be used to work the soil at the Sid Richardson landfarm.

The tractor is a John Deer 4455 4wd rated at 140 h.p.

The plow is moldboard plow, with an effective plowing depth of 14 inches.

Respectfully,



Tony Savoie  
E.H.S Compliance coordinator

RECEIVED

MAR 11 2002

Environmental Bureau  
Oil Conservation Division



Specifications for **2810 Moldboard Plow**

[ CLOSE WINDOW ]

[ PRINT ] [ EXPORT TO EXCEL ]

**MANUFACTURER** John Deere  
**MODEL** 2810 Moldboard Plow

**Hitch**

Integral, In-Furrow	
Integral, On-Land	
Semi-Integral, In-Furrow	Yes
Semi-Integral, On-Land	No
Drawn, In-Furrow	No
Drawn, On-Land	No
Quick coupler compatible	Yes

**Size**

# of bottoms - Rigid frame	4,5,6
# of bottoms - Flex frame	No

**Working Width**

Width of cut, in. (mm)	14 to 22 in. (350 to 550)
Adjustment	Manual
Option	Hydraulic

**Clearances**

Vertical, in. (mm)	33.5 (850)
Fore-Aft, in. (mm)	34 (875)

**Standards**

Shearbolt	No
Safety Trip	Yes
Spring Reset	Yes
Hydraulic	No

**Coulters**

Shearbolt	Yes
Cushion	Yes

**Bottoms**

Option #1, in. (mm)	
Plowing Depth, in. (mm)	12 (305)
Option #2, in. (mm)	
Plowing Depth, in. (mm)	14 (350)
Option #3, in. (mm)	
Plowing Depth, in. (mm)	
Option #4, in. (mm)	
Plowing Depth, in. (mm)	
Option #5, Reversible bottom -Steel	
Plowing Depth, in. (mm)	
Option #6, Reversible bottom - Plastic	
Plowing depth, in. (mm)	

**Frame**

Size, in. (mm)	8 x 8 (220 x 200)
Expandable	No

FEB-21-2002 THU 03:58 PM

LMC PARTS

2295241164

P. 01

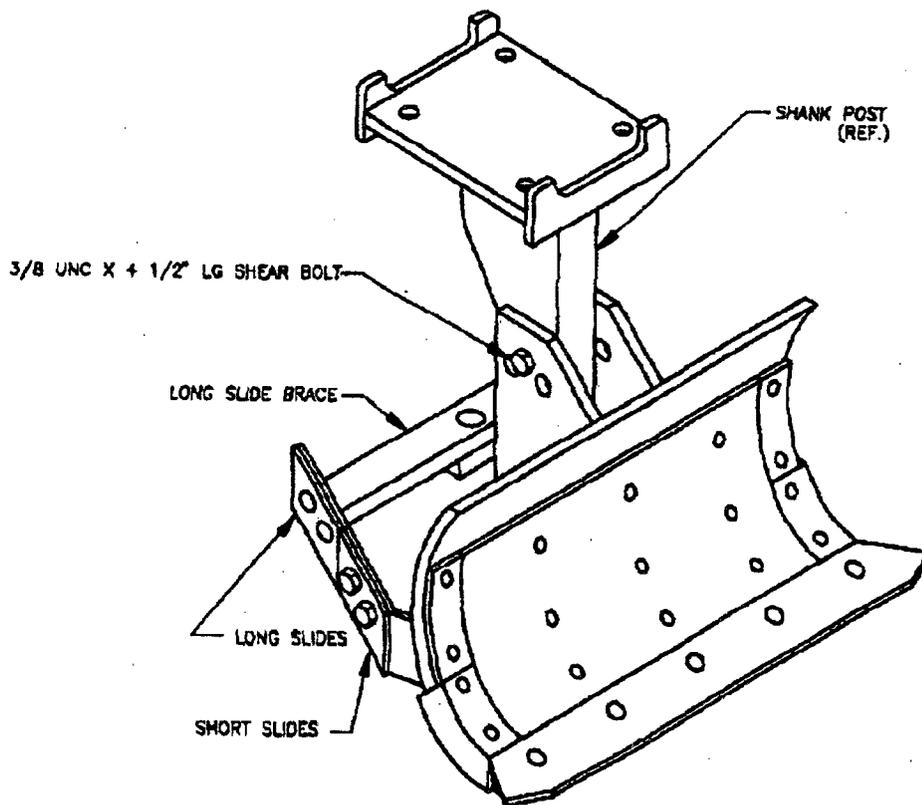
RECEIVED

MAR 13 2002

Environmental Bureau  
Oil Conservation Division

### ASSEMBLY OF MOLD BOARDS TO SHANKS (REFER TO FIGURE 6)

Attach the required number of mold boards to the plow shanks for your model switch plow. Be sure to position the mold board with the long land slides at the last position in the rear. Attach each mold board to the shank with (1) 3/8" x 4-1/2" long shear bolt in the top hole and (1) 7/8" x 5-1/2" long hex bolt in the bottom hole. Tighten each bolt to the proper torque setting on page 17.



(FIGURE 6)

RECEIVED

MAR 11 2002

Environmental Bureau  
Oil Conservation Division

# Specifications

## POWER:

At PTO (Factory observed at 2200 rpm)

4055 .....	105 hp (76.3 kw)
4255 .....	120 hp (89.5 kW)
4455 .....	140 hp (104.4 kW)

## ENGINE:

Type .....	diesel
Aspiration .....	turbocharged
Cylinders .....	in-line 6
Slow idle speed .....	850 rpm
Governed speed range .....	800 to 2400 rpm
Operating speed range .....	1500 to 2200 rpm
Bore and stroke .....	4.56 x 4.75 in. (115.8 x 120.7 mm)
Compression ratio .....	15.0:1
Displacement .....	466 cu in. (7.6 L)
Firing order .....	1-5-3-6-2-4

### Valve clearance:

Intake .....	0.015 in. (0.38 mm)
Exhaust .....	0.020 in. (0.51 mm)

Lubrication system .....

## FUEL SYSTEM:

Type .....	direct injection
Injection pump type .....	in-line
Injection pump timing .....	TDC
Air cleaner .....	dry type with safety element

## COOLING SYSTEM:

Type .....	10 psi (69 kPa) (0.7 bar) with centrifugal pump
Fan .....	viscous drive
Thermostats .....	two heavy-duty

(Specifications and design subject to change without notice.)



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

January 8, 2002

**Lori Wrotenberg**  
Director  
Oil Conservation Division

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 7099-3220-0000-5051-2825**

Mr. Randall Dunn  
Sid Richardson Energy Services Co.-Jal  
610 Commerce  
Jal, NM 88252

**RE: Public Notice for Sid Richardson Energy Services Co. -Jal  
Centralized Surface Waste Management Facility Permit Application  
SE/4 NW/4 of Section 36, Township 23 South, Range 36 East, NMPM,  
Lea County, New Mexico**

Dear Mr. Dunn:

The New Mexico Oil Conservation Division (OCD) has received Sid Richardson Energy Services Co. -Jal (Sid Richardson) application for Rule 711 centralized surface waste management facility dated May 30, 2002. The application proposes to construct a landfarm soil remediation facility. The facility is to be located in the SE/4 NW/4 of Section 36, Township 23 South, Range 38 East, NMPM, Lea County, New Mexico.

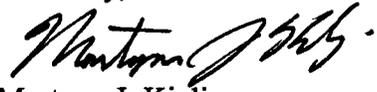
Based on the information provided with the application Form C-137 the OCD has prepared a public notice statement that Sid Richardson must published in the Lovington Daily Record newspaper. In addition, a notice shall be sent certified mail to all landowners within one mile of the proposed expansion area and the county commission where the facility is proposed to be located. Sid Richardson must send the original certified affidavit of publication from the Lovington Daily Record to the OCD Santa Fe office and a copy to the Hobbs District office. In addition, Sid Richardson must send copies of the postal receipt and signed certified return receipt from each of the landowners and county commission to both the OCD Santa Fe office and Hobbs District office.

The Santa Fe office has received the original application Form C-137 and attachments including the return receipt from one surface owner of record (Kelly Myers, Deep Wells Ranch). The OCD has not received proof (certified return receipt) of such notice to the New Mexico State Land Office or the county commission.

Mr. Randall Dunn  
January 8, 2002  
Page 2

If you have any questions please do not hesitate to contact me at (505) 476-3488.

Sincerely,

A handwritten signature in black ink, appearing to read "Martyne J. Kieling". The signature is written in a cursive, flowing style.

