

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

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 115E #14A (API 3003922978)	Facility Type: Oil/Gas Well Site

Surface Owner: Jicarilla	Mineral Owner: Jicarilla	Lease No. Jicarilla 115E
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LOCATION OF RELEASE

Unit Letter 1	Section 10	Township 26N	Range 3W	Feet from the 1850	North/South Line South	Feet from the 1120	East/West Line East	County Rio Arriba
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Latitude 36.49668

Longitude -107.12504

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: 3/31/10
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	

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 TPH (Method 418.1) results of 124 ppm. According to the Pit Rule, any result over 100 ppm is an indication of a release.

Describe Area Affected and Cleanup Action Taken.*

A sample was collected 3 feet below the bottom of the below grade tank and it tested clean. A risk ranking of the location shows a zero, thus the cleanup level is 5000 pm TPH and the result of the sampling directly below the tank was only 124 ppm. No removal of soils was required. Mr. Dixon Sandoval (Jicarilla Environmental Protection Office) was on location for the soil testing and closure. Lab analyses are attached along w/ Envirotech's field notes.

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: <i>E Hasely</i>		OIL CONSERVATION DIVISION	
Printed Name: Ed Hasely		Approved by District Supervisor: <i>Branch Bell</i> For: CP	
Title: Sr. Environmental Engineer		Approval Date: 9/28/10	Expiration Date:
E-mail Address: ed.hasely@energen.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/24/10 Phone: 505-324-4131 / 505-330-3584(cell)			

* Attach Additional Sheets If Necessary

nBP102741490

WHO ORDERED

Client: Energen

Location No: _____

C.O.C. No: _____

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1LOCATION: NAME: Jicarilla 1156 WELL #: 14m
QUAD/UNIT: _____ SEC: 10 TWP: 26N RANG: 3W PM: _____ CNTY: RAST: NM
QTR/FOOTAGE: _____ CONTRACTOR: EnergenDATE STARTED: 3/31/10
DATE FINISHED: 3/31/10
ENVIRONMENTAL SPECIALIST: (Signature)EXCAVATION APPROX: 15 FT. X 20 FT. X 3' FT. DEEP CUBIC YARDAGE: _____

DISPOSAL FACILITY: _____ REMEDIATION METHOD: _____

LAND USE: Grazing LEASE: _____ LAND OWNER: JicarillaCAUSE OF RELEASE: unknown MATERIAL RELEASED: unknownSPILL LOCATED APPROXIMATELY: 30 FT. 15' FROM well head

DEPTH TO GROUNDWATER: _____ NEAREST WATER SOURCE: _____ NEAREST SURFACE WATER: _____

NMOCD RANKING SCORE: _____ NMOCD TPH CLOSURE STD: _____ PPM _____

SOIL AND EXCAVATION DESCRIPTION:

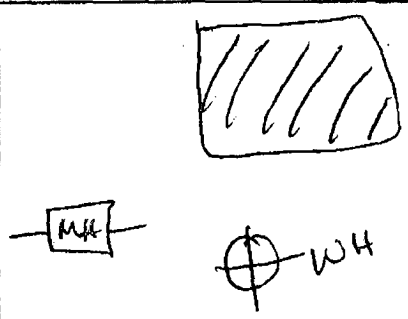
100 PPM via Dickson Sandoval of Jicarilla EPA

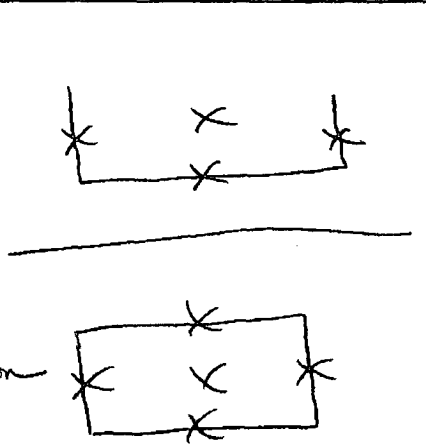
SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>200std (232)</u>	<u>13:10</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>22.8</u>	<u>-</u>
<u>3' Below pit</u>	<u>14:15</u>	<u>1</u>	<u>-</u>	<u>5</u>	<u>20</u>	<u>4</u>	<u>7</u>	<u>28</u>

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE

	SAMPLE ID	FIELD HEADSPACE PID (ppm)	
	<u>1</u>	<u>98.7</u>	
	<u>1</u>	<u>1.4</u>	
LAB SAMPLES			
SAMPLE ID	ANALYSIS	TIME	
<u>1</u>	<u>8015 per Dickson</u>		



X = Sample Points

TRAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Energen Resources	Project #:	03022-0166
Sample No.:	2	Date Reported:	4/14/2010
Sample ID:	3' Below Pit Comp.	Date Sampled:	3/31/2010
Sample Matrix:	Soil	Date Analyzed:	3/31/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

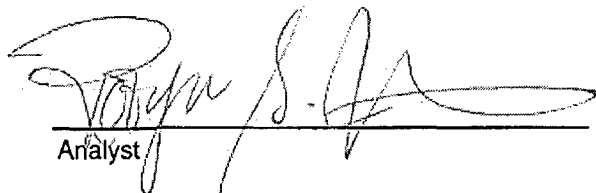
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	28	5.0

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 115E #14A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Robyn S. Jones

