

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

|   |  |
|---|--|
| Name of Company: Rice Operating Company | Contact:                                   |
| Address: 122 West Taylor                | Telephone No.: 505-393-9174                |
| Facility Name: BD                       | Facility Type: Salt Water Gathering System |

|                           |                |            |
|---------------------------|----------------|------------|
| Surface Owner: Tom Kennan | Mineral Owner: | Lease No.: |
|---------------------------|----------------|------------|

**LOCATION OF RELEASE**

|                  |               |                 |              |               |                  |               |                |               |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|---------------|
| Unit Letter<br>G | Section<br>30 | Township<br>21S | Range<br>37E | Feet from the | North/South Line | Feet from the | East/West Line | County<br>Lea |
|------------------|---------------|-----------------|--------------|---------------|------------------|---------------|----------------|---------------|

Latitude: 32°27.176N Longitude: 103°12.974W

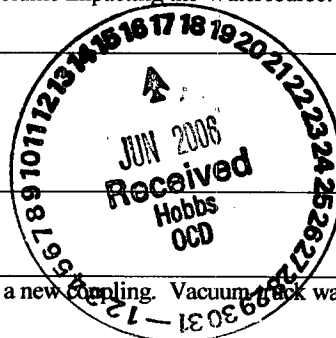
**NATURE OF RELEASE**

|  |   |   |
|--|---|---|
| Type of Release: Produced water with Oil   | Volume of Release: 520 barrels            | Volume Recovered: 360 barrels                   |
| Source of Release: pipeline  | Date and Hour of Occurrence:<br>N/A       | Date and Hour of Discovery:<br>5/25/06 11:30 am |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Pat Caperton             |   |
| By Whom? Jennifer Johnson  | Date and Hour: 5/26/05 7:50 am            |   |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse: |   |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* 6" PVC cracked.

Describe Area Affected and Cleanup Action Taken.\* Replaced with new 6" PVC and a new coupling. Vacuum truck was used to remove produced water from site.



I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|   |                         |                                  |                                   |
|---|-------------------------|----------------------------------|-----------------------------------|
| Signature: <i>Jennifer Johnson</i>        |                         | <b>OIL CONSERVATION DIVISION</b> |                                   |
| Printed Name: Jennifer Johnson            |                         | Approved by District Supervisor: |                                   |
| Title: Environmental and Field Technician | Approval Date:          | Expiration Date:                 |                                   |
| E-mail Address: jjohnson@riceswd.com      | Conditions of Approval: |                                  | Attached <input type="checkbox"/> |
| Date: 6/15/06                             | Phone: 505-393-9174     |                                  |                                   |

\* Attach Additional Sheets If Necessary

Facility - PPAC0616735311  
Incident - PPAC0616735414  
Application - PPAC0616735548  
RP# 928

June 15, 2006

Mr. Paul Sheeley  
New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division  
1625 N. French Drive  
Hobbs, New Mexico

**RE: INVESTIGATION & CHARACTERIZATION PLAN  
BD G-30 ACCIDENTAL DISCHARGE SITE  
UL/G SEC 30 T21S R37E**

Mr. Sheeley:

Rice Operating Company (ROC) discovered an accidental discharge on the above mentioned site on May 25, 2006. A 6 inch PVC pipeline cracked thus releasing 520 barrels of which 360 barrels were recovered. The 6 inch PVC pipeline was replaced with 20 feet of new PVC as a permanent repair. Regional groundwater information indicates the depth to groundwater is approximately 117 ft bgs. The surface area affected by this release was approximately 7,419 sq ft.

For all environmental projects, ROC will choose a path forward that:

- protects public health,
- provides the greatest net environmental benefit,
- complies with NMOCD Rules, and
- is supported by good science.

Each site shall have three submissions or a combination of:

1. This Investigation and Characterization Plan (ICP) is a proposal for data gathering and site characterization and assessment. Highly impacted topsoil will be removed from the surface at this time and disposed of at a permitted facility.
2. Upon evaluating the data and results from the ICP, a recommended remedy will be submitted in a Corrective Action Plan (CAP). ROC will request concurrence or conditions from NMOCD with this submission.
3. Finally, after implementing the remedy, a closure report with final documentation will be submitted. This will include the C-141 (final) form. ROC will request concurrence or conditions from NMOCD with this submission.

ROC herein submits the enclosed ICP to address potential environmental concerns at the above-referenced site. ROC is the service provider (operator) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

NMOCD will be notified 48 hours in advance of any significant work. Thank you for your consideration concerning this matter.

Rice Operating Company

Jennifer Johnson  
Environmental Technician

Cc: KFP, file

✓  
Enclosed: ICP, site map, driving directions, Initial C-141

# **INVESTIGATION AND CHARACTERIZATION PLAN**

## **BD G-30 ACCIDENTAL DISCHARGE**

### **UL/G SEC 30 T21S R37E**

#### ***Background and Previous Work***

Rice Operating Company (ROC) discovered an accidental discharge on the above mentioned site on May 25, 2006. A 6 inch PVC pipeline cracked thus releasing 520 barrels of which 360 barrels were recovered. The 6 inch PVC pipeline was replaced with new 20 feet of new PVC as a permanent repair. Regional groundwater information indicates the depth to groundwater is approximately 117 ft bgs. The surface area affected by this release was approximately 7,419 sq ft.

