

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: <u>CHESAPEAKE OPERATING, INC.</u> Telephone: <u>432-687-2992</u> e-mail address: <u>SSTRICKLIN@CHKENERGY.CO</u>		
Address: <u>P. O. BOX 11050 MIDLAND, TEXAS 79702-8050</u>		
Facility or well name: <u>HENSHAW 23 FEDERAL WELL 001</u> API #: <u>30-015-34448</u> U/L or Qtr/Qtr <u>B</u> Sec <u>23</u> T <u>16S</u> R <u>30E</u>		
County: <u>CHAVES</u> <i>Eddy</i> Latitude _____ Longitude _____ NAD: 1927 <input 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 <u>12</u> mil Clay <input type="checkbox"/> Pit Volume <u>12,139</u> 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.) <u>325'+</u>	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) ( 0 points) <u>0</u>
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) ( 0 points) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) ( 0 points) <u>0</u>
<b>Ranking Score (Total Points)</b>		<u>0</u>

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:

A SIDE DEEP BURIAL TRENCH WAS EXCAVATED NEXT TO THE PIT. THE TRENCH WAS LINED WITH A 20 MIL SYNTETIC LINER. THE PIT CONTENTS WERE THEN PLACED INTO THE LINED TRENCH. THE SIDES OF THE TRENCH WERE FOLDED OVER THE CONTENTS AND A TOP COVER OF 20 MIL SYNTHETIC LINER WAS SEWED IN PLACE. THREE FEET OF TOP SOIL WAS PLACED ON TOP OF THE LINED TRENCH AND COMPACTED. THE ORIGINAL PIT WAS BACKFILLED WITH CLEAN SOIL, COMPACTED, AND LEVELLED TO GRADE. CONFIRMATION SAMPLES WERE TAKEN FROM THE EXCAVATED PIT PRIOR TO BACKFILLING AND 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: 7/7/07

CLIFF BRUNSON, PRESIDENT, BBC INTL.

Printed Name/Title \_\_\_\_\_ Signature Cliff P. Brunson FOR CHESAPEAKE OPERATING, INC. \_\_\_\_\_

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

Approval:

Accepted for record  
NMOCD

Printed Name/Title \_\_\_\_\_ Signature \_\_\_\_\_ Date: AUG 02 2007



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397**

Receiving Date: 06/27/07  
Reporting Date: 06/28/07  
Project Owner: NOT GIVEN  
Project Name: HENSHAW 23 FED. COM 1  
Project Location: LOCO HILLS, NM

Analysis Date: 06/27/07  
Sampling Date: 06/26/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: LB  
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl <sup>-</sup> (mg/Kg)
H12820-1	PIT COMPOSITE	16
Quality Control		490
True Value QC		500
% Recovery		98
Relative Percent Difference		1.0

**METHOD:** Standard Methods

4500-CIB

Note: Analysis performed on a 1:4 w.v aqueous extract.

John J. Marino  
Chemist

06-28-07  
Date

H12820 BBC

**PLEASE NOTE** **Liability and Damages** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyst's services. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

**Bratcher, Mike, EMNRD**

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**From:** Cliff P. Brunson [cbrunson@bbcinternational.com]  
**Sent:** Saturday, July 07, 2007 11:37 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Bradley Blevins; Shay Stricklin; Harlan Brown; Jennifer Gilkey; Ken Swinney  
**Subject:** Final C-144-Chesapeake Henshaw 23 Federal Well #001  
**Attachments:** Henshaw 23 Federal Well #001- Final Form C-144-OCD-July 7, 2007.pdf

NMOCD-Artesia Office

Mike,

Please find attached a copy of the final C-144 for the Chesapeake Operating, Inc. Henshaw Federal 23 Well #001 (API #30-015-34448) along with analytical results. Please let me know if you have any questions or difficulty with this file.

Thank you,

Cliff Brunson

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7/19/2007