

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 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 ☒

Final Report

Operator: <u>B. C. Operating, Inc.</u> Telephone: <u>(432) 684-9696</u> e-mail address: <u>Jsimon@usaonline.net</u>		
Address: <u>P. O. Box 50820 Midland, TX 79710</u>		
Facility or well name: <u>Rattletrap #1</u> API #: <u>30-025-38373</u> U/L or Qtr/Qtr <u>H</u> Sec <u>18</u> T <u>16S</u> R <u>32E</u>		
County: <u>Lea</u> Latitude _____ Longitude _____ NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
Pit 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>20</u> mil Clay <input type="checkbox"/> Pit Volume <u>12,000</u> bbl	Below-grade tank 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.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points) XXX
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) XXX
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) XXX
Ranking Score (Total Points)		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.

Additional Comments: A burial was excavated and lined with a 12 mil impervious liner. The drilling pit contents were mixed with dry soil to stiffen the mud then placed in the burial pit. The burial pit was capped with a 20 mil impervious liner 3' below ground surface and overlapping 3' in all directions. After all mud was removed 5 bottom sample points were analyzed per NMOCD guidelines. A vertical delineation was completed with all sample points below NMOCD recommended levels for this site with the Deepest point at 18' below ground surface. The drilling pit was capped with a 20 mil impervious liner then the site was backfilled with clean native soil and contoured to the surrounding area.

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: 2/22/08
Printed Name/Title E. Williams Signature [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: Chris Williams Signature Chris Williams Date: 03/03/2008
Printed Name/Title _____ RP# 1803

F CWH0806430524

PRIDE ENERGY COMPANY

(918) 524-9200 ♦ Fax (918) 524-9292 ♦ www.pride-energy.com

Physical Address: Kensington Tower
2250 East 73rd Street, Suite 550
Tulsa, OK 74136

Mailing Address: P.O. Box 701950
Tulsa, OK 74170-1950
Email Address: mattp@pride-energy.com

February 12, 2008

Via Certified Mail

Return Receipt #

91 3408 2133 3931 4902 4177

New Mexico Energy, Minerals and
Natural Resources Department
Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240

ATTN: Chris Williams

RE: Drilling Pit Closures
Lea County, New Mexico


Chris,

Please find enclosed the Closure Report prepared by Elke Environmental, Inc. for Pride Energy Company dated February 6, 2008, which includes the signed Form C-144, Final Report for the following described wells in which the drilling pits have now been closed.

<u>Well Name</u>	<u>API #</u>
1. East Saunders Unit #1	30-025-01871
2. South 4 Lakes Unit #16	30-025-36882

Thank you Chris and if there are any questions, please feel free to contact me at 918-524-9200.

Sincerely,



Matthew L. Pride
Pride Energy Company

RECEIVED

FEB 19 2008

HOBBS OCD

BC OPERATING, INC.

P.O. Box 50820
Midland, Texas 79710

303 Veterans Air Park Lane, Suite 600
Midland, Texas 79705
(432) 684-9696
Fax (432) 686-0600

February 22, 2008

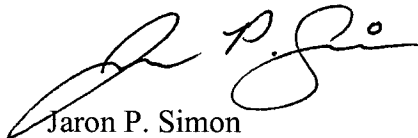
NMOCD
Mr. Chris Williams
1625 N. French Drive
Hobbs, NM 88240

Re: Rattletrap #1 UL "H" Section 18 T16S-R32E, Lea County New Mexico
API: 30-025-38375

Dear Mr. Williams,

Enclosed please find for your review the closure report prepared by Elke Environmental, Inc. for the above mentioned property. If further information is required please call at your earliest convenience.