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Review

Sherry Auckland

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Energen Resources	Project #:	03022-0166
Sample No.:	1	Date Reported:	4/14/2010
Sample ID:	Directly Beneath Pit	Date Sampled:	3/31/2010
Sample Matrix:	Soil	Date Analyzed:	3/31/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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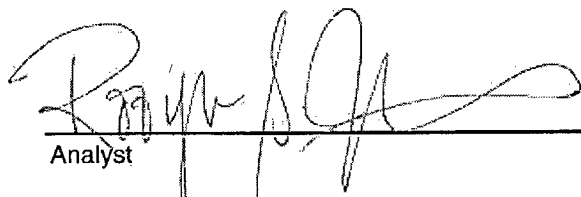
Total Petroleum Hydrocarbons	124	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla 115E #14A**

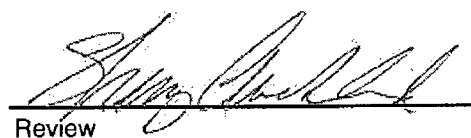
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Robyn S. Jones

Printed



Review

Sherry Auckland

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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

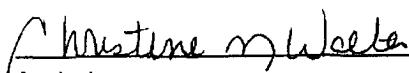
Client:	Energen	Project #:	03022-0166
Sample ID:	3' Below Pit	Date Reported:	04-06-10
Laboratory Number:	53541	Date Sampled:	03-31-10
Chain of Custody No:	8966	Date Received:	04-01-10
Sample Matrix:	Soil	Date Extracted:	04-02-10
Preservative:	Cool	Date Analyzed:	04-05-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 115E #14A**


Analyst


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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**


Client:	Energen	Project #:	03022-0166
Sample ID:	Directly Beneath Pit	Date Reported:	04-06-10
Laboratory Number:	53540	Date Sampled:	03-31-10
Chain of Custody No:	8966	Date Received:	04-01-10
Sample Matrix:	Soil	Date Extracted:	04-02-10
Preservative:	Cool	Date Analyzed:	04-05-10
Condition:	Intact	Analysis Requested:	8015 TPH

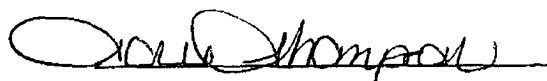
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.7	0.2
Diesel Range (C10 - C28)	376	0.1
Total Petroleum Hydrocarbons	381	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 115E #14A**


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0166
Sample ID:	Directly Beneath Pit	Date Reported:	04-06-10
Laboratory Number:	53540	Date Sampled:	03-31-10
Chain of Custody:	8966	Date Received:	04-01-10
Sample Matrix:	Soil	Date Analyzed:	04-05-10
Preservative:	Cool	Date Extracted:	04-02-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.0	0.9
Toluene	5.0	1.0
Ethylbenzene	4.1	1.0
p,m-Xylene	9.8	1.2
o-Xylene	9.2	0.9
Total BTEX	29.1	

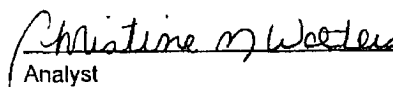
ND - Parameter not detected at the stated detection limit.

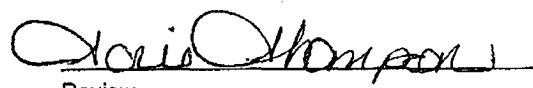
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	93.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	95.1 %

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 115E #14A


Analyst


Review



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Chloride

Client:	Energen	Project #:	03022-0166
Sample ID:	Directly Beneath Pit	Date Reported:	04-06-10
Lab ID#:	53540	Date Sampled:	03-31-10
Sample Matrix:	Soil	Date Received:	04-01-10
Preservative:	Cool	Date Analyzed:	04-02-10
Condition:	Intact	Chain of Custody:	8966


Parameter	Concentration (mg/Kg)
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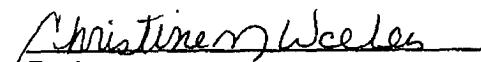
Total Chloride

50

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 115E #14A**


Analyst


Review

Ed Hasely

From: Ed Hasely
Sent: Thursday, April 29, 2010 2:48 PM
To: 'Powell, Brandon, EMNRD'
Cc: 'Dixon Sandoval'; Billy Stalcup
Subject: RE: Jicarilla 115E #14A BGT Closure

Brandon – The soils directly underneath the subject BGT tested at 124 ppm TPH using the 418.1 method. The soils three feet below the bottom of the BGT tested 28 ppm TPH. Mr. Dixon Sandoval (Jicarilla Environmental Protection Office) was present during the testing. After factoring in the low TPH levels, the fact that 3 feet down tested clean, and the specifics of the location, Mr. Sandoval authorized the small amount of slightly impacted soils to be mixed and placed back in the excavation.

I plan to submit a C-141 and a C-144 for this closure. Please let me know if you have any questions or if you want to discuss. Thanks.

Ed Hasely
Energen Resources Corporation

From: Ed Hasely
Sent: Tuesday, March 30, 2010 9:19 AM
To: 'Powell, Brandon, EMNRD'
Cc: 'Dixon Sandoval'
Subject: Jicarilla 115E #14A BGT Closure

This Email is to notify you that Energen plans to close the BGT on the subject location in the near future. The Jicarilla 115E #14A is located in Unit Letter I, Section 10 – T26N – R3W in Rio Arriba County. Please let me know if you have any questions.

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