

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-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

API # 30-039-21484

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Energen Resources, Inc.	Contact: Ed Hasely
Address: 2010 Afton Place, Farmington, NM 87401	Telephone No: 505-324-4131
Facility Name: Jicarilla 94 #2A	Facility Type: Oil/Gas Well Site

Surface Owner: Jicarilla	Mineral Owner: Jicarilla	Lease No. Jicarilla 94
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### LOCATION OF RELEASE

Unit Letter D	Section 27	Township 27N	Range 3W	Feet from the 990	North/South Line North	Feet from the 1190	East/West Line West	County Rio Arriba
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Latitude 36.5488

Longitude -107.13669

### NATURE OF RELEASE

Type of Release: Produced Fluids	Volume of Release: Unknown	Volume Recovered: 0 bbls
Source of Release: Production Pit Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 6/11/09
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

RCVD JUN 19 09

OIL CONS. DIV.  
DIST. 3

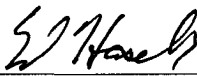
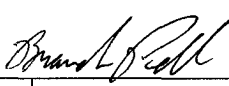
If a Watercourse was Impacted, Describe Fully.\* NA

#### Describe Cause of Problem and Remedial Action Taken.\*

Sampling underneath the tank during the below-grade tank closure showed chloride results of 290 ppm. According to the Pit Rule, any result over 250 ppm is an indication of a release.

Describe Area Affected and Cleanup Action Taken.\* The chlorides result is only slightly over the 250 ppm that the Pit Rule had set as an indication of a leak. Depth to water at this location is estimated to be greater than 100 feet. No soil excavation is recommended.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Ed Hasely		Approved by District Supervisor:  For: Charlie Perren	
Title: Sr. Environmental Engineer		Approval Date: 6-19-09	Expiration Date:
E-mail Address: ed.hasely@energen.com		Conditions of Approval:	
Date: 6/17/09 Phone: 505-324-4131 / 505-330-3584(cell)		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

nBP 0918936146



June 10, 2009

Client No. 03022-0142

Mr. Bill Stalcup  
Energen Resources  
2010 Afton Place  
Farmington, NM 87401

Phone: (505) 793-7606

**RE: CONFIRMATION SAMPLING AND BELOW GRADE TANK CLOSURE  
DOCUMENTATION AT THE JICARILLA 94 #2A WELL SITE**

Dear Mr. Stalcup,

Enclosed please find the field notes and analytical results for confirmation sampling activities for a release from a broken valve on an above ground storage tank (AST), and below grade tank (BGT) closure activities performed at the Jicarilla 94 #2A well site located in Section 27, Township 27N, Range 3W, Rio Arriba County, New Mexico. Prior to arrival, the area of release had been excavated to approximately 40' x 42' x 16' deep. Upon arrival, Envirotech, Inc. personnel conducted a brief site assessment. Because the site is located on the Jicarilla Apache Indian Reservation, the closure standard was determined to be 100 ppm total petroleum hydrocarbons (TPH) and 100 ppm organic vapors; pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases. A representative of the Jicarilla Apache Environmental Protection Office was also onsite to observe sampling activities.

Five (5) composite samples were collected from the excavation. One (1) composite sample was collected from each of the four (4) walls, and one (1) composite sample was collected from the bottom of the excavation at 16 feet below ground surface (BGS). The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a Photo Ionization Detector (PID). All of the samples were below the regulatory limit of 100 ppm TPH. The samples from each of the walls were below the regulatory limit of 100 ppm organic vapors; however, the sample from the bottom was above 100 ppm organic vapors. The sample from the bottom was then placed into a four (4) ounce glass jar, capped headspace free, and transported on ice under chain of custody to Envirotech's laboratory to be analyzed for benzene and BTEX using USEPA Method 8021. The sample was below the regulatory limits of 10 ppm benzene and 50 ppm BTEX; therefore, no further excavation was required.

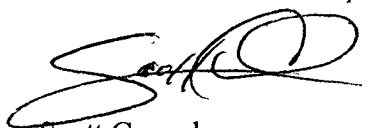
Envirotech, Inc. personnel then collected a five (5)-point composite sample from the BGT pit for spill confirmation. The sample was analyzed in the field for TPH using USEPA Method 418.1, for organic vapors using (PID), and for chlorides. Additionally, the sample was placed into a four (4) ounce glass jar, capped headspace free, and

BGT

transported on ice under chain of custody to Envirotech's laboratory to be analyzed for benzene and BTEX using USEPA Method 8021 and for total chloride using USEPA Method 4500. The sample was below the regulatory limits of 100 ppm TPH, 100 ppm organic vapors, 0.2 ppm benzene and 50 ppm BTEX. The sample was below the regulatory limit of 250 ppm total chloride in the field; however, the sample was above the regulatory limit of 250 ppm total chloride using USEPA Method 4500; confirming a release had occurred. Because there is no regulatory closure standard for total chloride, no excavation is required.