Sincerely,



Jaron P. Simon

Enclosures

RECEIVED
FEB 25 2008
HOBBS OCD

Closure Report

Prepared for
B C Operating

Rattletrap #1
API # 30-025-38373
Lea County, NM

RECEIVED

FEB 25 2008

HOBBS OCD

Prepared by
Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

February 20, 2008

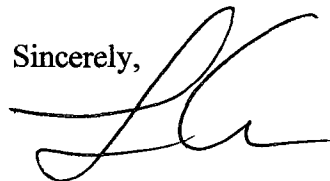
New Mexico Oil Conservation Division
Mr. Larry Johnson
1625 N. French Dr.
Hobbs, New Mexico 88240

Re: B C Operating – Rattletrap #1
UL 'H' Sec. 18 T16S R32E Lea County, NM
API # 30-025-38373

Mr. Larry Johnson,

Elke Environmental was contracted by B C Operating to complete the closure of the Rattletrap #1 drilling pit. As per the C-144 filed and signed by Pat Richards On 1-14-08 a burial pit was constructed and lined with a 12 mil impervious liner. The drilling mud was stiffened with dry soil then placed in the burial pit. The burial pit was capped with a 20 mil impervious liner. The bottom tests of the drilling pit were analyzed per NMOCD Guidelines. A vertical delineation was performed and all samples were below NMOCD recommended levels for this site with the deepest sample at 18' below ground surface. The drilling pit was domed at 6' below ground surface then capped with a 20 mil impervious liner. The site was then backfilled with clean native soil and contoured to the surrounding area. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

