

District I
1225 N. Frisco 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 PEwards@conchoresources.com
Address: 550 West Texas Ave., Suite 1300, Midland, Texas 79701
Facility or well name Harper State #15 API # 30-015-36094 Ul. or Qtr/Qtr K Sec 16 T-17-S R-30-L
County Eddy Latitude 32.831700N Longitude 103.977535W NAD: 1927 X 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 5,000 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.) 150

Less than 50 feet	(20 points)
50 feet or more, but less than 100 feet	(10 points) 0
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) 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	(0 points) 0

Ranking Score (Total Points) 0

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, on 5-14-2008, on email approval by Mike Bratcher
Removed all material with chloride levels over 250 mg/Kg, and placed in lined burial trench if he reserve
Lab and field sample results 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 X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 5-15-08

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

MAY 16 2008

Date

Sent: Thu May 8 18:54
Priority: Normal

Report Date: May 15, 2008
3485

Work Order: 8050945
COG-Harper State #15

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: May 15, 2008

Work Order: 8050945



Project Location: Eddy County, NM
Project Name: COG-Harper State #15
Project Number: 3485

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
159416	NE 10'	soil	2008-05-08	00:00	2008-05-09
159417	NW 2'	soil	2008-05-08	00:00	2008-05-09
159418	SE 2'	soil	2008-05-08	00:00	2008-05-09
159419	SW 5'	soil	2008-05-08	00:00	2008-05-09
159420	Center 5'	soil	2008-05-08	00:00	2008-05-09

Sample: 159416 - NE 10'

Param	Flag	Result	Units	RL
Chloride		130	mg/Kg	2.00

Sample: 159417 - NW 2'

Param	Flag	Result	Units	RL
Chloride		136	mg/Kg	2.00

Sample: 159418 - SE 2'

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

Sample: 159419 - 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: May 15, 2008
3485

Work Order: 8050945
COG-Harper State #15

Page Number: 2 of 2
Eddy County, NM

Param	Flag	Result	Units	RL
Chloride		120	mg/Kg	2.00

Sample: 159420 - Center 5'

Param	Flag	Result	Units	RL
Chloride		<100	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 ☒

Operator **COG Operating LLC** Telephone: **432-685-4332** e-mail address: **kcarrillo@conchoresources.com**

Address **550 W. Texas, Suite 1300** **Midland, TX 79701**

Facility or well name: **Harper State #15** API # **30-015-36094** U/L or Qtr/Qtr **K** Sec **16** T **17S** R **30E**

County **EDDY** Latitude **32.831700° N** Longitude **103.977535° W** 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 **5000** bbl

Below-grade tank
Volume bbl Type of fluid
Construction material:
Double-walled, with leak detection? Yes ☐ If not, explain why not

APR - 4 2008

OCD-ARTESIA

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

Date **04/02/08**

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

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.

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 **APR 09 2008**

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

Gary Miller

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]
Sent: Wednesday, May 14, 2008 11:48 AM
To: Gary Miller
Cc: Pat Ellis
Subject: RE: Harper State #15

Gary,

The attachment did not come through on this one, but as proposed, this is OK to close.

Mike Bratcher

From: Gary Miller [mailto:gmiller@hec-enviro.com]
Sent: Tuesday, May 13, 2008 8:46 AM
To: Bratcher, Mike, EMNRD
Cc: 'Pat Ellis'
Subject: Harper State #15

Mike the attached are the field sample results you and I reviewed last week. All material above 250 mg/kg chlorides was removed and placed in the lined burial trench, if this meets with your approval please let me know. 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