

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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
June 1, 2004

For drilling and production facilities, submit to appropriate NMOC 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: CTMAREX ENERGY CO. Telephone: 972-401-3111 e-mail address: 2FARFIS@CTMAREX.COM  
Address: PO BOX 140907 IRVING TX 75014-0907  
Facility or well name: LITTLE BEAR 7 FEENOLA API #: 30-025-38588 U/L or Qtr/Qtr N Sec 7 T 15S R 38E  
County: LEA Latitude 33°01' 32.68 N Longitude 103°08' 21.5E 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 <u>12</u> mil Clay <input type="checkbox"/> Pit Volume _____ 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.) <u>50</u>	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) <u>20</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 CRI. (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:	RECEIVED
	APR 08 2008
	HOBBS OCD

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 guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Date: \_\_\_\_\_  
Printed Name/Title: Dorsey Rogers Signature: [Signature]

Your certification and NMOC 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: [Signature] ENVIRONMENTAL ENGINEER Date: 4.8.08



**4311 Monica Lane, Carlsbad, NM 88220**

**Phone 505-236-6012**

**Fax 505-236-6063**

**Cell 505- 361-3217**

**Email [bandr@pvtnetworks.net](mailto:bandr@pvtnetworks.net)**

April 3, 2008

Cimarex Energy Co.  
P.O. Box 140907  
Irving Texas 75014-0907

Re: Cimarex Energy Co.  
Little Bear 7 Fee No. 2 – Final Drying pad Closure

**Little Bear 7 Fee No.2**  
API: 30-025-38588  
Sec 7-T15S-R38E

Depth to Ground Water: 50'  
Planned Analytical Testing: Chlorides  
Site Ranking Score: 20  
Primary Land Use: Ranching and Oil & Gas Production

Pursuant to Pit Rule 50 in the Pit and Below Grade Tank Guidelines of the New Mexico Oil Conservation District of the State of New Mexico regulatory requirement for pit closure, please accept the following documentation for final closure of the drilling pit for the aforementioned location.

All drill cuttings were stiffened and transported to Controlled Recovery, Inc. of Hobbs, New Mexico. Upon transferring all pit contents to C.R.I., field tests were performed on the soil within in the confines of the original drying pad. The field results of chloride delineation of the impacted material are as follows (a diagram has also been attached):

North East Quad <32.5mg/kg

North West Quad 55.3mg/kg

South East Quad <32.5mg/kg

South West Quad <32.5mg/kg

The pit area will be backfilled with clean native material and contoured to prevent erosion and ponding of rainwater.

Soil samples were collected, prepared, and packaged per EPA guidelines and forwarded to Trace Analysis in Lubbock, Texas for official analytical testing. Please find the official analytical results attached hereto.

Please review the attached documentation and contact me at 575-361-2132 with any questions or concerns.

Sincerely,

Rayland VanNatta  
B&R Trucking

Cimarex Energy Co.