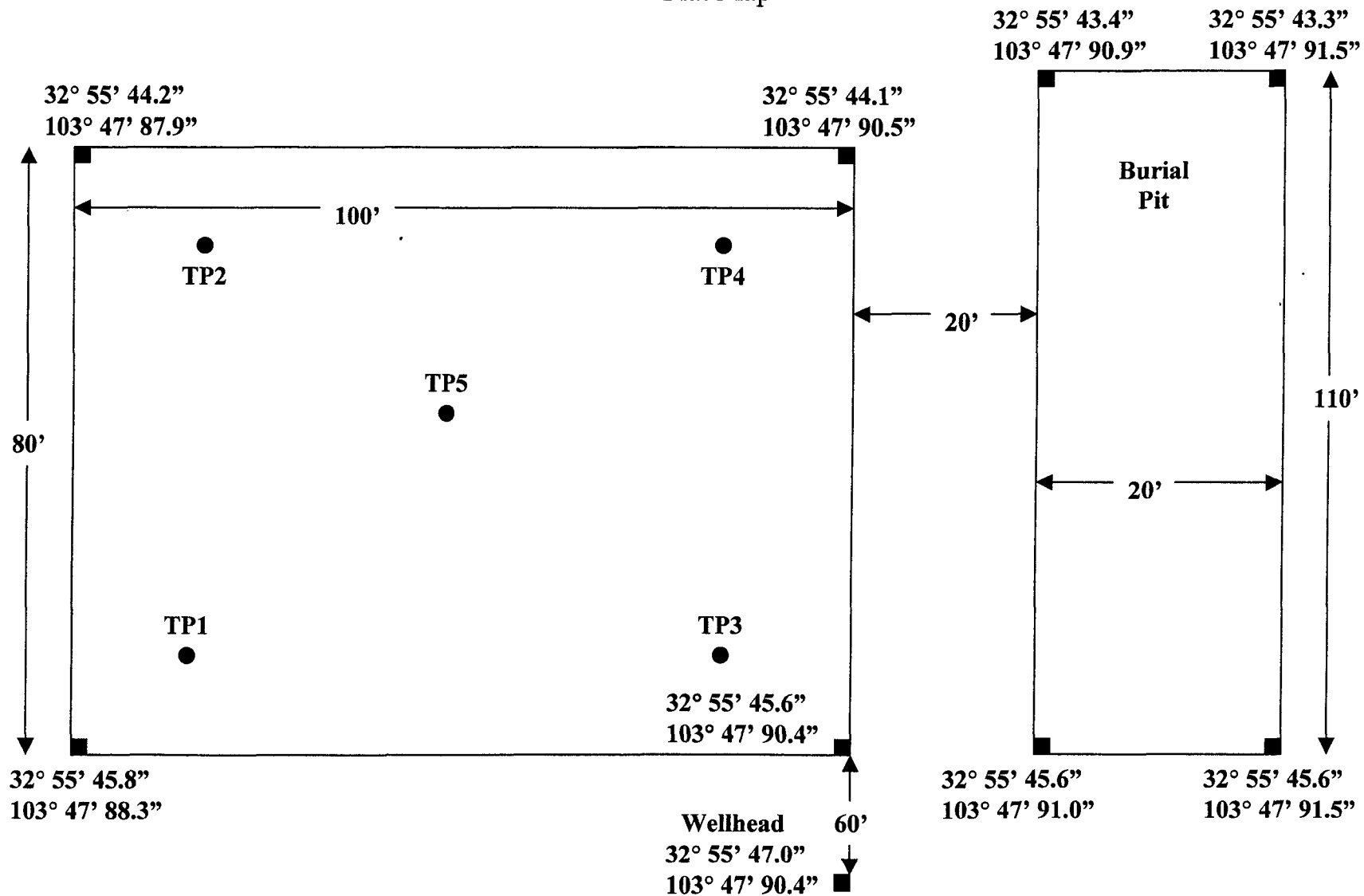


Logan Anderson



B C Operating
Rattletrap #1

Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client B C Operating

Analyst Jason Jessup

Site Rattletrap #1

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP1	2-14-08	6'		14,965		32° 55' 45.4" N 103° 47' 88.5" W
TP1	2-14-08	8'		9,724		32° 55' 45.4" N 103° 47' 88.5" W
TP1	2-14-08	10'		9,896		32° 55' 45.4" N 103° 47' 88.5" W
TP1	2-14-08	12'		10,295		32° 55' 45.4" N 103° 47' 88.5" W
TP1	2-14-08	14'		10,553		32° 55' 45.4" N 103° 47' 88.5" W
TP1	2-14-08	16'		5,350		32° 55' 45.4" N 103° 47' 88.5" W
TP1	2-14-08	18'		527	17.3	32° 55' 45.4" N 103° 47' 88.5" W
TP2	2-14-08	6'		11,358		32° 55' 44.5" N 103° 47' 88.5" W
TP2	2-14-08	8'		11,496		32° 55' 44.5" N 103° 47' 88.5" W
TP2	2-14-08	10'		11,956		32° 55' 44.5" N 103° 47' 88.5" W
TP2	2-14-08	12'		1,489		32° 55' 44.5" N 103° 47' 88.5" W
TP2	2-14-08	14'		260	5.1	32° 55' 44.5" N 103° 47' 88.5" W
TP3	2-14-08	6'		12,057		32° 55' 45.4" N 103° 47' 90.3" W
TP3	2-14-08	8'		13,551		32° 55' 45.4" N 103° 47' 90.3" W
TP3	2-14-08	10'		6,231		32° 55' 45.4" N 103° 47' 90.3" W
TP3	2-14-08	12'		671		32° 55' 45.4" N 103° 47' 90.3" W
TP3	2-14-08	14'		828		32° 55' 45.4" N 103° 47' 90.3" W

Analyst Notes _____

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client B C Operating

Analyst Jason Jessup

Site Rattletrap #1

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP3	2-14-08	16'		823	4.7	32° 55' 45.4" N 103° 47' 90.3" W
TP4	2-14-08	6'		2,557		32° 55' 44.4" N 103° 47' 90.2" W
TP4	2-14-08	8'		601		32° 55' 44.4" N 103° 47' 90.2" W
TP4	2-14-08	10'		262	1.9	32° 55' 44.4" N 103° 47' 90.2" W
TP5	2-14-08	6'		4,924		32° 55' 45.0" N 103° 47' 89.0" W
TP5	2-14-08	8'		3,659		32° 55' 45.0" N 103° 47' 89.0" W
TP5	2-14-08	10'		2,999		32° 55' 45.0" N 103° 47' 89.0" W
TP5	2-14-08	12'		10,114		32° 55' 45.0" N 103° 47' 89.0" W
TP5	2-14-08	14'		13,133		32° 55' 45.0" N 103° 47' 89.0" W
TP5	2-14-08	16'		4,883		32° 55' 45.0" N 103° 47' 89.0" W
TP5	2-14-08	17'		772	19.3	32° 55' 45.0" N 103° 47' 89.0" W

