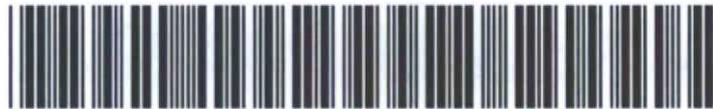




# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number: pLWJ1011030515**

**1RP - 2482**

**ENERGEN RESOURCES CORPORATION**



May 7, 2010

Attn: Larry Johnson  
Oil Conservation Division  
1625 N. French Drive  
Hobbs, NM 88240

RECEIVED  
MAY 10 2010  
HOBBSOCD

RE: West Lovington Strawn Unit #11  
UL B; SEC 22; T-15-S; R-35-E; 760' FNL & 2090 FEL  
Lea County, NM

Dear Mr. Johnson,

On November 10, 2009 Energen Resources experienced a produced water leak of approximately 30 barrels on the West Lovington Strawn Unit #11 well location. A 1/4" steel plug failed on the transfer pump causing the leak. Although this well is PA'ed the battery facility is still in place and a salt water transfer pump was being utilized as a booster to pump produced water to our SWD facility on the Bear lease.

Verbal notice was given the same day; the initial C-141 was filed with the Hobbs Division office on December 4, 2009. On November 13, 2009 Sweatt Construction began excavation of the affected area. On November 17, 2009 Energen Resources contracted Tetra Tech in Midland to collect and analyze samples within the excavated area (sample results included). Chloride levels above regulatory limits were detected in all samples and additional excavation was undertaken. On December 11, 2009 I conducted another round of sampling within the excavated area, elevated chloride levels were again noted in 4 of the 5 sampling sites. I sampled one additional area not sampled by Tetra Tech in the original batch. Additionally on the same day I pulled a water sample from the windmill that is down gradient or North of the spill location for analysis (included), good water no, contamination from production operations in the area.

I again sampled the area on March 2, 2010 at that time only one of the samples contained chlorides in the soil a slightly higher than regulatory limits (results attached). The remaining samples are within regulatory limits for chloride levels in the soil.

