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-144
June 1, 2004

**For drilling and production facilities**, submit to appropriate NMOCD District Office.
**For downstream facilities**, submit to Santa Fe office

# Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action. Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator COG Operating, LLC Telephone (432) 685-4340 e-mail address PEdwards@conchoresources.com
Address. 550 West Texas Ave., Suite 1300, Midland, Texas 79701
Facility or well name. Harper State #16 API #: 30-015-36095 UL or Qtr/Qtr N Sec 16 T-17-S R-30-E
County: Eddy Latitude 32.829462N Longitude 103.979682W NAD: 1927 X 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

| **Pit** | **Below-grade tank** | |
|---|---|---|
| Type Drilling ☒ Production ☐ Disposal ☐<br>Workover ☐ Emergency ☐<br>Lined ☒ Unlined ☐<br>Liner type: Synthetic ☒ Thickness 12 mil Clay ☐<br>Pit Volume 5,000 bbl | Volume ___ bbl Type of fluid. ___<br>Construction material: ___<br>Double-walled, with leak detection? Yes ☐ If not, explain why not. | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) 150 | Less than 50 feet<br>50 feet or more, but less than 100 feet<br>100 feet or more | (20 points)<br>(10 points) 0<br>( 0 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | Yes<br>No | (20 points)<br>( 0 points) 0 |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet<br>200 feet or more, but less than 1000 feet<br>1000 feet or more | (20 points)<br>(10 points)<br>( 0 points) 0 |
| | **Ranking Score (Total Points)** | 0 |

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location (check the onsite box if your are burying in place) onsite ☐ offsite ☐ If offsite, name of facility___. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface___ ft and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments

Closed by trench burial, procedure attached, on 5-29-2007, on email approval by Mike Bratcher

All material with Chloride above 250 mg/kg was removed and placed in a lined burial trench north of the reserve pit area. The trench was capped with plastic and both were closed. Lab and field sample results attached

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 6-5-07

Printed Name/Title **Gary Miller, Agent** Signature

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval.

Printed Name/Title ___ Signature Accepted for record NMOCD Date JUN 05 2008

# Highlander Environmental Corp.

## Pit Closure Sampling Report

**Job Number:** 3510 **Date:** 5-29-03

**Client:** COG Oper.

**Well Name** Harper State #16

**API#** 30-015-36095

**Depth of Pit** 8'

**Depth to Groundwater**

**Orientation of pit** N S E (W)

**Burial trench location from reserve pit** (N) S E W

All pit sample depths are *below pit bottom* (BPB)

| Sample Location | Depth (BPB) | Field Chloride Results (mg/Kg) | Lab Chloride Results (mg/Kg) | Soil to be excavated | Soil to be left in-situ |
|---|---|---|---|---|---|
| NE | 2 | 400 | | X | |
| | 5 | 550 | | X | |
| | 10 | 150 | 187 | | |
| | | | | | |
| NW | 2 | 1600 | | X | |
| | 5 | 150 | 177 | | |
| | | | | | |
| | | | | | |
| SE | 2 | 350 | | X | |
| | 5 | 1150 | | X | |
| | 10 | 100 | <100 | | |
| | | | | | |
| SW | 2 | 1500 | | X | |
| | 5 | 150 | 177 | | |
| | | | | | |
| Center | 2 | 150 | 177 | | |

BGS- Below Ground Surface BPB- Below Pit Bottom

# Summary Report

Gary Miller
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: June 4, 2008

Work Order: 8060218

Project Location: Eddy County, NM
Project Name: COG-Harper State #16
Project Number: 3510

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 161751 | NE-10' | soil | 2008-05-29 | 00:00 | 2008-06-02 |
| 161752 | NW-5' | soil | 2008-05-29 | 00:00 | 2008-06-02 |
| 161753 | SE-10' | soil | 2008-05-29 | 00:00 | 2008-06-02 |
| 161754 | SW-5' | soil | 2008-05-29 | 00:00 | 2008-06-02 |
| 161755 | Center-2' | soil | 2008-05-29 | 00:00 | 2008-06-02 |

**Sample: 161751 - NE-10'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **187** | mg/Kg | 2.00 |

**Sample: 161752 - NW-5'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **177** | mg/Kg | 2.00 |

**Sample: 161753 - SE-10'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <100 | mg/Kg | 2.00 |

**Sample: 161754 - SW-5'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **177** | mg/Kg | 2.00 |

**Sample: 161755 - Center-2'**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **177** | mg/Kg | 2.00 |