

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 or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

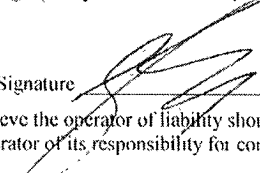
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <b>COG Operating LLC</b>		Telephone: <b>432-685-4372</b>	e-mail address: <b>dkuykendall@conchoresources.com</b>	
Address: <b>Fasken Center Tower II, 550 W. Texas Ave., Suite 1300, Midland, TX 79701</b>				
Facility or well name: <b>Reindeer "21" Federal #2</b>		API #: <b>30-015-35897</b>	U/I or Qtr/Qtr: <b>A</b>	Sec: <b>21</b> T: <b>16S</b> R: <b>28E</b>
County: <b>Eddy</b>		Latitude: <b>N 32° 54' 52.13"</b>	Longitude: <b>W 104° 10' 24.45"</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>		<b>Below-grade tank</b>		
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/>		Volume: _____ bbl Type of fluid: _____		
Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/>		Construction material: _____		
Liner type: Synthetic <input checked="" type="checkbox"/> Thickness: <b>12 mil</b> Clay <input type="checkbox"/>		Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____		
Pit Volume: <b>30,000 bbl</b>				
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water)		Less than 50 feet	(20 points)	
		50 feet or more, but less than 100 feet	(10 points) 10	
		100 feet or more -	(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	(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>		<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:
Closed by trench burial, procedure attached and verbal approval to close by Mike Bratcher received on 7-25-2008
All material with chloride levels above 250 mg/Kg. field sample, was 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 **8-11-08**  
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 **AUG 12 2008**

*Final Closure*

# Pit Closure Sampling Report

3568

Date: 7-23-08

## LOG Operating

Kaindeer 21 Federal #2

30-015-35897

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Orientation of pit N (S) E W

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

[illegible]

BPB- Below Pit Bottom

Report Date: August 1, 2008  
3568

Work Order: 8072526  
COG/Reindeer "21" Fed #2

Page Number: 1 of 2  
Tx

## Summary Report

Gary Miller  
Tetra Tech  
1910 N. Big Spring Street  
Midland, TX, 79705

Report Date: August 1, 2008

Work Order: 8072526



Project Location: Tx  
Project Name: COG/Reindeer "21" Fed #2  
Project Number: 3568

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
168421	NE - 2'	soil	2008-07-23	00:00	2008-07-25
168422	NW - 2'	soil	2008-07-23	00:00	2008-07-25
168423	SE - 5'	soil	2008-07-23	00:00	2008-07-25
168424	SW - 5'	soil	2008-07-23	00:00	2008-07-25
168425	Center - 15'	soil	2008-07-23	00:00	2008-07-25

### Sample: 168421 - NE - 2'

Param	Flag	Result	Units	RL
Chloride		992	mg/Kg	2.00

### Sample: 168422 - NW - 2'

Param	Flag	Result	Units	RL
Chloride		268	mg/Kg	2.00

### Sample: 168423 - SE - 5'

Param	Flag	Result	Units	RL
Chloride		541	mg/Kg	2.00

### Sample: 168424 - SW - 5'

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: August 1, 2008  
3568

Work Order: 8072526  
COG/Reindeer "21" Fed #2

Page Number: 2 of 2  
Tx

Param	Flag	Result	Units	RL
Chloride		427	mg/Kg	2.00

Sample: 168425 - Center - 15'

Param	Flag	Result	Units	RL
Chloride		704	mg/Kg	2.00

**Miller, Gary**

**From:** Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]  
**Sent:** Friday, July 25, 2008 10:54 AM  
**To:** Gary Miller  
**Cc:** Pat Ellis  
**Subject:** RE: COG Raindeer 21 Fed #2

Gary,

This closure proposal is acceptable.

Mike Bratcher  
NMOCD District 2  
575-748-1283 Ext.108

**From:** Gary Miller [mailto:gmler@hec-enviro.com]  
**Sent:** Wednesday, July 23, 2008 3:17 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** 'Pat Ellis'  
**Subject:** COG Raindeer 21 Fed #2

Mike the attached are the field samples from the above mentioned well and is being closed under the old pit rule 50. All material above 250 mg/kg was removed and placed in the lined burial trench. If this works for you please reply. Thanks.

Gary L. Miller  
Highlander Environmental Corp.  
1910 N. Big Spring  
Midland, Texas 79705

432-682-4559 office  
432-557-4681 cell  
432-682-3946 fax

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8/11/2008