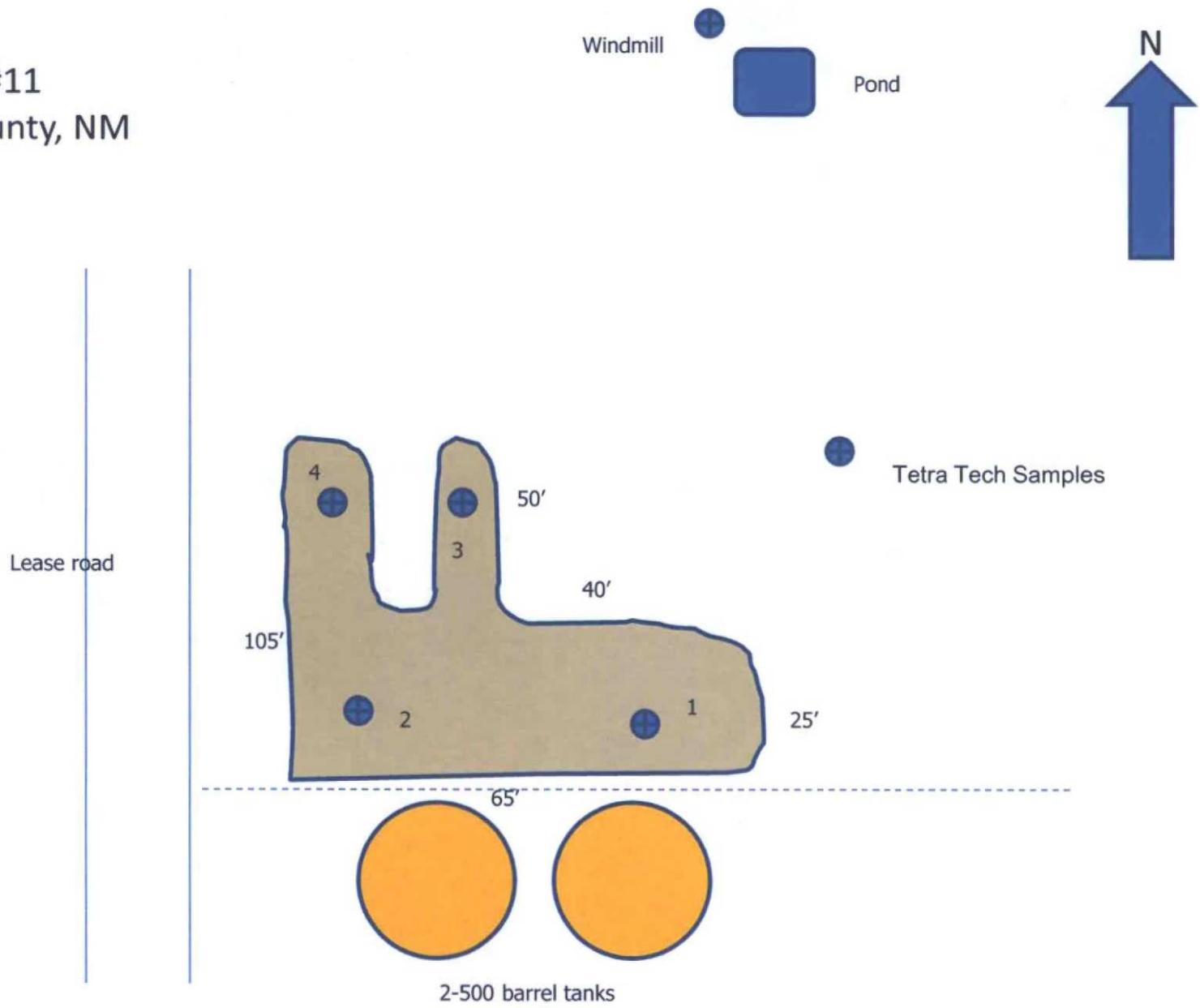
Energen respectfully submits the following plan in order to submit the final C-141 for OCD approval and closure. Based on sampling of the excavation Energen feels that soil levels have been adequately delineated as to chloride concentration. We do not feel at this time that any further chloride contamination can or will be experienced associated with the spill of 11-10-09. We therefore would request installation of an impermeable clay layer in the bottom of the excavation of approximately 12" depth, fill the remaining hole with caliche and install 12-18 inches of topsoil; or to a level at least as deep as the surrounding undisturbed topography.

Thank you for consideration of Energen's request and I look forward to visiting with you about any further concerns that may need to be addressed concerning this matter.

Sincerely,

Andrew Cobb  
Senior Safety & Environmental Specialist  
Energen Resources Corp.

WLSU #11  
Lea County, NM



# WLSU 11 Excavation Tetra Tech Samples





# ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

---

November 24, 2009

Rex Smith  
Energen Resources Corporation  
3300 North A St., Bldg. 4, Ste. 100  
Midland, TX 79705

Re: Soil Samples

Enclosed are the results of analyses for sample number H18788, received by the laboratory on 11/23/09 at 4:40 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 Fax (575) 393-2476

BILL TO		ANALYSIS REQUEST	
P.O. #:			
Company:			
Attn:			
Address:			
City:			
State:			
Phone #:			
Fax #:			
Project #:			
Project Name:			
Project Location:			
Sampler Name:			
FOR LAB USE ONLY			
Lab I.D.		Sample I.D.	
H18788-1	#1	GROUNDWATER	DATE
-2	2	WASTEWATER	TIME
-3	3	SOIL	
-4	4	OIL	
		SLUDGE	
		OTHER	
		ACID/BASE	
		ICE / COOL	
		OTHER:	
		# CONTAINERS	
		(G) RAB OR (COMP)	
		MATRIX	
		PRESERV	
		SAMPLING	

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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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.