Envirotech, Inc. recommends no further action in regards to these incidents. We appreciate the opportunity to be of service. If you have any questions, or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,  
**ENVIROTECH, INC.**



Scott Gonzales  
Sr. Environmental Technician  
[sgonzales@envirotech-inc.com](mailto:sgonzales@envirotech-inc.com)

Enclosures: Field Notes  
Analytical Results  
Summary of Analytical Results

Cc: Client File No. 03022

WHO ORDERED



EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Client: Energen  
Sample No.: 1  
Sample ID: 5 point comp  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 03022-0142  
Date Reported: 6/2/2009  
Date Sampled: 5/12/2009  
Date Analyzed: 5/12/2009  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	8	5.0
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ND = Parameter not detected at the stated detection limit.

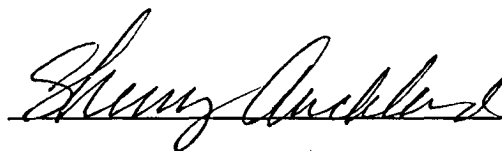
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Jicarilla 94 #2A BGT Closure

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Scott Gonzales  
Printed



Sherry Auckland  
Printed



## Field Chloride

Client:	Energen	Project #:	03022-0142
Sample No.:	1	Date Reported:	6/3/2009
Sample ID:	5 pt Comp	Date Sampled:	5/12/2009
Sample Matrix:	Soil	Date Analyzed:	5/12/2009
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	62	31.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992  
Hach Company Quantab Titrators for Chloride

Comments: Jicarilla 94 #2A

  
Analyst

Scott Gonzales  
Printed

  
Review

Sherry Auckland  
Printed



# envirotech

Analytical Laboratory

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0142
Sample ID:	5pt. Comp. BGT	Date Reported:	05-15-09
Laboratory Number:	50037	Date Sampled:	05-12-09
Chain of Custody:	7049	Date Received:	05-12-09
Sample Matrix:	Soil	Date Analyzed:	05-14-09
Preservative:	Cool	Date Extracted:	05-13-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	21.7	0.9
Toluene	355	1.0
Ethylbenzene	67.7	1.0
p,m-Xylene	762	1.2
o-Xylene	165	0.9
Total BTEX	1,370	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla 94 #2A

Analyst

Review



# envirotech

Analytical Laboratory

Chloride

Client:	Energen	Project #:	03022-0142
Sample ID:	5pt. Comp. BGT	Date Reported:	05-19-09
Lab ID#:	50037	Date Sampled:	05-12-09
Sample Matrix:	Soil	Date Received:	05-12-09
Preservative:	Cool	Date Analyzed:	05-19-09
Condition:	Intact	Chain of Custody:	7049

Parameter

Concentration (mg/Kg)

Total Chloride

290

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Jicarilla 94 #2A.

Analyst

Review



**Ed Hasely**

**From:** Ed Hasely  
**Sent:** Tuesday, June 16, 2009 3:22 PM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** Dixon Sandoval  
**Subject:** FW: Below Grade Tank Closure - Jicarilla 94 #2A - Potential Past Release Notification

Brandon - This note is to notify you that during the below grade tank closure work on this well, a soil sample was analyzed and the chlorides came back at 290 ppm. According to the Pit Rule, chlorides over 250 ppm is an indication of a past release.

Envirotech conducted field screening during the BGT closure work. The sample from below the tank was below the regulatory limit of 250 ppm total chloride in the field, however the sample was slightly above the limit using EPA Method 4500 in the laboratory weeks later. Envirotech's report on the BGT closure work will be submitted w/ the BGT closure report. Mr. Dixon Sandoval (Jicarilla Environmental Protection Office) was onsite for the closure work and agreed that the BGT could be closed.

Please let me know if you have questions. I will be submitting the closure report in the near future.

