

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: 432-685-4332 e-mail address: kcarrillo@conchoresources.com  
Address: Fasken Center Tower II, 550 W. Texas Ave., Suite 1300, Midland, TX 79701  
Facility or well name: Mesilla State #8 API #: 30-015-35766 U/I. or Qtr/Qtr: C Sec: 16 T: 17S R: 30E  
County: Eddy Latitude: 32.839160 N Longitude: 103.977535 W NAD 1927 ☒ 1983 ☐  
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

<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 3,000 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) 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 on verbal approval by Mike Bratcher on 12-17-2007.
Dug out SW corner to 25', hit rock. field test showed 480 mg/Kg, lab showed 1530 mg/Kg chlorides. Excavated soil to 25' lined for second burial trench and capped.
Lab and field sample 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: 12-28-2007

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

DEC 31 2007  
Date: \_\_\_\_\_

# Pit Closure Sampling Report

## Groundwater

150

Orientation of pit    N    S    E    W

All pit sample depths are below pit bottom (BPB)

[illegible]

BPB- Below Pit Bottom

Dig out SW corner to 25' - Retest, if  
Below 250, take & use as burial trench,  
Cover & Backfill. per Mike Butcher, 12-17-07

Highlander Environmental Corp.  
Pit Sample Location Plat

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

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

x SW NW x


x Center

x SE NE x

• Wellhead

Well Pad

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

 Draw in North Arrow

Depth of pit in feet \_\_\_\_\_

Client: ADG

Well Name: Mesilla State #8

API# 30-015-35766

Report Date: December 20, 2007  
3067

Work Order: 7121725  
COG/ Mesilla State #8

Page Number: 1 of 2  
Eddy County, NM

## Summary Report

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

Report Date: December 20, 2007

Work Order: 7121725



Project Location: Eddy County, NM  
Project Name: COG/ Mesilla State #8  
Project Number: 3067

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
145562	NE- 2'	soil	2007-12-13	00:00	2007-12-17
145563	NW- 2'	soil	2007-12-13	00:00	2007-12-17
145564	SE- 5'	soil	2007-12-13	00:00	2007-12-17
145565	SW- 25'	soil	2007-12-13	00:00	2007-12-17
145566	CENTER- 5'	soil	2007-12-13	00:00	2007-12-17

**Sample: 145562 - NE- 2'**

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	5.00

**Sample: 145563 - NW- 2'**

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	5.00

**Sample: 145564 - SE- 5'**

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	5.00

**Sample: 145565 - SW- 25'**

Param	Flag	Result	Units	RL
Chloride		1530	mg/Kg	5.00

**Sample: 145566 - CENTER- 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: December 20, 2007  
3067

Work Order: 7121725  
COG/ Mesilla State #S

Page Number: 2 of 2  
Eddy County, NM

Param	Flag	Result	Units	RL
Chloride		332	mg/Kg	5.00

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3248

Form C-144  
June 1, 2004

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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 ☒

OCT 11 2007

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>Mesilla State #8</b> API # <b>30-015-35766</b> U/I. or Qtr/Qtr <b>C</b> Sec <b>16</b> T <b>17S</b> R <b>30E</b>	
County <b>EDDY</b> Latitude <b>32.839160° N</b> Longitude <b>103.977535° W</b> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>	
Surface Owner Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" 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>5000</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 (20 points) 50 feet or more, but less than 100 feet (10 points) 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 (0 points)
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 (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	COG Operating LLC proposes to close the drilling pit as follows:
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 District guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date **10/10/07**

Printed Name/Title **Kanicia Carrillo, Regulatory Analyst**

Signature

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.

NOTIFY OCD 24 HOURS PRIOR to beginning closure and 24 HOURS PRIOR to obtaining samples. Samples are to be obtained from pit area and analyses submitted to OCD prior to back-filling.

Signature

Signed By

Date **OCT 12 2007**

If burial trench is to be constructed in pit area, samples are to be obtained and analyses submitted to OCD

**Bratcher, Mike, EMNRD**

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**From:** Gary Miller [gmiller@hec-enviro.com]  
**Sent:** Friday, December 28, 2007 3:45 PM  
**To:** Bratcher, Mike, EMNRD; 'Kanicia Carrillo'  
**Subject:** COG Mesilla State #4 final pit closure  
**Attachments:** COG Mesilla State #8 Final C-144 pit closure doc.pdf

Mike the attached is the C-144 and support doc for the reserve pit on the above mentioned well. Please note that when I sent you the field samples that the field tests indicated chloride levels of 480 mg/Kg in the SW corner of the pit and that we had hit rock. The lab results of the same sample came up 1530 mg/Kg. Due to the relatively deep groundwater and the fact that we used this corner as the second lined burial trench the higher chloride levels hopefully will not be an issue. If you have any questions or problems with this please call. 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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12/31/2007