Martyne J. Kieling  
Environmental Geologist

attachments

xc with attachments: Hobbs OCD Office

**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, 1220 South Saint Frances Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

**Sid Richardson Energy Services Co.-Jal, Operator, Randall Dunn, 610 Commerce, Jal, New Mexico 88252, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the SE/4 NW/4 Section 36, Township 23 South, Range 36 East, N.M.P.M., Lea County, New Mexico. Hydrocarbon contaminated soils associated with oil and gas production operations will be remediated by spreading them on the ground surface in six (6) inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is estimated to be at a depth of 155 feet to 170 feet with a total dissolved solids concentration of 493 parts per million. The facility is underlain by Quaternary dune sands, alluvium and the Ogallala Formation. The Ogallala Formation rests unconformably upon Triassic and Cretaceous rocks. The permit application addresses the 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 or at or at the Hobbs District office at 1625 N. French Dr., Hobbs, New Mexico 88240 between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

September 20, 2004

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

Director

**Oil Conservation Division**

Mr. Randall Dunn  
Sid Richardson Energy Services Co.  
610 Commerce  
Jal, NM 88252

RECEIVED

SEP 23 2004

OIL CONSERVATION  
DIVISION

NM-2-019

Dear Mr. Dunn:

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

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

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

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

Please check one of the following:

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

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

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

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

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

Signed 

Date 11/2/04



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

September 20, 2004

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

Director

**Oil Conservation Division**

Mr. Randall Dunn  
Sid Richardson Energy Services Co.  
610 Commerce  
Jal, NM 88252

Dear Mr. Dunn:

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

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

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

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

Please check one of the following:

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

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

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

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

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

Signed \_\_\_\_\_

Date \_\_\_\_\_

RECEIVED

MAR 11 2002  
Environmental Bureau  
Oil Conservation Division

February 26, 2002

Sid Richardson Energy Services Co.  
P.O. Box 1226  
Jal, N.M. 88252

Martyne J. Kieling  
Environmental Geologist  
New Mexico Oil Conservation Division  
P.O. Box 1220  
Santa Fe, N.M. 87505

Re: Sid Richardson Centralized Landfarm  
Section 36, Township 23 South, Range 36E  
Lea County, New Mexico

Dear Martyne:

Attached with this letter are the specifications on the tractor and plow that will be used to work the soil at the Sid Richardson landfarm.

The tractor is a John Deer 4455 4wd rated at 140 h.p.

The plow is moldboard plow, with an effective plowing depth of 14 inches.

Respectfully,



Tony Savoie  
E.H.S Compliance coordinator

RECEIVED

MAR 11 2002

Environmental Bureau  
Oil Conservation Division



Specifications for **2810 Moldboard Plow**

<b>MANUFACTURER</b>	John Deere
<b>MODEL</b>	2810 Moldboard Plow
<b>Hitch</b>	
Integral, In-Furrow	
Integral, On-Land	
Semi-Integral, In-Furrow	Yes
Semi-Integral, On-Land	No
Drawn, In-Furrow	No
Drawn, On-Land	No
Quick coupler compatible	Yes
<b>Size</b>	
# of bottoms - Rigid frame	4,5,6
# of bottoms - Flex frame	No
<b>Working Width</b>	
Width of cut, in. (mm)	14 to 22 in. (350 to 550)
Adjustment	Manual
Option	Hydraulic
<b>Clearances</b>	
Vertical, in. (mm)	33.5 (850)
Fore-Aft, in. (mm)	34 (875)
<b>Standards</b>	
Shearbolt	No
Safety Trip	Yes
Spring Reset	Yes
Hydraulic	No
<b>Coulters</b>	
Shearbolt	Yes
Cushion	Yes
<b>Bottoms</b>	
Option #1, in. (mm)	
Plowing Depth, in. (mm)	12 (305)
Option #2, in. (mm)	
Plowing Depth, in. (mm)	14 (350)
Option #3, in. (mm)	
Plowing Depth, in. (mm)	
Option #4, in. (mm)	
Plowing Depth, in. (mm)	
Option #5, Reversible bottom -Steel	
Plowing Depth, in. (mm)	
Option #6, Reversible bottom - Plastic	
Plowing depth, in. (mm)	
<b>Frame</b>	
Size, in. (mm)	8 x 8 (220 x 200)
Expandable	No

RECEIVED

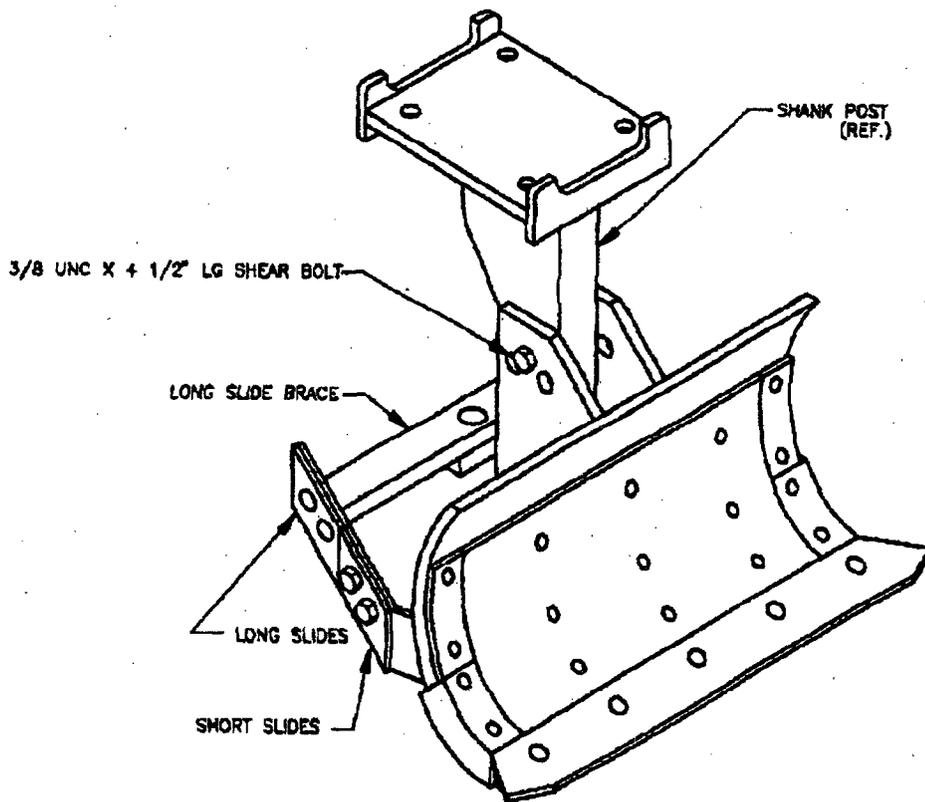
HARREL COMPANY, INC.

MAR 13 2002

Environmental Bureau  
Oil Conservation Division

**ASSEMBLY OF MOLD BOARDS TO SHANKS**  
(REFER TO FIGURE 6)

Attach the required number of mold boards to the plow shanks for your model switch plow. Be sure to position the mold board with the long land slides at the last position in the rear. Attach each mold board to the shank with (1) 3/8" x 4-1/2" long shear bolt in the top hole and (1) 7/8" x 5-1/2" long hex bolt in the bottom hole. Tighten each bolt to the proper torque setting on page 17.



(FIGURE 6)

RECEIVED

MAR 11 2002  
Environmental Bureau  
Oil Conservation Division

# Specifications

## POWER:

At PTO (Factory observed at 2200 rpm)

4055 .....	105 hp (76.3 kW)
4255 .....	120 hp (89.5 kW)
4455 .....	140 hp (104.4 kW)

## ENGINE:

Type .....	diesel
Aspiration .....	turbocharged
Cylinders .....	in-line 6
Slow idle speed .....	650 rpm
Governed speed range .....	800 to 2400 rpm
Operating speed range .....	1500 to 2200 rpm
Bore and stroke .....	4.56 x 4.75 in. (115.8 x 120.7 mm)
Compression ratio .....	16.0:1
Displacement .....	466 cu in. (7.6 L)
Firing order .....	1-5-3-6-2-4
Valve clearance:	
Intake .....	0.015 in. (0.38 mm)
Exhaust .....	0.020 in. (0.51 mm)
Lubrication system .....	full pressure-full flow filtration

## FUEL SYSTEM:

Type .....	direct injection
Injection pump type .....	in-line
Injection pump timing .....	TDC
Air cleaner .....	dry type with safety element

## COOLING SYSTEM:

Type .....	10 psi (69 kPa) (0.7 bar) with centrifugal pump
Fan .....	viscous drive
Thermostats .....	two heavy-duty

(Specifications and design subject to change without notice.)

# Affidavit of Publication

RECEIVED

STATE OF NEW MEXICO

) FEB 05 2002

COUNTY OF LEA

) ss Environmental Bureau  
) Oil Conservation Division

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising 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

was published in a regular and entire issue of **THE LOVINGTON DAILY LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of January 18, 2002 and ending with the issue of January 18, 2002.

And that the cost of publishing said notice is the sum of \$ 55.57 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 21st day of January 2002

Debbie Schilling

Debbie Schilling

Notary Public, Lea County, New Mexico

My Commission Expires June 22, 2002

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, 1220 South Saint Frances Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Sid Richardson Energy Services Co.-Jal, Operator, Randall Dunn, 610 Commerce, Jal, New Mexico 88252, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the SE/4 NW/4 Section 36, Township 23 South, Range 36 East, N.M.P.M., Lea County, New Mexico.

Hydrocarbon contaminated soils associated with oil and gas production operations will be remediated by spreading them on the ground surface in six (6) inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is estimated to be at a depth of 155 feet to 170 feet with a total dissolved solids concentration of 493 parts per million. The facility is underlain by Quaternary dune sands, alluvium and the Ogallala Formation. The Ogallala Formation rests unconformably upon Triassic and Cretaceous rocks. The permit application addresses the 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 or at or at the Hobbs District office at 1625 N. French Dr., Hobbs, New Mexico 88240 between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil

Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

Published in the Lovington Daily Leader January 18, 2002.

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

RECEIVED

FEB 05 2002

Environmental Bureau  
Oil Conservation Division

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 1 weeks.

Beginning with the issue dated January 20 2002

and ending with the issue dated January 20 2002

*Kathi Bearden*

Publisher

Sworn and subscribed to before

me this 21st day of

January 2002

*Jodi Benson*

Notary Public.