Analyst Notes _____

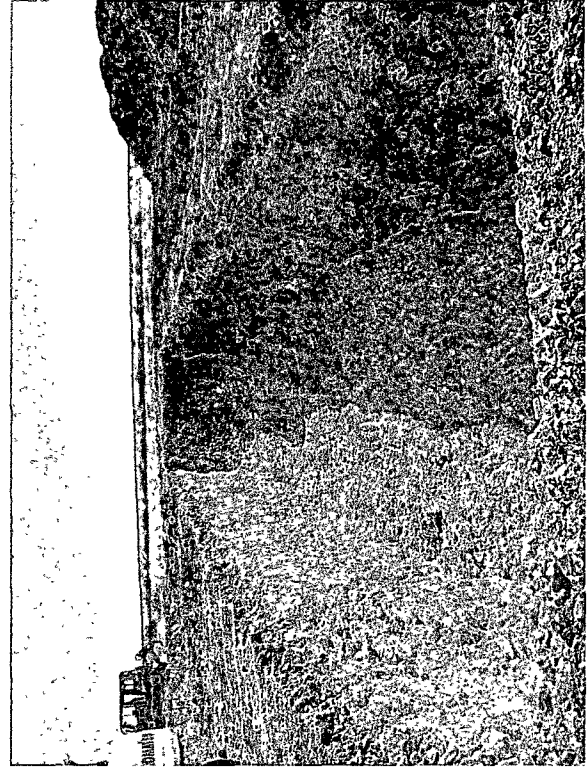
BC Operating – Rattletrap #1



Drilling pit before closure.



Drilling pit before closure.



Burial pit before 12 mil liner.



Burial pit after installation of 12 mil impervious liner.

BC Operating – Rattletrap #1



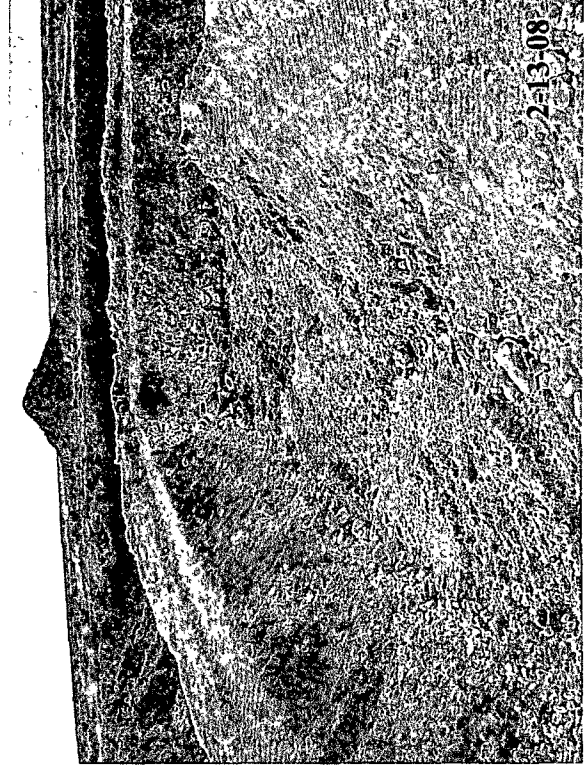
Burial pit full of drilling mud.



Burial pit capped with a 20 mil impervious liner.

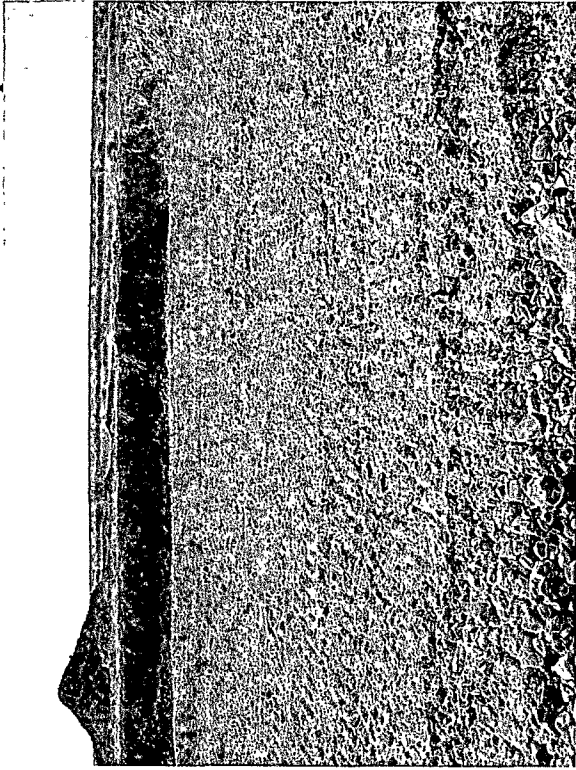


Drilling pit after all mud and liner have been removed.



