

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: kearrillo@conchoresources.com	
Address Fasken Center Tower II, 550 W Texas Ave , Suite 1300, Midland, TX 79701				
Facility or well name: J C Federal #9		API # 30-025-38261	U/L or Qtr/Qtr: G	Sec: 22 T: 17S R 32E
County Lea		Latitude: 32.822692 N	Longitude: 103.750542 W	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 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 ) 80'		Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 10 100 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>	10 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 by Larry Johnson on 1-2-08
All material with choride levels above 250 mg/Kg were removed and placed in 20 mil lined burial trench located on the east side of reservoir pit
Trench was capped with 20 mil. liner with excess of 3' on all sides and covered with 3' of native soil.
Lab and field samples results are attached
<b>RECEIVED</b> JAN 17 2008

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 1-15-2008

Printed Name/Title Gary Miller- Agent

Signature 

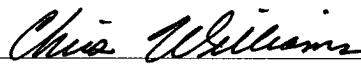
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with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

Approval

Printed Name/Title

CHRIS WILLIAMS / DIST. SUPV

Signature



Date

1/18/08

Highlander Environmental Corp.  
Pit Closure Sampling Report

Job Number:

3210

12-27-07

Client:

C09

Well Name

JC Fed #9

Lea Co. NM

12-27-07

API#

30-025-38261

Depth of Pit

8'

Depth to

Groundwater

110'

Orientation of 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)
NE	2'	160	<100
NW	2'	120	<100
SE	2'	160	<100
SW	2'	120	<100
Center	2'	480	
	5'	320	
	10'	120	<100

DNR- Did not run at lab.

BGS- Below Ground Surface

BPB- Below Pit Bottom

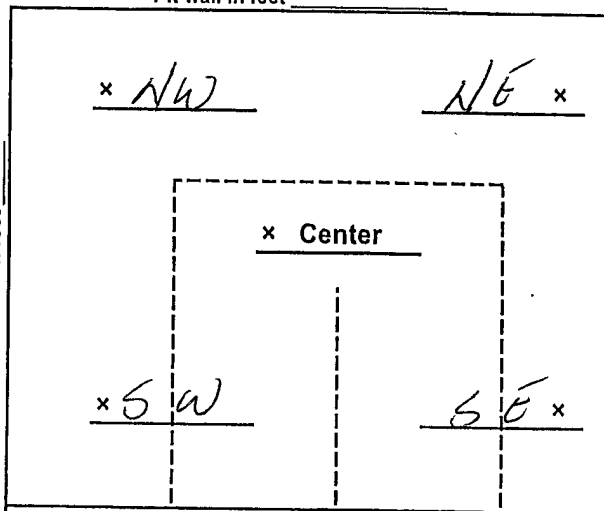
Remove all material over 250 el, place in  
Burial Trench w/ drilling mud & close

Approved by Larry Johnson 1-2-08

Highlander Environmental Corp.  
Pit Sample Location Plat

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

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



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



Draw in North Arrow

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

• Wellhead

Well Pad

Client:

AOB Opel

Well

Name:

JC Fed #9

API#

30-025-38261

## Summary Report

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

Report Date: January 9, 2008

Work Order: 8010425



Project Location: Lea Co., NM  
Project Name: COG-JC Fed #9  
Project Number: 3210

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
146969	NE 2'	soil	2007-12-27	00:00	2008-01-04
146970	NW 2'	soil	2007-12-27	00:00	2008-01-04
146971	SE 2'	soil	2007-12-27	00:00	2008-01-04
146972	SW 2'	soil	2007-12-27	00:00	2008-01-04
146973	Center 10'	soil	2007-12-27	00:00	2008-01-04

**Sample: 146969 - NE 2'**

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

**Sample: 146970 - NW 2'**

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

**Sample: 146971 - SE 2'**

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

**Sample: 146972 - SW 2'**

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

**Sample: 146973 - Center 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: January 9, 2008  
3210

Work Order: 8010425  
COG-JC Fed #9

Page Number: 2 of 2  
Lea Co., NM

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

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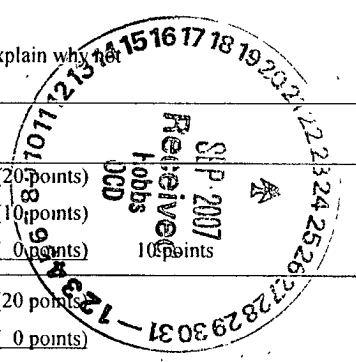
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Form C-144  
June 1, 2004

**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>JC Federal #9</b> API #: <b>30-025-38261</b> U/L or Qtr/Qtr <b>G</b> Sec <b>22</b> T <b>17S</b> R <b>32E</b>		
County <b>Lea</b> Latitude <b>32.822692° N</b> Longitude <b>103.750542° 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>3000</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 _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) <b>80'</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)	
<b>Ranking Score (Total Points)</b>		
		<b>10 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 Office guidelines ☒, a general permit ☐, or an (attached) alternative OGD-approved plan ☐.

Date **09-21-07**

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

Signature 

Your certification and NMOC District Office 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 **9-25-07**

**ENVIRONMENTAL ENGINEER**

**Gary Miller**

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**From:** Johnson, Larry, EMNRD [larry.johnson@state.nm.us]  
**Sent:** Wednesday, January 02, 2008 10:50 AM  
**To:** Gary Miller  
**Subject:** RE: COG operating JC Fed #9 field reserve pit sample results

Approved 1-2-07 LJ

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**From:** Gary Miller [mailto:gmill@hec-enviro.com]  
**Sent:** Friday, December 28, 2007 7:50 AM  
**To:** Johnson, Larry, EMNRD  
**Subject:** COG operating JC Fed #9 field reserve pit sample results

Larry, the attached are the field sample results for the above mentioned site. All material in the pit found to have chlorides above 250 mg/Kg were removed and placed in the lined burial trench along with the drill cuttings. If this meets with your approval, the pit will be closed and recontoured and final C-144 and lab results will be forwarded to you when complete.

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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1/15/2008