My Commission expires  
October 18, 2004  
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE  
January 20, 2002  
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, 1220 South Frances Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Sid Richardson Energy Services Co.--Jal, Operator, Randall Dunn, 610 Commerce, Jal, New Mexico 88252, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the SE/4 NW/4 Section 36, Township 23 South, Range 36 East, N.M.P.M., Lea County, New Mexico. Hydro carbon contaminated soils associated with oil and gas production operations will be remediated by spreading them on the ground surface in six (6) inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is estimated to be at a depth of 155 feet to 170 feet with a total dissolved solids concentration of 493 parts per million. The facility is underlain by Quarternary dune sands, alluvium and the Ogallala Formation. The Ogallala Formation rests unconformably upon Triassic and Cretaceous rocks. The permit application addresses the construction, operations, spill/leak prevention and monitoring procedures to be incorporated at the proposed site.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The application may be viewed at the above address or at the Hobbs District office at 1625 N. French Dr., Hobbs, New Mexico 88240 between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

#18689

02105407000      02552980  
Sid Richardson Energy Services  
201 Main Street, Suite 3000  
FORT WORTH, TX 76102



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

January 8, 2002

**Lori Wrotenberg**  
Director  
Oil Conservation Division

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. 7099-3220-0000-5051-2825**

Mr. Randall Dunn  
Sid Richardson Energy Services Co.-Jal  
610 Commerce  
Jal, NM 88252

**RE: Public Notice for Sid Richardson Energy Services Co. -Jal  
Centralized Surface Waste Management Facility Permit Application  
SE/4 NW/4 of Section 36, Township 23 South, Range 36 East, NMPM,  
Lea County, New Mexico**

Dear Mr. Dunn:

The New Mexico Oil Conservation Division (OCD) has received Sid Richardson Energy Services Co. -Jal (Sid Richardson) application for Rule 711 centralized surface waste management facility dated May 30, 2002. The application proposes to construct a landfarm soil remediation facility. The facility is to be located in the SE/4 NW/4 of Section 36, Township 23 South, Range 38 East, NMPM, Lea County, New Mexico.

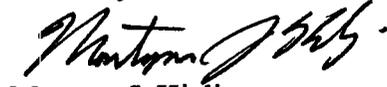
Based on the information provided with the application Form C-137 the OCD has prepared a public notice statement that Sid Richardson must published in the Lovington Daily Record newspaper. In addition, a notice shall be sent certified mail to all landowners within one mile of the proposed expansion area and the county commission where the facility is proposed to be located. Sid Richardson must send the original certified affidavit of publication from the Lovington Daily Record to the OCD Santa Fe office and a copy to the Hobbs District office. In addition, Sid Richardson must send copies of the postal receipt and signed certified return receipt from each of the landowners and county commission to both the OCD Santa Fe office and Hobbs District office.

The Santa Fe office has received the original application Form C-137 and attachments including the return receipt from one surface owner of record (Kelly Myers, Deep Wells Ranch). The OCD has not received proof (certified return receipt) of such notice to the New Mexico State Land Office or the county commission.

Mr. Randall Dunn  
January 8, 2002  
Page 2

If you have any questions please do not hesitate to contact me at (505) 476-3488.

Sincerely,



Martyne J. Kieling  
Environmental Geologist

attachments

xc with attachments: Hobbs OCD Office

**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, 1220 South Saint Frances Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

**Sid Richardson Energy Services Co.-Jal, Operator, Randall Dunn, 610 Commerce, Jal, New Mexico 88252, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the SE/4 NW/4 Section 36, Township 23 South, Range 36 East, N.M.P.M., Lea County, New Mexico. Hydrocarbon contaminated soils associated with oil and gas production operations will be remediated by spreading them on the ground surface in six (6) inch lifts or less and periodically disking them to enhance biodegradation of contaminants. Ground water most likely to be affected by any accidental discharges at the surface is estimated to be at a depth of 155 feet to 170 feet with a total dissolved solids concentration of 493 parts per million. The facility is underlain by Quaternary dune sands, alluvium and the Ogallala Formation. The Ogallala Formation rests unconformably upon Triassic and Cretaceous rocks. The permit application addresses the 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 or at or at the Hobbs District office at 1625 N. French Dr., Hobbs, New Mexico 88240 between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

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

## Kieling, Martyne

---

**From:** Kieling, Martyne  
**Sent:** Tuesday, January 08, 2002 8:12 AM  
**To:** Davidson, Florene; Valdes, Kathy  
**Subject:** Notices for the next Docket

Kathy,  
Here are two Rule 711 notices for the next Docket.



DOCKET.doc



DOCKET.doc

Sid Richardson      OK Hot Oil Service

Let me know if you have any questions.  
Thanks  
Martyne

## NOTICE

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, 1220 South Saint Frances Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

**Sid Richardson Energy Services Co.-Jal., Operator, Randall Dunn, 610 Commerce, Jal, New Mexico 88252, has submitted for approval an application to construct and operate a Rule 711 centralized landfarm soils remediation facility located in the SE/4 NW/4 Section 36, Township 23 South, Range 36 East, N.M.P.M., Lea County, New Mexico. Hydrocarbon contaminated soils associated with oil and gas production operations will be remediated by spreading them on the ground surface in 6 inch lifts or less and periodically disking them to enhance biodegradation of contaminants. 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 or at or at the Hobbs district office at 1625 N. French Drive, Hobbs, New Mexico between 8:00 a.m. and 4:00 p.m., Monday thru Friday. Prior to ruling on any proposed application, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which comments may be submitted and public hearing may be requested by any interested person. Request for public hearing shall set forth the reasons why a hearing shall be held. A hearing will be held if the director determines that there is significant public interest.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87504

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87504

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <i>Sid Richardson Energy Services</i>
2. Management Facility Destination <i>Proposed Sid Richardson Centralized Landform</i>	5. Originating Site <i>Bettis Site</i>
3. Address of Facility Operator <i>610 Commerce, Dal. NM 88252</i>	6. Transporter <i>Mercyman Construction</i>
7. Location of Material (Street Address or ULSTR) <i>Unit letter "I" Section 9 Township 22 South Range 3 West</i>	8. State <i>NM</i>
9. Circle One: <input checked="" type="radio"/> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Hydrocarbon contaminated soil from Sid Richardson natural gas leak.*

*Verbal approval from Wayne Price on 7-2-01.*

*Soil will be stockpiled at proposed landform pending approval of landform application.*

Estimated Volume 950 cy Known Volume (to be entered by the operator at the end of the haul) 960 cy

SIGNATURE *[Signature]* TITLE: *Field Manager* DATE: *7-5-01*  
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Randall Dunn* TELEPHONE NO. *505-395-2116*

*(This space for State Use)*

APPROVED BY: *[Signature]* TITLE: *Dist. Engineer* DATE: *7/16/01*  
 APPROVED BY: *[Signature]* TITLE: *Bureau Chief* DATE: *8/7/01*

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Erazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87504

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87504

Form C-138  
Revised March 17, 1999

Submit Original  
Plus 1 Copy  
to Appropriate  
District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <i>Sid Richardson Energy Services</i>
2. Management Facility Destination <i>Proposed Sid Richardson Centralized Landform</i>	5. Originating Site <i>Deck site</i>
3. Address of Facility Operator <i>610 Commerce Jul NM 80252</i>	6. Transporter <i>Morgan Construction</i>
7. Location of Material (Street Address or ULSTR) <i>Unit letter "M" Section 10 Township 21 South Range 37 East</i>	8. State <i>NM</i>
9. Circle One: <input checked="" type="radio"/> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Hydrocarbon contaminated soil from Sid Richardson  
natural gas leak.*

*Soil will be stockpiled at proposed landform  
pending approval of landform application.*

Estimated Volume 210 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE *[Signature]* TITLE: *Field Manager* DATE: *7-6-01*  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: *Randall Dwyer* TELEPHONE NO. *505-345-2116*

(This space for State Use) 899

APPROVED BY: <u><i>[Signature]</i></u>	TITLE: <u><i>District Supervisor</i></u>	DATE: <u><i>7/16/01</i></u>
APPROVED BY: <u><i>[Signature]</i></u>	TITLE: <u><i>Division Chief</i></u>	DATE: <u><i>8/7/01</i></u>

Sid Richardson File  
Permit NM-02-0019  
Issued on 3-18-02

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

MEMORANDUM OF MEETING OR CONVERSATION

Telephone  Personal Time \_\_\_\_\_ Date 7-5-01

Originating Party Kelly Meyers  
Deep Wells Ranch  
505-395-3149

Other Parties Marlyne Kieling  
OCD

Subject Sid Richardson Land Farm  
18 miles N. of Jal west side of Highway 18

Discussion Mr. Meyers Has the Surface lease at the  
site and is the landowner surrounding the Proposed  
facility.

