

**3R - 68**

**APPROVALS**

**YEAR(S):**

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STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

September 16, 1999

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-274-520-710**

Mr. Ed Hasely  
Burlington Resources  
P.O. Box 4289  
Farmington, New Mexico 87499-4289

**RE: FOGELSON #4-1**  
**SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Hasely:

The New Mexico Oil Conservation Division (OCD) has reviewed Burlington Resources' (BR) July 30, 1999 "FOGELSON #4-1, UNIT LETTER P, SECTION 4, TOWNSHIP 29N, RANGE 11W, NOTIFICATION OF GROUNDWATER ABOVE CHLORIDE STANDARD". This document contains the results of BR's recent investigation of the extent of contamination related to BR's activities at the Fogelson #4-1 well site. The document also contains a work plan for additional investigations.

The above referenced work plan is approved with the following conditions:

1. The monitor wells shall be installed as permanent monitor wells and shall be constructed pursuant to BR's prior approved Groundwater Management Plan.
2. Ground water from the upgradient monitor well and the monitor well at BR's pit shall be sampled and analyzed for concentrations of benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids (TDS) and cations and anions using EPA approved methods and quality assurance/quality control procedures.
3. BR shall include the results of the investigations in BR's annual report on ground water investigation and remediation activities. The report shall contain:
  - a. A description of all investigation activities conducted including conclusions and recommendations.

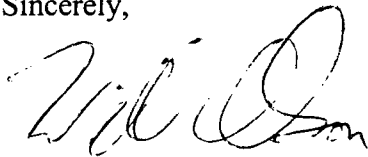
Mr. Ed Hasely  
September 16, 1999  
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- b. A map showing all former pit locations, excavated areas, monitor well locations and the direction and magnitude of the hydraulic gradient.
- c. Geologic logs and well completion diagrams for each monitor well.
- d. The laboratory analytical results of all soil and water quality sampling including the quality assurance/quality control data.
- e. The disposition of all wastes generated.

Pleased be advised that OCD approval does not relieve BR of liability if the work plan fails to adequately define the extent of contamination related to BR's activities. In addition, OCD approval does not relieve BR of responsibility for compliance with any other federal, state, local or tribal laws and regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrologist  
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office  
Sandra Miller, El Paso Field Services



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September 10, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-274-520-556**

Mr. Ed Hasely  
Burlington Resources  
P.O. Box 4289  
Farmington, New Mexico 87499-4289

**RE: SAN JUAN BASIN GROUND WATER INVESTIGATION WORK PLAN**

Dear Mr. Hasely:

The New Mexico Oil Conservation Division (OCD) has completed a review of Burlington Resources (BR) August 6, 1998 "GROUNDWATER INVESTIGATION AND REMEDIATION PLAN, SAN JUAN BASIN, NEW MEXICO". This document contains BR's work plan for investigation and remediation of contaminated ground related to the former use of unlined pits in the San Juan Basin of Northwestern New Mexico.

The above referenced work plan is approved with the following conditions:

1. All initial source area monitoring wells will be sampled and analyzed for benzene, toluene, ethylbenzene, xylene (BTEX), total dissolved solids (TDS), major cations and anions and New Mexico Water Quality Control Commission (WQCC) metals.
2. BR will conduct all sampling and analysis activities using EPA approved methods and procedures including appropriate quality assurance/quality control (QA/QC).
3. A minimum of 2 downgradient monitor wells will be installed if the source area monitor well indicates that there is ground water contamination in excess of WQCC standards.
4. All wastes generated will be disposed of at an OCD approved facility or in an OCD approved manner.
5. The annual reports on investigation/remedial activities will present the information on each site as a separate case. Each case will contain:
  - a. A description of all investigation and remediation activities which occurred during the past calendar year including conclusions and recommendations.

Mr. Ed Hasely  
September 10, 1998  
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- b. Summary tables containing all past and present laboratory analytic results of soil and water sampling including copies of the laboratory data sheets and associated QA/QC data for samples analyzed during the past calendar year.
  - c. Quarterly site/water table elevation map.
  - d. Quarterly isopleth maps for contaminants of concern (ie. BTEX, etc.)
  - e. Geologic logs and completion diagrams for all monitor wells installed within the past calendar year.
  - f. The disposition of all wastes generated.
6. All documents submitted for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Aztec Office.

Please be advised that OCD approval does not relieve BR of liability if contamination exists which is beyond the scope of the work plan, if the activities fail to adequately determine the extent of contamination; or if the activities fail to adequately remediate contamination related to BR's activities. In addition, OCD approval does not relieve BR of responsibility for compliance with any other federal, state, tribal or local laws and regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson  
Hydrologist  
Environmental Bureau

cc: Denny Foust, OCD Aztec District Office



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July 9, 1998

**CERTIFIED MAIL**  
**RETURN RECEIPT NO. Z-235-437-307**

Mr. Ed Hasely  
Burlington Resources  
P.O. Box 4289  
Farmington, New Mexico 87499-4289

**RE: SAN JUAN BASIN PIT GROUND WATER SITES**

Dear Mr. Hasely:

Information in El Paso Field Services (EPFS) recent annual ground water monitoring report shows the presence of shallow ground at a number of well sites operated by Burlington Resources (BR). Disposal activities at EPFS pits on these locations have resulted in contamination of shallow ground water. These sites also apparently have former unlined production pits operated by BR, some of which appear to be contributing to ground water contamination seen in EPFS monitoring wells.

Due to the presence of ground water contamination at these sites and the apparent commingling of contaminated waters from EPFS's former unlined dehy pit and BR's former unlined production pits, the OCD requires that BR immediately begin implementation of their previously approved pit closure plan at the sites listed below. Implementation will include investigation and remediation of contaminated soils and ground water at these sites.

- |                         |                              |
|-------------------------|------------------------------|
| 1. Fogelson 4-1 Com #14 | Unit P, Sec. 04, T29N, R11W. |
| 2. Johnston Federal #4  | Unit H, Sec. 33, T31N, R09W. |
| 3. Johnston Federal #6A | Unit F, Sec. 35, T31N, R09W. |
| 4. Standard Oil Com #1  | Unit N, Sec. 36, T29N, R09W. |
| 5. Turner A #1 PM       | Unit K, Sec. 34, T31N, R11W. |

Since BR does not have an approved San Juan Basin ground water plan, the OCD also requires that BR submit a comprehensive ground water investigation and remediation plan for all pit closure sites in the San Juan Basin that encounter ground water. The plan will be submitted to the OCD Santa Fe Office by August 14, 1998 with a copy provided to the OCD Aztec District Office. In addition, the OCD requests that BR cooperate with EPFS to investigate and remediate ground water at sites with commingled plumes of contaminated ground water.

Mr. Ed Hasely

July 9, 1998

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If you have any questions, please contact me at (505) 827-7154.

Sincerely,

A handwritten signature in black ink, appearing to read "Will Olson", written in a cursive style.

William C. Olson

Hydrologist

Environmental Bureau

xc: Denny Foust, OCD Aztec District Office  
Sandra D. Miller, El Paso Field Services  
Bill Liess, BLM Farmington Office