

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

30-039-22979

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 117E #5A (API 3003922979)	Facility Type: Oil/Gas Well Site

Surface Owner: Jicarilla	Mineral Owner: Jicarilla	Lease No. Jicarilla 117E
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LOCATION OF RELEASE

Unit Letter E	Section 28	Township 26N	Range 3W	Feet from the 1850	North/South Line North	Feet from the 950	East/West Line West	County Rio Arriba
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Latitude 36.45632 Longitude -107.15274

NATURE OF RELEASE

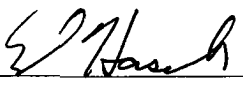
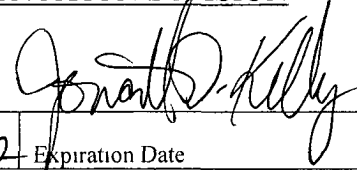
Type of Release: Produced Fluids	Volume of Release: Unknown	Volume Recovered: 0 bbls
Source of Release: Production Pit Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 9/22/10
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell - OCD Dixon Sandoval - Jicarilla	
By Whom? Ed Hasely	Date and Hour: 9/22/10 , 1 29 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA
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Describe Cause of Problem and Remedial Action Taken.* Sampling underneath the tank during the below-grade tank closure showed TPH (Method 418 I) results of 2540 ppm According to the Pit Rule, any result over 100 ppm is an indication of a release
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Describe Area Affected and Cleanup Action Taken.* The bottom of the excavation is solid rock The sample tested 4 5 ppm for TPH utilizing EPA Method 8015 therefore no remediation is necessary The area was backfilled w/ clean soils Lab analyses are attached The area is needed for operations Upon abandonment, seeding will be deferred to the BLM / Tribal requirements per the BLM / OCD MOU
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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 	
Title Sr Environmental Engineer	Approval Date 3/06/2012	Expiration Date
E-mail Address: ed.hasely@energen.com	Conditions of Approval	Attached ☐
Date: 11/12/10 Phone 505-324-4131 / 505-330-3584(cell)		

* Attach Additional Sheets If Necessary

NJK1206636316



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

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 117E #5A	Date Reported:	09-17-10
Laboratory Number:	55875	Date Sampled:	09-16-10
Chain of Custody No:	10365	Date Received:	09-16-10
Sample Matrix:	Soil	Date Extracted:	09-17-10
Preservative:	Cool	Date Analyzed:	09-17-10
Condition:	Intact	Analysis Requested:	8015 TPH

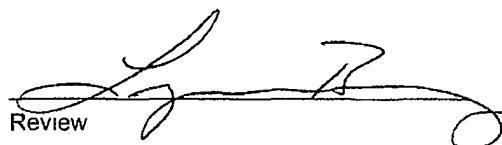
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.0	0.2
Diesel Range (C10 - C28)	3.5	0.1
Total Petroleum Hydrocarbons	4.5	

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: **BGT**


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 117 E #5A	Date Reported:	09-17-10
Laboratory Number:	55875	Date Sampled:	09-16-10
Chain of Custody:	10365	Date Received:	09-16-10
Sample Matrix:	Soil	Date Analyzed:	09-17-10
Preservative:	Cool	Date Extracted:	09-17-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

ND - Parameter not detected at the stated detection limit.

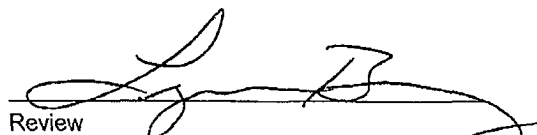
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.1 %
	1,4-difluorobenzene	101 %
	Bromochlorobenzene	101 %

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: BGT


Analyst


Review



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

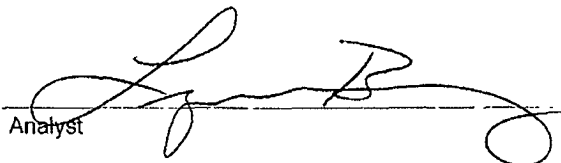
Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 117E #5A	Date Reported:	09-17-10
Laboratory Number:	55875	Date Sampled:	09-16-10
Chain of Custody No:	10365	Date Received:	09-16-10
Sample Matrix:	Soil	Date Extracted:	09-17-10
Preservative:	Cool	Date Analyzed:	09-17-10
Condition:	Intact	Analysis Needed:	TPH-418.1

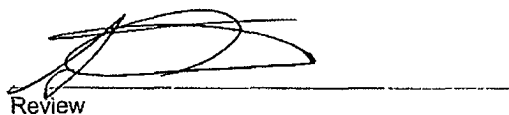
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,540	32.7