He May Be Sending in a Protest letter

Conclusions or Agreements \_\_\_\_\_

Distribution copy to Hobbs

Signed Marlyne Kieling

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87504

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87504

Form C-137  
Revised March 17, 1999

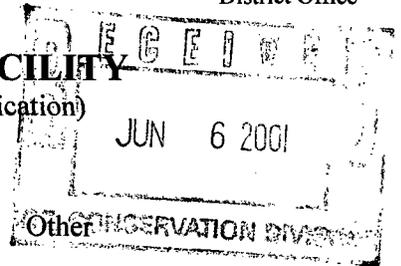
Submit Original Plus 1  
Copy to Santa Fe  
1 Copy Appropriate  
District Office

**APPLICATION FOR WASTE MANAGEMENT FACILITY**

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

Commercial  Centralized

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



ORIGINAL

2. Operator: Sid Richardson Energy Services Co.- Jal  
Address: 610 Commerce, Jal, NM 88252  
Contact Person: Randall Dunn Phone: 505-395-2116

3. Location: SE /4 NW /4 Section 36 Township 23S Range 36E  
Submit large scale topographic map showing exact location

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

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

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

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

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

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

10. Attach a closure plan.

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

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

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

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

15. CERTIFICATION

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

Name: Randall Dunn

Title: Lea County Field Manager

Signature: 

Date: 5-30-01

## Table of Contents

<b>Section</b>	<b>Page</b>
1.0 <b>Type of Operation</b>	<b>2</b>
2.0 <b>Operator</b>	<b>2</b>
3.0 <b>Location of landfarm</b>	<b>2</b>
4.0 <b>Expansion Request</b>	<b>2</b>
5.0 <b>Land and Ownership</b>	<b>2</b>
6.0 <b>Facility Description</b>	<b>3</b>
7.0 <b>Facility Construction</b>	<b>4</b>
A. <b>Facility Construction</b>	<b>4</b>
B. <b>Facility Operation</b>	<b>5</b>
C. <b>Characterization and Tracking of Wastes</b>	<b>6</b>
8.0 <b>Spill/Leak Prevention and Reporting</b>	<b>6</b>
9.0 <b>Inspection, Maintenance, and Reporting</b>	<b>6</b>
10.0 <b>Closure Plan</b>	<b>7</b>
11.0 <b>Site Characterization</b>	<b>7</b>
12.0 <b>Proof of Notice</b>	<b>8</b>
13.0 <b>H<sub>2</sub>S Contingency Plan</b>	<b>8</b>
14.0 <b>Additional Information</b>	<b>8</b>

## List of Figures

<b>Figure</b>	<b>Page</b>
Figure 1 <b>Location of Facility</b>	<b>9</b>
Figure 2 <b>Topography of Facility</b>	<b>10</b>
Figure 3 <b>Land Ownership</b>	<b>11</b>
Figure 4 <b>Site Drawing</b>	<b>12</b>
Figure 5 <b>Diagram for Well Log on Well # 16</b>	<b>13</b>

## List of Appendices

<b>Appendix</b>	<b>Page</b>
A <b>Flood Data</b>	<b>14-20</b>
B <b>C-O-C and Lab results for Background Soil Sample</b>	<b>21-25</b>
C <b>C-O-C and Lab results for TDS Sample</b>	<b>26-27</b>
D <b>Well Record from the Office of the State Engineer</b>	<b>28-29</b>
E <b>Pipeline Information</b>	<b>30</b>
F <b>Notification Letter and Receipt</b>	<b>31-32</b>

**1. Type of Operation**

This application is for a centralized soil remediation/landfarm facility, owned and operated by Sid Richardson Energy Services Co.- Jal.

**2. Operator**

Sid Richardson Energy Services Co. - Jal  
610 Commerce  
Jal, NM 88252

Contact: Randall Dunn  
Phone: 505-395-2116

**3. Location of Facility**

The proposed waste management facility (Site) will be located in the SE/4 of the NW/4 of section 36 in Township 23 South, Range 36 East, Lea County, New Mexico. Figure 1 and figure 2 are 7 ½ minute topographic maps showing the location and topography of the site respectively.

The site is located 9.6 miles northwest of Jal, New Mexico, and is accessed from the intersection of New Mexico State Highway 18 and Deep Wells Road, approximately 9.1 miles north of Jal. Drive .6 miles west on Deep Wells Road from Highway 18. Turn north and drive approximately .3 miles, then turn left and drive 1.0 miles to the site.

**4. Is this a modification of an existing facility.**

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

**5. Names and addresses of owner of facility and occupants and landowners of record within one mile.**

Owner of facility site:

Lea Partners  
Chase Bank Tower  
201 Main Street  
Fort Worth, TX 76102

Landowners of record within one mile.  
Figure 3 is a map showing land ownership.

Parcel:	Owner:	Address
Section 26 Township 23 South Range 36 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252
Section 25 Township 23 South Range 36 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252
Section 30 Township 23 South Range 37 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252
Section 35 Township 23 South Range 36 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252
Section 31 Township 23 South Range 37 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252
Section 2 Township 24 South Range 36 East	State of New Mexico	State land Office 2110 N. Alto Hobbs, NM 88240
Section 1 Township 24 South Range 36 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252
Section 6 Township 24 South Range 37 East	Kelly Myers Deep Wells Ranch	Star Route 1 P.O. Box 244 Jal, NM 88252

## **6. Facility Description**

The proposed waste management facility (Site) will be located in the SE/4 of the NW/4 of section 36 in township 23 South, Range 36 East, Lea County, New Mexico, and will be operated as a centralized soil remediation/landfarm facility. Figure 4 presents a drawing for the site.

There are no occupied or abandoned residence, public buildings or facilities at the Site. The nearest occupied residence is located approximately 1 mile west of the Site. One active water well and one abandoned water well are located in the Site. Three abandoned oil wells are located on the site. There are several underground pipelines crossing the Site and are shown on figure 4. A surface pipeline also crosses the Site and is shown on figure 4. Appendix E is a chart showing pipeline information.

The Site is not currently fenced, however, the entire Site will be fenced prior to operation, and access will be through a gated entrance that will be locked when an attendant is not present.

Only EPA exempted, non-hazardous oilfield contaminated soil will be accepted at the Site, which will be remediated using land farming techniques. Figure 4 shows the proposed arrangements of landfarm cells. There will be no office or storage buildings in the proposed landfarm area, nor will the site store any chemicals, other than that used to operate and maintain the facility equipment.

## **7. Facility Construction and Operation**

### **A. Facility Construction**

- 1) **Location:** The proposed waste management facility (Site) will be located in the SE/4 of the NW/4 of section 36 in township 23 South, Range 36 East, Lea County, New Mexico. A total of 15 cells are proposed for land farming at the facility. The cell size will be no more than 5 acres. Each cell will be bermed around the perimeter.
- 2) **Fences and Signs:** The site will be entirely fenced after permit approval and prior to operation. A sign will be posted at the entrance and will include the following: facility name, legal description, and emergency phone number.
- 3) **Facility Buffer Zone:** A minimum buffer zone of 100 feet will be maintained around all four sides of the landfarm cells.
- 4) **Pipeline Buffer Zone:** A minimum buffer zone of 20 feet will be maintained between landfarm cells and pipelines.
- 5) **Facility Berming:** Each landfarm cell will be bermed with soil available at the Site to prevent runoff and run-on. Annual rainfall for the area is reported to be less than 10 inches. However, the berms will be constructed with sufficient height to contain a 100-year flood event. According to data obtained from the City of Hobbs Engineering Department, a 100-year flood event of 6.0 inches has been reported for a 24 hour duration storm. Hence, berm height should be more than six inches. A minimum berm height of 24 inches will be maintained for each cell. Flood data obtained from the City of Hobbs Engineering Department is provided in Appendix A.
- 6) **Treatment Zone Monitoring:** A background soil sample was collected from a hand auger boring near the center of the Site on 4-16-01, and is noted on figure 4. The soil sample was collected at a depth of 2-3 feet below native ground surface, and submitted under chain-of-custody control to the Environmental Lab of Texas in Odessa, Texas. Analysis included total petroleum hydrocarbons (TPH), major cations, and anions, volatile aromatic organics (BTEX), and heavy metals using EPA approved methods. Appendix B presents a copy of the chain-of-custody and lab results.

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

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

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

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

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

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

1. Disposal of waste will occur only under the supervision of an attendant on Duty. The facility will be secured when no attendant is present.
2. All contaminated soils received at the facility will be spread and disked within 72 hours of receipt.
3. Soils will be spread on the surface in 6 to 12 inch lifts.
4. Soils will be disked every two weeks to enhance biodegradation of contaminants.
5. There will be no mixing of exempt and non-exempt soils.
6. A new layer of contaminated soil will not be spread over an existing layer until the TPH is less than 100mg/kg and the sum of all aromatic hydrocarbons (BTEX) is less than 50 mg/kg and benzene is less than 10 mg/kg in the existing layer. Laboratory analysis and a sampling record will be maintained at the facility. Authorization from the OCD will be obtained prior to application of successive lifts.
7. Moisture will only be added to enhance bioremediation or to control dust when necessary. Any ponding of precipitation water will be removed within 72 hours of discovery.
8. Enhanced bio-remediation through addition of microbes or fertilizers will not be practiced at this landfarm.
9. No free liquids or soils with free liquids will be accepted at the facility
10. Comprehensive records of all material placed at the facility will be maintained. The records for each load will include: 1) generator name, 2) the origin (location), 3) date received, 4) quantity, 5) certification of exempt status or analysis for hazardous constituents of non-exempt, 6) exact cell number/location where soil was placed and any addition of moisture, etc.

### **C. Characterization and Tracking of Wastes**

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

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

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

### **8. Spill/Leak Prevention & Reporting**

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

### **9. Inspection, Maintenance & Reporting**

Berms, fences, and the remediation area will inspected frequently. Any repairs or general maintenance will be performed immediately. Inspection records including date, kinds of inspections, and type of repairs made will be maintained. A berm height of 2 feet will be maintained all around the cells at all times to prevent run-off and run-on. Berms and cells will be inspected after any significant rainfall or windstorms. During dry and windy months, water will be periodically added to the soil in the cell to prevent blowing dirt.