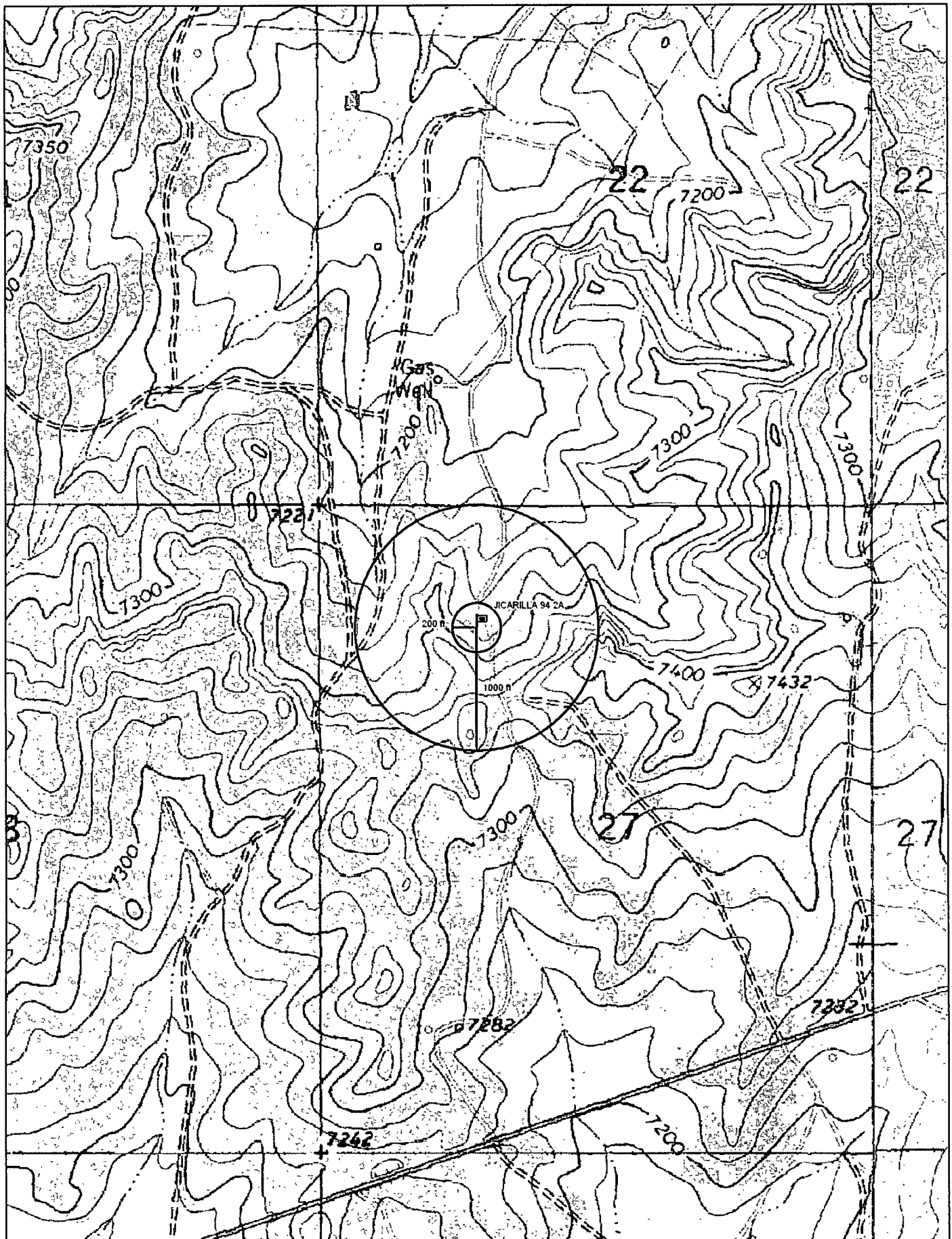
**Ed Hasely**  
**Energen Resources Corporation**

**From:** Ed Hasely  
**Sent:** Monday, May 11, 2009 8:10 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Cc:** Billy Stalcup  
**Subject:** Below Grade Tank Closure Notification - Jicarilla 94 #2A

Brandon - This note is to provide you w/ notification that Energen plans to close the below mentioned below grade tank in the near future. Please let me know if you have any questions. Thanks.

LeaseName	LeaseUserID	AFENumber	Status	County	UserField1	Section	Townsh
JICARILLA 94 2A MV	3129195A		PROD	RIO ARRIBA, NM	D	27	27N

**Ed Hasely**  
**Energen Resources Corporation**  
 Sr. Environmental Engineer  
[ed.hasely@energen.com](mailto:ed.hasely@energen.com)  
 Office: (505) 324-4131  
 Cell: (505) 330-3584



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Scale 1 : 12,800  
1" = 1070 ft