Little Bear 7 #2

Sampling/Location diagram

Excavation Start Date 3-6-08

End Date 3-7-08

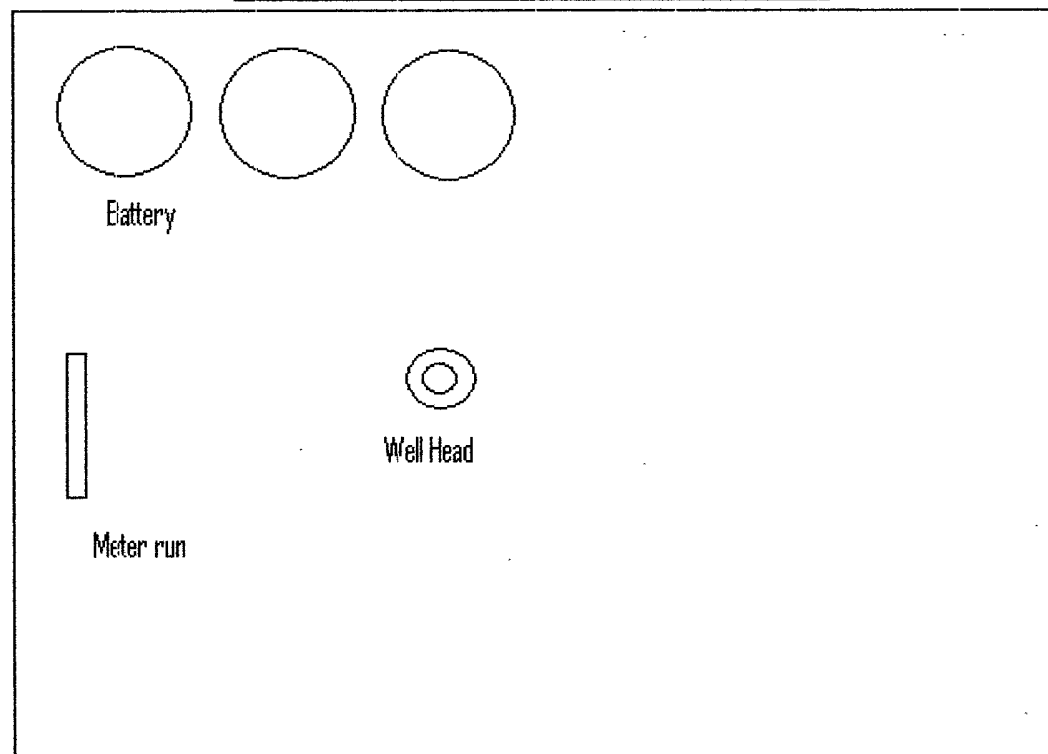
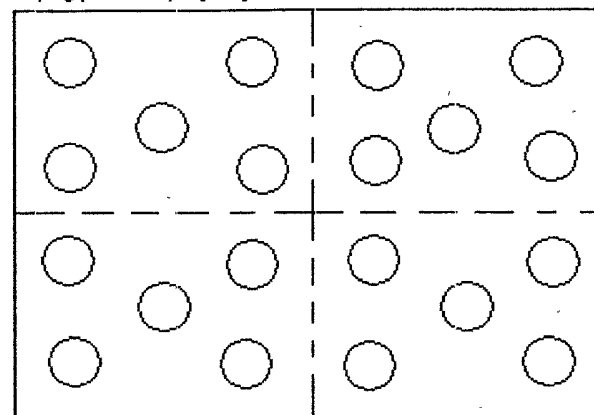
The Excavation included the removal of all mud, liner, and 6" of soil under liner.