The waste material transported by truck will not be accepted without proper documentation. The procedure discussed in Characterization and Tracking of Wastes, above will be followed before transporter delivery is accepted. Contaminated soils received at the facility will be spread and disked within 72 hours of receipt. Soils will be spread on the surface in 6-12 inch lifts and disked every two weeks to enhance the remediation of contaminants. Once the soil is laid over a cell, periodic sampling of the cell material will be performed to monitor the remediation process. This periodic sampling of the cell material will consist of collecting one composite sample from each cell for TPH and BTEX. Enhancing cell remediation by addition of moisture will be considered depending on the remediation progress. Additional lifts of soils will not be spread until laboratory tests of previous lifts are below the OCD recommended levels. The OCD recommended remediation levels are 100mg/kg for TPH and 50 mg/kg for total BTEX and 10mg/kg for benzene. Records of sampling results and location will be forwarded to the OCD and approval to add new lifts will be requested. If tank bottoms or miscellaneous hydrocarbons are to be remediated at the proposed landfarm form C117-A will be filed.

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

#### **10. Closure plan**

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

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

#### **11. Site Characterization**

##### **Setting:**

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

Annual average precipitation over the site is reported to be between 9 and 10 inches. There are no major surface drainage features within the close vicinity of the site. The ground surface slopes very gently to the northeast. The native ground elevation varies from about 3337 feet above mean sea level (MSL) near the southwest corner of the site to about 3327 above MSL near the northeast corner of the site.

##### **Soils:**

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

A drillers log from well number 16 drilled by El Paso Natural Gas, now owned by Sid Richardson, in the NW ¼ of the NE ¼ of the NW ¼ of section 36, Township 23 south and Range 36 east shows a layer of caliche and sand to a depth of 3 feet. From 3 to 15 feet, is a layer of caliche and sandstone. Sandy caliche is found from 15 to 42 feet. At 42 to 47 feet is limestone. From 47 to 78 feet is sand and sandy shale. At 78 feet is a combination of sandstone and limestone with sandy streaks. This is found down to a depth of 95 feet. From 95 feet to 135 feet is sand and sandy shale. From 135 to 155 feet is sand and sandy limestone, which was beginning to be damp. Water was encountered at 155 to 170 in a layer of soft sand. In layer of hard sand from 170 to

230 water was also encountered. At 230 feet to 252 feet, another layer of water bearing soft sand is found. The red bed and red shale are found from 252 to 260 feet. Appendix A is a copy of the well report from The Office of the State Engineer. Figure 5 is a diagram of the well log.

#### Hydrology:

Groundwater in the vicinity of the study area is obtained from the Dockum group, Ogallala formation and Quaternary age alluvium. In some parts of southern Lea County the Ogallala forms a continuous water table aquifer. There are two water wells located in the landfarm site. They are well used by Sid Richardson for use in their #4 Gas Plant. These wells will be separated from all cells by berms of at least two feet in height.

Sediments of Quaternary age can be observed in Lea County in the form of alluvial deposits, probably of both Pleistocene and Recent age, and dune sands of recent age. The alluvium seems to have been deposited in topographically low areas where the Ogallala formation had been stripped away. The dune sands mantle the older alluvium and the Ogallala formation over most of the area. At the surface it is generally calcareous silt, probably derived from reworked caliche.

The Ogallala formation consists chiefly of sediments deposited by streams that had their headwaters in the mountainous regions to the west and northwest. The Ogallala formation rests unconformably upon an erosional surface of the underlying Triassic and Cretaceous rocks. The Ogallala is made of beds and lenses of clay, silt, sand and gravel. Caliche occurs as a secondary deposit in many places over the Ogallala formation. Altitude of the water table in Ogallala is reported at 3100 feet above MSL at the proposed landfarm site. The water table slopes southeastward.

Uncontaminated water from the Ogallala formation is high in silica (49 to 73 ppm), and contains moderate concentrations of calcium and magnesium. The dissolved solids content is relatively low, being typically less than 1100 ppm. Groundwater from a well now owned by Sid Richardson in the west end of the site was collected and tested to determine the TDS content. The TDS of this sample was 493 mg/L. Appendix C is a copy of the C-O-C and the Lab Results.

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

#### **12. Proof of Notice**

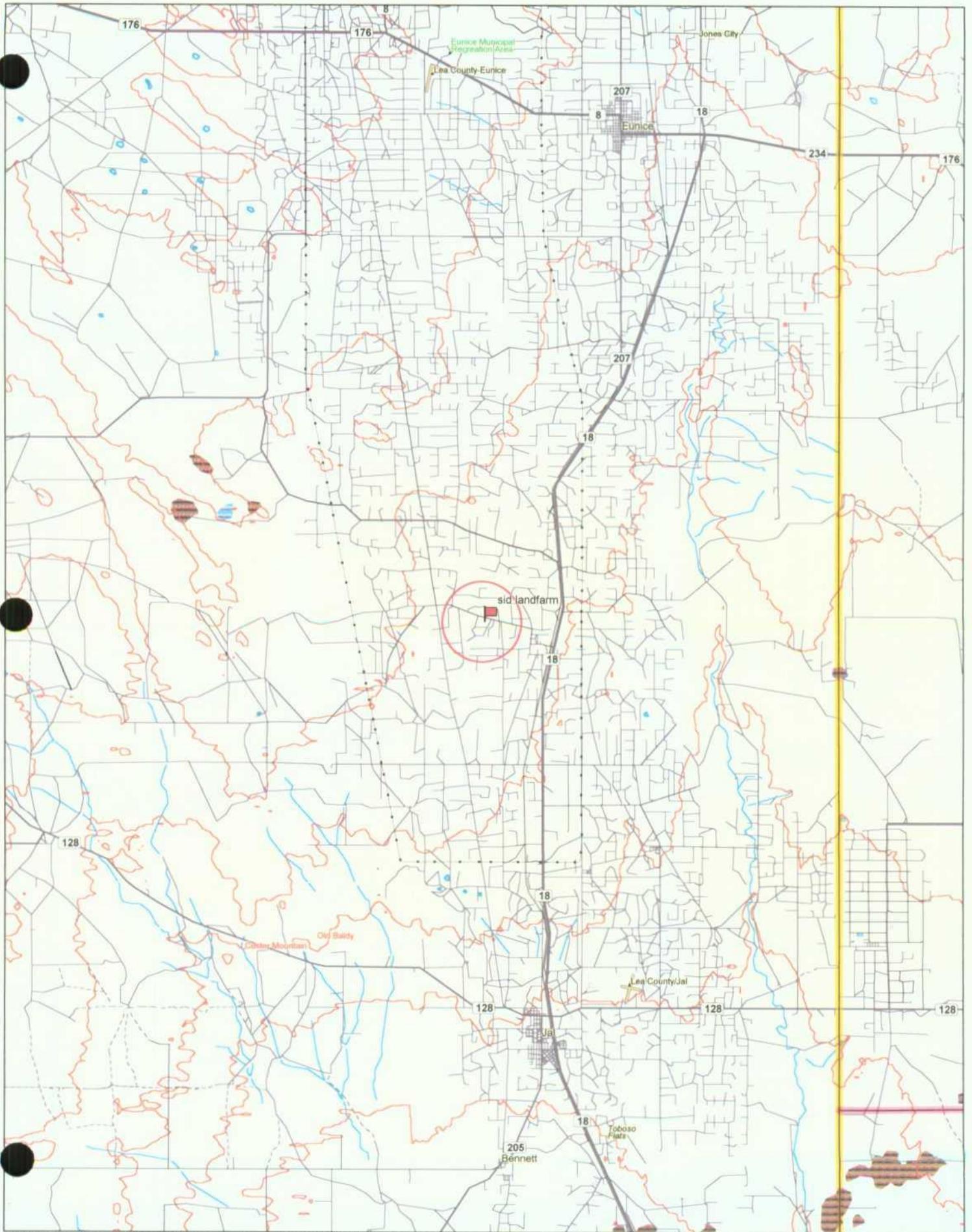
A certified letter was sent to Kelly Myers of the Deep Wells Ranch. This is the only landowner or occupant within 1 mile of the site. Appendix F is a copy of the letter followed by a receipt of the letter

