

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: COG Operating LLC Telephone: 432-685-4340 e-mail address: pedwards@conchoresources.com  
Address: Fasken Center Tower II, 550 W. Texas Ave., Suite 1300, Midland, TX 79701  
Facility or well name: Blue Thunder 5 Federal Com. #3 API #: 30-015-35544 U/I, or Qtr/Qtr: J Sec 5 T: 19S R: 31W  
County: Eddy Latitude: N 32° 41' 14" Longitude: W 103° 53' 22" NAD 1927 ☐ 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
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: 35 000 bbl	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) greater than 175'	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
Ranking Score (Total Points) 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

Additional Comments

Closure approved by email by Mike Bratcher on 5-14-08

Soils with elevated chloride levels were removed down to rock, all material and cuttings were placed into two lined burial trenches, one east of the reserve pit and one in the NW

Corner The remaining reserve pit was bedded and lined with 20 mil plastic to cap and the pit was closed

Lab and field sample data is 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: 5-15-08

Printed Name/Title Gary Miller, Agent for COG

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 MAY 16 2008

# Pit Closure Sampling Report

2914 3178

Date: 4-16-08

004

Blue Thunder 5 Fed Com #3

30-015-35544

3

1751

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

Excavate To The Rock - Start w/  
Renter Then SW corner, Then NE corner  
Then SE corner until Trench is full, Then  
Call Mike Bratcher To remove it & go beyond.

## Summary Report

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

Report Date: April 21, 2008

Work Order: 8041804



Project Location: Eddy County, NM  
Project Name: COG-Blue Thunder 5 Fed. Com #3  
Project Number: 3178

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
157103	NE-5	soil	2008-04-16	00:00	2008-04-17
157101	NW-2	soil	2008-04-16	00:00	2008-04-17
157105	SE-5	soil	2008-04-16	00:00	2008-04-17
157106	SW-10	soil	2008-04-16	00:00	2008-04-17
157107	C-10	soil	2008-04-16	00:00	2008-04-17

**Sample: 157103 - NE-5**

Param	Flag	Result	Units	RL
Chloride		3790	mg/Kg	2.00

**Sample: 157104 - NW-2**

Param	Flag	Result	Units	RL
Chloride		357	mg/Kg	2.00

**Sample: 157105 - SE-5**

Param	Flag	Result	Units	RL
Chloride		1370	mg/Kg	2.00

**Sample: 157106 - SW-10**

Param	Flag	Result	Units	RL
Chloride		632	mg/Kg	2.00

**Sample: 157107 - C-10**

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 21, 2008  
3178

Work Order: 8041804  
COG-Blue Thunder 5 Fed. Com #3

Page Number: 2 of 2  
Eddy County, NM

Param	Flag	Result	Units	RL
Chloride		<b>3060</b>	mg/Kg	2.00

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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 ☒

SEP 05 2007

OCD-ARTESIA

Operator: COG Operating LLC

Telephone: 432-685-4340

e-mail address: pedwards@conchoresources.com

Address: Fasken Center Tower II, 550 W. Texas Ave., Suite 1300, Midland, TX 79701

Facility or well name: Blue Thunder 5 Federal Com. #3

API #: 30-015-35544

U/L or Qtr/Qtr: J

Sec: 5

T. 19S

R: 31E

County: Eddy

Latitude: N 32° 41' 14"

Longitude: W 103° 53' 22"

NAD: 1927 ☐ 1983 ☐

Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness: 12 mil Clay ☐

Pit Volume: 35,000 bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

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.) greater than 100' 175'	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
Ranking Score (Total Points)		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.

Additional Comments: Pit Closure Plan 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 NMOC District guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 9-4-2007

Printed Name/Title: Robert McNeill - Agent

Signature: Robert McNeill

Your certification and NMOC District 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:

Gerry Guye

Compliance Officer

Signature:

Date:

SEP 6 2007

**Gary Miller**

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**From:** Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]  
**Sent:** Wednesday, May 14, 2008 11:47 AM  
**To:** Gary Miller  
**Subject:** RE: COG Blue Thunder

OK to close.

Mike Bratcher

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**From:** Gary Miller [mailto:gmill@hec-enviro.com]  
**Sent:** Tuesday, May 13, 2008 8:44 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** COG Blue Thunder

Mike, the attached is the field sample data for the Blue Thunder well you and I talked about last week. We excavated the material down as shown on the attached form. A second burial trench was placed in the NW corner of the pit, lined and backfilled. The remaining pit area was bedded and capped with plastic. We are ready to close if this meets with your approval. Thanks,

Gary E. 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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5/15/2008