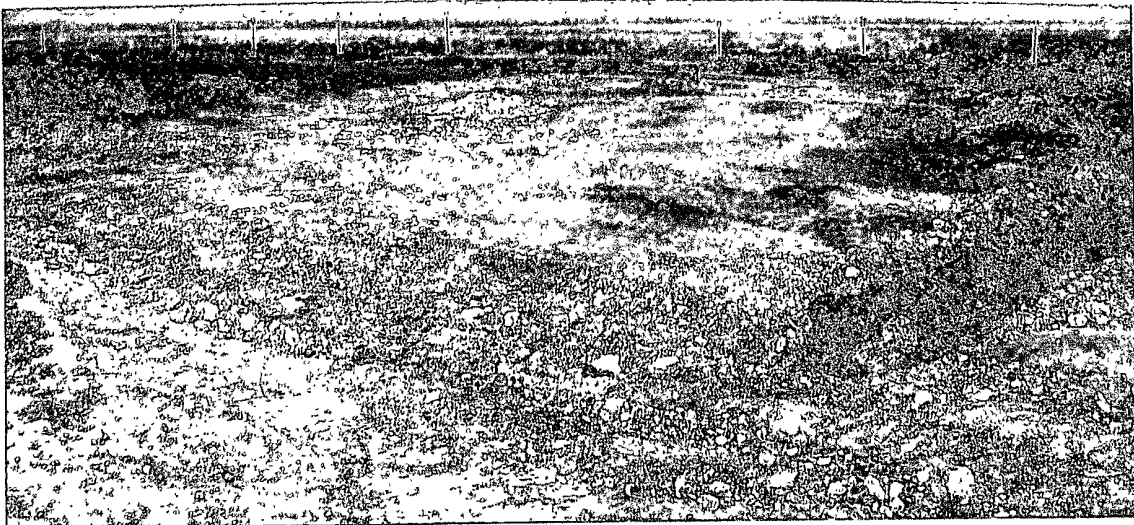
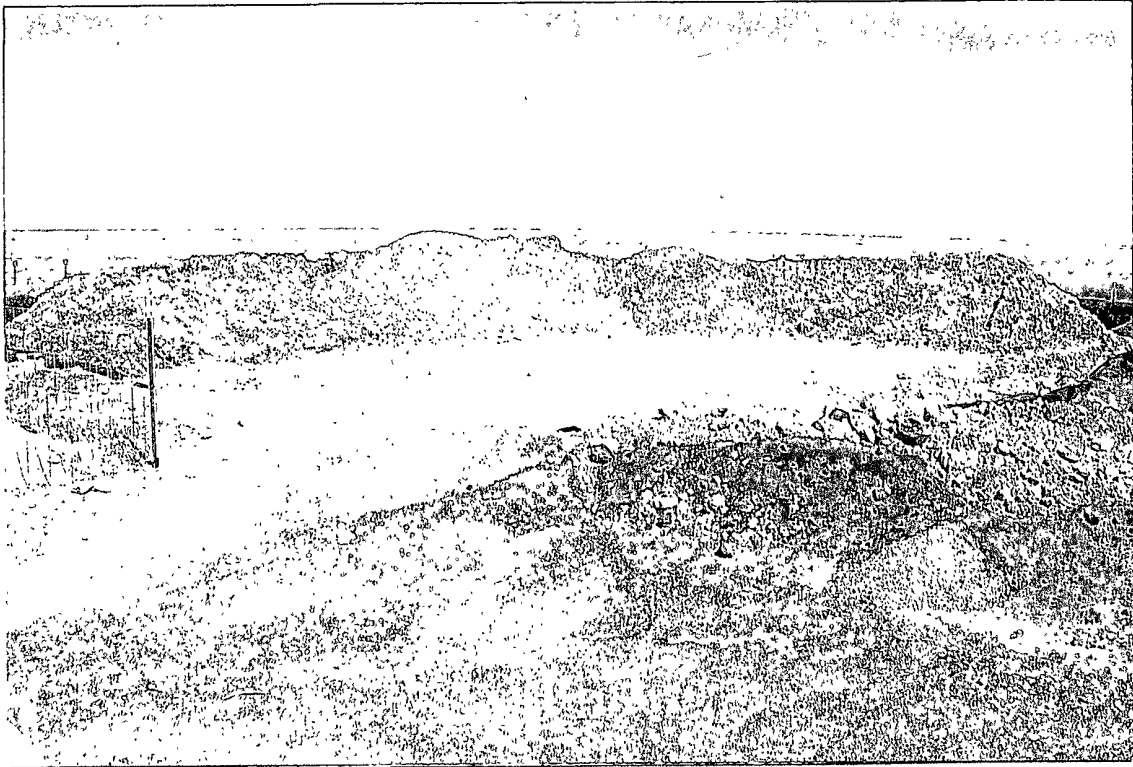
Field samples were then performed and digging continued where necessary.

The drying pad was divided into four equal quadrants. Five samples were taken in each quad (one in each corner and one in the center) they were then combined into one composite sample for that quad.