Drilling pit after all mud and liner have been removed.

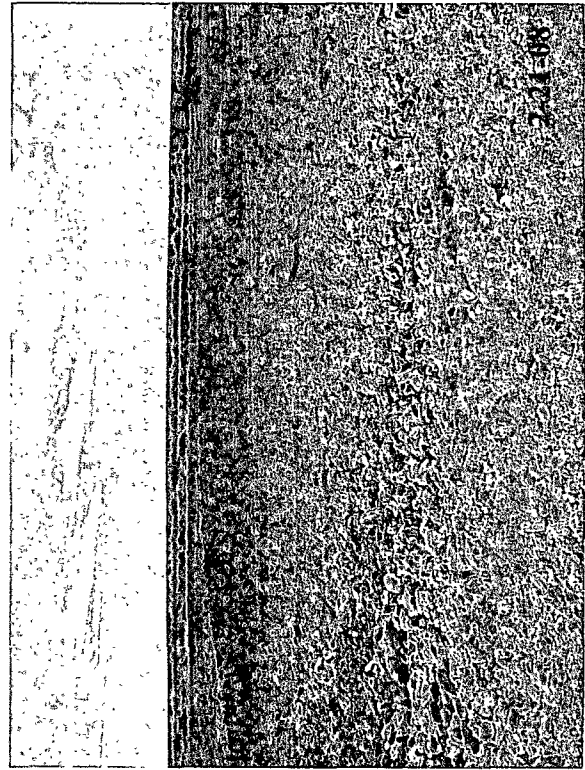
BC Operating – Rattletrap #1



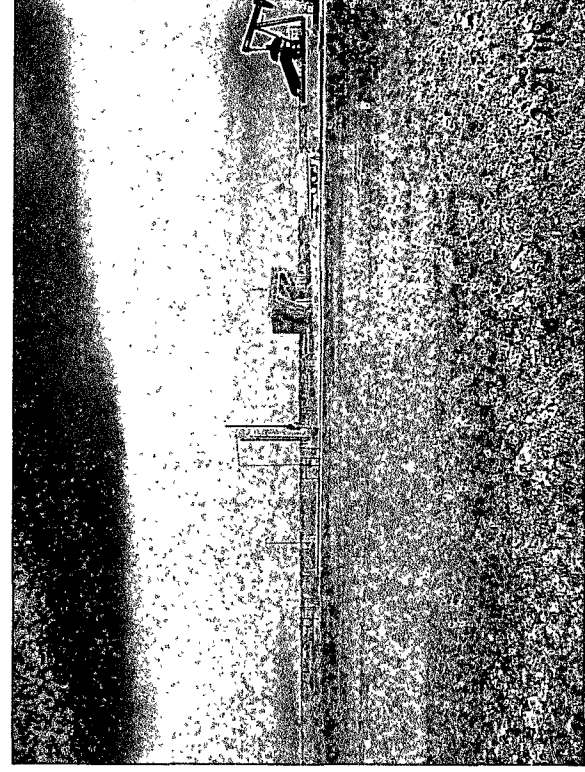
Drilling pit domed at 6' below ground surface.



20 mil impervious liner installed at 6' below ground surface.



Site after backfill of clean native soil and contouring.



Site after backfill of clean native soil and contouring.

