

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

Form C-144  
June 1, 2004

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

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 of 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 432-685-4332 e-mail address kearrillo@conchoresources.com  
Address Fasken Center Tower II, 550 W Texas Ave , Suite 1300, Midland, TX 79701  
Facility or well name MC Federal # 20 API # 30-025-38703 U/L or Qtr/Qtr L Sec 21 T 17S R 32E  
County Lea Latitude 32 822692 N Longitude: 103 750542 W NAD: 1927 ☒ 1983 ☐  
Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

RECEIVED

MAY 06 2008

HOBBS OCD

<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type Synthetic <input checked="" type="checkbox"/> Thickness: 12 mil Clay <input type="checkbox"/> Pit Volume 25,000 bbl	<b>Below-grade tank</b> Volume _____ bbl Type of fluid _____ Construction material _____ Double-walled, with leak detection? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water ) 150'	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more - X ( 0 points) 0
Wellhead protection area (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources )	Yes (20 points) No - X ( 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 (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more - X ( 0 points) 0
<b>Ranking Score (Total Points)</b> 0 points	

**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 you 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

Closed by trench burial, procedure attached and e-mail approval to close by Larry Johnson received on 4-30-2008

All material with chloride levels above 250 mg/Kg were removed and placed in 20 mil lined burial trench located next to the reserve pit, on east side of reserve pit

Trench was capped with 20 mil liner on all sides and covered with 3' of native soil

Lab and field samples results are 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 ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 5-5-2008

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

Date

5.7.08

ENVIRONMENTAL ENGINEER

## Summary Report

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

Report Date: April 30, 2008

Work Order: 8042924



Project Location: Lea County, NM  
Project Name: COG-MC Federal #20  
Project Number: 3219

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
158248	NE-2	soil	2008-04-28	11:15	2008-04-28
158249	NW-2	soil	2008-04-28	11:15	2008-04-28
158250	SE-2	soil	2008-04-28	11:15	2008-04-28
158251	SW-2	soil	2008-04-28	11:15	2008-04-28
158252	C-2	soil	2008-04-28	11:15	2008-04-28

### Sample: 158248 - NE-2

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

### Sample: 158249 - NW-2

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

### Sample: 158250 - SE-2

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

### Sample: 158251 - SW-2

Param	Flag	Result	Units	RL
Chloride		152	mg/Kg	2.00

### Sample: 158252 - C-2

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296  
*This is only a summary. Please, refer to the complete report package for quality control data.*

Report Date: April 30, 2008  
3219

Work Order: 8042924  
COG-MC Federal #20

Page Number: 2 of 2  
Lea County, NM

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Param	Flag	Result	Units	RL
Chloride		<b>142</b>	mg/Kg	2.00

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## Pit Closure Sampling Report

3219

Date: 4-28-08

606

MC F-d #20

30-025-38703



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)

[illegible]

BGS- Below Ground Surface

BPB- Below Pit Bottom

Closed & backfilled by Linford Trach burial  
Approved by Larry Johnson, 4-30-08

Highlander Environmental Corp.  
Pit Sample Location Plat

Pit wall in feet \_\_\_\_\_


Pit wall in feet \_\_\_\_\_

x NW NE x

x Center

x SW SE x

x \_\_\_\_\_ Indicates Sample Location  
(Name by quarter i.e. NW, NE etc)

 Draw in North Arrow

Depth of pit in feet 8

• Wellhead

Well Pad

Client: COG

Well Name: B McFed #20

API# 30-025-38703

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**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: <b>COG Operating LLC</b> Telephone: <b>432-685-4332</b> e-mail address: <b>kcarrillo@conchoresources.com</b>		
Address: <b>550 W. Texas, Suite 1300 Midland, TX 79701</b>		
Facility or well name: <b>MC Federal #20</b> API #: <b>30-025-38703</b> U/L or Qtr/Qtr <b>L</b> Sec <b>21</b> T <b>17S</b> R <b>32E</b>		
County: <b>Lea</b> Latitude <b>32.816892° N</b> Longitude <b>103.776298° W</b> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <b>12</b> mil Clay <input type="checkbox"/> Pit Volume <b>25,000</b> bbl		
<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) <b>150'</b>	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) ( 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 No	(20 points) ( 0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) ( 0 points)
Ranking Score (Total Points)		<b>0 points</b>

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 you 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:	<b>COG Operating LLC proposes to close the drilling pit as follows:</b>
1. Remove fluids from pit.	
2. A deep trench pit will be constructed next to the existing reserve pit and lined with a 12 mil liner. The contents will be encapsulated in this pit and the liner will be folded over the mud & cuttings.	
3. Cover liner w/20 mil liner w/ excess of 3' on all sides as per option IV.B.3.(b) of Pit and Below-Grade Tank Guidelines.	
4. Cover w/ a minimum of 3' of native soil.	
5. Contour pit to prevent erosion & ponding of rainwater.	

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 NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: **03/26/08**  
Printed Name/Title **Kanicia Carrillo, Regulatory Analyst** Signature   
Your certification and NMOC 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.

**CONDITIONS REQ'D FOR APPROVAL:**

Samples (for chloride) are to be obtained from pit floor area in each quadrant and analysis submitted to OCD prior to back-filling

Signature  Date: **4.29.08**  
**ENVIRONMENTAL ENGINEER**