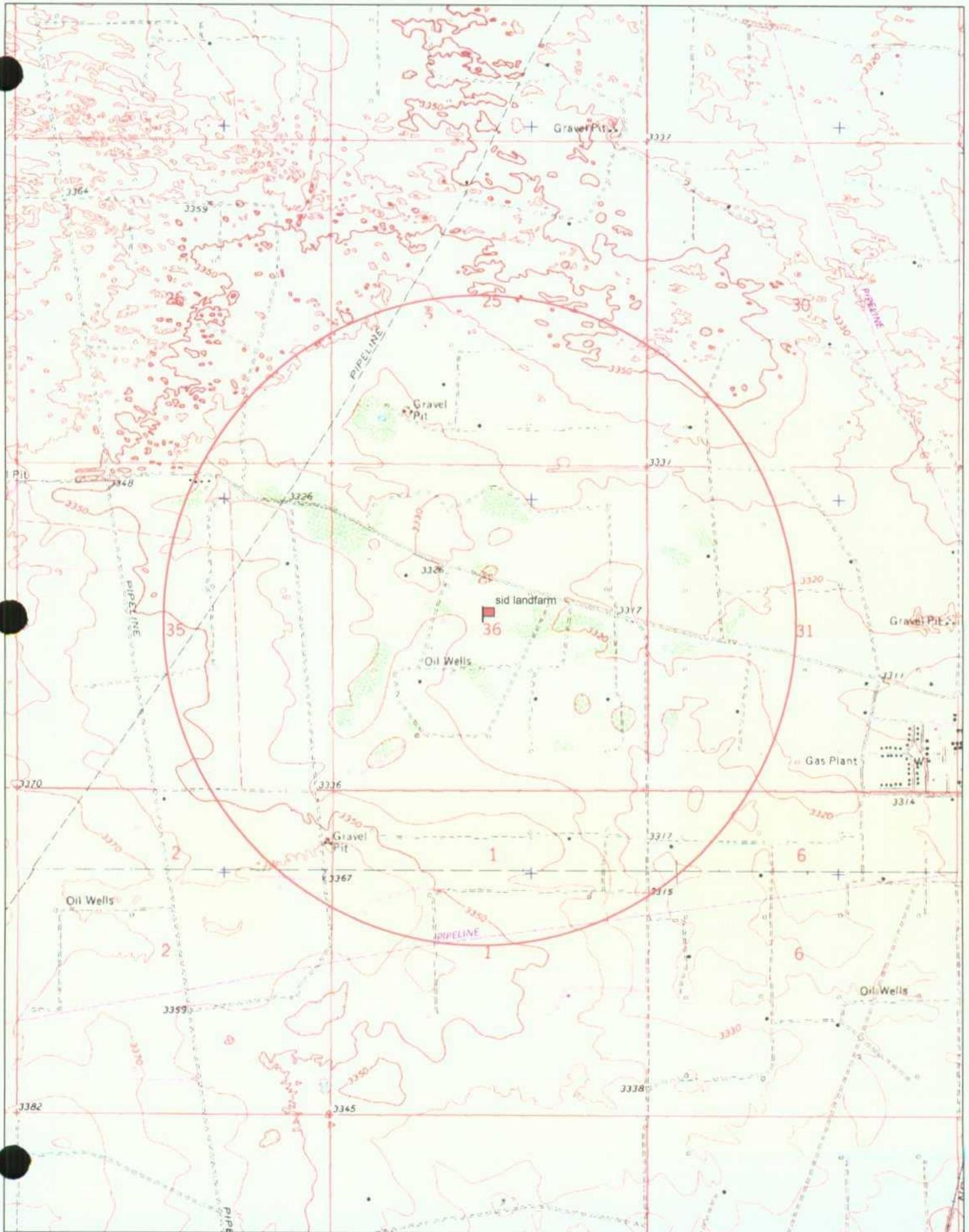
#### **13. H<sub>2</sub>S contingency plan.**

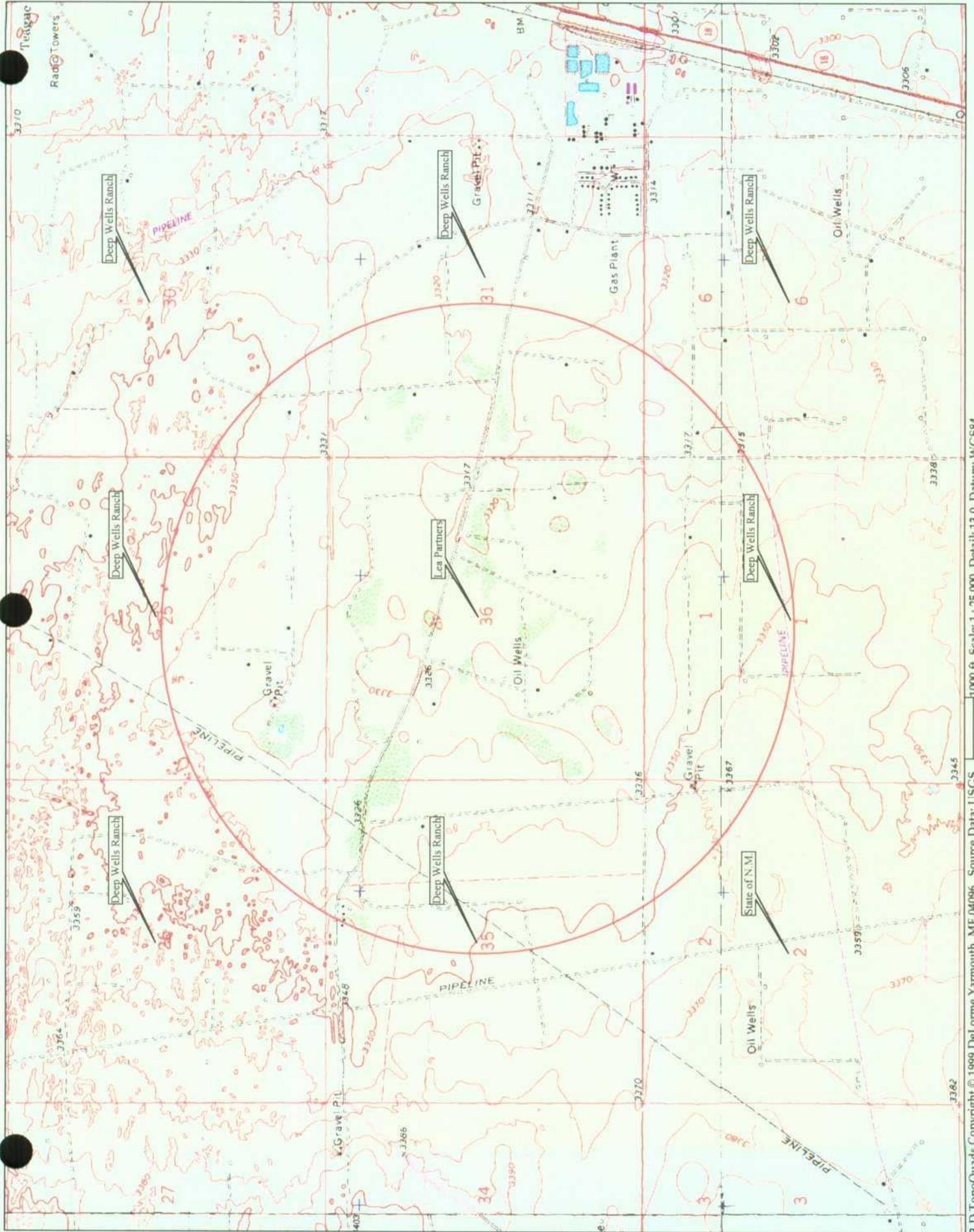
The H<sub>2</sub>S contingency plan is not applicable, as H<sub>2</sub>S is not generated at the landfarm facility.

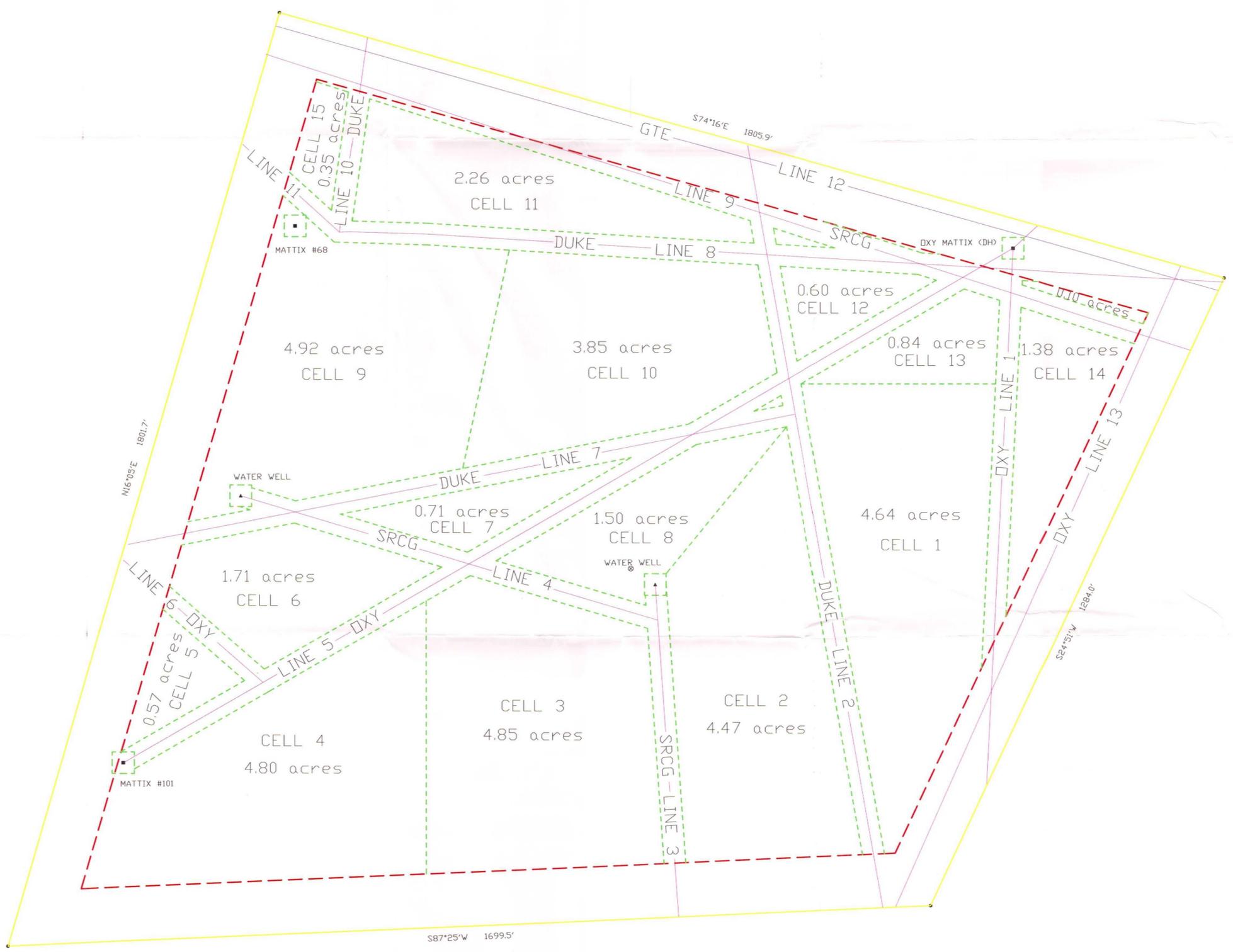
#### **14. Other info pertaining to OCD compliance.**