Analytical Report 297818

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

BC Operating

19-FEB-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta



19-FEB-08

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **297818**
BC Operating
Project Address: Rattle Trap # 1

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 297818. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 297818 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 297818**Elke Environmental, Inc., Odessa, TX**

BC Operating

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 1 @ 18'	S	Feb-14-08 10:30	18 ft	297818-001
TP # 2 @ 14'	S	Feb-14-08 11:45	14 ft	297818-002
TP # 3 @ 16'	S	Feb-14-08 13:20	16 ft	297818-003
TP # 4 @ 10'	S	Feb-14-08 14:30	10 ft	297818-004
TP # 5 @ 17'	S	Feb-14-08 16:00	17 ft	297818-005



Certificate of Analysis Summary 297818

Elke Environmental, Inc., Odessa, TX

Project Name: BC Operating

Project Id:

Contact: Logan Anderson

Project Location: Rattle Trap # 1

Date Received in Lab: Fri Feb-15-08 03:44 pm


Report Date: 19-FEB-08

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	297818-001	297818-002	297818-003	297818-004	297818-005	
	Field Id:	TP # 1 @ 18'	TP # 2 @ 14'	TP # 3 @ 16'	TP # 4 @ 10'	TP # 5 @ 17'	
	Depth:	18 ft	14 ft	16 ft	10 ft	17 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Feb-14-08 10:30	Feb-14-08 11:45	Feb-14-08 13:20	Feb-14-08 14:30	Feb-14-08 16:00	
Percent Moisture	Extracted:						
	Analyzed:	Feb-15-08 17:00	Feb-15-08 17:00	Feb-15-08 17:00	Feb-15-08 17:00	Feb-15-08 17:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		19.2	2.95	6.75	3.67	9.51	
TPH by SW8015 Mod	Extracted:	Feb-15-08 16:00	Feb-15-08 16:00	Feb-15-08 16:00	Feb-15-08 16:00	Feb-15-08 16:00	
	Analyzed:	Feb-15-08 17:01	Feb-16-08 07:26	Feb-16-08 07:51	Feb-16-08 08:43	Feb-16-08 09:09	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 18.6	29.3 15.5	ND 16.1	ND 15.6	ND 16.6	
C12-C28 Diesel Range Hydrocarbons		ND 18.6	78.2 15.5	ND 16.1	29.6 15.6	ND 16.6	
C28-C35 Oil Range Hydrocarbons		ND 18.6	19.0 15.5	ND 16.1	56.5 15.6	ND 16.6	
Total TPH		ND	126.5	ND	86.1	ND	
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Feb-16-08 10:55	Feb-16-08 10:55	Feb-16-08 10:55	Feb-16-08 10:55	Feb-16-08 10:55	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		421 6.19	110 5.15	890 5.36	353 5.19	421 5.53	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi


Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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11381 Meadowglen Lane Suite L Houston, Tx 77082-2647
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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
6017 Financial Dr., Norcross, GA 30071

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477

Project Name: BC Operating

Work Order #: 297818

Project ID:

Lab Batch #: 715014

Sample: 297738-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.8	100	97	70-135	
o-Terphenyl	50.3	50.0	101	70-135	

Lab Batch #: 715014

Sample: 297738-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.1	100	95	70-135	
o-Terphenyl	50.1	50.0	100	70-135	

Lab Batch #: 715014

Sample: 297818-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	90.5	100	91	70-135	
o-Terphenyl	49.5	50.0	99	70-135	

Lab Batch #: 715014

Sample: 297818-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	89.6	100	90	70-135	
o-Terphenyl	48.5	50.0	97	70-135	

Lab Batch #: 715014

Sample: 297818-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	86.7	100	87	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Project Name: BC Operating

Project ID:

Work Order #: 297818

Lab Batch #: 715014

Sample: 297818-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	86.1	100	86	70-135	
o-Terphenyl	45.3	50.0	91	70-135	

Lab Batch #: 715014

Sample: 297818-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	80.7	100	81	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 715014

Sample: 504822-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.3	100	96	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 715014

Sample: 504822-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.0	100	91	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 715014

Sample: 504822-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	96.5	100	97	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: BC Operating

Work Order #: 297818

Project ID:

Lab Batch #: 714856

Sample: 714856-1-BKS

Matrix: Solid

Date Analyzed: 02/16/2008

Date Prepared: 02/16/2008

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	100	87.2	87	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: BC Operating

Work Order #: 297818

Analyst: BRB

Date Prepared: 02/15/2008

Project ID:

Date Analyzed: 02/15/2008

Lab Batch ID: 715014

Sample: 504822-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	864	86	1000	870	87	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	889	89	1000	899	90	1	70-135	35	

Relative Percent Difference RPD = $200 * |(D-F)/(D+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: BC Operating