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: BGT


Analyst


Review



envirotech
Analytical Laboratory

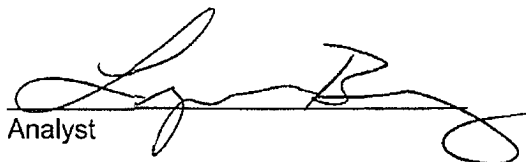
Chloride

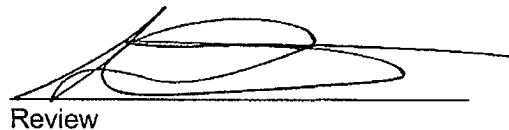
Client:	Energen Resources	Project #:	03022-0168
Sample ID:	Jic 117E #5A	Date Reported:	09-17-10
Lab ID#:	55875	Date Sampled:	09-16-10
Sample Matrix:	Soil	Date Received:	09-16-10
Preservative:	Cool	Date Analyzed:	09-17-10
Condition:	Intact	Chain of Custody:	10365

Parameter	Concentration (mg/Kg)
Total Chloride	10

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: **BGT**


Analyst


Review



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

Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	10-01-10
Laboratory Number:	56000	Date Sampled:	09-28-10
Chain of Custody No:	10419	Date Received:	09-28-10
Sample Matrix:	Soil	Date Extracted:	09-29-10
Preservative:	Cool	Date Analyzed:	09-30-10
Condition:	Intact	Analysis Requested:	8015 TPH

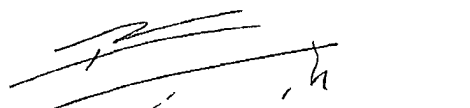
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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 117E #5A**


Analyst


Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	10-01-10
Laboratory Number:	56000	Date Sampled:	09-28-10
Chain of Custody	10419	Date Received:	09-28-10
Sample Matrix:	Soil	Date Analyzed:	09-30-10
Preservative:	Cool	Date Extracted:	09-29-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

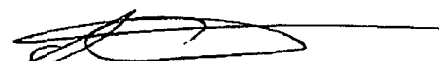
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	104 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	102 %

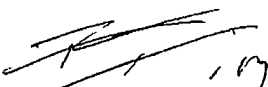
References. Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Jicarilla 117E #5A



Analyst



Review



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

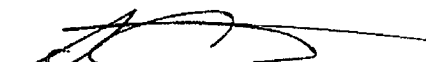
Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	09-30-10
Laboratory Number:	56000	Date Sampled:	09-28-10
Chain of Custody No:	10419	Date Received:	09-28-10
Sample Matrix:	Soil	Date Extracted:	09-30-10
Preservative:	Cool	Date Analyzed:	09-30-10
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	118	7.3

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 117E #5A



Analyst



Review



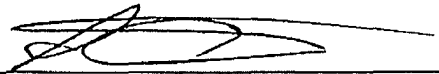
Chloride

Client:	Energen	Project #:	03022-0168
Sample ID:	Comp Sides	Date Reported:	09-30-10
Lab ID#:	56000	Date Sampled:	09-28-10
Sample Matrix:	Soil	Date Received:	09-28-10
Preservative:	Cool	Date Analyzed:	09-30-10
Condition:	Intact	Chain of Custody:	10419

Parameter	Concentration (mg/Kg)
Total Chloride	60

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 117E #5A



Analyst



Review

Ed Hasely

From: Ed Hasely
Sent: Wednesday, September 22, 2010 1 29 PM
To: 'Powell, Brandon, EMNRD'
Cc: 'Dixon Sandoval'
Subject: FW Jicarilla BGT Closure Notifications - Possible Release Notifications

During the closure process, the samples collected below the BGT's on the Jicarilla 117E #5A and the Jicarilla 35#12 tested above 100 ppm using the EPA Method 418.1. According to the Pit Rule, this is an indication of a possible past release. The samples were scraped off the rock bottom below both of these BGT's. Energen will proceed following the spill closure guidelines. Let me know if you have questions.

Ed Hasely
Energen Resources Corporation

From: Ed Hasely
Sent: Tuesday, August 31, 2010 7:27 AM
To: 'Powell, Brandon, EMNRD'
Cc: 'Dixon Sandoval'; Billy Stalcup
Subject: Jicarilla BGT Closure Notifications

Brandon – Energen plans to close the below listed BGT's in the near future. Let me know if you have questions. Thanks.

Jicarilla 117E #5A - Unit Letter E, Section 28, Township 26N, Range 3W
Jicarilla 35 #2 - Unit Letter M, Section 36, Township 25N, Range 5W
Jicarilla 35 #8 - Unit Letter I, Section 36, Township 25N, Range 5W
Jicarilla 35 #12 - Unit Letter I, Section 35, Township 25N, Range 5W
Jicarilla 94 #6A - Unit Letter P, Section 27, Township 27N, Range 3W

Ed Hasely
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Cell (505) 330-3584