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









**LEGEND**

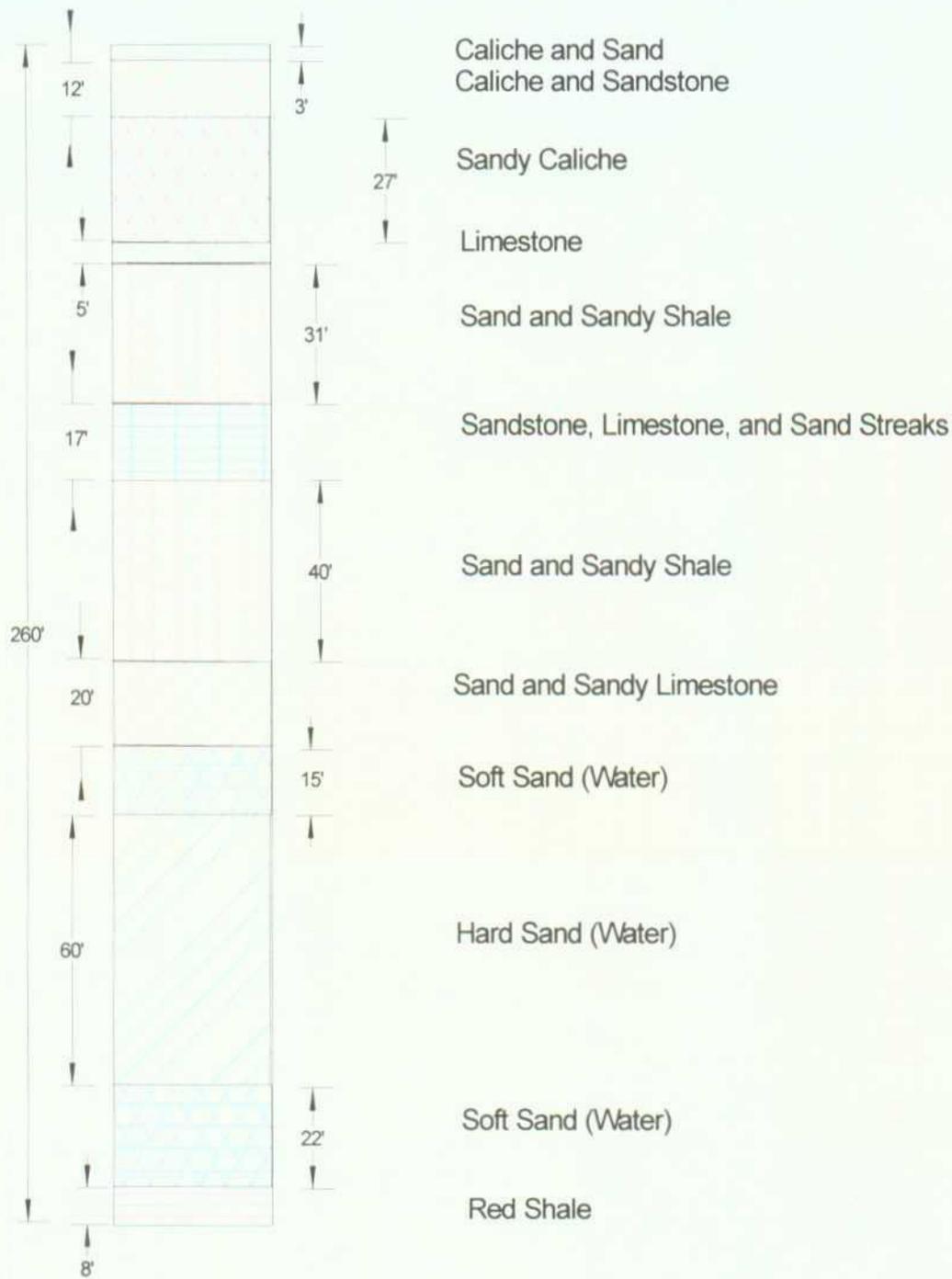
- DENOTES PIPELINE
- DENOTES 20' PIPELINE BUFFER
- DENOTES 100' PROPERTY BUFFER
- DENOTES GTE TELEPHONE CABLE
- DENOTES SRCG WATER WELL
- DENOTES DXY WELL
- DENOTES BACKGROUND SAMPLE

100 0 100 200 FEET  
Scale: 1"=100'

**MERRYMAN CONSTRUCTION CO.**

LAND FARM IN SECTION 36,  
TOWNSHIP 23 EAST,  
RANGE 36 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO

Surveyed By: HARPER	Drawn By: D.COLLINS	Last Rev.:	Drawing Number <b>E-3060</b>
Date Begin: 4/7/01	Date: 4/27/01	Disk:	
Date End:	Approved By:	Sheet 1 of 1	
Proj #: 01-11-0408	Filename: MERRY0408	Scale: 1"=100'	



Approximate  
Scale 1" = 40'

NW/4  
NE/4  
NW/4  
Section 36  
Twms.-23 S  
Range 36E  
County-Lea, N.M.

<b>MCC</b>	Well Log SRCG #16	01026
	Sid Richardson Gasoline Company	Figure 5

City of Hobbs Engineer's Office

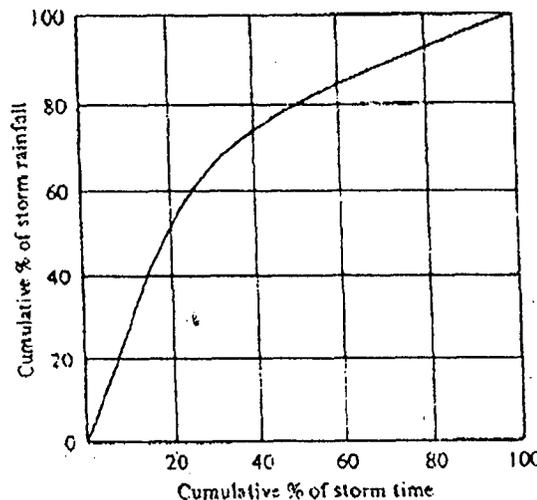
Based on discussions with the City of Hobbs, it was determined that the runoff associated with the 5-, 25-, and 100-year frequency storm events under both the 6-hour and 24-hour durations would be analyzed.

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

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

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

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



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

Figure III-1

NMERDI 2-72-4523

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

*Principal Investigators:*  
W. Scott Morris  
Keith W. Haggard

*Contributors:*  
Raymond J. Bahm  
Earl K. Fosdick  
Loren W. Crow

November 1985

**New Mexico Energy Research and Development Institute**

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

## SECTION II: DESCRIPTION OF PRECIPITATION DATA

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

### TOTAL PRECIPITATION - MEAN

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

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

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

**TOTAL PRECIPITATION - HIGH**

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

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

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

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

**TOTAL PRECIPITATION - 24-HR MAX**

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

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

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

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

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

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

#### TOTAL SNOWFALL - MEAN

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

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

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

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

TABLE 34 CLIMATE DATA SUMMARY

FOR JAL

LATITUDE: 32° 06'  
 LONGITUDE: 103° 12'  
 ELEVATION: 3060 ft.

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

PRECIPITATION

MONTH	TOTAL PRECIPITATION (INCHES WATER)			TOTAL SNOWFALL (INCHES)	
	MEAN	HIGH	24-HR MAX	MEAN	HIGH
JAN	0.45	3.30	0.95	2	12
FEB	0.39	2.13	0.78	1	7
MAR	0.37	1.76	1.08	1	6
APR	0.67	3.15	2.20	0	0
MAY	1.34	3.21	2.47	0	0
JUN	1.22	3.45	2.21	0	0
JUL	1.62	5.73	2.09	0	0
AUG	1.81	6.06	3.99	0	0
SEP	1.93	7.64	4.00	0	0
OCT	1.22	6.90	5.64	0	0
NOV	0.41	3.30	0.84	1	16
DEC	0.38	2.12	0.54	1	8
ANN	11.86	21.00	3.64	5	17

TEMPERATURE (°F)

MONTH	LONG-TERM AVERAGES			STANDARD DEVIATION OF MEANS	HEATING	HEATING	COOLING	COOLING	ALL-TIME EXTREMES		MONTHLY MEAN EXTREMES	
	MAX	MIN	MEAN		DEG.-DAYS (base 57°F)	DEG.-DAYS (base 65°F)	DEG.-DAYS (base 70°F)	DEG.-DAYS (base 75°F)	HIGH	LOW	HIGH	LOW
JAN	60	28	44	3.45	411	652	0	0	85	-11	52	35
FEB	66	32	49	3.40	243	451	0	0	89	-6	56	43
MAR	73	38	56	3.41	129	298	6	0	98	10	62	49
APR	82	48	65	2.84	13	89	29	7	102	22	70	58
MAY	89	56	73	2.08	0	5	122	40	107	34	78	69
JUN	97	65	81	2.07	0	0	331	189	112	40	86	76
JUL	97	68	83	2.39	0	0	404	256	112	50	86	78
AUG	96	66	81	2.15	0	0	343	197	110	50	85	77
SEP	89	60	75	2.49	0	0	171	78	108	38	80	67
OCT	81	48	65	2.63	11	86	25	6	100	23	69	59
NOV	69	36	52	3.31	191	396	0	0	88	8	61	46
DEC	62	29	46	2.77	346	589	0	0	84	3	51	40
ANN	80	68	64		1344	2566	1432	773	112	-11	65	62

