

# Reserve Pit Pre-Closure Treatment

## Spring 2011 in North Dakota

*“State regulators in June levied \$3 million in fines against 20 companies that failed to protect oilfield waste pits from spring flooding.”*

*“Prosecutors charged seven oil companies in August after federal wildlife officials discovered 28 dead birds in uncovered waste pits in May and June. The maximum penalty for each misdemeanor charge under the Migratory Bird Treaty Act is six months in prison and a \$15,000 fine.”*

By JAMES MacPHERSON, Associated Press



Bismarck Tribune April 6, 2011

## Announcing Reserve Pit Pre-Closure Treatment Another successful application for **DualZorb®**

Reduce **RISK** and **EXPOSURE** from open reserve pits with DualZorb:

- **Encapsulate and Remediate Crude Oil and Fracking Fluids**
- **Minimize Waterfowl Mortality**
- **Lower Pit Water Salinity**

DualZorb is a cost effective surface treatment for open pit reclamation. It immediately encapsulates and begins remediating crude oil and hydraulic fracturing fluids while also lowering pit water salinity. Application of DualZorb immediately reduces the potential for waterfowl mortality as it removes all floating oils from the pit. Should the pit overflow, both the potential impact to the ecosystem and resulting clean-up costs are greatly reduced.

Post-remediation, the spent DualZorb simply becomes a soil amendment, increasing water infiltration, moisture retention, nutrient retention and soil aeration in the restoration of healthy soils and vibrant plant growth.



Before Treatment



After Treatment

MADE IN WYOMING

In North Dakota, Please contact:  
M&N Equipment – Watford City, ND  
701.842.2253 or 307.259.2253



\* This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of DualZorb on an oil discharge. This listing means only that data have been submitted to EPA as required by subpart J of the National Contingency Plan, 40 CFR Section 300.915. The data submitted exceeds the testing criteria for the bioremediation effectiveness test and therefore qualifies to be listed on the NCP product schedule.

# In Accordance with North Dakota Industrial Commission Rules and Regulations

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## **43-02-03-19.1. FENCING, SCREENING, AND NETTING OF PITS.**

All open pits and ponds which contain saltwater must be fenced. All pits and ponds which contain oil must be fenced, screened, and netted.

This is not to be construed as requiring the fencing, screening, or netting of a reserve pit or other earthen pit used solely for drilling, completing, recompleting, or plugging unless such pit is not reclaimed in excess of ninety days after completion of the operation.

History: Effective May 1, 1992.

General Authority Law Implemented

NDCC 38-08-04 NDCC 38-08-04

# In Accordance with Wyoming Oil and Gas Conservation Commission Rules and Regulations

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## **Chapter 4, Section 1, subsection jj.**

For reserve pits containing oil, sheens, condensate, other hydrocarbons or chemicals proven to be hazardous to public health, safety and welfare, or to wildlife, domestic animals, or migratory birds, the Owner or Operator shall have these fluids removed as soon as practical. If fluid removal is not possible in a timely manner, the reserve pit shall be fenced completely and netted or otherwise secured at the time the rig substructure has been moved from the location in a manner that avoids the loss of wildlife, domestic animals, or migratory birds. Alternative methods of netting or securing pits may be authorized at the discretion of the Supervisor.