Drying pad/Sampling diagram

-North Side-





## Summary Report

Rayland Vannatta  
B & R Trucking  
4311 Monica Lane  
Carlsbad, NM, 88220

Report Date: April 2, 2008

Work Order: 8040115



Project Location: Little Bear 7 Fee No. 2 (NM)  
Project Name: Cimarex  
Project Number: API 30-025-38588

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
155220	NE Quad.	soil	2008-03-24	08:00	2008-04-01
155221	NW Quad.	soil	2008-03-24	08:30	2008-04-01
155222	SE Quad.	soil	2008-03-24	09:00	2008-04-01
155223	SW Quad.	soil	2008-03-24	09:30	2008-04-01

**Sample: 155220 - NE Quad.**

Param	Flag	Result	Units	RL
Chloride		<32.5	mg/Kg	3.25

**Sample: 155221 - NW Quad.**

Param	Flag	Result	Units	RL
Chloride		55.3	mg/Kg	3.25

**Sample: 155222 - SE Quad.**

Param	Flag	Result	Units	RL
Chloride		<32.5	mg/Kg	3.25

**Sample: 155223 - SW Quad.**

Param	Flag	Result	Units	RL
Chloride		<32.5	mg/Kg	3.25

**TraceAnalysis, Inc.**

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-12965002 Basin Street, Suite A1  
Midland, Texas 79703  
Tel (432) 689-6301  
Fax (432) 689-6313200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-34438808 Camp Bowie Blvd. West, Suite 180  
Ft. Worth, Texas 76116  
Tel (817) 201-5260  
Fax (817) 560-4336

Company Name: **B3R TRUCKING** Phone #: **575-236-6012**

Address: (Street, City, Zip) **4311 MONIECH LN CARLSBAD NM 88201** Fax #: **575-236-6063**

Contact Person: **RAYLAND VANNATTA** E-mail: **board-1@wildblue.net**

Invoice to: (If different from above)

Project #: **30-025-38588** Project Name: **CIMAREX**

Project Location (including state): **LITTLE BEAR 7 FEE NO. 2 (N.M.)** Sampler Signature: *[Signature]*

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		MTBE 8021B / 602	BTX 8021B / 602	TPH 418.1 / TX1005	TPH 8015 GRO / DRO	PAH 8270C / 625	Total Metals Ag As Ba C	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B /	GC/MS Semi. Vol. 82	PCB's 8082 / 608	Pesticides 8081A / 6	BOD, TSS, pH	Moisture Content	CHLORIDES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Relinquished by: **Rayland VANNATTA** Date: **3/31** Time: **7:00**

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Temp°C: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Temp°C: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: *[Signature]* Company: \_\_\_\_\_ Date: **04/08/08** Time: **10:00** Temp°C: **14°**

**LAB USE ONLY**Intact ☒ Y / ☐ N  
Headspace ☒ Y / ☐ N / ☐ NA  
Log-In-Review *[Signature]***REMARKS:**

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

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Form C-144  
June 1, 2004

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>Cimarex Energy Co.</u> Telephone: <u>972-401-3111</u> e-mail address: <u>7farris@cimarex.com</u>		
Address: <u>PO Box 140907, Irving, TX 75014-0907</u>		
Facility or well name: <u>Little Bear 7 Fee No. 2</u> API #: <u>30-025-38588</u> U/L or Qtr/Qtr <u>N</u> Sec. <u>7</u> T <u>15S</u> R <u>38E</u>		
County: <u>Lea</u> Latitude <u>33° 01' 32.68 N</u> Longitude <u>103° 08' 21.58 W</u> NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input checked="" 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 _____ bbl closed system, cuttings hauled	<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>50</u>	Less than 50 feet (20 points) <u>50 feet or more, but less than 100 feet</u> (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) <u>No</u> (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) <u>1000 feet or more</u> (0 points)	
Ranking Score (Total Points)		20

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: <u>Pit contents &amp; liner must be removed after well is complete. Carl</u>

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: 10.11.07

Printed Name/Title: Natalie Krueger - Regulatory Analyst

Signature: Natalie Krueger

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. SUPT.

Signature: Chris Williams

Date: 10/12/07