#### **Work Elements**

- Impacted topsoil not to exceed 4 inches of depth over entire 7419 sq ft will be removed and disposed of at an approved facility.
- A water well inventory will be performed to encompass a half mile radius around the release site. The inventory will include a review of water well records on the New Mexico Office of the State Engineer W.A.T.E.R.S. database and United States Geologic Survey (USGS) website. Any water wells denoted on the USGS 7.5 minute topographic quadrangle map within the search radius will be inspected. If viable wells are located, they will be evaluated for the possible water level measurements and groundwater monitoring.
- Produced water samples were collected from the pipeline where the release occurred.
- Perimeter and area of the affected surface will be defined using stakes and flagging. Perimeter samples will be taken to define the lateral extent of impact. Vertical delineation will also be conducted. These delineation activities may be performed with the following equipment but not limited to a hand auger, backhoe, and soil boring.
- ROC will employ chloride field tests and PID screenings to monitor constituents of concern on the soil samples that will be collected at regular intervals.
- Appropriate and strategic samples will be submitted for laboratory analysis as confirmation of field tests.
- NMOCD will be notified of any significant activities 48 hours in advance.
- Delineation results from this release site will be used to form an appropriate site specific remedy and will be submitted in a Corrective Action Plan (CAP).

Following completion of the ICP, a CAP that details the site results of this ICP and includes the remedy recommendation will be submitted for NMOCD approval. ROC generally selects the remedy that offers the greatest environmental benefit while causing the least environmental impairment. When evaluating any proposed remedy or investigative work, ROC will confirm that there is a reasonable relationship between the benefits created by the proposed remedy or assessment and the economic and social costs.

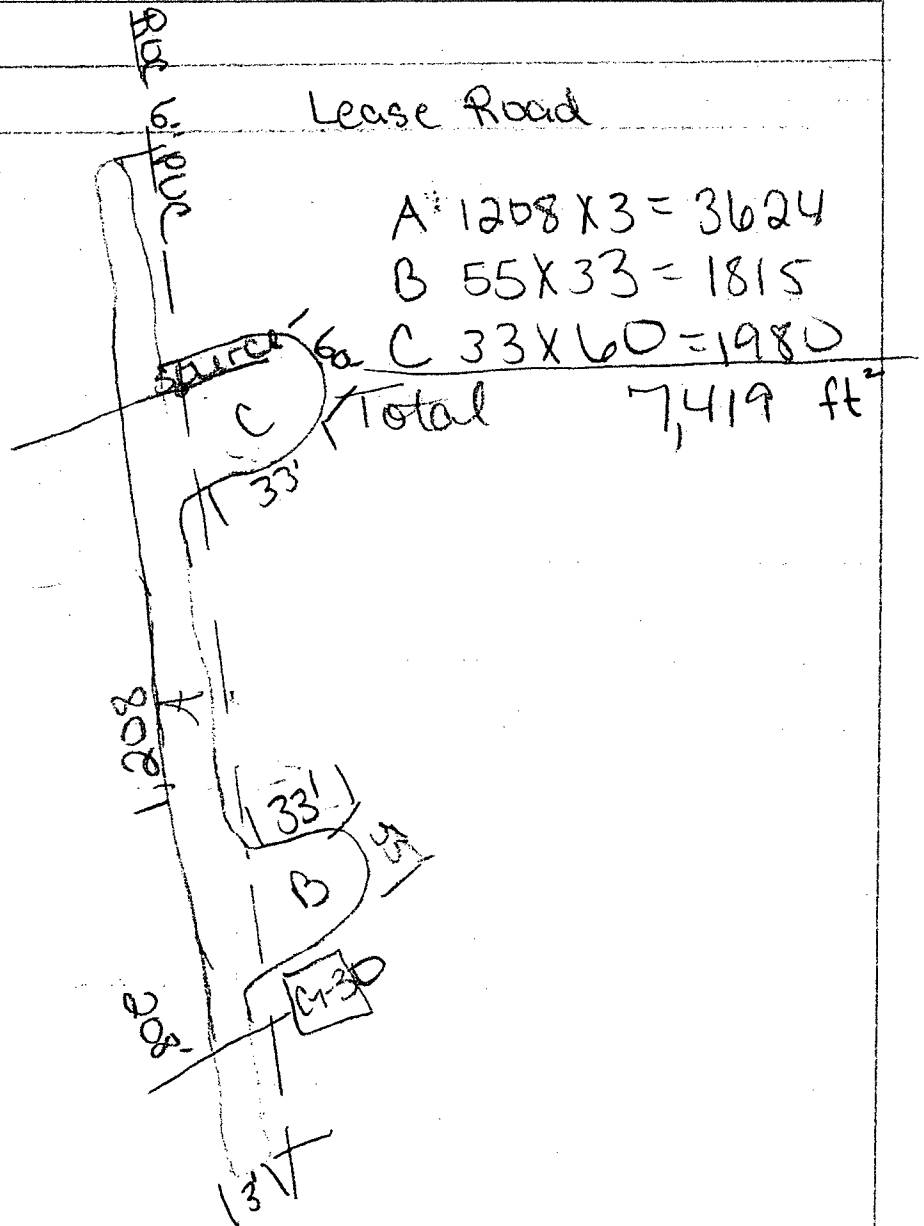
# **BD G-30 DRIVING DIRECTIONS**

GPS  
32\*27.194N  
103\*11.954W

FROM HWY 8 AND LEGION ROAD IN EUNICE GO WEST ON HWY 8 1 MILE  
TURN NORTH THROUGH CATTLE GUARD GO .6 TENTHS ROAD Y'S AT  
PUMP JACK LOCATION GO NORTH WEST TOWARDS CHEVRON BATTERY.  
ROAD Y'S GO NORTH .1 TENTH ROAD T'S GO WEST .2 TENTHS TURN  
SOUTH ON RIGHT OF WAY LOCATION 800 FT.

# CAUSE OF LEAK

Discribe cause of problem & how it was repaired. 6" PVC cracked, replaced  
with 20ft new PVC and new coupling



Lease Road