Sampler Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: [Signature] Date: 11-23-09 Received By: [Signature] Temp. \_\_\_\_\_

Delivered By: (Circle One) Other Checked By: [Signature] (Initials)

Sampler - UPS - Bus - Other: \_\_\_\_\_

Phone Result:  No  No Add'l Phone #: \_\_\_\_\_

Fax Result:  No  No Add'l Fax #: \_\_\_\_\_

REMARKS: ASAP!  
call w/verbal  
R Smith @ earson.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

# WLSU #11 Spill; 12-2-09 Samples





# ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

---

December 3, 2009

Rex Smith  
Energen Resources Corporation  
3300 North A St., Bldg. 4, Ste. 100  
Midland, TX 79705

Re: WLSU #11

Enclosed are the results of analyses for sample number H18819, received by the laboratory on 12/02/09 at 4:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director

---

This report conforms with NELAP requirements.





# WLSU #11 Spill; 12-11-09 Samples





# Martin Water Laboratories, Inc.

*Analysts & Consultants since 1953*  
Bacterial & Chemical Analysis

TO: Mr. Andy Cobb  
3300 N "A", Bldg 4, Suite 100  
Midland, TX 79705

Laboratory No.: 1209-129  
Date Received: 12-11-09  
Results Reported: 12-21-09

COMPANY: Energen Resources  
COUNTY: Lea, NM  
LEASE: West Lovington #11

SUBJECT: To determine the water soluble chloride levels of the submitted soil samples taken 12-11-09.

Source of sample & date taken:

- #1. WLSU #1
- #2. WLSU #2
- #3. WLSU #3
- #4. WLSU #4
- #5. WLSU #5

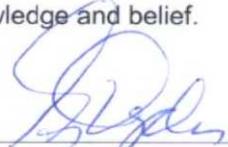
METHOD: The submitted soil samples were dried, weighed, and placed in a specific volume of distilled water for a period of 18 hours with periodic agitation. The water-soluble chlorides were then determined on the sample filtrate.

	#1		#2		#3	
DETERMINATION	Percent	Mg/kg	Percent	Mg/kg	Percent	Mg/kg
Chloride, as Cl	0.0625	625	0.0398	398	0.1733	1,733

	#4		#5	
DETERMINATION	Percent	Mg/kg	Percent	Mg/kg
Chloride, as Cl	0.0369	369	0.0028	28

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

  
 \_\_\_\_\_  
 Greg Ogden, B.S.

*S. Indace*



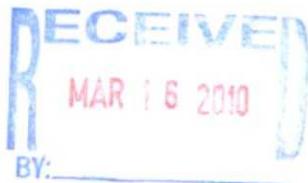
# WLSU #11 Spill; 3-2-10 Samples





# Martin Water Laboratories, Inc.

*Analysts & Consultants since 1953*  
Bacterial & Chemical Analysis



TO: Mr. Andy Cobb  
3300 N "A", Bldg 4, Suite 100  
Midland, TX 79705

Laboratory No.: 310-126  
Date Received: 3-2-10  
Results Reported: 3-15-10

COMPANY: Energen Resources  
FIELD: Lovington  
LEASE: WLSU #11

SUBJECT: To determine the water soluble salt levels of the submitted soil samples taken

Source of sample & date taken:

- #1. WLSU #11 - sample #1.
- #2. WLSU #11 - sample #2.
- #3. WLSU #11 - sample #3.

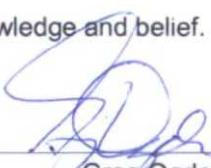
METHOD: The submitted soil samples were dried, weighed, and placed in a specific volume of distilled water for a period of 18 hours with periodic agitation. The water-soluble chloride was then determined on the sample filtrate.

DETERMINATION	#1		#2	
	Percent	Mg/kg	Percent	Mg/kg
Chloride, as Cl	0.0284	284	0.0142	142

DETERMINATION	#3	
	Percent	Mg/kg
Chloride, as Cl	0.0114	114

Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

  
\_\_\_\_\_  
Greg Ogden, B.S.

WLSU #11  
Bill