Work Order #: 297818

Project ID:

Lab Batch ID: 715014

QC- Sample ID: 297738-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/15/2008

Date Prepared: 02/15/2008

Analyst: BRB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1050	906	86	1050	901	86	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1050	953	91	1050	933	89	2	70-135	35	

Lab Batch ID: 714856

QC- Sample ID: 297818-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/16/2008

Date Prepared: 02/16/2008

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Total Chloride by EPA 325.3 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	421	2210	2910	113	2210	2910	113	0	75-125	30	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: BC Operating

Work Order #: 297818

Lab Batch #: 714852

Date Analyzed: 02/15/2008

QC- Sample ID: 297774-008 D

Reporting Units: %

Date Prepared: 02/15/2008

Batch #: 1

Project ID:

Analyst: JLG

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.86	2.69	6	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.

A Xanco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Logan Anderson

Project Name: BC Operator

Company Name **Eike Environmental**

Project #:

Company Address: P O Box 14167

Project Loc: Rattle Trap #

City/State/Zip: Odessa, TX 79768

PO #:

Telephone No' 432-366-0043

Fax No. 432-366-0884

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: la_elkeenv@yahoo.com

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Total # of Containers	Preservation & # of Containers		Matrix		Analyze For:		RUSH TAG #	Status	
ORDER #												TOTAL:					
01	TP #1 @ 18'			18'		2-14-08	10:30am	1	X								
02	TP #2 @ 14'			14'		2-14-08	11:45am	1	X								
03	TP #3 @ 16'			16'		2-14-08	1:20pm	1	X								
04	TP #4 @ 10'			10'		2-14-08	2:30pm	1	X								
05	TP #5 @ 17'			17'		2-14-08	4:00pm	1	X								
Special Instructions:																	
Relinquished by: <i>[Signature]</i>	Date: 2-15-08	Time: 3:44pm	Received by:	Date:	Time:	Laboratory Comments:											
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Sample Containers Intact?											
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	VOCs Free of Headspace?											
						Labels on container(s)											
						Custody seals on container(s)											
						Custody seals on cooler(s)											
						Sample Hand Delivered											
						by Courier? UPS DHL FedEx Lone Star											
						Temperature Upon Receipt: 40°F											

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: ELKE Env.
Date/ Time: 2-15-08 15:44
Lab ID #: 297818
Initials: AL

Sample Receipt Checklist

			Client Initials	
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>2.0</u>	°C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Present</u>	
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#6	Sample Instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>ID written on Cont./ Lid</u>	
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Applicable</u>	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>See Below</u>	
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>Not Applicable</u>	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken. _____

- Check all that Apply
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

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: B. C. Operating, Inc. Telephone: (432) 684-9696 e-mail address: Jsimon@usaonline.net
Address: P. O. Box 50820 Midland, TX 79710
Facility or well name: Rattletrap #1 API #: 30-025-38373 U/L or Qtr/Qtr H Sec 18 T 16S R 32E
County: Lea Latitude _____ Longitude _____ NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit
Type: Drilling ☒ Production ☐ Disposal ☐
Workover ☐ Emergency ☐
Lined ☒ Unlined ☐
Liner type: Synthetic ☒ Thickness 20 mil Clay ☐
Pit Volume 12,000 bbl

Below-grade tank

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

RECEIVED

JAN 11 2008

HOBBS OCD

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points) XXX
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) XXX
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) XXX
Ranking Score (Total Points)		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.

Additional Comments: A burial will be excavated and lined with a 12 mil impervious liner. The drilling pit contents will be mixed with dry soil to stiffen the mud then placed in the burial pit. The burial pit will then be capped with a 20 mil impervious liner 3' below ground surface and overlapping 3' in all directions. A minimum of 3' of clean native soil will then be backfilled. 5 bottom sample points will be analyzed per NMOCD guidelines. The site will be backfilled with clean native soil and contoured to the surrounding areas. A full closure report will be submitted at the end of the job.

Hobbs NMOCD will be notified 48 hrs before the start of the job.

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: 1-8-08

Printed Name/Title: Logan Anderson - 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: _____

Date: 1/14/08

COMPLIANCE OFFICER

RBC