SUMMER DESIGN TEMPERATURES

DESIGN DRY BULB (°F)			DAILY TEMPERATURE RANGE	DESIGN WET BULB (°F)			MEDIAN SUMMER WET BULB
0.15	0.55	2.05		0.15	0.55	2.05	
105	102	99	29	74	72	71	67

WINTER DESIGN TEMPERATURES

MEDIAN OF ANNUAL EXTREMES	DESIGN DRY BULB		COINCIDENT WIND SPEED
	0.25	0.65	
8	13	17	L

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

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



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

MERRYMAN CONSTRUCTION  
ATTN: MR. JOHN SAVOIE  
P.O. BOX 1030  
JAL, N.M. 88252  
FAX: 505-395-3476

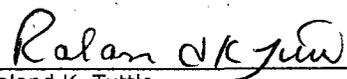
Sample Type: Soil  
Sample Condition: Intact/ Iced/ 1.5 deg C  
Project #: 01026  
Project Name: Sid Richardson Landfarm  
Project Location: Lea County

Sampling Date: None Given  
Receiving Date: 04/16/01  
Analysis Date: BTEX 04/16/01  
Analysis Date: TPH 04/17/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	TPH mg/kg
39226	Landfarm Background	<0.025	<0.025	<0.025	<0.025	<0.025	134

%IA	96	102	104	104	105	95
%EA	98	103	107	108	109	101
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025	<10

METHODS: EPA SW 846-8021B ,5030, EPA 418.1

  
Raland K. Tuttle

4-23-01  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

MERRYMAN CONSTRUCTION COMPANY  
ATTN: MR. JOHN SAVOIE  
P.O. BOX 1030  
JAL, N.M. 88252  
FAX: 505-395-3476

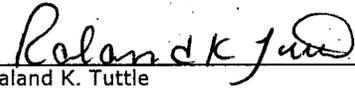
Sample Type: Soil  
Sample Condition: Intact/ Iced/ 1.5 deg. C  
Project #: 01026  
Project Name: Sid Richardson Landfarm  
Project Location: Lea County

Sampling Date: None Given  
Receiving Date: 04/16/01  
Analysis Date: 04/18/01

ELT#	FIELD CODE	Na mg/kg	Ca mg/kg	Mg mg/kg	K mg/kg
39226	Landfarm Background	14.44	73.54	8.540	11.24

% INSTRUMENT ACCURACY	91	102	102	105
% EXTRACTION ACCURACY	84	100	108	84
BLANK	<0.01	<0.01	<0.01	<0.05

METHODS: SW846-6010B

  
Roland K. Tuttle

4-23-01  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

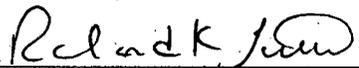
MERRYMAN CONSTRUCTION COMPANY  
ATTN: MR. JOHN SAVOIE  
P.O. BOX 1030  
JAL, N.M. 88252  
FAX: 505-395-3476

Sample Type: Soil  
Sample Condition: Intact/ Iced/ 1.5 deg C  
Project #: 01026  
Project Name: Sid Richardson Landfarm  
Project Location: Lea County

Sampling Date: None Given  
Receiving Date: 04/16/01  
Analysis Date: See Below

ELT#	FIELD CODE	Carbonate mg/kg	Bicarbonate mg/kg	Sulfate mg/kg	Chloride mg/kg
39226	Landfarm Background	<1.0	140	35.2	<10
	QUALITY CONTROL	*	*	52.6	5052
	TRUE VALUE	*	*	50.0	5000
	% IA	*	*	105	101
	BLANK	<0.5	<5	<0.5	<10
	ANALYSIS DATE	4/18/01	4/18/01	4/18/01	4/17/01

METHODS: SW 846-9038, 9253, EPA 310.1

  
Raland K. Tuttle

4-23-01  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

MERRYMAN CONSTRUCTION COMPANY  
ATTN: MR. JOHN SAVOIE  
P.O. BOX 1030  
JAL, N.M. 88252  
FAX: 505-395-3476

Sample Type: Soil  
Sample Condition: Intact/ Iced/ 1.5 deg. C  
Project #: 01026  
Project Name: Sid Richardson Landfarm  
Project Location: Lea County

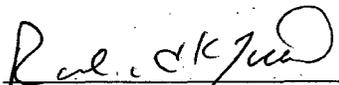
Sampling Date: None Given  
Receiving Date: 04/16/01  
Analysis Date: 04/20/01  
Analysis Date: Hg 04/19/01

ELT#	Field Code	TOTAL METALS (mg/kg)							
		Ag	As	Ba	Cd	Cr	Hg	Pb	Se
39226	Landfarm Background	ND	0.9230	47.92	0.3605	4.210	ND	ND	1.959

REPORT LIMIT	0.100	0.400	0.050	0.050	0.100	0.100	0.550	0.200
% IA	97	104	103	105	106	105	103	103
% EA	114	101	101	101	104	104	103	101
BLANK	<0.100	<0.400	<0.050	<0.050	<0.100	<0.100	<0.550	<0.200

METHODS: EPA SW 846-3050, 7470, 6010B

ND=Not detected @ report limit.

  
Raland K. Tuttle

4-23-01  
Date



# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

MERRYMAN CONSTRUCTION  
ATTN: MR. JOHN SAVOIE  
P.O. BOX 1030  
JAL, N.M. 88252  
FAX: 505-395-3476

Sample Type: Water  
Sample Condition: Intact/Iced/ 3.5 deg C  
Project #: 01026  
Project Name: Centralized Landfarm  
Project Location: Jal #4 Plant

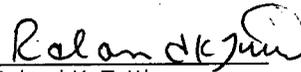
Sampling Date: 03/30/01  
Receiving Date: 03/30/01  
Analysis Date: 04/02/01

ELT#	FIELD CODE	TDS mg/L
38690	#12	493

RPD  
BLANK

3  
<10

Methods: EPA 160.1

  
Raland K. Tuttle

4-4-01  
Date

**STATE ENGINEER OFFICE  
WELL RECORD**

FIELD ENGR. LOG

**Section 1. GENERAL INFORMATION**

(A) Owner of well El Paso Natural Gas Company Owner's Well No. 16  
 Street or Post Office Address P. O. Box 1492  
 City and State El Paso, Texas 79978

Well was drilled under Permit No. CP-634 and is located in the:  
 a. NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  of Section 36 Township 23S Range 36E N.M.P.M.  
 b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_  
 c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
 Subdivision, recorded in \_\_\_\_\_ County.  
 d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
 the \_\_\_\_\_ Grant.

(B) Drilling Contractor Spruill Bros. Drilling Co. License No. WD 803  
 Address Box 6129, Odessa, Texas 79762

Drilling Began June 8, 1981 Completed June 15, 1981 Type tools Rotary Size of hole 17 $\frac{1}{2}$  in.  
 Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 260 ft.  
 Completed well is  shallow  artesian. Depth to water upon completion of well 125 ft.

**Section 2. PRINCIPAL WATER-BEARING STRATA**

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
130	260	130	Sand	80

**Section 3. RECORD OF CASING**

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
10-3/4	40.48		+2 Ft.	160	162		0	0
10-3/4	40.48	Screen	160 Ft.	260	100		160	260

**Section 4. RECORD OF MUDDING AND CEMENTING**

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	40	17 $\frac{1}{2}$		100	Gravity

**Section 5. PLUGGING RECORD**

Plugging Contractor \_\_\_\_\_  
 Address \_\_\_\_\_  
 Plugging Method \_\_\_\_\_  
 Date Well Plugged \_\_\_\_\_  
 Plugging approved by: \_\_\_\_\_  
 State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

**FOR USE OF STATE ENGINEER ONLY**

Date Received August 5, 1981 Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_  
 File No. CP-634 Exploratory Use SUPP. Location No. 23.36.36.12141  
 retained as supplemental well CP-37-Combined-S-5



Pipeline Information

Pipeline #	Owner	Contents	Depth	Size
1	OXY	Water	4'	2"
2	DUKE	Natural Gas	3'	20"
3	SRCG	Water	3'	6"
4	SRCG	Water	3'	4"
5	OXY	Water	4'	2"
6	OXY	Water	4'	2"
7	DUKE	Natural Gas	3'	4"
8	DUKE	Natural Gas	4'	6"
9	SRCG	Water	3'	6"
10	DUKE	Natural Gas	3'	4"
11	DUKE	Natural Gas	3'	4"
12	GTE	Telephone Cable	5'	N/A
13	OXY	Oil and Water	Surface	3"

May 7, 2001

Sid Richardson Energy Services  
P.O. Box 1226  
Jal, NM 88252

Kelly Myers  
Deep Wells Ranch  
Star Route 1  
P.O. Box 244  
Jal, NM 88252

Re: Sid Richardson Centralized Landfarm  
Section 36, Township 23 South, Range 36E  
Lea County, New Mexico

Dear Mr. Myers:

This letter is notification of Sid Richardson Energy Service's intent to permit a centralized landfarm in Section 36, Township 23 South, Range 36 East. Any concerns pertaining to this landfarm should be directed to the following address:

Oil Conservation Division  
1220 South St, Francis Dr.  
Santa Fe, NM 87504

Respectfully,



Randall Dunn  
Lea County Field Manager